

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

**GEOLOGICAL MAPPING, PROSPECTING, SOIL GEOCHEMISTRY
AND HAND TRENCHING**

on the

SPICE PROPERTY

Spice 1-10 YB93156-YB93165
Spice 11-14 YB93615-YB93618
Spice 19-36 YB93619-YB93636

NTS 105G/13

Latitude 61°59'N; Longitude 131°56'W

in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

by

W.A. Wengzynowski, P. Eng.
December 2002



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 15,000.

M. B. B.

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Costs associated with this report have been
approved in the amount of \$ 15,000.00
for assessment credit under Certificate of
Work No. QL-25619.

[Signature]

Mining Recorder
Watson Lake Mining District

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INTRODUCTION AND WORK HISTORY

The Spice property was acquired by option from Tanana Exploration Inc. and Ivan Elash (TEI) in January 2002. The Spice 1-10 claims were staked by TEI in winter 2000 to cover a newly reported multi-element regional till geochemical anomaly identified during a Geological Survey of Canada (GSC) surficial sampling and mapping initiative carried out in the summer of 2000 (Bond, 2001). The discovery sample returned strongly anomalous results for epithermal gold pathfinder elements such as gold (28.9 ppb), arsenic (484.5 ppm), antimony (151.37 ppm), mercury (21.0 ppm) and silver (1374 ppb). TEI centred its claims on the discovery sample site and the following summer conducted soil sampling within an 800 by 500 m area around that site. That work outlined a northwest trending, open ended gold-arsenic-antimony-mercury anomaly (Traynor, 2002).

Supplementary till sampling was also conducted by the GSC in summer 2001 across the suspected local ice flow direction. Geochemical highlights included a sample located about 300 m southwest of the discovery sample, which yielded high gold (13.9 g/t), silver (6995 ppb), arsenic (951.6 g/t) antimony (117.3 ppm), and mercury (23.8 ppm) values (Bond and Plouffe, 2002).

During winter 2001-2002, ATAC Resources Ltd. acquired the option and then staked an additional 22 claims around the existing block. This report describes 2002 field work conducted by ATAC in two phases between June 14 and August 27. The work consisted of geological mapping, prospecting, soil sampling and hand trenching. It was carried out by two person crews from tent camps on the property and was supervised by the author whose Statement of Qualifications appears in Appendix I.

PROPERTY, LOCATION AND ACCESS

The Spice property consists of 32 contiguous mineral claims located in the southeastern Yukon Territory at latitude 61°59' north and longitude 131°56' west on NTS 105G/13 (Figure 1). The claims are registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for ATAC Resources Ltd. Claim data are listed below while claim locations are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Spice 1-10	YB93156-YB93165	March 7, 2011
Spice 11-14	YB93615-YB93618	February 22, 2008
Spice 19-36	YB93619-YB93636	February 22, 2008

*Expiry dates include 2002 work filed for assessment credit but not yet accepted.

The area is accessible by 360 km of all season road and chip sealed highway extending from Whitehorse to Ross River. In 2002 a Bell 206B helicopter operated by Trans North Helicopters from its permanent base in Ross River was used to transport crew and supplies some 28 km east to the property. The closest road access is the North Canol Road which passes within 8 km of the claim block.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

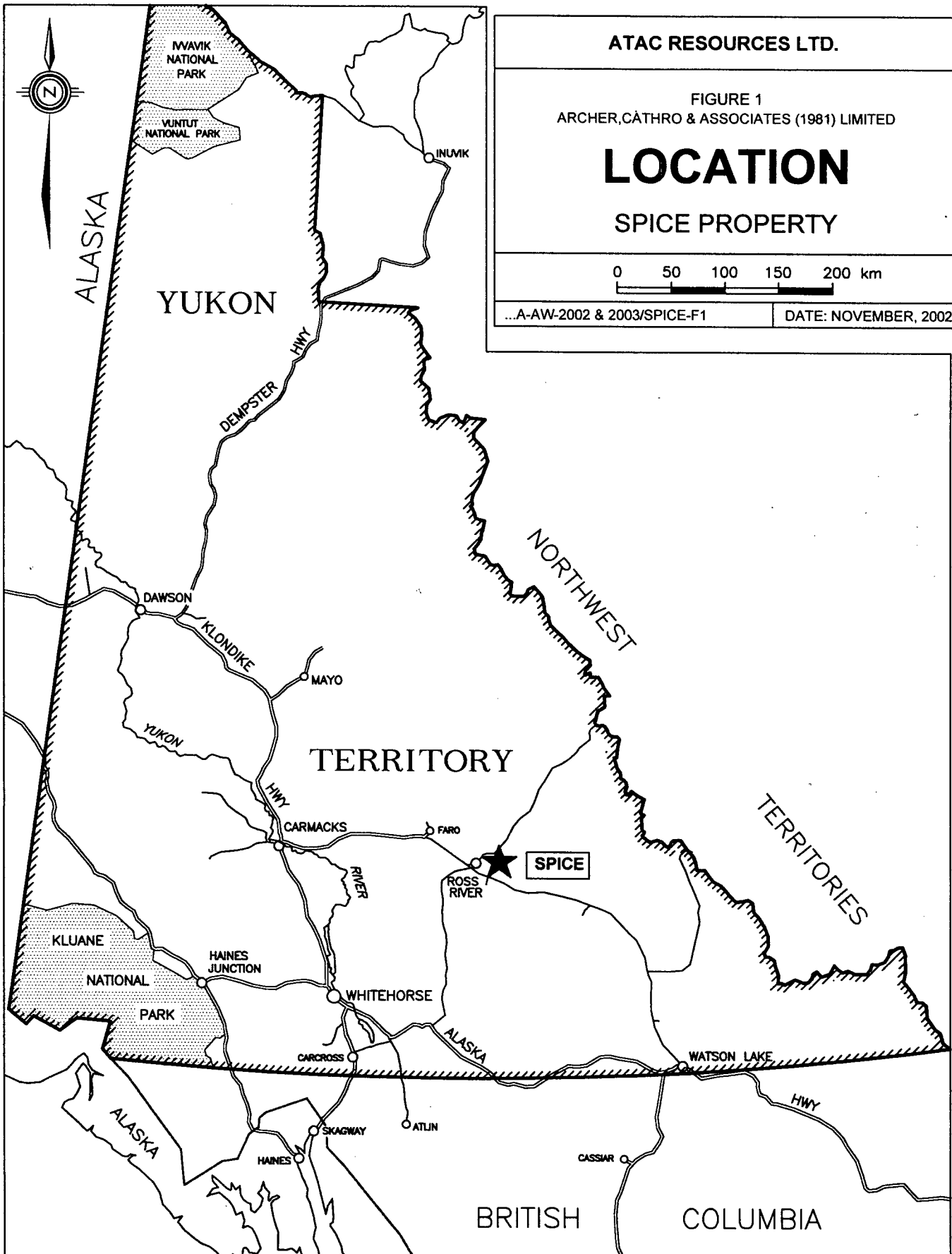
LOCATION

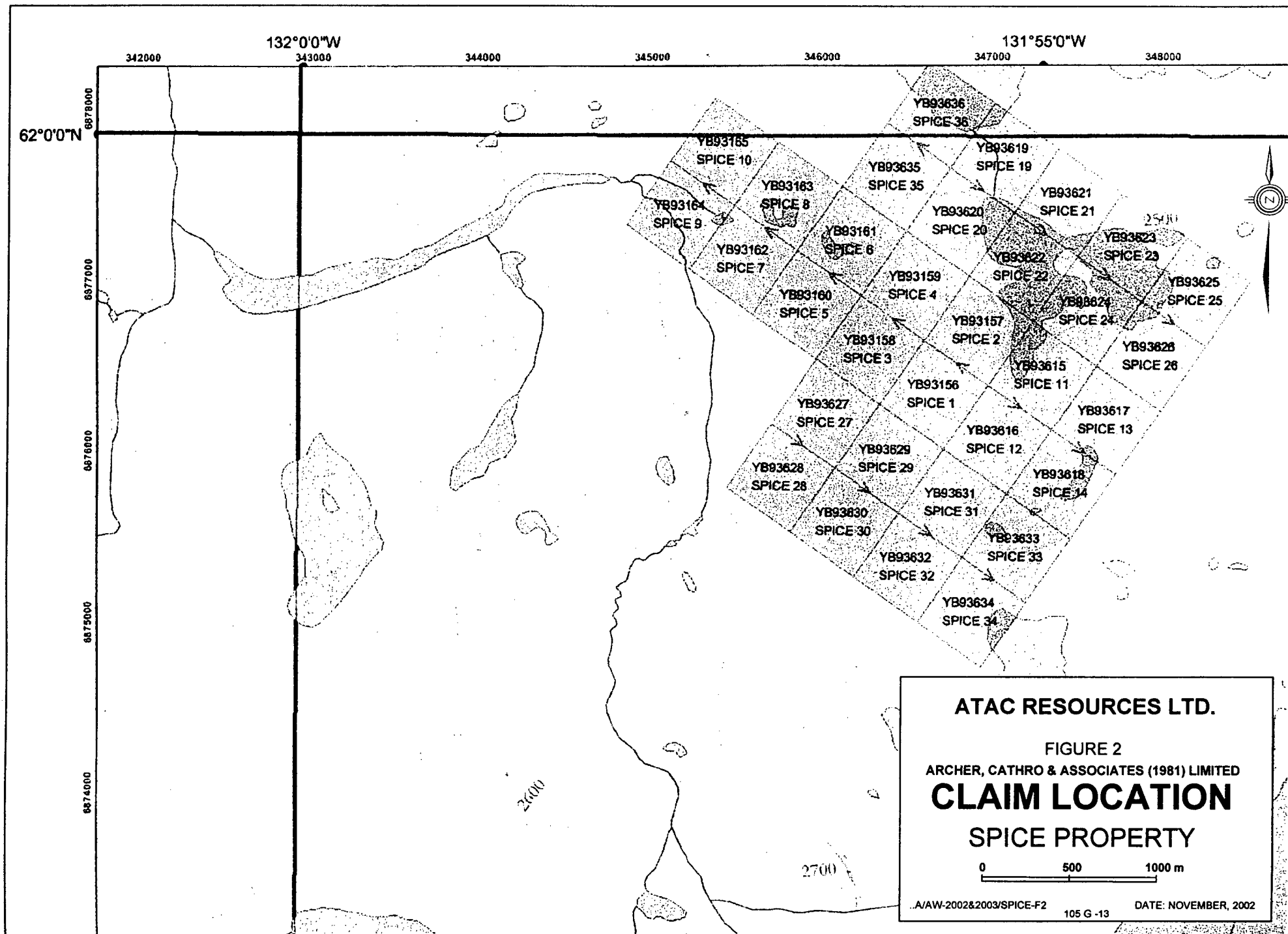
SPICE PROPERTY

0 50 100 150 200 km

...A-AW-2002 & 2003/SPICE-F1

DATE: NOVEMBER, 2002





GEOMORPHOLOGY

The Spice claims are situated within a broad upland plateau in the northern part of the Finlayson Lake District, north of the Tintina Trench. Local topography consists of low hummocks and knolls surrounding a chain of lakes and swamps. Creeks draining the immediate area flow into the Ross River and eventually the Pelly River, which are tributaries of the Yukon River. The closest mountain ranges are the Anvil Range some 30 km to the north and the St. Cyr Range approximately 30 km to the south.

During the Pleistocene the property was covered by ice sheets that flowed in a northwesterly direction and deposited a basal till veneer ranging from 0.5 to 40 m thick. Elevation ranges from 762 m near the shores of an unnamed lake to 823 m at the top of the highest knoll. Vegetation in upland areas consists of widely spaced stunted black spruce with closely intergrown poplar and willow while lower areas are predominantly covered by buckbrush, Labrador tea and swamp grass. Outcrop and subcrop are rare and are limited to the uplands.

REGIONAL GEOLOGY

The geology of the northern Finlayson Lake District was most recently mapped in 2001 as part of a collaborative targeted geoscience initiative by the Geological Survey of Canada and the Yukon Geology Program (Murphy et al, 2002). The northern part of the map area, which includes the Spice property, (Figure 3) is primarily underlain by metasedimentary rocks of the Yukon-Tanana Terrane (YTT) and weakly deformed and slightly metamorphosed sedimentary rocks of the North American Miogeocline (NAM). These assemblages are separated by the Inconnu Thrust Fault (Figures 4a and 4b). Stratigraphy north of the Inconnu Thrust Fault has been deformed by faulting and folding but exhibits low grade metamorphism and no foliation. South of the fault, the rocks have been subjected to variable degrees of metamorphism and often show differential strain within a single unit.

The youngest rocks in the area are believed to have resulted from Eocene magmatism which produced a compositionally diverse, bimodal suite of rocks. The mafic units include pillowed flows, massive flows and columnar-jointed basalts while the felsic end members include quartz-feldspar porphyry volcanic rocks that may be related to the Grew Creek volcanics situated within the Tintina Trench, approximately 60 km northwest of the property.

YTT rocks in this part of the Finlayson Lake District are comprised of Middle Permian to Triassic (?) clastic rocks, Lower Permian basalts and Carboniferous (?) intermediate to felsic volcanic and metasedimentary rocks belonging to the Finlayson Succession.

Clastic rocks occur as isolated exposures of weakly deformed conglomerate, sandstone and siltstone with rare mafic metavolcanic rocks. The conglomerate is pale green to tan weathering, poorly bedded and is comprised predominantly of foliated chert and phyllite clasts eroded from the Finlayson Succession.

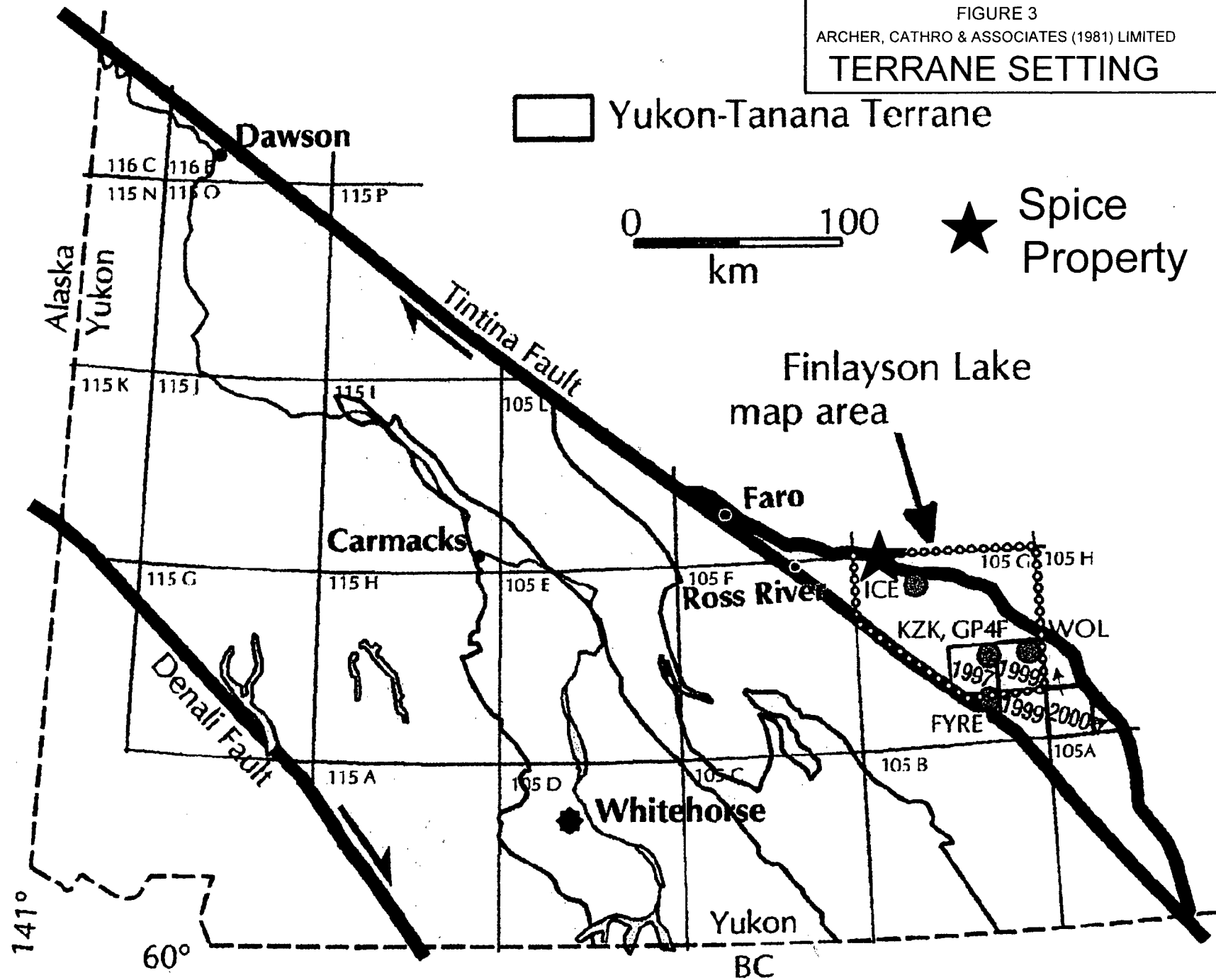
The Lower Permian basalt is generally massive, green to brown weathering and dark green to

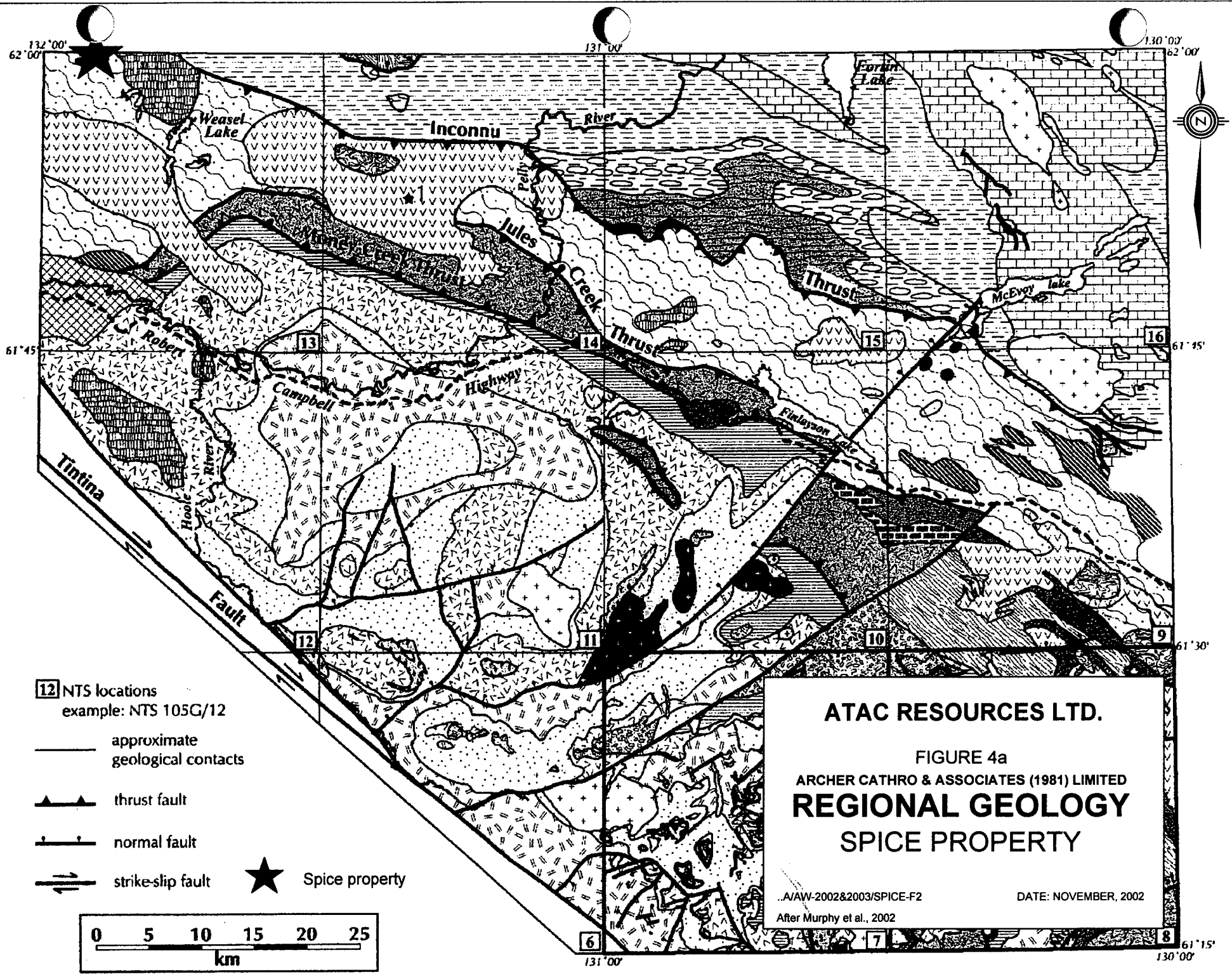
TERRANE SETTING

 Yukon-Tanana Terrane

0 100
km

★ Spice
Property





Intrusive Rocks

	Tertiary gabbro
	Cretaceous granite
	Jurassic granite
	Permian mafic/ultramafic intrusions
	early Mississippian Simpson Range Plutonic Suite
	Late Devonian - early Mississippian Grass Lakes plutonic suite
	Late Devonian mafic/ultramafic intrusions

	Eocene basalt
	Cretaceous tuff

North American Miogeocline

	Triassic phyllite, sandstone and limestone
	Carboniferous - Permian Mt. Christie Formation - chert
	Devonian - Mississippian Earn Group - phyllite, sandstone, chert
	Silurian - Devonian McEvoy platform - carbonate, sandstone

Layered Rocks

Yukon-Tanana Terrane

	Middle Permian - Triassic ? conglomerate, siltstone, basalt
	Lower Permian Campbell Range basalt
Finlayson succession	
	Carboniferous ? intermediate and felsic volcanic rocks
	Carboniferous ? dark grey phyllite, chert, clastic rocks, marble
Pennsylvanian overlap succession	
	Pennsylvanian dark grey phyllite, chert, clastic rocks
Tuchitua succession	
	Pennsylvanian quartzite
	upper Mississippian - mid-Pennsylvanian limestone
	lower Mississippian intermediate volcanic rocks
Wolverine succession	
	lower Mississippian felsic meta-volcanic rocks, dark phyllite, exhalite
Grass Lakes succession	
	Upper Devonian - lower Mississippian ? carbonaceous phyllite, mafic meta-igneous rocks
	Upper Devonian Kudz Ze Kayah unit: felsic meta-volcanic rocks
	Upper Devonian Fire Lake unit: mafic meta-volcanic rocks
	Upper Devonian and older ? psammitic schist, marble

INCONNU THRUST SHEET

MONEY CREEK THRUST SHEET

JULES CREEK THRUST SHEET

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FIGURE 4b
ARCHER CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY SPICE PROPERTY

AAW-2002-2003/ATAC/SPICE/F4b
AFTER MURPHY et al. 2002

DATE: NOVEMBER, 2002

black on fresh surfaces. Pillowed and fragmental varieties of this unit host the nearby Ice Deposit, consisting of Cyprus style volcanogenic massive sulphide mineralization.

The Finlayson Succession is composed mainly of dark grey siliceous carbonaceous phyllite, multi-coloured chert, grey-white chert pebble conglomerate and shale fragment bearing quartzofeldspathic grit and conglomerate. This assemblage also includes significant accumulations of felsic metavolcanic rocks and lesser intermediate to mafic metavolcanic rocks.

NAM stratigraphy in the vicinity of the Spice property is mapped as Devono-Mississippian Earn Group which comprises mainly dark grey slate but also includes dark chert, chert-pebble conglomerate, bedded barite, rare sandstone and occasional grit-pebble conglomerate.

PROPERTY GEOLOGY

Property geology is shown on Figure 5. Outcrop and subcrop exposure on the Spice property is rare, not exceeding 1 to 2%. Most of the geological mapping is based on these scattered exposures but in the vicinity of the till anomaly these data were supplemented by angular rock fragments screened from hand pits and auger holes.

Four rock types were identified on the property during the 2002 program. The first two units are believed to belong to Middle Permian clastic rocks while the other two units are younger volcanic or subvolcanic rocks that are presumably Eocene age.

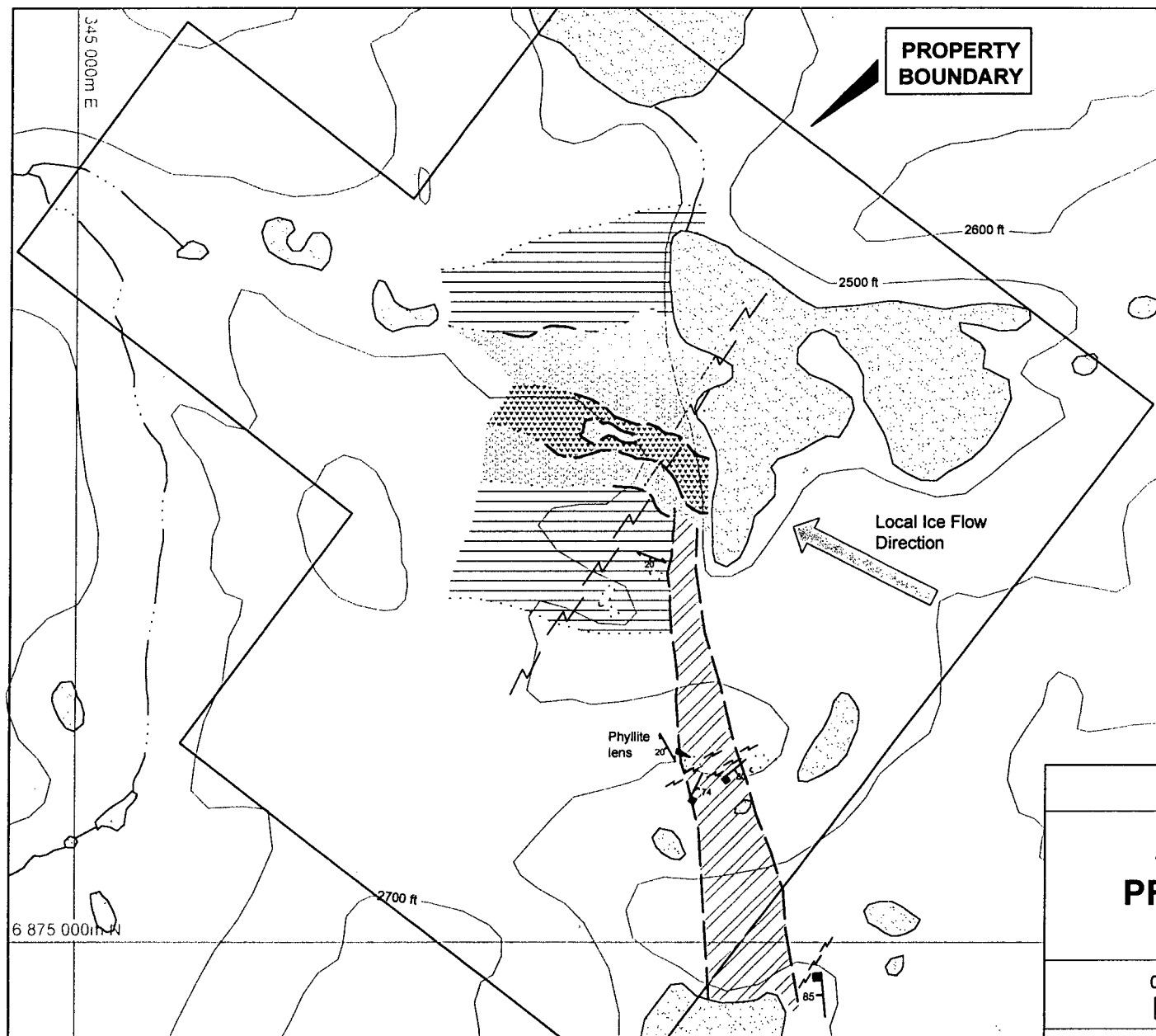
Phyllite is grey on both weathered and fresh surfaces and greasy to the touch. All fragments observed are highly fissile and exhibit well developed foliation. Foliation was observed at only two locales and shows a northwest trend dipping gently to the southwest.

Conglomerate subcrop, blocks and fragments are dominantly observed in the central part of the claim block. This unit consists of pebble to cobble sized clasts supported by silica rich cement. Clasts are comprised of chert, quartzite and silicified phyllite. Poorly sorted gradation of clasts defines bedding. This unit is weakly to moderately fractured in places and exhibits minor surface oxidation.

Listwanite is orange-rust weathering and tan to cream colour on fresh surfaces. Mariposite (chrome mica) is a common accessory mineral and occurs ubiquitously throughout the unit. One of the most prominent features of the listwanite is strong cross-fracturing developed oblique to the northerly trend of the unit. These cross-fractures are often healed with white quartz veining which locally coalesce to form breccias containing hairline fractures mineralized with minor fine grained pyrite and/or graphite.

Rhyolite exhibits a limited areal extent within the central part of the property. It is white to dark grey on both weathered and fresh surfaces and is composed exclusively of fine silica and feldspar. Some pieces exhibit clear silica flow banding. Nearly all rhyolite specimens are highly fractured.

Several pieces of quartz-eye rhyolite porphyry were recognized within the rhyolite unit. These



-  Rhyolite with trace quartz eye porphyry
-  Listwanite
-  Conglomerate
-  Phyllite
-  Fault, inferred
-  Geologic contact, inferred
-  Foliation orientation
-  Bedding orientation
-  Fracture orientation

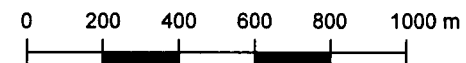
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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

SPICE PROPERTY



..A/AW-2002&2003/ATAC/SPICE-F5

DATE: NOVEMBER, 2002

rocks are yellowish tan weathering and creamy white on fresh surfaces. The matrix appears to be composed of fine feldspar and silica with possible sericite developed along hairline fractures. The colouration may be due to alteration of feldspar to clay. Quartz eyes are clear and glassy, ranging from <1 mm to about 3.5 mm diameter.

A prominent fault trends north-northeasterly across the centre of the property. It cuts at least three of the units described above and is thus a relatively late structure. It appears to dip at a low angle and is marked by a recessive linear 5 to 10 m wide. Trenching in the vicinity of this structure exposed highly fractured and crushed rhyolite.

2002 PROGRAM

The 2002 program conducted by ATAC was designed to trace the gold up ice to a bedrock source by auger drilling deep into the basal till and where possible into the underlying bedrock. Sampling and procedures are described below.

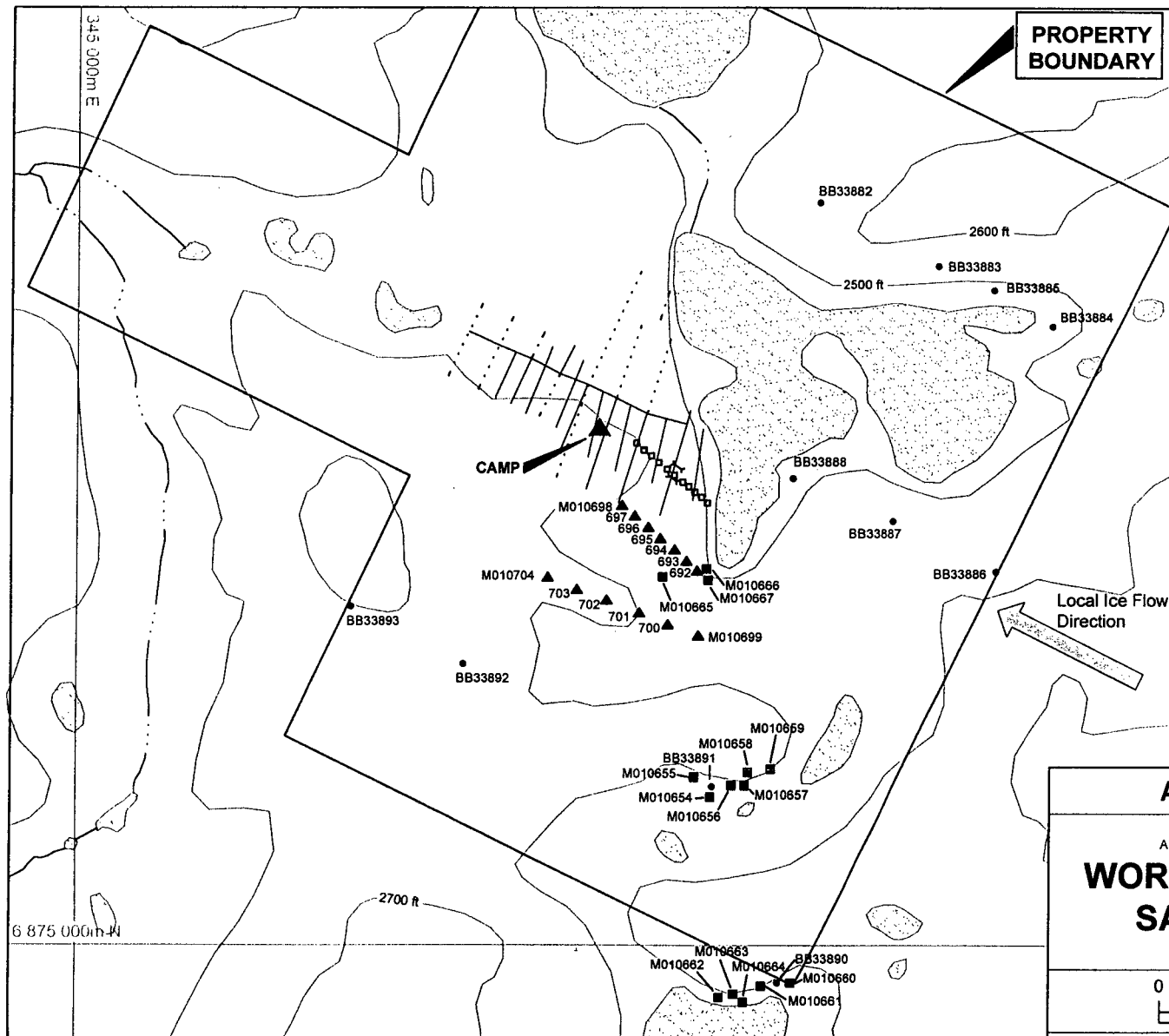
The drill was powered by a small gasoline engine and had an 8 cm diameter auger bit. A total of 131 auger samples were collected from 107 sample sites within the east-central part of the previously defined geochemical anomaly and southeast of it in the up ice direction. Eleven hand pits were also dug in a line up ice from the strongest gold anomaly in order to better understand the till profile and define the nature of the till-bedrock contact. Several till pits were dug south of the main area of interest to establish the southerly limit of the geochemical anomaly and a few widely spaced soil samples were taken from shallow pits dug with mattocks along claim lines outside of the main area of interest to establish background values. A number of rock samples were also collected while prospecting and mapping were underway. All sample locations are shown on Figures 6 and 7.

Orange and green flagged auger sample lines were run perpendicular to the existing baseline (marked with blue flagging) at 50 m intervals. Sample sites were located at 25 m intervals along the lines and marked with a 0.5 m lath bearing an aluminum tag inscribed with grid coordinates and sample number. Auger samples typically consisted of rock fragments and soil with the latter generally being the dominant component. Each site produced at least one sample for geochemical analysis and another which was screened to yield rock fragments. Two samples were sent for analysis from any site where a distinct colour and/or rock fragment change was observed. The screening and rock fragment identification was mostly done in Whitehorse.

All samples were sent to ALS Chemex Labs in North Vancouver where they were dried and crushed to -2 mm, then a 250 grams split was pulverized to better than 85% minus 75 microns. The pulverized material was then analyzed for 34 elements by aqua-regia acid digestion and induced coupled plasma technique. Each sample was also analyzed for gold by fire assay and atomic absorption using a 50 g nominal sample weight. Certificates of Analysis are contained in Appendix II.



PROPERTY
BOUNDARY



..... 2001 soil sample grid

———— 2001 soil sample grid and
2002 auger sample grid

▲ M010698 Till pit sample

● BB33888 Soil sample

■ M010657 Rock sample

□ Hand pit

└ Hand trench

Local Ice Flow
Direction

ATAC RESOURCES LTD.

FIGURE 6

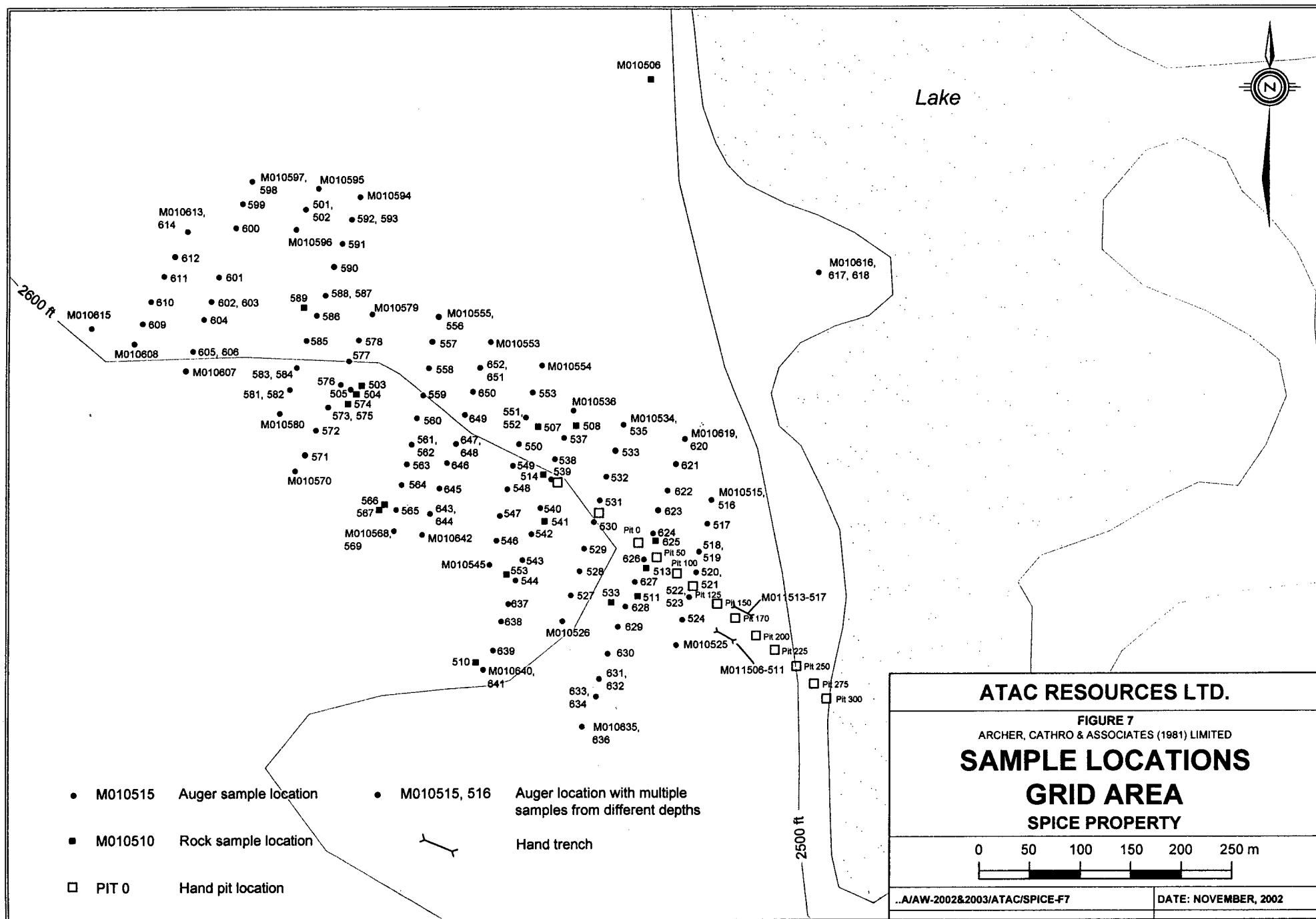
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**WORKINGS & PERIPHERAL
SAMPLE LOCATIONS
SPICE PROPERTY**

0 200 400 600 800 1000 m

..A/AW-2002&2003/ATAC/SPICE-F6

DATE: NOVEMBER, 2002



RESULTS

Gold, arsenic and mercury values (shown on Figures 8 to 10) are well correlated in general. The strongly anomalous gold values form distinct clusters surrounded by weaker values. The anomalies trend northwest parallel to the local ice flow direction which is coincidentally parallel to the interpreted trend of the lithological contacts, thus complicating geochemical interpretation.

The highest gold value obtained from the auger sampling (4.46 g/t) came from a sample site that twinned the GSC till sample locale that returned 13.9 g/t gold. The dominant rock fragment type from this site was highly fractured grey-white rhyolite with graphitic hairline fractures. The next highest gold value was 490 ppb. Contourability is good and where two samples were taken at a single auger site, they generally yielded very similar values. Rock fragment data were documented for each site and are contained in Appendix III.

Fifteen hand specimens comprised dominantly of rhyolite and lesser altered conglomerate and siliceous phyllite were collected from within the grid area. Five of the samples yielded gold values greater than 100 ppb to a maximum value of 730 ppb. Specimen descriptions also appear in Appendix III.

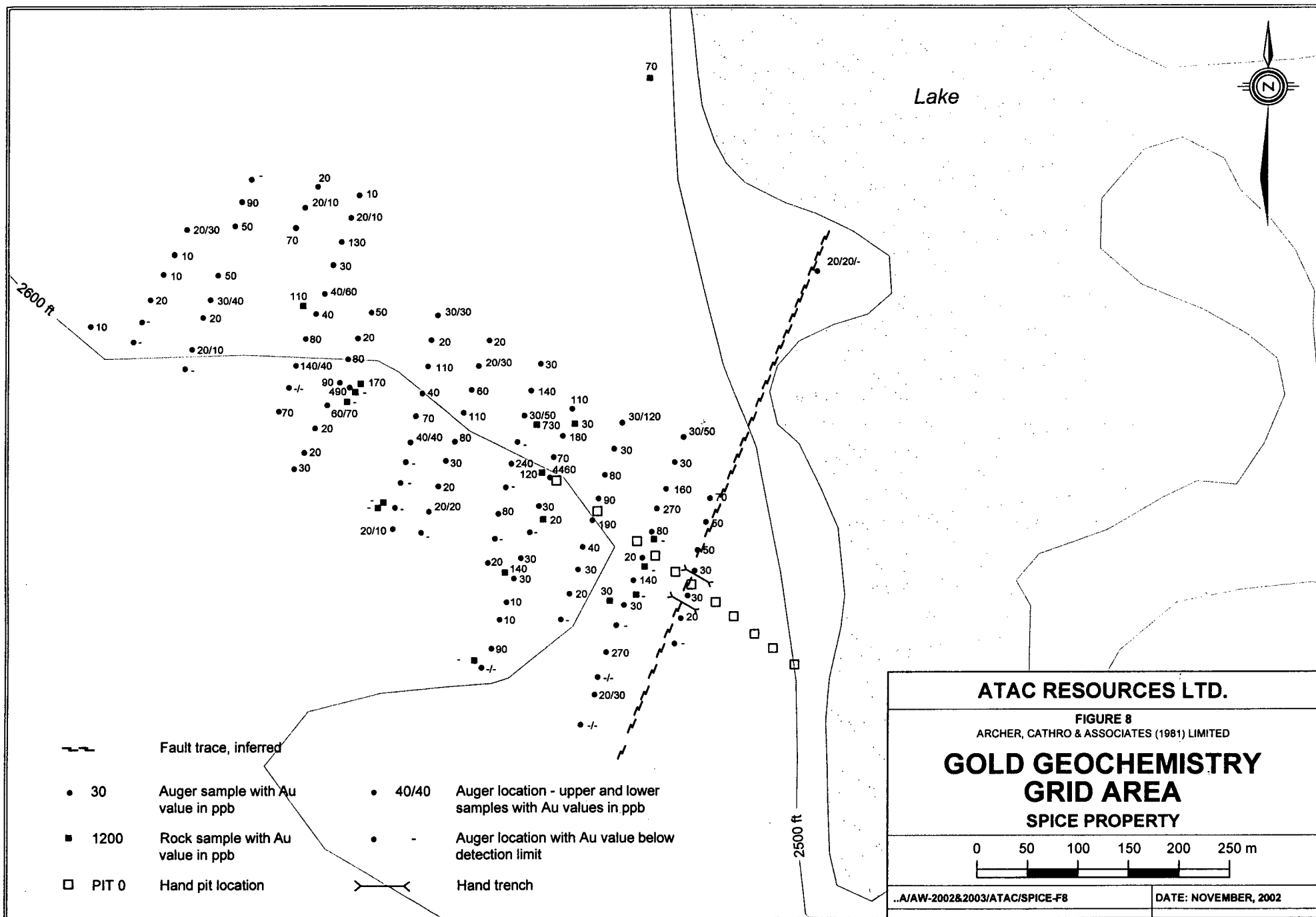
The hand pits, located in the southeastern part of the grid, were excavated to depths of up to 2 m and revealed an abrupt termination of the rhyolite unit along the north-northeast trending fault. Rocks in the immediate vicinity of the fault were found to be enriched with graphite. This observation was further supported by two hand trenches excavated across the fault zone. Hand pit descriptions and trench maps are located in Appendix IV. The highest gold values obtained from hand pits and trenches were derived from rhyolite material containing variable amounts of graphite. The best values from hand pits and hand trenches were 1.21 g/t and 0.98 g/t gold, respectively. Arsenic and mercury values were elevated for some of these samples but not all.

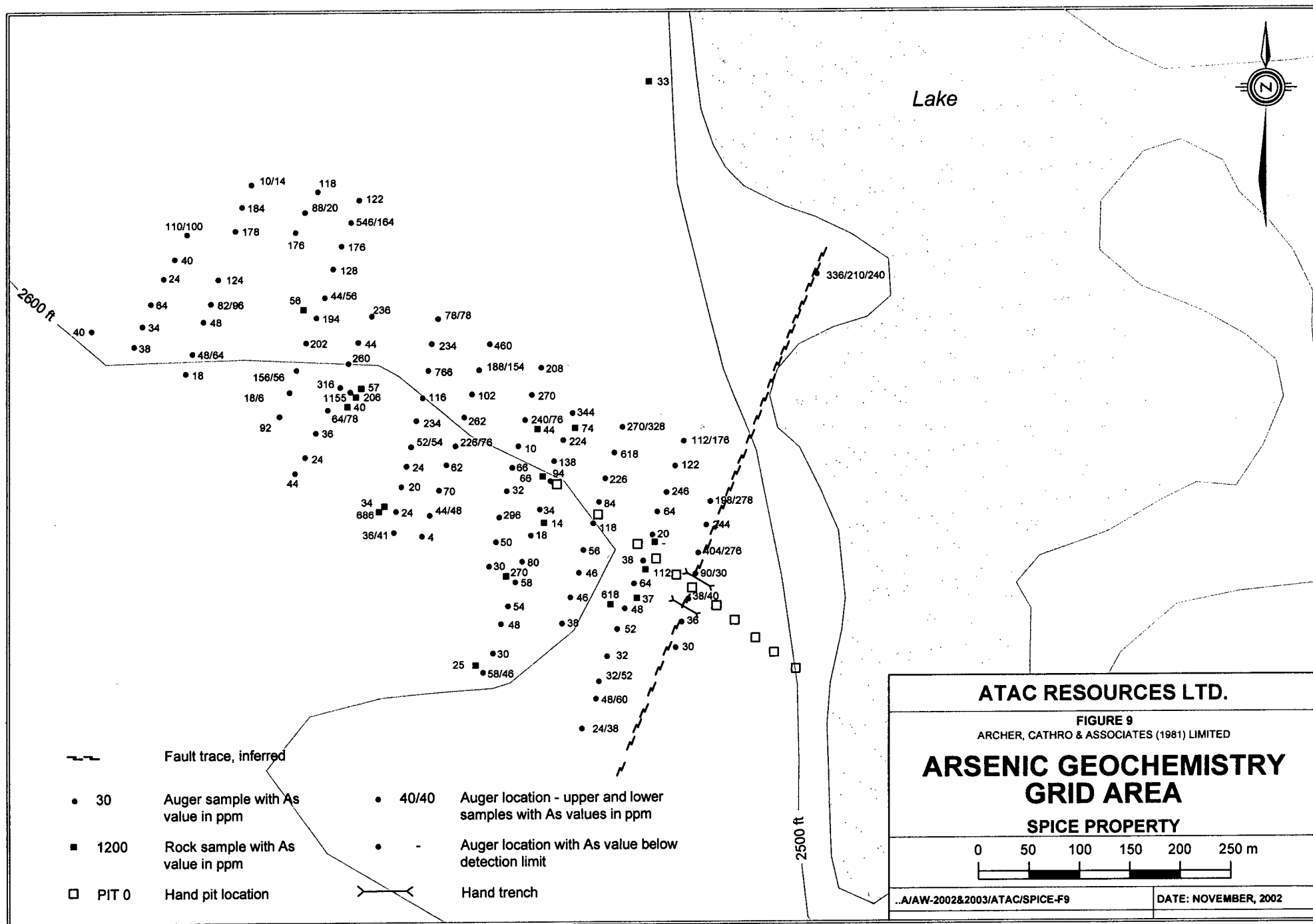
All hand specimens and soil samples collected outside the grid area returned low gold values.

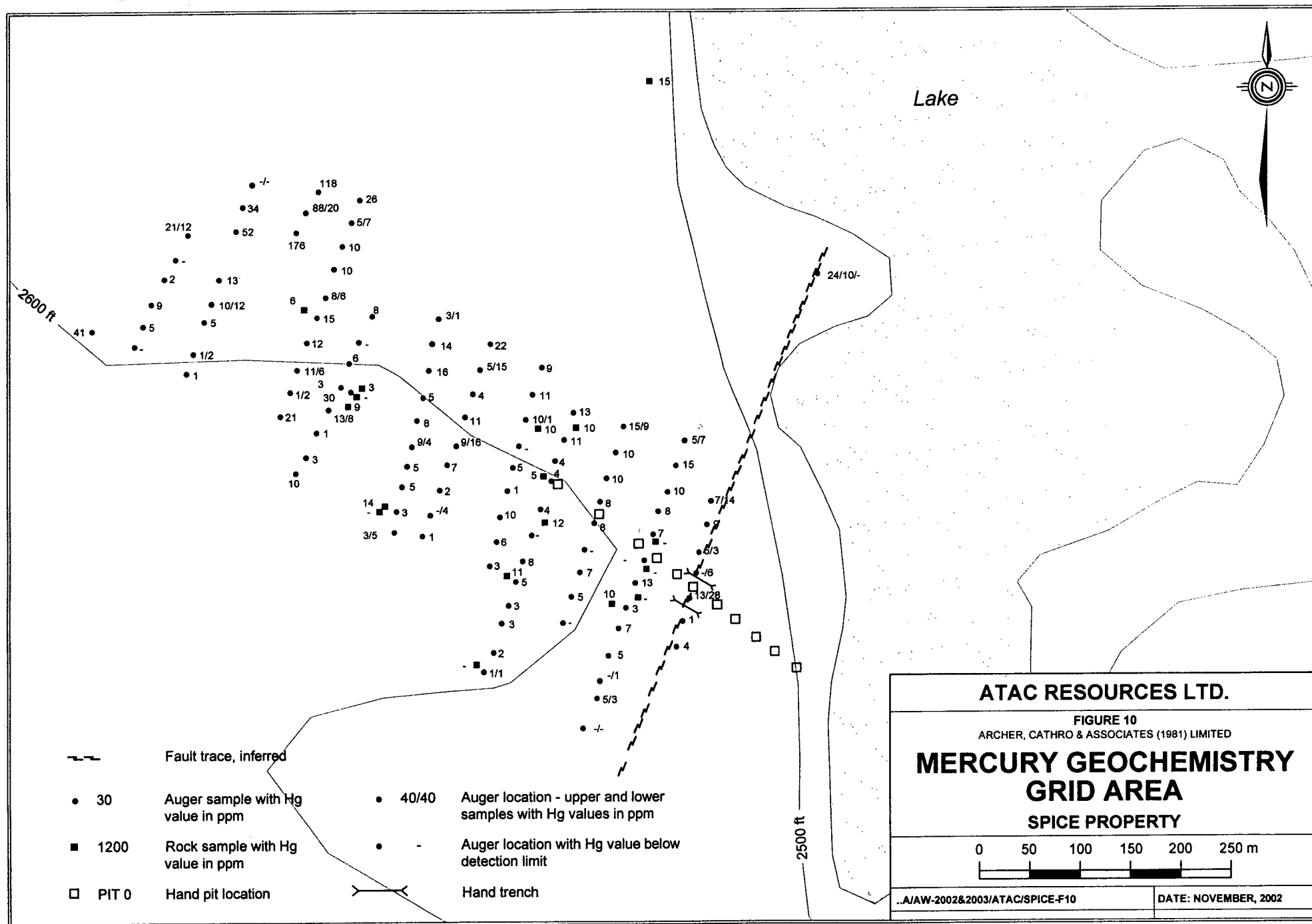
DISCUSSION AND CONCLUSIONS

The Spice property covers a newly identified epithermal gold target apparently associated with a volcanic or subvolcanic rhyolite. The claims lie approximately 60 km east of the Grew Creek epithermal gold deposit which reportedly contains a drill indicated resource of 773,012 tonnes grading 8.9 g/t gold (Christie, 1992).

At Grew Creek the gold is hosted by Eocene bimodal volcanic and sedimentary rocks in a local graben within the Tintina Fault Zone. The gold occurs in stockwork quartz veins and breccias cutting a hydrothermally altered rhyolite. Associated mineralization consists of pyrite, marcasite, arsenopyrite, chalcopyrite, argentite, electrum, silver selenides, galena and sphalerite. There is a good correlation between gold and silver (average ratio of 1:4) and the mineralization is strongly anomalous in arsenic and mercury although mercury is only weakly correlated with gold and silver. The highest mercury values are believed to occur above the gold-silver zone (Christie, 1992).







The surface geochemical signature in the vicinity of the Grew Creek deposit is suppressed due to extensive till cover. However, till sampling detected elevated gold values down ice from the deposit. Typical pathfinder elements such as silver, arsenic, mercury and antimony were not as useful in tracing back to source because of the poor correlation of these elements at shallow depths within the deposit (Plouffe and Jackson, 1992).

The Spice prospect boasts a much stronger surficial geochemical signature than that at Grew Creek but this is at least in part due to thinner till cover. The correlation of gold to the typical pathfinder elements is generally good but is somewhat erratic at higher thresholds.

The source of the gold at Spice appears to be highly fractured rhyolite containing graphite and in some areas very fine pyrite. These rocks are believed to have been eroded from a zone developed near a north-northeast trending fault at the southeast (up ice) end of the till anomaly. Gold values from bedrock exposed in trenches dug across the fault are consistent with the majority of the values within the till dispersion train. None of the assays are ore grade.

Further exploration is required to confirm that the rhyolite is the source of the gold and to search for areas of higher grade mineralization. Because conventional geochemical exploration and prospecting are hampered by till cover and lack of exposure, methods such as enzyme leach geochemical sampling should be considered. Ground geophysical surveys should also be conducted to outline possible mineralizing structures in the vicinity of the geochemical anomalies.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED


W.A. Wengzynowski, P. Eng.

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APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.A.Sc in Geological Engineering, Option 1, mineral and fuel exploration.
2. I became a Professional Engineer on December 12, 1998 registered in the Province of British Columbia.
3. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in and supervised the fieldwork reported herein.


W.A. Wengzynowski, P. Eng.

APPENDIX II
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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C/O ARCHER, CATHRO AND ASSOCIATES (1981) LTD. Total # of
1016 - 510 W. HASTINGS ST.
VANCOUVER BC V6B 1L8

Page # : 2 - A
s : 2 (A - C)
Date : 12-Sep-2002
Account: RCM

Project : Spice

CERTIFICATE OF ANALYSIS VA02003157

Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA26 Au ppm 0.01	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
Sample Description															
M011503	2.22	0.06	0.2	0.15	57	<10	280	<0.5	<2	0.04	<0.5	1	92	6	0.68
M011504	2.06	0.06	0.3	0.21	206	<10	290	<0.5	2	0.13	<0.5	<1	85	12	2.63
M011505	2.86	0.43	0.7	0.29	460	<10	400	<0.5	<2	0.11	<0.5	5	87	23	1.47
M011506	4.14	0.07	0.2	0.06	33	<10	410	<0.5	<2	0.01	<0.5	1	96	5	0.25
M011507	3.62	0.05	<0.2	0.05	44	<10	560	<0.5	<2	0.01	<0.5	1	110	4	0.28
M011508	4.56	0.10	0.6	0.05	74	<10	660	<0.5	<2	0.01	<0.5	<1	106	4	0.32
M011509	4.26	0.14	0.7	0.04	48	<10	700	<0.5	<2	0.01	<0.5	1	98	3	0.29
M011510	3.92	0.08	0.3	0.04	25	<10	270	<0.5	<2	0.01	<0.5	1	120	3	0.29
M011511	5.30	0.15	0.8	0.04	37	<10	320	<0.5	<2	0.01	<0.5	1	119	5	0.30
M011512	3.40	0.05	0.2	0.15	47	<10	240	<0.5	<2	0.02	<0.5	1	88	3	0.32
M011513	3.24	0.46	1.2	0.07	112	<10	230	<0.5	2	0.01	<0.5	<1	121	8	0.45
M011514	3.66	0.98	2.4	0.08	87	<10	310	<0.5	<2	<0.01	<0.5	1	113	14	0.38
M011515	3.36	0.36	1.1	0.05	57	<10	250	<0.5	<2	<0.01	<0.5	<1	116	6	0.32
M011516	3.04	0.34	0.8	0.06	33	<10	250	<0.5	<2	<0.01	<0.5	<1	113	4	0.30
M011517	3.54	0.02	<0.2	0.21	36	<10	350	<0.5	<2	0.01	<0.5	<1	39	3	0.80



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Account: RCM

Project : Spice

CERTIFICATE OF ANALYSIS VA02003157

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
M011503		<10	6	0.17	<10	0.05	13	1	0.01	6	110	9	0.21	13	<1	23
M011504		<10	5	0.42	10	0.04	13	2	0.03	4	360	10	0.86	27	1	72
M011505		<10	12	0.13	20	0.08	222	2	0.01	25	420	23	0.20	64	2	35
M011506		<10	15	0.03	10	<0.01	12	1	0.01	3	90	22	0.05	64	<1	20
M011507		<10	18	0.03	30	<0.01	12	2	<0.01	3	120	31	0.07	64	<1	26
M011508		<10	26	0.02	10	<0.01	10	3	<0.01	3	160	39	0.08	254	<1	34
M011509		<10	25	0.02	10	<0.01	10	2	<0.01	2	90	30	0.08	85	<1	28
M011510		<10	12	0.02	20	<0.01	10	2	<0.01	3	80	18	0.06	49	<1	16
M011511		<10	13	0.03	10	<0.01	10	3	<0.01	3	70	28	0.07	48	<1	16
M011512		<10	12	0.14	<10	0.01	10	1	0.01	2	80	7	0.08	19	<1	16
M011513		<10	15	0.05	20	<0.01	10	3	0.01	3	60	23	0.12	79	<1	12
M011514		<10	35	0.05	20	<0.01	9	3	0.01	3	120	28	0.10	87	<1	20
M011515		<10	15	0.03	20	<0.01	8	2	0.01	3	90	21	0.08	50	<1	17
M011516		<10	14	0.04	10	<0.01	8	2	0.01	3	60	19	0.05	37	<1	14
M011517		<10	10	0.25	10	0.01	5	1	0.01	1	90	31	0.32	19	<1	19



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CERTIFICATE OF ANALYSIS

VA02003157

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
M011503		<0.01	<10	<10	5	<10	5
M011504		<0.01	<10	<10	15	<10	7
M011505		<0.01	<10	<10	11	<10	31
M011506		<0.01	<10	<10	1	<10	4
M011507		<0.01	<10	<10	1	<10	3
M011508		<0.01	<10	<10	3	<10	4
M011509		<0.01	<10	<10	2	<10	2
M011510		<0.01	<10	<10	1	<10	4
M011511		<0.01	<10	<10	2	<10	2
M011512		<0.01	<10	<10	4	<10	<2
M011513		<0.01	<10	<10	3	<10	3
M011514		<0.01	<10	<10	3	<10	3
M011515		<0.01	<10	<10	2	<10	2
M011516		<0.01	<10	<10	2	<10	2
M011517		<0.01	<10	<10	2	<10	3



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British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218



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SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010501	94139402	0.30	0.08	0.2	0.50	88	10	320	< 0.5	< 2	0.18	< 0.5	8	60	45	1.90	< 10	10	0.16	< 10
M010502	94139402	0.28	0.01	0.2	0.54	20	< 10	240	< 0.5	< 2	0.12	< 0.5	7	66	35	1.88	< 10	< 1	0.24	10
M010503	94139402	0.50	0.17	0.4	0.12	90	< 10	210	< 0.5	< 2	0.01	< 0.5	< 1	73	10	0.30	< 10	3	0.06	20
M010504	94139402	0.32	< 0.01	0.2	0.20	150	< 10	290	< 0.5	< 2	0.02	< 0.5	1	84	24	1.09	< 10	< 1	0.10	< 10
M010505	94139402	0.36	0.49	6.4	1.23	1155	< 10	1230	1.0	< 2	1.30	2.0	35	31	184	8.17	< 10	30	0.25	20
M010506	94139402	0.86	< 0.01	< 0.2	0.08	14	< 10	70	< 0.5	< 2	0.01	< 0.5	< 1	89	6	0.37	< 10	< 1	0.06	< 10
M010507	94139402	1.66	0.73	0.6	0.02	254	20	70	< 0.5	< 2	< 0.01	< 0.5	< 1	123	3	0.30	< 10	10	0.03	< 10
M010508	94139402	1.10	0.03	1.2	0.14	314	< 10	190	< 0.5	< 2	< 0.01	< 0.5	< 1	66	6	0.90	< 10	10	0.18	< 10
M010509	94139402	1.24	< 0.01	< 0.2	2.44	18	10	70	< 0.5	< 2	0.87	< 0.5	32	29	58	5.30	< 10	< 1	0.03	< 10
M010510	94139402	0.60	< 0.01	0.2	0.08	16	10	220	< 0.5	< 2	0.11	< 0.5	1	97	8	0.59	< 10	< 1	0.04	< 10
M010511	94139402	0.86	< 0.01	< 0.2	2.48	8	10	60	< 0.5	< 2	1.72	< 0.5	22	92	59	3.12	< 10	< 1	0.03	< 10
M010512	94139402	1.10	< 0.01	< 0.2	2.32	10	10	10	< 0.5	< 2	1.22	< 0.5	24	104	56	3.89	< 10	< 1	0.01	< 10
M010513	94139402	1.18	< 0.01	< 0.2	0.14	8	20	250	< 0.5	< 2	0.01	< 0.5	1	80	19	0.95	< 10	< 1	0.09	< 10
M010514	94139402	1.50	0.12	0.6	0.05	40	20	230	< 0.5	< 2	< 0.01	< 0.5	< 1	136	4	0.26	< 10	5	0.01	10
M010515	94139402	0.28	0.07	0.2	0.29	198	20	330	< 0.5	< 2	0.01	< 0.5	< 1	76	8	1.15	< 10	7	0.15	< 10
M010516	94139402	0.42	0.07	0.8	0.31	278	< 10	370	< 0.5	6	< 0.01	< 0.5	5	74	16	3.18	< 10	14	0.26	< 10
M010517	94139402	0.32	0.05	0.4	0.53	244	10	380	< 0.5	< 2	0.07	< 0.5	2	71	36	2.54	< 10	9	0.16	< 10
M010518	94139402	0.30	0.05	0.8	0.29	404	< 10	390	< 0.5	< 2	< 0.01	< 0.5	4	54	35	3.38	< 10	5	0.29	10
M010519	94139402	0.30	0.03	0.6	0.26	276	10	310	< 0.5	< 2	< 0.01	< 0.5	4	57	19	2.64	< 10	3	0.34	< 10
M010520	94139402	0.16	0.03	1.2	0.75	90	< 10	300	< 0.5	< 2	0.15	< 0.5	4	58	16	2.93	< 10	< 1	0.09	< 10
M010521	94139402	0.26	0.02	0.4	0.10	30	30	180	< 0.5	< 2	0.03	< 0.5	< 1	120	2	0.49	< 10	6	0.05	10
M010522	94139402	0.32	0.03	0.2	0.08	38	10	410	< 0.5	< 2	0.01	< 0.5	< 1	108	4	0.36	< 10	13	0.03	10
M010523	94139402	0.54	0.08	< 0.2	0.05	40	20	240	< 0.5	< 2	< 0.01	< 0.5	< 1	111	3	0.34	< 10	28	0.02	10
M010524	94139402	0.30	0.02	< 0.2	0.63	36	< 10	270	< 0.5	< 2	0.10	< 0.5	6	84	15	1.59	< 10	1	0.13	< 10
M010525	94139402	0.22	< 0.01	< 0.2	0.29	30	< 10	350	< 0.5	< 2	0.06	< 0.5	1	83	4	0.86	< 10	4	0.17	20
M010526	94139402	0.40	< 0.01	< 0.2	0.73	38	< 10	300	0.5	< 2	0.26	< 0.5	9	55	21	2.41	< 10	< 1	0.09	10
M010527	94139402	0.40	0.02	2.0	0.37	46	< 10	290	< 0.5	< 2	0.10	< 0.5	1	60	4	0.81	< 10	5	0.10	10
M010528	94139402	0.36	0.03	0.2	0.37	46	< 10	270	< 0.5	< 2	0.04	< 0.5	4	78	26	1.24	< 10	7	0.06	< 10
M010529	94139402	0.34	0.04	0.2	1.25	56	< 10	310	< 0.5	< 2	0.67	< 0.5	14	81	42	1.94	< 10	< 1	0.07	10
M010530	94139402	0.40	0.19	0.8	0.66	118	< 10	280	< 0.5	< 2	0.19	< 0.5	7	94	22	1.95	< 10	8	0.07	< 10
M010531	94139402	0.42	0.09	0.6	0.43	84	< 10	250	< 0.5	< 2	0.14	< 0.5	6	88	18	1.39	< 10	8	0.10	< 10
M010532	94139402	0.34	0.08	0.4	0.23	226	< 10	300	< 0.5	< 2	0.05	< 0.5	< 1	75	10	1.55	< 10	10	0.18	< 10
M010533	94139402	0.32	0.03	0.2	0.31	618	< 10	330	< 0.5	< 2	0.07	< 0.5	1	56	18	2.80	< 10	10	0.33	10
M010534	94139402	0.32	0.02	0.4	0.35	270	< 10	410	< 0.5	< 2	0.03	< 0.5	4	55	32	3.27	< 10	15	0.25	< 10
M010535	94139402	0.30	0.02	0.6	0.32	328	< 10	340	< 0.5	< 2	0.05	< 0.5	2	46	17	2.95	< 10	9	0.45	10
M010536	94139402	0.28	0.11	0.4	0.46	344	< 10	490	< 0.5	< 2	0.13	< 0.5	4	75	29	2.55	< 10	13	0.15	10
M010537	94139402	0.40	0.18	1.2	0.74	224	< 10	620	< 0.5	< 2	0.28	< 0.5	9	69	45	2.46	< 10	11	0.11	10
M010538	94139402	0.30	0.07	0.2	1.61	138	< 10	300	< 0.5	< 2	0.63	0.5	25	50	41	3.04	< 10	4	0.07	< 10
M010539	94139402	0.38	4.46	2.4	0.35	94	< 10	280	< 0.5	< 2	0.09	< 0.5	3	63	8	0.77	< 10	4	0.06	10
M010540	94139402	0.42	0.03	0.8	0.77	34	< 10	360	< 0.5	< 2	0.33	< 0.5	9	34	24	1.92	< 10	4	0.07	< 10

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Account : RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010501	94139402	0.11	315	1	0.01	42	250	16	0.06	46	1	21	< 0.01	< 10	< 10	10	< 10	80
M010502	94139402	0.16	250	1	0.01	33	310	18	0.10	4	1	20	< 0.01	< 10	< 10	7	< 10	68
M010503	94139402	< 0.01	10	2	< 0.01	3	190	12	0.09	14	< 1	17	< 0.01	< 10	< 10	< 1	< 10	4
M010504	94139402	0.01	80	< 1	< 0.01	12	140	6	0.05	34	1	16	< 0.01	< 10	< 10	11	< 10	22
M010505	94139402	0.26	875	6	0.01	146	1850	110	0.32	414	7	136	< 0.01	< 10	< 10	43	< 10	116
M010506	94139402	< 0.01	55	< 1	< 0.01	1	30	< 2	< 0.01	< 2	< 1	2	< 0.01	< 10	< 10	1	< 10	10
M010507	94139402	< 0.01	5	< 1	< 0.01	1	100	12	0.05	28	< 1	5	< 0.01	< 10	< 10	< 1	< 10	< 2
M010508	94139402	< 0.01	5	2	< 0.01	3	40	16	0.58	22	< 1	3	< 0.01	< 10	< 10	2	< 10	8
M010509	94139402	1.57	990	< 1	0.04	19	480	< 2	< 0.01	< 2	5	27	0.37	< 10	< 10	157	< 10	86
M010510	94139402	0.03	235	21	< 0.01	12	90	4	0.06	6	< 1	23	< 0.01	< 10	< 10	35	< 10	12
M010511	94139402	1.61	740	< 1	0.03	44	480	4	< 0.01	< 2	7	37	0.34	< 10	10	111	< 10	60
M010512	94139402	1.87	765	< 1	0.04	50	750	2	0.12	< 2	4	7	0.22	< 10	< 10	95	< 10	50
M010513	94139402	0.03	130	< 1	< 0.01	12	220	< 2	0.01	< 2	< 1	3	< 0.01	< 10	< 10	4	< 10	16
M010514	94139402	< 0.01	15	2	< 0.01	1	70	16	0.04	18	< 1	10	< 0.01	< 10	< 10	< 1	< 10	< 2
M010515	94139402	0.01	10	< 1	0.01	3	190	16	0.13	76	< 1	22	< 0.01	< 10	< 10	7	< 10	14
M010516	94139402	0.02	35	< 1	0.02	16	420	30	0.49	220	1	31	< 0.01	< 10	< 10	15	< 10	68
M010517	94139402	0.10	145	1	0.01	14	630	20	0.18	52	1	21	< 0.01	< 10	< 10	20	< 10	38
M010518	94139402	0.03	40	1	0.02	9	710	16	0.60	40	1	51	< 0.01	< 10	< 10	18	< 10	42
M010519	94139402	0.02	35	< 1	0.03	13	410	16	0.68	34	1	40	< 0.01	< 10	< 10	15	< 10	24
M010520	94139402	0.22	135	< 1	0.01	16	800	20	0.10	28	1	26	0.01	< 10	< 10	33	< 10	54
M010521	94139402	< 0.01	30	3	0.01	1	100	18	0.06	32	< 1	9	< 0.01	< 10	< 10	5	< 10	4
M010522	94139402	< 0.01	10	< 1	< 0.01	1	120	30	0.07	80	< 1	25	< 0.01	< 10	< 10	3	< 10	< 2
M010523	94139402	< 0.01	10	2	< 0.01	< 1	90	28	0.07	72	< 1	15	< 0.01	< 10	< 10	3	< 10	< 2
M010524	94139402	0.18	160	1	0.01	17	250	14	0.14	16	1	22	0.01	< 10	< 10	18	< 10	40
M010525	94139402	0.07	85	< 1	< 0.01	4	130	16	0.24	2	< 1	13	0.01	< 10	< 10	10	< 10	10
M010526	94139402	0.23	595	1	0.01	30	500	16	0.01	< 2	3	20	0.01	< 10	< 10	28	< 10	70
M010527	94139402	0.12	55	< 1	< 0.01	5	140	16	0.06	24	< 1	14	0.03	< 10	< 10	13	< 10	6
M010528	94139402	0.05	240	< 1	< 0.01	17	200	14	0.03	20	< 1	13	< 0.01	< 10	< 10	10	< 10	32
M010529	94139402	0.45	585	< 1	0.01	36	260	16	0.04	24	5	21	0.09	< 10	< 10	54	< 10	48
M010530	94139402	0.25	235	1	0.01	20	350	10	0.17	30	1	20	0.04	< 10	< 10	27	< 10	30
M010531	94139402	0.12	270	< 1	< 0.01	18	350	24	0.09	38	1	19	0.01	< 10	< 10	17	< 10	34
M010532	94139402	0.03	35	< 1	0.01	9	140	12	0.37	54	< 1	23	< 0.01	< 10	< 10	14	< 10	14
M010533	94139402	0.04	25	< 1	0.03	6	750	22	0.71	120	1	52	< 0.01	< 10	< 10	12	< 10	20
M010534	94139402	0.05	105	< 1	0.02	19	780	24	0.43	118	3	43	< 0.01	< 10	< 10	16	< 10	50
M010535	94139402	0.02	40	< 1	0.01	6	710	20	0.71	64	1	47	< 0.01	< 10	< 10	10	< 10	28
M010536	94139402	0.11	180	1	< 0.01	25	630	20	0.10	70	1	35	< 0.01	< 10	< 10	19	< 10	42
M010537	94139402	0.26	395	1	0.01	48	610	30	0.11	60	3	34	0.01	< 10	< 10	28	< 10	80
M010538	94139402	0.87	805	1	0.01	62	500	12	0.03	32	5	25	0.12	< 10	< 10	67	< 10	106
M010539	94139402	0.09	175	< 1	0.01	9	140	16	0.04	20	1	15	0.01	< 10	< 10	12	< 10	22
M010540	94139402	0.30	815	< 1	0.01	33	830	16	0.02	10	2	23	0.02	< 10	< 10	32	< 10	74

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SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010541	94139402	1.62	0.02	< 0.2	0.06	14	< 10	120	< 0.5	< 2	0.08	< 0.5	< 1	184	13	0.33	< 10	12	0.03	10
M010542	94139402	0.26	< 0.01	0.2	0.63	18	< 10	240	< 0.5	< 2	0.61	< 0.5	6	51	22	1.47	< 10	< 1	0.07	< 10
M010543	94139402	0.26	0.03	0.8	0.58	80	< 10	430	< 0.5	< 2	0.09	< 0.5	6	129	40	1.34	< 10	8	0.17	< 10
M010544	94139402	0.22	0.03	8.6	0.26	58	< 10	250	< 0.5	< 2	0.01	< 0.5	< 1	103	22	1.55	< 10	5	0.15	< 10
M010545	94139402	0.40	0.02	0.2	0.47	30	< 10	260	< 0.5	< 2	0.04	< 0.5	6	151	17	1.20	< 10	3	0.13	< 10
M010546	94139402	0.36	< 0.01	< 0.2	0.49	50	< 10	400	< 0.5	< 2	0.02	< 0.5	< 1	56	14	1.21	< 10	6	0.24	10
M010547	94139402	0.42	0.08	1.0	0.38	296	< 10	420	< 0.5	< 2	0.03	< 0.5	2	185	22	1.32	< 10	10	0.17	10
M010548	94139402	0.26	0.01	0.2	1.43	32	< 10	300	< 0.5	< 2	0.73	< 0.5	13	63	18	2.70	< 10	1	0.09	< 10
M010549	94139402	0.32	0.24	0.4	0.99	66	< 10	360	0.5	< 2	0.40	< 0.5	11	119	49	2.10	< 10	5	0.10	< 10
M010550	94139402	0.26	< 0.01	< 0.2	1.76	10	< 10	370	< 0.5	< 2	0.86	< 0.5	18	79	36	2.82	< 10	< 1	0.09	< 10
M010551	94139402	0.22	0.05	0.8	0.51	240	< 10	380	< 0.5	2	0.04	< 0.5	5	177	46	2.42	< 10	10	0.25	< 10
M010552	94139402	0.12	0.03	< 0.2	0.23	76	< 10	210	< 0.5	< 2	0.05	< 0.5	1	177	14	0.89	< 10	7	0.16	< 10
M010553	94139402	0.36	0.14	0.4	0.55	270	< 10	420	< 0.5	< 2	0.03	< 0.5	7	104	45	2.50	< 10	11	0.19	< 10
M010554	94139402	0.32	0.03	0.4	0.87	208	< 10	560	0.5	< 2	0.03	< 0.5	7	88	51	2.82	< 10	9	0.17	10
M010555	94139402	0.48	0.03	0.6	0.96	78	< 10	630	0.5	< 2	0.22	< 0.5	13	128	35	2.12	< 10	3	0.14	10
M010556	94139402	0.30	0.03	0.6	1.12	78	< 10	700	1.5	< 2	0.17	< 0.5	25	92	49	2.34	< 10	1	0.13	10
M010557	94139402	0.34	0.02	0.2	0.30	234	< 10	310	< 0.5	< 2	0.02	< 0.5	1	151	13	1.33	< 10	14	0.19	< 10
M010558	94139402	0.28	0.11	1.0	0.45	786	< 10	410	< 0.5	< 2	0.05	< 0.5	1	112	25	2.83	< 10	16	0.30	10
M010559	94139402	0.30	0.04	0.2	0.52	116	< 10	510	< 0.5	< 2	0.23	< 0.5	6	173	33	1.83	< 10	5	0.12	10
M010560	94139402	0.42	0.07	0.6	0.51	234	< 10	380	< 0.5	< 2	0.10	< 0.5	8	113	47	1.88	< 10	8	0.14	10
M010561	94139402	0.36	0.04	0.2	0.45	52	< 10	400	< 0.5	< 2	0.04	< 0.5	6	134	14	0.88	< 10	9	0.15	10
M010562	94139402	0.34	0.04	0.8	0.30	54	< 10	590	< 0.5	< 2	0.03	< 0.5	1	115	12	0.71	< 10	9	0.13	10
M010563	94139402	0.34	< 0.01	0.2	0.24	24	< 10	220	< 0.5	< 2	0.03	< 0.5	1	174	10	0.62	< 10	5	0.12	< 10
M010564	94139402	0.60	< 0.01	< 0.2	0.48	20	< 10	370	< 0.5	< 2	0.03	< 0.5	3	121	22	1.07	< 10	5	0.17	< 10
M010565	94139402	0.48	< 0.01	0.4	0.25	24	< 10	220	< 0.5	< 2	< 0.01	< 0.5	< 1	146	8	0.91	< 10	3	0.12	< 10
M010566	94139402	0.06	< 0.01	< 0.2	0.16	34	< 10	270	< 0.5	< 2	0.03	< 0.5	< 1	77	8	1.15	< 10	14	0.13	< 10
M010567	94139402	0.04	< 0.01	< 0.2	0.22	686	< 10	500	< 0.5	< 2	0.25	0.5	28	231	6	2.52	< 10	< 1	0.05	< 10
M010568	94139402	0.34	0.02	0.2	0.27	36	< 10	320	< 0.5	< 2	< 0.01	< 0.5	1	103	16	1.86	< 10	3	0.21	< 10
M010569	94139402	0.56	0.01	0.2	0.23	40	< 10	250	< 0.5	< 2	< 0.01	< 0.5	1	152	16	1.59	< 10	5	0.16	< 10
M010570	94139402	0.38	0.03	0.2	0.29	44	< 10	330	< 0.5	< 2	0.01	< 0.5	2	121	24	1.52	< 10	10	0.09	< 10
M010571	94139402	0.30	0.02	0.2	0.23	24	< 10	210	< 0.5	< 2	0.04	< 0.5	1	189	19	1.30	< 10	3	0.11	< 10
M010572	94139402	0.24	0.02	0.2	0.95	36	< 10	740	0.5	< 2	0.53	< 0.5	10	83	37	2.23	< 10	1	0.10	10
M010573	94139402	0.38	0.06	0.4	0.18	64	< 10	280	< 0.5	< 2	0.02	< 0.5	< 1	144	9	0.62	< 10	13	0.09	10
M010574	94139402	0.66	< 0.01	0.2	0.29	40	< 10	390	< 0.5	< 2	0.01	< 0.5	< 1	85	5	0.88	< 10	9	0.26	10
M010575	94139402	0.42	0.07	0.4	0.26	78	< 10	190	< 0.5	< 2	0.03	< 0.5	1	180	11	0.82	< 10	8	0.11	10
M010576	94139402	0.48	0.09	0.8	1.30	316	< 10	680	1.5	< 2	0.32	0.5	21	83	55	3.29	< 10	3	0.21	10
M010577	94139402	0.32	0.08	0.8	1.24	260	< 10	540	1.0	< 2	0.41	< 0.5	23	95	77	3.11	< 10	6	0.17	< 10
M010578	94139402	0.38	0.02	< 0.2	0.75	44	< 10	660	< 0.5	< 2	3.17	0.5	10	68	34	2.20	< 10	< 1	0.14	10
M010579	94139402	0.26	0.05	0.6	0.39	236	< 10	370	< 0.5	< 2	0.17	< 0.5	6	146	30	2.06	< 10	8	0.17	< 10
M010580	94139402	0.54	0.07	1.0	0.46	92	< 10	430	< 0.5	< 2	0.28	< 0.5	2	147	37	1.85	< 10	21	0.12	< 10

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218



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VANCOUVER, BC
V6B 1L8

Project : SPICE
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Page No. : 2-B
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Certificate Date: 15-JUL-2002
Invoice No. : 10219465
P.O. Number :
Account : RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010541	94139402	0.01	25	3 < 0.01		10	20	16	0.04	16	< 1	11 < 0.01	< 10	< 10		2 < 10		8
M010542	94139402	0.23	610	< 1 0.01		21	1070	12	0.03	< 2	1	32 0.01	< 10	< 10		22 < 10		50
M010543	94139402	0.07	240	< 1 0.01		24	270	20	0.10	44	1	22 < 0.01	< 10	< 10		13 < 10		34
M010544	94139402	0.02	45	< 1 0.01		8	250	12	0.29	16	< 1	20 < 0.01	< 10	< 10		11 < 10		14
M010545	94139402	0.07	215	1 0.01		24	190	8	0.05	4	< 1	13 < 0.01	< 10	< 10		15 < 10		26
M010546	94139402	0.03	40	< 1 0.01		5	270	18	0.20	16	1	19 < 0.01	< 10	< 10		10 < 10		12
M010547	94139402	0.04	65	< 1 0.01		14	230	16	0.26	36	1	26 < 0.01	< 10	< 10		13 < 10		14
M010548	94139402	0.66	765	< 1 0.01		25	440	10	0.01	2	3	15 0.15	< 10	< 10		70 < 10		68
M010549	94139402	0.30	475	< 1 0.02		34	520	18	0.08	32	4	27 0.04	< 10	< 10		33 < 10		56
M010550	94139402	0.85	860	< 1 0.03		32	340	10	0.01	< 2	5	22 0.18	< 10	< 10		90 < 10		58
M010551	94139402	0.06	75	< 1 0.01		23	480	14	0.28	44	2	35 < 0.01	< 10	< 10		20 < 10		36
M010552	94139402	0.02	35	< 1 0.01		8	100	10	0.14	20	< 1	12 < 0.01	< 10	< 10		7 < 10		8
M010553	94139402	0.08	180	3 0.01		31	550	18	0.19	58	3	33 < 0.01	< 10	< 10		21 < 10		64
M010554	94139402	0.15	305	< 1 0.01		33	680	16	0.08	50	4	27 < 0.01	< 10	< 10		27 < 10		102
M010555	94139402	0.26	430	< 1 0.01		39	940	12	0.05	14	3	29 0.01	< 10	< 10		28 < 10		94
M010556	94139402	0.31	795	< 1 0.01		53	790	18	0.05	18	5	32 0.01	< 10	< 10		32 < 10		134
M010557	94139402	0.03	35	< 1 0.01		9	180	10	0.26	38	1	24 < 0.01	< 10	< 10		11 < 10		10
M010558	94139402	0.07	75	< 1 0.04		13	740	14	0.61	52	2	58 < 0.01	< 10	< 10		16 < 10		24
M010559	94139402	0.15	390	< 1 0.01		37	560	12	0.07	30	1	34 < 0.01	< 10	< 10		20 < 10		56
M010560	94139402	0.10	265	< 1 0.01		31	370	18	0.16	54	3	33 < 0.01	< 10	< 10		17 < 10		42
M010561	94139402	0.05	110	< 1 < 0.01		14	200	26	0.13	30	1	28 < 0.01	< 10	< 10		7 < 10		18
M010562	94139402	0.03	50	< 1 < 0.01		6	180	18	0.14	30	< 1	28 < 0.01	< 10	< 10		4 < 10		8
M010563	94139402	0.02	40	1 < 0.01		10	90	6	0.07	12	< 1	12 < 0.01	< 10	< 10		6 < 10		4
M010564	94139402	0.07	125	< 1 < 0.01		16	140	10	0.05	14	1	16 < 0.01	< 10	< 10		12 < 10		24
M010565	94139402	0.01	20	< 1 < 0.01		5	100	8	0.04	16	< 1	5 < 0.01	< 10	< 10		9 < 10		< 2
M010566	94139402	< 0.01	85	< 1 < 0.01		5	250	14	0.12	10	< 1	16 < 0.01	< 10	< 10		7 < 10		12
M010567	94139402	2.94	685	< 1 < 0.01		702	420	4	0.01	884	3	39 < 0.01	< 10	< 10		16 < 10		54
M010568	94139402	0.02	45	< 1 < 0.01		9	230	10	0.26	20	< 1	12 < 0.01	< 10	< 10		10 < 10		12
M010569	94139402	0.01	35	< 1 < 0.01		9	190	12	0.14	12	< 1	8 < 0.01	< 10	< 10		10 < 10		12
M010570	94139402	0.03	60	< 1 < 0.01		13	290	22	0.04	28	1	14 < 0.01	< 10	< 10		12 < 10		24
M010571	94139402	0.01	50	< 1 < 0.01		11	110	8	0.05	22	< 1	10 < 0.01	< 10	< 10		7 < 10		16
M010572	94139402	0.32	130	< 1 0.01		73	1180	18	0.07	24	3	47 < 0.01	< 10	< 10		25 < 10		116
M010573	94139402	0.01	40	< 1 < 0.01		5	120	20	0.13	32	< 1	17 < 0.01	< 10	< 10		4 < 10		6
M010574	94139402	< 0.01	5	< 1 < 0.01		1	140	22	0.28	10	< 1	23 < 0.01	< 10	< 10		< 1 < 10		< 2
M010575	94139402	0.02	75	< 1 < 0.01		7	130	18	0.13	20	< 1	17 < 0.01	< 10	< 10		6 < 10		10
M010576	94139402	0.28	1155	< 1 0.02		68	540	34	0.22	106	4	52 0.01	< 10	< 10		35 < 10		94
M010577	94139402	0.31	700	1 0.01		73	740	24	0.25	70	4	54 0.01	< 10	< 10		31 < 10		126
M010578	94139402	1.07	535	< 1 0.01		46	1010	12	0.03	14	4	91 0.01	< 10	< 10		29 < 10		126
M010579	94139402	0.09	295	< 1 0.01		25	390	14	0.21	42	1	35 < 0.01	< 10	< 10		16 < 10		32
M010580	94139402	0.10	215	< 1 < 0.01		57	200	26	0.06	34	2	27 < 0.01	< 10	< 10		15 < 10		28

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British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218



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Total P : 6

Certificate Date: 15-JUL-2002

Invoice No. : 10219465

P.O. Number :

Account : RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010581	94139402	0.34	< 0.01	< 0.2	0.85	18	< 10	180	< 0.5	8	0.46	< 0.5	13	72	28	2.38	< 10	1	0.22	30
M010582	94139402	0.30	< 0.01	< 0.2	0.81	6	70	140	< 0.5	< 2	0.12	< 0.5	8	55	23	2.36	< 10	2	0.24	30
M010583	94139402	0.24	0.14	0.4	0.25	156	130	270	< 0.5	< 2	0.05	< 0.5	1	98	23	1.24	< 10	11	0.12	< 10
M010584	94139402	0.36	0.04	0.4	0.25	66	10	250	< 0.5	< 2	0.06	< 0.5	2	79	22	0.99	< 10	6	0.11	< 10
M010585	94139402	0.48	0.08	< 0.2	0.37	202	10	320	< 0.5	< 2	0.07	< 0.5	3	92	30	1.86	< 10	12	0.13	< 10
M010586	94139402	0.32	0.04	0.2	0.26	194	< 10	270	< 0.5	< 2	0.07	< 0.5	4	96	22	1.59	< 10	15	0.10	< 10
M010587	94139402	0.34	0.24	2.4	0.15	44	10	270	< 0.5	< 2	0.01	< 0.5	< 1	123	5	0.57	< 10	8	0.11	< 10
M010588	94139402	0.32	0.13	0.6	0.18	48	10	310	< 0.5	< 2	0.01	< 0.5	< 1	79	3	0.55	< 10	7	0.14	< 10
M010589	94139402	1.24	0.11	0.6	0.10	56	< 10	300	< 0.5	< 2	0.01	< 0.5	< 1	132	3	0.38	< 10	6	0.12	10
M010590	94139402	0.30	0.03	0.2	0.38	128	< 10	330	< 0.5	< 2	0.09	< 0.5	6	86	25	2.07	< 10	10	0.14	10
M010591	94139402	0.22	0.13	0.6	0.75	176	< 10	520	0.5	< 2	0.28	< 0.5	6	101	28	2.61	< 10	10	0.18	10
M010592	94139402	0.28	0.02	0.6	0.40	546	10	280	< 0.5	< 2	0.10	< 0.5	8	79	29	4.43	< 10	5	0.29	10
M010593	94139402	0.32	0.01	0.6	0.22	164	< 10	230	< 0.5	< 2	0.08	< 0.5	2	111	9	2.06	< 10	7	0.22	< 10
M010594	94139402	0.22	0.01	0.6	0.44	122	< 10	390	< 0.5	< 2	1.06	< 0.5	12	105	32	2.50	< 10	26	0.18	10
M010595	94139402	0.18	0.02	0.2	0.44	118	50	240	< 0.5	< 2	0.33	< 0.5	15	178	29	2.69	< 10	12	0.15	< 10
M010596	94139402	0.24	0.07	0.8	0.31	176	< 10	300	< 0.5	< 2	0.36	< 0.5	3	92	12	1.50	< 10	29	0.12	< 10
M010597	94139402	0.28	< 0.01	< 0.2	0.82	10	< 10	160	< 0.5	< 2	0.95	0.5	17	94	21	1.93	< 10	< 1	0.27	20
M010598	94139402	0.34	< 0.01	0.2	0.63	14	50	140	< 0.5	< 2	0.81	2.5	11	69	24	1.60	< 10	< 1	0.30	10
M010599	94139402	0.24	0.09	0.6	0.31	184	< 10	330	< 0.5	< 2	0.09	< 0.5	6	142	25	2.07	< 10	34	0.12	< 10
M010600	94139402	0.32	0.05	0.6	0.25	178	40	230	< 0.5	< 2	0.13	< 0.5	5	93	17	1.52	< 10	52	0.12	< 10
M010601	94139402	0.24	0.05	0.6	0.41	124	< 10	380	< 0.5	< 2	0.17	< 0.5	10	137	30	2.21	< 10	13	0.13	10
M010602	94139402	0.34	0.03	0.2	0.37	82	< 10	260	< 0.5	< 2	0.09	< 0.5	7	111	26	1.77	< 10	10	0.11	10
M010603	94139402	0.28	0.04	0.2	0.38	96	20	310	< 0.5	< 2	0.14	< 0.5	9	121	29	1.99	< 10	12	0.14	10
M010604	94139402	0.40	0.02	0.2	0.50	48	10	240	< 0.5	< 2	0.10	< 0.5	9	80	23	2.10	< 10	5	0.16	20
M010605	94139402	0.32	0.02	< 0.2	0.50	48	10	290	< 0.5	< 2	0.12	< 0.5	7	96	22	1.97	< 10	1	0.21	30
M010606	94139402	0.28	0.01	< 0.2	0.45	64	< 10	200	< 0.5	< 2	0.14	< 0.5	7	83	17	1.98	< 10	2	0.22	30
M010607	94139402	0.26	< 0.01	< 0.2	0.38	18	< 10	200	< 0.5	< 2	0.12	< 0.5	7	120	18	1.37	< 10	1	0.24	20
M010608	94139402	0.22	< 0.01	< 0.2	0.50	38	< 10	280	< 0.5	< 2	1.18	< 0.5	9	108	20	2.07	< 10	< 1	0.23	10
M010609	94139402	0.32	< 0.01	< 0.2	0.56	34	< 10	280	< 0.5	< 2	0.67	< 0.5	9	98	20	1.97	< 10	5	0.21	10
M010610	94139402	0.30	0.02	0.2	0.39	64	< 10	330	< 0.5	< 2	0.15	< 0.5	8	80	19	1.92	< 10	9	0.13	10
M010611	94139402	0.22	0.01	0.4	0.41	24	< 10	330	< 0.5	< 2	0.56	< 0.5	6	138	19	1.66	< 10	2	0.15	10
M010612	94139402	0.26	0.01	0.2	0.56	40	< 10	530	< 0.5	< 2	0.58	< 0.5	9	110	33	1.79	< 10	< 1	0.15	10
M010613	94139402	0.30	0.03	0.4	0.43	110	< 10	310	< 0.5	< 2	0.19	< 0.5	10	102	26	2.10	< 10	21	0.16	10
M010614	94139402	0.32	0.02	0.2	0.38	100	< 10	370	< 0.5	2	0.34	< 0.5	10	90	28	2.18	< 10	12	0.14	10
M010615	94139402	0.20	0.01	< 0.2	0.52	40	< 10	290	< 0.5	< 2	0.33	< 0.5	13	196	24	2.07	< 10	41	0.18	10
M010616	94139402	0.34	0.02	0.2	0.24	336	< 10	230	< 0.5	< 2	0.04	< 0.5	4	107	18	1.52	< 10	24	0.11	< 10
M010617	94139402	0.52	0.02	< 0.2	0.19	132	< 10	210	< 0.5	< 2	0.03	< 0.5	4	130	14	1.41	< 10	10	0.10	< 10
M010618	94139402	0.32	< 0.01	0.6	0.99	298	< 10	240	1.5	< 2	0.70	1.0	15	43	48	10.45	< 10	< 1	0.23	10
M010619	94139402	0.44	0.03	< 0.2	0.45	112	< 10	510	< 0.5	< 2	0.09	< 0.5	4	98	20	1.64	< 10	5	0.13	< 10
M010620	94139402	0.44	0.05	0.2	0.66	176	< 10	410	0.5	< 2	0.09	< 0.5	15	106	40	1.89	< 10	7	0.16	10

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Account : RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010581	94139402	0.36	305	< 1	0.01	30	400	22	0.03	6	1	33	< 0.01	< 10	< 10	9	< 10	86
M010582	94139402	0.35	200	< 1	0.02	15	470	18	0.06	2	1	17	< 0.01	< 10	< 10	7	< 10	64
M010583	94139402	0.03	50	< 1	0.02	11	170	16	0.09	26	1	20	< 0.01	< 10	< 10	8	< 10	20
M010584	94139402	0.05	80	< 1	< 0.01	13	180	12	0.07	22	1	19	< 0.01	< 10	< 10	8	< 10	26
M010585	94139402	0.07	90	2	< 0.01	17	360	14	0.13	56	1	24	< 0.01	< 10	< 10	16	< 10	36
M010586	94139402	0.05	215	< 1	< 0.01	31	290	8	0.07	40	1	18	< 0.01	< 10	< 10	12	< 10	50
M010587	94139402	0.01	25	< 1	0.01	4	60	2	0.16	10	< 1	15	< 0.01	< 10	< 10	8	< 10	2
M010588	94139402	0.01	35	< 1	< 0.01	2	80	8	0.17	10	< 1	14	< 0.01	< 10	< 10	3	< 10	2
M010589	94139402	< 0.01	10	< 1	< 0.01	3	60	14	0.11	14	< 1	12	< 0.01	< 10	< 10	< 1	< 10	2
M010590	94139402	0.07	310	< 1	< 0.01	23	330	18	0.04	44	1	19	< 0.01	< 10	< 10	13	< 10	62
M010591	94139402	0.12	375	< 1	0.01	35	650	22	0.23	46	3	47	< 0.01	< 10	< 10	19	< 10	74
M010592	94139402	0.04	195	< 1	0.02	32	440	24	0.52	22	1	31	< 0.01	< 10	< 10	13	< 10	62
M010593	94139402	0.03	70	2	0.01	17	170	10	0.44	30	< 1	27	< 0.01	< 10	< 10	10	< 10	22
M010594	94139402	0.60	505	1	0.01	106	810	28	0.13	52	3	50	< 0.01	< 10	< 10	24	< 10	128
M010595	94139402	0.46	550	< 1	0.01	145	330	16	0.10	160	3	22	< 0.01	< 10	< 10	14	< 10	88
M010596	94139402	0.08	60	< 1	< 0.01	11	210	12	0.08	70	< 1	26	< 0.01	< 10	< 10	10	< 10	16
M010597	94139402	0.30	240	< 1	0.01	39	510	30	0.03	6	1	48	< 0.01	< 10	< 10	7	< 10	732
M010598	94139402	0.19	165	1	0.02	26	510	28	0.05	2	1	43	< 0.01	< 10	< 10	5	< 10	724
M010599	94139402	0.08	225	1	0.01	34	230	26	0.04	46	1	20	< 0.01	< 10	< 10	11	< 10	70
M010600	94139402	0.05	205	< 1	0.01	15	340	16	0.06	82	1	19	< 0.01	< 10	< 10	8	< 10	38
M010601	94139402	0.16	380	< 1	< 0.01	49	490	20	0.04	42	2	24	< 0.01	< 10	< 10	15	< 10	88
M010602	94139402	0.10	395	< 1	< 0.01	32	210	42	0.01	20	1	13	< 0.01	< 10	< 10	10	< 10	68
M010603	94139402	0.12	490	< 1	0.01	41	410	48	0.04	32	2	19	< 0.01	< 10	< 10	13	< 10	90
M010604	94139402	0.15	555	< 1	0.01	32	390	22	0.02	10	1	14	< 0.01	< 10	< 10	8	< 10	54
M010605	94139402	0.13	370	< 1	0.01	31	390	18	0.05	12	1	19	< 0.01	< 10	< 10	10	< 10	46
M010606	94139402	0.14	360	< 1	0.01	19	450	30	0.03	10	1	12	< 0.01	< 10	< 10	7	< 10	44
M010607	94139402	0.09	230	< 1	0.01	21	290	28	0.06	2	1	12	< 0.01	< 10	< 10	5	< 10	18
M010608	94139402	0.34	440	< 1	0.02	28	500	14	0.05	8	2	33	< 0.01	< 10	< 10	12	< 10	46
M010609	94139402	0.25	420	< 1	0.01	27	490	14	0.03	4	2	25	< 0.01	< 10	< 10	11	< 10	46
M010610	94139402	0.14	675	< 1	0.01	25	400	20	0.03	22	1	17	< 0.01	< 10	< 10	11	< 10	42
M010611	94139402	0.19	505	< 1	0.01	24	520	18	0.04	16	1	30	< 0.01	< 10	< 10	13	< 10	40
M010612	94139402	0.25	375	< 1	0.01	39	610	18	0.05	12	2	36	< 0.01	< 10	< 10	18	< 10	50
M010613	94139402	0.17	475	< 1	< 0.01	45	470	28	0.05	30	2	22	< 0.01	< 10	< 10	13	< 10	108
M010614	94139402	0.22	510	< 1	< 0.01	43	590	18	0.06	32	2	25	< 0.01	< 10	< 10	15	< 10	106
M010615	94139402	0.21	1060	< 1	0.01	40	450	14	0.03	6	2	21	< 0.01	< 10	< 10	14	< 10	42
M010616	94139402	0.05	160	< 1	< 0.01	16	230	10	0.11	82	1	26	< 0.01	< 10	< 10	10	< 10	38
M010617	94139402	0.04	235	< 1	< 0.01	14	170	6	0.08	40	1	18	< 0.01	< 10	< 10	12	< 10	36
M010618	94139402	0.48	885	< 1	0.11	52	1410	16	1.11	14	1	41	< 0.01	< 10	< 10	39	< 10	106
M010619	94139402	0.12	125	< 1	< 0.01	22	380	12	0.05	30	1	16	< 0.01	< 10	< 10	15	< 10	56
M010620	94139402	0.08	400	< 1	< 0.01	57	410	16	0.09	38	2	23	< 0.01	< 10	< 10	14	< 10	92

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A0219465

SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010621	94139402	0.32	0.03	0.2	0.27	122	< 10	270	< 0.5	< 2	0.05	< 0.5	< 1	75	14	0.87	< 10	15	0.28	10
M010622	94139402	0.42	0.16	0.8	0.49	246	< 10	390	< 0.5	< 2	0.07	< 0.5	3	81	22	2.02	< 10	10	0.18	< 10
M010623	94139402	0.18	0.27	1.2	0.15	64	< 10	240	< 0.5	< 2	0.01	< 0.5	< 1	171	7	0.50	< 10	8	0.07	< 10
M010624	94139402	0.28	0.08	0.2	0.15	20	< 10	190	< 0.5	< 2	0.01	< 0.5	< 1	117	4	0.39	< 10	7	0.08	10
M010625	-- --	0.00	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M010626	94139402	0.26	0.02	< 0.2	1.06	38	< 10	650	< 0.5	< 2	2.09	0.5	13	78	45	2.72	< 10	< 1	0.14	10
M010627	94139402	0.22	0.14	0.6	0.11	64	< 10	310	< 0.5	< 2	0.03	< 0.5	1	119	3	0.52	< 10	13	0.04	< 10
M010628	94139402	0.30	0.03	< 0.2	0.81	48	< 10	270	< 0.5	< 2	0.14	< 0.5	7	101	19	2.07	< 10	3	0.08	10
M010629	94139402	0.24	< 0.01	< 0.2	0.48	52	< 10	250	< 0.5	< 2	< 0.01	< 0.5	< 1	25	12	1.35	< 10	7	0.40	20
M010630	94139402	0.30	0.27	< 0.2	0.21	32	< 10	200	< 0.5	< 2	0.01	< 0.5	1	140	8	0.73	< 10	5	0.12	< 10
M010631	94139402	0.32	< 0.01	0.8	0.73	32	< 10	430	1.5	< 2	0.20	2.5	21	61	64	3.07	< 10	< 1	0.13	10
M010632	94139402	0.34	< 0.01	0.4	0.62	52	< 10	450	0.5	< 2	0.16	1.5	18	84	81	3.33	< 10	1	0.18	10
M010633	94139402	0.22	0.03	2.6	0.36	48	< 10	420	< 0.5	< 2	0.04	< 0.5	4	82	24	2.53	< 10	5	0.16	10
M010634	94139402	0.30	0.02	1.8	0.21	60	< 10	220	< 0.5	< 2	0.03	< 0.5	2	112	19	1.70	< 10	3	0.13	< 10
M010635	94139402	0.26	< 0.01	0.2	0.44	24	< 10	340	< 0.5	< 2	2.96	4.5	12	105	50	2.74	< 10	< 1	0.14	< 10
M010636	94139402	0.24	< 0.01	0.8	0.81	28	< 10	400	0.5	< 2	1.77	7.0	22	136	68	2.67	< 10	< 1	0.17	10
M010637	94139402	0.22	0.01	< 0.2	0.74	54	< 10	410	< 0.5	< 2	0.04	< 0.5	7	106	62	2.93	< 10	3	0.17	10
M010638	94139402	0.34	0.01	0.2	0.42	48	< 10	250	< 0.5	< 2	0.09	< 0.5	18	106	71	3.02	< 10	3	0.12	< 10
M010639	94139402	0.20	0.09	0.6	0.36	30	< 10	300	< 0.5	< 2	0.07	< 0.5	8	125	85	2.12	< 10	2	0.14	< 10
M010640	94139402	0.22	< 0.01	< 0.2	0.39	58	< 10	240	< 0.5	< 2	1.88	< 0.5	8	103	29	2.31	< 10	1	0.16	10
M010641	94139402	0.32	< 0.01	0.2	0.42	46	< 10	300	< 0.5	< 2	1.54	< 0.5	11	109	43	2.47	< 10	1	0.15	10
M010642	94139402	0.36	< 0.01	< 0.2	0.17	4	< 10	120	< 0.5	< 2	0.01	< 0.5	< 1	113	3	0.33	< 10	1	0.09	< 10
M010643	94139402	0.28	0.02	< 0.2	0.85	44	< 10	970	0.5	< 2	0.34	< 0.5	12	75	61	2.73	< 10	< 1	0.13	10
M010644	94139402	0.54	0.02	< 0.2	0.62	48	< 10	620	< 0.5	< 2	0.23	< 0.5	9	121	45	2.04	< 10	4	0.10	10
M010645	94139402	0.30	0.02	< 0.2	0.88	70	< 10	880	0.5	< 2	0.93	< 0.5	12	89	57	2.62	< 10	2	0.14	10
M010646	94139402	0.30	0.03	0.2	0.47	62	< 10	460	< 0.5	< 2	1.41	< 0.5	5	115	38	1.41	< 10	7	0.10	10
M010647	94139402	0.24	0.08	0.2	0.82	226	< 10	340	0.5	< 2	0.04	< 0.5	6	108	40	2.49	< 10	19	0.13	10
M010648	94139402	0.28	0.03	< 0.2	0.29	76	< 10	190	< 0.5	< 2	0.04	< 0.5	1	75	8	0.56	< 10	6	0.18	< 10
M010649	94139402	0.24	0.11	0.8	0.35	262	< 10	400	< 0.5	< 2	0.02	< 0.5	2	114	14	1.66	< 10	11	0.24	< 10
M010650	94139402	0.38	0.06	< 0.2	1.03	102	< 10	340	1.0	< 2	0.09	< 0.5	11	86	50	3.03	< 10	4	0.19	10
M010651	94139402	0.24	0.02	0.2	0.21	188	< 10	260	< 0.5	< 2	< 0.01	< 0.5	1	152	5	1.06	< 10	5	0.14	< 10
M010652	94139402	0.36	0.03	0.2	0.13	154	< 10	310	< 0.5	< 2	< 0.01	< 0.5	< 1	118	3	0.61	< 10	15	0.14	< 10
M010653	94139402	0.26	0.02	0.2	0.44	460	< 10	110	< 0.5	< 2	0.01	< 0.5	4	53	19	4.67	< 10	22	0.56	< 10
M010654	94139402	0.46	< 0.01	< 0.2	0.10	16	< 10	270	< 0.5	< 2	4.64	< 0.5	48	294	4	3.18	< 10	< 1	0.02	< 10
M010655	94139402	0.62	< 0.01	< 0.2	0.08	10	< 10	200	< 0.5	< 2	2.74	< 0.5	43	234	3	3.37	< 10	< 1	0.03	< 10
M010656	94139402	0.72	< 0.01	< 0.2	0.11	< 2	< 10	70	< 0.5	< 2	2.55	< 0.5	2	106	22	0.87	< 10	< 1	0.01	< 10
M010657	94139402	0.32	< 0.01	< 0.2	0.39	16	< 10	360	< 0.5	< 2	1.19	< 0.5	6	64	12	1.91	< 10	< 1	0.15	< 10
M010658	94139402	1.44	< 0.01	< 0.2	0.28	10	< 10	830	< 0.5	< 2	9.73	0.5	4	40	14	2.56	< 10	< 1	0.04	< 10
M010659	94139402	1.00	< 0.01	< 0.2	0.31	2	< 10	150	< 0.5	< 2	1.08	< 0.5	1	45	3	0.76	< 10	< 1	0.16	10
M010660	94139402	0.62	< 0.01	< 0.2	0.05	396	< 10	210	< 0.5	< 2	4.04	< 0.5	34	168	5	3.02	< 10	< 1	0.02	< 10

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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010621	94139402	0.03	30	2 < 0.01		10	160	14	0.18	42	< 1	19 < 0.01	< 10	< 10		5	< 10	18
M010622	94139402	0.07	85	3 0.01		19	360	22	0.12	54	1	25 < 0.01	< 10	< 10		18	< 10	34
M010623	94139402	0.01	20	< 1 < 0.01		6	110	12	0.05	22	< 1	13 < 0.01	< 10	< 10		5	< 10	4
M010624	94139402	< 0.01	20	1 < 0.01		4	110	18	0.05	26	< 1	15 < 0.01	< 10	< 10		4	< 10	4
M010625	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M010626	94139402	0.72	500	3 0.02		68	1010	20	0.04	10	3	56 0.01	< 10	< 10		37	< 10	102
M010627	94139402	0.01	15	1 < 0.01		5	90	20	0.07	44	< 1	16 < 0.01	< 10	< 10		7	< 10	2
M010628	94139402	0.25	200	3 0.01		23	540	24	0.04	26	1	19 0.01	< 10	< 10		29	< 10	64
M010629	94139402	0.01	15	< 1 0.01		3	170	30	0.39	16	1	10 < 0.01	< 10	< 10		4	< 10	10
M010630	94139402	0.01	20	1 0.01		7	70	4	0.07	22	< 1	9 < 0.01	< 10	< 10		9	< 10	6
M010631	94139402	0.22	2340	2 0.01		150	630	14	0.07	10	7	28 < 0.01	< 10	< 10		32	< 10	202
M010632	94139402	0.15	1230	3 0.02		87	800	14	0.25	20	4	50 < 0.01	< 10	< 10		27	< 10	150
M010633	94139402	0.04	265	1 < 0.01		15	350	14	0.05	12	1	13 < 0.01	< 10	< 10		13	< 10	36
M010634	94139402	0.02	50	1 < 0.01		9	130	8	0.05	12	< 1	7 < 0.01	< 10	< 10		8	< 10	22
M010635	94139402	1.32	945	10 0.01		79	1320	16	0.13	8	4	67 < 0.01	< 10	< 10		65	< 10	180
M010636	94139402	0.86	1945	12 0.02		123	1550	24	0.18	10	5	64 < 0.01	< 10	< 10		65	< 10	402
M010637	94139402	0.12	360	2 0.01		41	640	16	0.07	16	6	21 < 0.01	< 10	< 10		29	< 10	100
M010638	94139402	0.06	850	3 0.01		55	310	12	0.04	14	4	13 < 0.01	< 10	< 10		25	< 10	114
M010639	94139402	0.04	160	3 0.01		36	100	26	0.03	16	1	11 < 0.01	< 10	< 10		26	< 10	58
M010640	94139402	0.58	790	3 0.01		37	480	16	0.29	12	2	35 < 0.01	< 10	< 10		15	< 10	72
M010641	94139402	0.56	945	3 0.01		48	610	32	0.18	10	3	40 < 0.01	< 10	< 10		21	< 10	86
M010642	94139402	0.01	15	< 1 < 0.01		5	20	< 2 0.03		4	< 1	4 < 0.01	< 10	< 10		5	< 10	< 2
M010643	94139402	0.37	480	3 0.03		77	1110	16	0.08	4	4	37 0.02	< 10	< 10		31	< 10	98
M010644	94139402	0.22	340	3 0.01		54	650	14	0.11	18	2	32 < 0.01	< 10	< 10		20	< 10	62
M010645	94139402	0.58	430	3 0.03		54	940	18	0.10	16	3	48 0.01	< 10	< 10		29	< 10	94
M010646	94139402	0.36	345	2 0.01		24	420	14	0.08	34	1	44 0.01	< 10	< 10		18	< 10	44
M010647	94139402	0.12	120	2 0.01		30	360	20	0.11	56	2	24 < 0.01	< 10	< 10		22	< 10	42
M010648	94139402	0.03	10	< 1 0.01		5	80	10	0.13	22	1	14 < 0.01	< 10	< 10		5	< 10	6
M010649	94139402	0.03	35	1 0.03		8	210	12	0.40	46	1	29 < 0.01	< 10	< 10		14	< 10	10
M010650	94139402	0.13	405	1 0.04		54	620	12	0.41	20	4	68 < 0.01	< 10	< 10		25	< 10	76
M010651	94139402	0.01	20	< 1 0.02		6	90	6	0.22	18	< 1	17 < 0.01	< 10	< 10		10	< 10	6
M010652	94139402	< 0.01	15	< 1 0.01		5	40	4	0.16	22	< 1	14 < 0.01	< 10	< 10		6	< 10	< 2
M010653	94139402	0.03	60	2 0.05		11	400	24	1.19	56	1	50 < 0.01	< 10	< 10		19	< 10	22
M010654	94139402	5.88	695	< 1 0.01		966	80	2	0.04	14	3	196 < 0.01	< 10	< 10		13	< 10	10
M010655	94139402	10.65	445	< 1 < 0.01		796	110	< 2 0.06		8	2	106 < 0.01	< 10	< 10		12	< 10	12
M010656	94139402	1.40	230	1 < 0.01		24	40	4 < 0.01	< 2	< 1		61 < 0.01	< 10	< 10		9	< 10	14
M010657	94139402	0.57	320	< 1 < 0.01		34	250	12 0.01		2	3	53 < 0.01	< 10	< 10		17	< 10	58
M010658	94139402	4.91	705	< 1 < 0.01		27	540	6 0.01		6	4	406 < 0.01	< 10	< 10		25	< 10	22
M010659	94139402	0.48	170	< 1 < 0.01		6	80	22 < 0.01	< 2	2		41 < 0.01	< 10	< 10		3	< 10	36
M010660	94139402	3.42	535	1 < 0.01		732	70	< 2 0.47		142	3	129 < 0.01	< 10	< 10		6	< 10	6

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Project: SPICE
Comments:

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Total P.: 6
Certificate Date: 15-JUL-2002
Invoice No.: 10219465
P.O. Number:
Account: RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010661	94139402	0.08	< 0.01	< 0.2	0.08	20	< 10	160	< 0.5	< 2	1.27	< 0.5	41	319	6	2.95	< 10	< 1	0.04	< 10
M010662	94139402	1.86	< 0.01	< 0.2	0.07	28	< 10	90	< 0.5	< 2	0.03	< 0.5	< 1	131	2	0.80	< 10	< 1	0.04	< 10
M010663	94139402	2.34	< 0.01	< 0.2	0.08	38	< 10	80	< 0.5	< 2	0.18	< 0.5	< 1	104	1	0.68	< 10	< 1	0.05	< 10
M010664	94139402	0.00	< 0.01	< 0.2	0.07	8	< 10	110	< 0.5	< 2	0.01	< 0.5	< 1	121	1	0.40	< 10	< 1	0.04	< 10
M010665	94139402	1.58	< 0.01	< 0.2	0.13	10	< 10	190	< 0.5	< 2	0.01	< 0.5	< 1	121	6	0.83	< 10	1	0.08	< 10
M010666	94139402	2.24	< 0.01	0.4	0.05	4	< 10	60	0.5	< 2	0.27	< 0.5	73	474	5	2.87	10	< 1	0.01	< 10
M010667	94139402	1.88	0.01	< 0.2	0.03	48	< 10	120	< 0.5	< 2	0.03	< 0.5	10	261	4	1.97	< 10	4	0.12	< 10
M010668	94139402	0.96	1.20	1.6	0.40	482	< 10	390	< 0.5	< 2	0.07	< 0.5	5	83	23	1.19	< 10	13	0.15	20
M010669	94139402	2.68	1.21	1.6	0.11	312	< 10	230	< 0.5	< 2	0.01	< 0.5	1	152	6	0.60	< 10	9	0.10	20
M010670	94139402	1.02	0.32	0.8	0.24	154	< 10	390	< 0.5	< 2	0.07	< 0.5	1	102	18	1.26	< 10	10	0.11	10
M010671	94139402	2.20	0.07	0.2	0.04	38	< 10	130	< 0.5	< 2	< 0.01	< 0.5	< 1	132	8	0.36	< 10	7	0.03	10
M010672	94139402	0.76	0.13	1.0	0.06	58	< 10	530	< 0.5	< 2	< 0.01	< 0.5	< 1	129	6	0.49	< 10	27	0.05	20
M010673	94139402	0.68	< 0.01	0.2	0.81	24	< 10	550	0.5	< 2	0.27	< 0.5	13	75	41	2.58	< 10	< 1	0.19	10
M010674	94139402	0.72	< 0.01	2.2	0.34	62	< 10	320	< 0.5	< 2	0.05	< 0.5	4	66	13	2.36	< 10	7	0.28	10
M010675	94139402	1.28	< 0.01	1.0	0.35	144	< 10	320	< 0.5	< 2	0.05	< 0.5	3	46	18	3.16	< 10	2	0.41	10
M010676	94139402	0.50	< 0.01	1.6	0.22	24	< 10	200	< 0.5	< 2	0.01	< 0.5	< 1	71	5	0.80	< 10	7	0.20	10
M010677	94139402	1.18	< 0.01	0.6	0.34	136	< 10	240	< 0.5	< 2	0.04	< 0.5	2	26	18	2.67	< 10	3	0.35	20
M010678	94139402	1.36	< 0.01	0.4	0.67	42	< 10	590	0.5	< 2	0.14	< 0.5	18	93	77	4.15	< 10	1	0.25	< 10
M010679	94139402	0.00	< 0.01	< 0.2	0.15	4	< 10	80	< 0.5	< 2	0.31	< 0.5	2	123	5	0.87	< 10	< 1	0.03	< 10
M010680	94139402	2.18	0.14	0.6	0.30	32	< 10	250	< 0.5	< 2	0.01	< 0.5	< 1	57	3	0.35	< 10	11	0.20	< 10
M010681	94139402	1.64	0.46	< 0.2	0.03	148	< 10	180	< 0.5	< 2	0.01	< 0.5	< 1	143	1	0.66	< 10	4	0.08	< 10
M010682	94139402	1.62	0.19	0.2	0.30	38	< 10	530	< 0.5	< 2	< 0.01	< 0.5	< 1	60	5	0.45	< 10	10	0.28	< 10
M010683	94139402	2.28	0.19	< 0.2	0.29	32	< 10	490	< 0.5	< 2	< 0.01	< 0.5	< 1	74	3	0.42	< 10	8	0.26	< 10
M010684	94139402	1.58	0.13	< 0.2	0.27	14	< 10	220	< 0.5	< 2	< 0.01	< 0.5	< 1	75	3	0.26	< 10	6	0.17	< 10
M010685	94139402	1.34	0.43	0.8	0.16	32	< 10	180	< 0.5	< 2	0.01	< 0.5	< 1	99	5	0.42	< 10	13	0.07	10
M010686	94139402	1.84	0.05	< 0.2	0.06	34	< 10	210	< 0.5	< 2	< 0.01	< 0.5	1	105	5	0.30	< 10	9	0.04	10
M010687	94139402	2.36	0.04	0.2	0.09	20	< 10	410	< 0.5	< 2	< 0.01	< 0.5	< 1	119	2	0.27	< 10	9	0.08	20
M010688	94139402	1.84	0.06	0.4	0.25	176	< 10	340	< 0.5	< 2	< 0.01	< 0.5	1	92	22	1.64	< 10	13	0.12	10
M010689	94139402	2.18	0.03	0.2	0.04	34	< 10	170	< 0.5	< 2	< 0.01	< 0.5	< 1	137	9	0.44	< 10	11	0.03	10
M010690	94139402	2.38	0.09	0.2	0.07	34	< 10	130	< 0.5	< 2	0.01	< 0.5	< 1	103	7	0.55	< 10	9	0.05	10
M010691	94139402	1.70	0.12	1.0	0.24	282	< 10	360	< 0.5	< 2	0.09	< 0.5	1	110	19	2.15	< 10	13	0.15	10
M010692	94139402	1.24	< 0.01	0.6	1.24	22	< 10	570	0.5	< 2	0.24	< 0.5	18	85	36	2.94	< 10	< 1	0.16	10
M010693	94139402	1.24	< 0.01	0.8	0.71	22	110	540	0.5	< 2	1.53	1.5	36	226	34	3.38	10	< 1	0.11	< 10
M010694	94139402	1.36	< 0.01	0.6	0.91	28	< 10	670	< 0.5	< 2	1.99	2.5	16	65	48	2.76	< 10	< 1	0.17	10
M010695	94139402	1.36	< 0.01	0.8	0.64	18	< 10	650	< 0.5	< 2	3.53	2.5	16	94	40	2.42	10	< 1	0.13	< 10
M010696	94139402	1.44	0.01	0.6	0.58	62	< 10	440	0.5	< 2	0.13	1.0	23	70	88	2.99	< 10	< 1	0.13	< 10
M010697	94139402	1.12	< 0.01	0.6	0.74	38	< 10	510	< 0.5	< 2	0.58	< 0.5	16	89	61	3.01	< 10	< 1	0.13	< 10
M010698	94139402	1.22	< 0.01	0.8	0.69	38	< 10	440	< 0.5	< 2	1.51	0.5	14	66	56	2.81	< 10	< 1	0.13	< 10
M010699	94139402	1.10	< 0.01	0.6	1.50	8	< 10	500	< 0.5	< 2	2.02	0.5	16	125	45	2.68	10	< 1	0.11	< 10
M010700	94139402	0.86	< 0.01	0.8	1.15	8	< 10	450	0.5	< 2	5.29	4.0	12	73	46	2.27	10	< 1	0.11	< 10

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Certificate Date: 15-JUL-2002
Invoice No. : 10219465
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Account : RCM

CERTIFICATE OF ANALYSIS

A0219465

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010661	94139402	0.63	450	3 < 0.01		381	180	2	0.09	8	3	17 < 0.01	< 10	< 10		7	< 10	10
M010662	94139402	0.01	10	1 < 0.01		5	< 10	2	0.66	26	< 1	3 < 0.01	< 10	< 10		1	< 10	< 2
M010663	94139402	0.08	20	1 < 0.01		9	10	< 2	0.25	16	< 1	8 < 0.01	< 10	< 10		3	< 10	2
M010664	94139402	0.01	5	< 1 < 0.01		5	30	< 2	0.15	8	< 1	9 < 0.01	< 10	< 10		2	< 10	< 2
M010665	94139402	0.01	15	1 < 0.01		5	50	2	0.10	10	< 1	6 < 0.01	< 10	< 10		11	< 10	4
M010666	94139402	8.12	340	1 < 0.01		1745	80	2	0.03	2	3	13 < 0.01	< 10	< 10		12	< 10	14
M010667	94139402	0.06	20	1 < 0.01		147	40	6	0.79	30	< 1	6 < 0.01	< 10	< 10		5	< 10	6
M010668	94139402	0.08	125	1 < 0.01		18	300	28	0.14	68	3	31 < 0.01	< 10	< 10		11	< 10	18
M010669	94139402	< 0.01	20	< 1 < 0.01		6	70	20	0.27	32	< 1	13 < 0.01	< 10	< 10		1	< 10	2
M010670	94139402	0.05	30	2 < 0.01		9	210	28	0.18	52	1	29 < 0.01	< 10	< 10		10	< 10	12
M010671	94139402	< 0.01	10	1 < 0.01		5	50	18	0.09	32	< 1	9 < 0.01	< 10	< 10		1	< 10	2
M010672	94139402	< 0.01	15	3 < 0.01		4	60	34	0.14	60	< 1	22 < 0.01	< 10	< 10		2	< 10	< 2
M010673	94139402	0.31	465	1 < 0.01		67	680	20	0.16	6	3	38 < 0.01	< 10	< 10		38	< 10	88
M010674	94139402	0.07	165	2 < 0.01		27	320	24	0.29	20	< 1	38 < 0.01	< 10	< 10		5	< 10	48
M010675	94139402	0.09	40	2 < 0.01		13	280	26	0.57	30	< 1	43 < 0.01	< 10	< 10		5	< 10	46
M010676	94139402	0.03	15	1 < 0.01		3	80	12	0.20	12	< 1	12 < 0.01	< 10	< 10		1	< 10	10
M010677	94139402	0.09	30	2 < 0.01		10	250	24	0.35	30	< 1	25 < 0.01	< 10	< 10		3	< 10	42
M010678	94139402	0.17	700	3 < 0.01		68	760	10	0.14	38	6	56 < 0.01	< 10	< 10		32	< 10	152
M010679	94139402	0.16	290	< 1 < 0.01		11	120	< 2	0.03	2	< 1	14 < 0.01	< 10	< 10		4	< 10	12
M010680	94139402	0.01	5	1 < 0.01		1	70	28	0.09	36	< 1	20 < 0.01	< 10	< 10		4	< 10	< 2
M010681	94139402	< 0.01	15	< 1 < 0.01		4	60	12	0.21	16	< 1	8 < 0.01	< 10	< 10		< 1	< 10	8
M010682	94139402	0.01	5	1 < 0.01		1	70	20	0.12	90	< 1	21 < 0.01	< 10	< 10		9	< 10	< 2
M010683	94139402	0.01	5	1 < 0.01		1	60	18	0.12	52	< 1	18 < 0.01	< 10	< 10		7	< 10	< 2
M010684	94139402	0.01	5	< 1 < 0.01		1	40	10	0.04	28	< 1	8 < 0.01	< 10	< 10		5	< 10	< 2
M010685	94139402	0.01	15	1 < 0.01		3	110	22	0.05	40	< 1	16 < 0.01	< 10	< 10		4	< 10	2
M010686	94139402	< 0.01	5	1 < 0.01		6	60	18	0.08	48	< 1	11 < 0.01	< 10	< 10		1	< 10	2
M010687	94139402	< 0.01	5	< 1 < 0.01		3	110	30	0.05	42	< 1	15 < 0.01	< 10	< 10		1	< 10	< 2
M010688	94139402	0.04	25	3 < 0.01		8	310	28	0.20	56	1	25 < 0.01	< 10	< 10		10	< 10	10
M010689	94139402	< 0.01	10	1 < 0.01		5	60	18	0.13	38	< 1	10 < 0.01	< 10	< 10		1	< 10	2
M010690	94139402	< 0.01	10	2 < 0.01		4	60	18	0.22	36	< 1	11 < 0.01	< 10	< 10		3	< 10	2
M010691	94139402	0.07	35	2 < 0.02		12	250	24	0.42	68	< 1	35	0.01	< 10	< 10	16	< 10	14
M010692	94139402	0.84	510	5 < 0.01		200	470	18	0.02	6	5	31	0.01	< 10	< 10	57	< 10	128
M010693	94139402	1.67	1315	7 < 0.01		450	1110	18	0.04	4	4	101 < 0.01	< 10	< 10		50	< 10	144
M010694	94139402	1.09	595	5 < 0.01		108	1260	20	0.04	6	4	76	0.01	< 10	< 10	47	< 10	168
M010695	94139402	1.82	625	6 < 0.01		198	1240	14	0.08	2	5	110	0.01	< 10	< 10	61	< 10	142
M010696	94139402	0.15	1305	7 < 0.01		151	770	32	0.06	14	5	35 < 0.01	< 10	< 10		45	< 10	246
M010697	94139402	0.46	990	4 < 0.01		89	510	26	0.10	8	5	40 < 0.01	< 10	< 10		43	< 10	108
M010698	94139402	0.74	895	3 < 0.01		71	720	20	0.12	10	5	51 < 0.01	< 10	< 10		36	< 10	96
M010699	94139402	1.75	490	4 < 0.05		109	890	10	0.05	< 2	5	76	0.07	< 10	< 10	53	< 10	80
M010700	94139402	1.78	460	15 < 0.05		91	2000	4	0.08	2	5	144	0.05	< 10	< 10	114	< 10	178

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SAMPLE	PREP CODE	Weight Kg	Au g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
M010701	94139402	2.80	< 0.01	0.6	0.94	16	< 10	650	0.5	< 2	3.79	4.5	16	92	51	2.42	10	< 1	0.14	< 10
M010702	94139402	2.14	< 0.01	0.8	0.42	18	< 10	370	< 0.5	< 2	4.78	2.0	23	134	42	2.41	10	< 1	0.11	< 10
M010703	94139402	1.20	< 0.01	0.6	0.71	18	< 10	430	< 0.5	< 2	1.76	2.0	10	70	50	2.31	< 10	1	0.16	10
M010704	94139402	1.34	< 0.01	0.6	0.72	22	< 10	140	< 0.5	< 2	4.24	5.5	11	50	47	2.36	< 10	< 1	0.18	< 10

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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M010701	94139402	1.62	495	11	0.01	196	1430	14	0.06	6	4	129	0.01	< 10	< 10	84	< 10	192
M010702	94139402	4.03	480	12	0.01	427	590	8	0.06	6	3	123	< 0.01	< 10	< 10	41	< 10	92
M010703	94139402	0.47	595	13	0.01	62	1530	102	0.04	6	4	61	< 0.01	< 10	< 10	67	< 10	304
M010704	94139402	0.92	455	13	0.01	77	1610	18	1.69	8	3	91	< 0.01	< 10	< 10	55	< 10	230

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British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218



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Account : RCM

CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Weight Kg	Au ppb ICP	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
BB 33875	94069407	0.38	128	0.8	2.07	234	< 10	360	0.5	< 2	0.08	< 0.5	20	49	65	4.56	< 10	5	0.05	10
BB 33876	94069407	0.30	52	1.0	1.16	126	< 10	360	< 0.5	2	0.12	0.5	8	30	28	3.89	< 10	1	0.07	< 10
BB 33877	94069407	0.34	12	0.6	0.77	96	< 10	420	0.5	2	0.06	< 0.5	14	36	46	3.93	< 10	< 1	0.09	< 10
BB 33878	94069407	0.24	11	1.4	0.76	64	< 10	400	0.5	8	0.20	1.0	14	27	27	4.51	< 10	1	0.11	10
BB 33879	94069407	0.36	13	1.4	0.82	46	< 10	200	0.5	6	0.53	1.0	17	24	51	5.45	< 10	< 1	0.08	< 10
BB 33880	94069407	0.34	26	0.6	1.23	66	< 10	630	< 0.5	2	0.25	0.5	22	31	22	2.73	< 10	1	0.08	< 10
BB 33881	94069407	0.20	25	0.6	0.92	40	< 10	270	< 0.5	4	0.17	< 0.5	9	26	15	2.57	< 10	< 1	0.05	< 10
BB 33882	94069407	0.36	15	0.2	0.80	16	< 10	600	< 0.5	< 2	0.36	< 0.5	11	23	87	3.02	< 10	< 1	0.08	10
BB 33883	94069407	0.32	10	0.2	0.55	18	< 10	210	< 0.5	2	0.24	< 0.5	11	21	54	2.77	< 10	< 1	0.05	< 10
BB 33884	94069407	0.18	4	0.4	0.61	16	< 10	370	< 0.5	8	12.15	3.5	6	15	34	6.16	< 10	< 1	0.04	< 10
BB 33885	94069407	0.24	1	< 0.2	0.45	6	< 10	220	< 0.5	2	0.52	< 0.5	3	16	20	1.12	< 10	< 1	0.07	10
BB 33886	94069407	0.24	3	0.6	0.80	22	< 10	470	< 0.5	4	1.35	0.5	17	46	66	3.12	< 10	< 1	0.06	< 10
BB 33887	94069407	0.22	< 1	0.4	0.83	10	< 10	520	< 0.5	4	0.66	0.5	10	34	24	2.58	< 10	< 1	0.04	< 10
BB 33888	94069407	0.18	5	0.6	0.60	16	< 10	350	< 0.5	8	5.43	1.5	15	31	45	2.52	< 10	< 1	0.05	< 10
BB 33890	94069407	0.28	9	1.2	0.35	52	< 10	80	0.5	28	0.49	3.0	107	481	58	>15.00	< 10	8	0.03	< 10
BB 33891	94069407	0.20	< 1	0.8	0.99	12	< 10	520	0.5	4	0.73	1.0	15	38	44	3.00	< 10	< 1	0.15	< 10
BB 33892	94069407	0.30	6	0.8	0.97	22	< 10	400	0.5	6	0.84	0.5	15	56	66	2.75	< 10	< 1	0.06	10
BB 33893	94069407	0.20	5	0.8	0.75	24	< 10	460	< 0.5	< 2	4.82	4.0	11	29	52	2.29	< 10	< 1	0.08	10

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218



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C/O ARCHER, CATHRO & ASSOCIATES (1981) LTD.
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VANCOUVER, BC
V6B 1L8

Project : SPICE
Comments:

Page No. : 1-B
Total P. : 1
Certificate Date: 12-JUL-2002
Invoice No. : 10219464
P.O. Number :
Account : RCM

CERTIFICATE OF ANALYSIS

A0219464

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB 33875	94069407	0.27	160	8	0.01	85	540	28	0.10	42	2	18	0.01	< 10	< 10	55	< 10	118
BB 33876	94069407	0.32	170	3	0.01	30	1020	32	0.15	22	1	32	0.02	< 10	< 10	44	< 10	120
BB 33877	94069407	0.13	110	3	< 0.01	67	590	16	0.06	112	3	45	< 0.01	< 10	< 10	33	< 10	114
BB 33878	94069407	0.23	1315	1	0.01	47	1270	44	0.06	12	1	27	0.01	< 10	< 10	25	< 10	208
BB 33879	94069407	0.28	755	3	0.01	70	910	26	0.40	10	3	25	0.01	< 10	< 10	26	< 10	192
BB 33880	94069407	0.30	510	2	< 0.01	37	510	24	0.04	22	3	28	0.02	< 10	< 10	57	< 10	140
BB 33881	94069407	0.34	240	1	< 0.01	27	500	20	0.01	6	1	13	0.02	< 10	< 10	37	< 10	80
BB 33882	94069407	0.33	275	3	0.01	55	890	18	0.03	4	5	50	< 0.01	< 10	< 10	46	< 10	154
BB 33883	94069407	0.21	350	4	< 0.01	40	870	14	0.01	2	3	25	< 0.01	< 10	< 10	33	< 10	156
BB 33884	94069407	3.25	265	< 1	0.10	27	2420	4	0.50	< 2	1	2780	0.01	< 10	< 10	18	< 10	86
BB 33885	94069407	0.30	55	1	0.01	15	1390	16	0.13	< 2	2	78	< 0.01	< 10	< 10	26	< 10	80
BB 33886	94069407	0.78	400	3	0.01	117	940	16	0.04	6	5	58	< 0.01	< 10	< 10	44	< 10	116
BB 33887	94069407	0.52	395	1	0.01	41	470	18	0.04	2	3	57	< 0.01	< 10	< 10	40	< 10	68
BB 33888	94069407	1.06	480	1	0.01	75	870	16	0.11	2	4	263	< 0.01	< 10	< 10	29	< 10	108
BB 33890	94069407	0.16	650	20	< 0.01	1340	440	4	0.19	62	22	17	< 0.01	< 10	< 10	23	< 10	38
BB 33891	94069407	0.36	980	1	< 0.01	89	1210	20	0.04	4	5	57	< 0.01	< 10	< 10	52	< 10	158
BB 33892	94069407	0.64	335	3	0.02	197	520	20	0.15	14	4	56	< 0.01	< 10	< 10	35	< 10	92
BB 33893	94069407	0.82	370	17	0.01	79	1180	20	0.08	10	3	124	< 0.01	< 10	< 10	68	< 10	282

CERTIFICATION: _____

APPENDIX III

SPECIMEN DESCRIPTIONS AND ROCK FRAGMENT DATA

100/40 N
SILSTONE
SPECIMEN SITE A, B, ...: DO NOT WRITE ON OTHER SIDE OR USE COLOURS
L.S. GOSSANS, OBSERVED GEOLOGY: DEFINED
COURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS,
DO NOT FORGET
MINERALS

Project SITE	NTS	Scale	Page 1	of 2	Traverse
Sampler WEN6	Location, Target (words) <u>Rock Sample</u>		Sample Nos		
Date <u>June 18/02</u>	Descriptions - <u>DOES NOT</u> include Auger photo no. <u>None</u> <u>Rock Samples</u>		Cert. Nos		
SAMPLE	#	LOCATION	DESCRIPTION		
M010503	3+50 W, 1+00 S (316 ppb Au.)		GREY WHITE CHERT FLOAT - ANGULAR up to 15 cm on a side. CROSS CUT BY HAIRLINE BLACK STRINGERS BUT TOO FINE GRAINED TO TELL IF SULPHIDES ARE PRESENT.		
M010504	3+50 W, 1+00 S "		WEAK TO MODERATE OXIDE COATINGS ON dark grey conglomerate float. CLASTS ARE QUARTZITES TO CHERTS AND less siliceous phyllite.		
M010506	346937E, 6876790 N		ANGULAR SLAB OF MICACEOUS QUARTZITE - GREY/WHITE WEATHERING. BROKEN SURFACES EXHIBIT FILMS or VENEERS OF RED-BROWN OXIDE. SOME AREAS CONTAIN RESIDUAL LIMONITE. MINOR CROSS-CUTTING (to fol) dark stringers.		
M010507	346862E, 6876474 N		GREY to WHITE CHERT WITH WEAK TO MODERATE HAIRLINE BLACK STRINGER STOCKWORK THROUGHOUT. (PATRICK).		
M010508	1+37 W, 0+45 S		DARK GREY fine grained quartz-feldspar porphyry on edge of large conglomerate subcrop. Mineralized with 5-8% fine silvery pyrite & possibly another sulphide other than pyrite. ALTHOUGH not fully exposed, the py unit appears to be quite thin (< 1m).		
M010509	346879E, 6876333 N		SUB angular dark green mafic volcanic (weakly to moderate magnetic). AREAS ARE BRECCIATED AND treated with epidote & minor (TR) pyrite.		
M010510	346830E, 6876223 N (JB-001-04)		BLACK QUARTZITE - very vuggy with almost DRUSY CAVITIES. SOME SURFACES CONTAIN FILMS OF graphite AND REMNANT GREY TO RED/BLACK OXIDE PITS.		
M010511	346927E, 6876344 N		MEDIUM GREEN mafic volcanic with narrow quartz-epidote fractures.		
M010512	0+75 W, 2+00 S		MEDIUM to dark green mafic volcanic with ~1% fine blebby pyrite irregularly disseminated throughout float slab - TRACE chalcopyrite. NON MAGNETIC - SOME AREAS EXHIBIT MILD BRECCIATION.		
M010513	0+35 W, 1+35 S		Isolated subcrop/slab of MICACEOUS QUARTZITE (MUSCOVITE). STRONG OXIDATION ON MOST BROKEN SURFACES - RED/BROWN/ orange, on fractures, as pit and vernalts.		
M010514 JB-001-02	1+50 W, 1+00 S		grey-white chert with strong black veinlet stockwork. Similar material to the photo of pebble that ran 1.05 g/t Au.		
M010566	3+10 W, 1+90 S		SMALL FRAGMENTS of yellow stained & surface oxidized porphyry in what MAY BE A pseudo "kill zone" on HEIGHT of LAND. MODERATELY ABUNDANT IN 30 x 10 m AREA.		
M010567	3+10 W, 1+90 S		3 or 4 small rounded fragments of ? STRONGLY PITTED AND STAINED DEEP RED - MODERATE LEACHING HAS OCCURRED		
M010574	3+40 W, 1+20 S		YELLOW-WHITE BLEACHED RHYOLITE TUFF FROM 'KIDNEY SHADE' BLAST TRENCH. THIS MATERIAL IS ABUNDANT & NOT GREATER THAN 5 cm on a side. GOOD Attention!		
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DO NOT FORGET COURSE, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, L.S. GOSSANS, OBSERVED GEOLOGY: DEFINED - INFERRED - ASSUMED
MINERALS
DOLOMITE
SLIT X SOIL
ROCK
PAN
WATER
O

Project	SPICE	NIS	Scale	Page 2 of 2	Traverse
Sampler	WENB	Location, Target (words) Rock Sample Description		Sample Nos	
Date	JUNE 20/02	- NOT Including Auger Samples. photo no.		Cert. Nos	
SAMPLE #	LOCATION	DESCRIPTION			
MO10589	4+15W, 0+25S	CHERT/RHYOLITE (?) - WHITE ON FRESH SURFACE AND WEAK YELLOW STAINING ON FRACTURE SURFACES. ABUNDANT HAIRLINE BLACK STOCKWORK THROUGHOUT SOME OF WHICH CONTAIN FINE GRAINED PYRITE. Boulder on Height of Land (30x20x20 cm).			
MO10625	0+45W, 100S	EXTREMELY CLAY ALTERED RHYOLITE TUFF COBBLES AND FRAGMENTS.			
MO10655	347091E 6875315 N	LISTWANITE FLOAT WITH RED LIMONITIC BOXWORK SELVAGE. Minor clear & Black quartz stringers // to long direction of fracture (?).			
MO10654	347117E 6875300 N	RED BOXWORK LIMONITE ON selvages of moderately brecciated listwanite. Float is coming from 050° trending gully. cutting LISTWANITE PACKAGE			
MO10656	347155E 6875281 N	3 to 5 cm quartz vein float (local) with carbonate filled vugs (orange weathering).			
**	" "	outcrop - fracture orientation (dominant) 024°/74 ESE.			
MO10657	347174E 6875270 N	GREY-BLACK Si-rich fragments scattered across south slope within listwanite alteration zone. All are carbonate altered and have red-orange oxide on weathering and broken surfaces			
MO10658	25m SE from post 28, 30, 31, 32	GREY MILLED BRECCIA vein with Black rounded fragments and minor orange pits. ~1m but not fully exposed. 043° TREND.			
MO10659	347294E 6875343 N	strange feldspar porphyry with pale green to red green matrix. feldspars altered to white clay - carbonate altered with calcite stringers and orange oxide on many surfaces. Roughly 040° TREND. strongly carb act. is falling off laterally E.			
MO10660	347385E 6874649 N	TRACE BLENDS OF PYRITE LISTWANITE. MARIPOSITE & w/ FLUCTITE.			
MO10661	347264E 6874633 N	DARK RED STAINED LISTWANITE pieces / fragments with manganese SURFACE STAINING AND MINOR to moderate PITTING.			
MO10662	347188E 687426	DOWN AT LAKE SHORE. YELLOW/GREEN OXIDE SURFACE WEATHERING ON GREY QUARTZITE (High Si) (could be silification of a different rock type). Mineralized with fine disseminated pyrite and fine masses in areas of graphite concentrations along fractures and in pockets			
MO10663	"	15m east along shore. same type of material.		All THREE samples from large angular float section along 50m section of shore. NOT of slicken sides..	
MO10664	"	30m east along shore. composite from 5 large shbs - same as above.			
MO10665	346999E 6875945 N.	WEAK YELLOW-ORANGE surface weathered silica altered clastic - THESE ROCKS ARE TOUGH TO DISTINGUISH IE ALTERED clastic or fine tuffs. weakly mineralized with fine disseminations of pyrite and patchy limonite. Some areas are weakly cracked leaving good oxidized open spaces.			
MO10666	347090E 6876021 N	DEEP ORANGE-red weathering LISTWANITE with abundant mariposite. Broken surface exhibits abundant hairline black stringers and secondary (?) calcite/quartz veining.			
MO10667	LAKE SHORE EAST OF ↑	strongly Si Altered clastic or tuff. yellow-grey-orange surface weathering plus mariposite in matrix. Some cracked vugs with remnant boxwork and moderate fine dissem py.			
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All THREE samples from large angular float bench along 50m section of shore. NOT of slicken sides!!

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COURSES, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, T
DOLOMITE
DON'T FORGET CO
MINERALS

Project	NTS	Scale	Page of	Traverse
Sampler	Location, Target (words)		Sample Nos	
Date	photo no.	Cert. Nos		
Grid Co-ord	Sample #	Rock Frags Present	Pit depth	
0+00W, 1+00S	M-010519	90% cal frags, 3% ppy, 3% rhy, 4% ox high clay det.	122 cm	
0+00W, 0+77S	M-010517	40% sur. ox, 25% cgl, 15% rhy, 10% phy, 5% unknown * high clay det.	83 cm	
0+00W, 1+00S	M-010518	60% cal, 25% rhy, 3% ppy, 2% gtz, 10% s. ox high clay det.	98 cm	
0+00W, 0+45S	M-010516	50% cgl, 25% rhy, 5% sur. ox, 10% gtz, 10% unk. * high clay det.	93 cm	
0+00W, 0+45S	M-010515	75% cgl, 15% rhy, 5% surt. ox, 5% unknown	115 cm	
1+00W, 1+25S	M-010529	40% rhy, 15% volcanic, 10% ppy, 20% cgl, 15% other	69 cm	
1+00W, 1+50S	M-010528	45% rhy, 45% cgl, 5% sur. ox, 5% unknown	30 cm	
1+00W, 1+75S	M-010527	40% rhy, 40% alt rhy, 10% sur. ox, 10% cgl	30 cm	
0+06W, 2+00S	M-010525	55% alt rhy, 35% rhy, 10% cgl	48 cm	
0+00W, 1+75S	M-010524	70% cgl, 20% alt rhy, 3% ppy, 7% unk.	69 cm	
0+00W, 1+50S	M-010523	98% rhy, 2% alt rhy	140 cm	
0+00W, 1+50S	M-010522	98% rhy, 2% alt rhy	98 cm	
0+00W, 1+25S	M-010521	80% rhy, 15% surt. ox, 5% unknown	65 cm	
1+50W, 1+00S	M-010539	80% rhy, 10% cgl, 5% alt rhy, 2% volcanic, 3% unk.	60 cm	
1+00W, 1+00S	M-010530	75% rhy, 5% alt rhy, 10% volcanic, 5% cgl, 5% unk	60 cm	
1+50W, 0+75S	M-010538	70% volcanic, 15% cgl, 10% rhy, 5% unk.	40 cm	
1+50W, 0+50S	M-010537	50% rhy, 25% alt rhy, 15% cgl, 10% unk.	42 cm	
1+50W, 0+25S	M-010536	80% cgl, 10% rhy, 10% unknown * high clay det.	70 cm	
1+00W, 0+00S	M-010535	85% cgl, 10% rhy, 5% unknown	135 cm	
1+00W, 0+00S	M-010534	80% cgl, 5% phy, 10% rhy, 5% unknown	93 cm	
1+00W, 0+25S	M-010533	60% cgl, 25% rhy, 10% sur. ox, 5% unknown	100 cm	
1+00W, 0+50S	M-010532	45% cgl, 45% alt rhy, 10% rhy	50 cm	
1+00W, 0+75S	M-010531	5% volcanic, 50% rhy, 35% alt rhy, 5% gtz, 5% unk	50 cm	
2+00W, 1+25S	M-010549	30% rhy, 25% volcanic, 20% cgl, 10% phy, 15% other	37 cm	
1+50W, 1+75S	M-010543	40% alt ppy, 30% rhy, 20% cgl, 5% alt rhy, 5% unk	93 cm	
1+50W, 1+50S	M-010542	30% cgl, 30% volcanic, 30% sur. ox, 10% unknown	25 cm	
2+00W, 1+25S	M-010548	75% volcanic, 5% rhy, 20% cgl	37 cm	
2+00W, 1+50S	M-010547	30% rhy, 30% cgl, 30% alt rhy, 10% ppy	57 cm	
2+00W, 1+75S	M-010546	45% cgl, 25% rhy, 20% ppy, 10% unknown	35 cm	
1+50W, 1+25S	M-010540	35% volcanic, 35% cgl, 15% rhy, 15% unknown	35 cm	
1+50W, 2+00S	M-010544	80% phy cgl, 15% rhy, 5% unknown	70 cm	
2+00W, 2+00S	M-010545	45% cgl, 45% ppy, 5% mica, 5% unknown	39 cm	
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Spice Auger Samples

Coarse Fraction Composition

1/4

10502	95% phyll	5% rhyal		
501	only one	rhyal frag		
643	98 cong	2 rhyal		
645	70 rhyal	30 cong		
652	100 cong			
647	60 rhyal	40 cong		
642	98 cong	2 rhyal		
653	97 cong	2 rhyal	1 unkn	
649	90 cong	10 rhyal		
648	50 cong	29 rhyal	20 alt rhyal	1 unkn
651	95 cong	5 rhyal		
646	85 rhyal	9 cong	2 alt rhyal	4 brick red hematite
644	75 rhyal	24 cong	1 alt rhyal	
650	96 cong	3 rhyal	1 alt rhyal	
641	50 phyll	40 alt rhyal	10 cong	
639	90 phyll	10 cong		
640	35 phyll	30 cong	30 alt rhyal	5 rhyal
638	85 cong	15 rhyal		
637	85 cong	15 rhyal		
618	90 rhyal	5 phyll	5 unkn	
616	89 cong	10 rhyal	1 alt rhyal	
617	95 cong	5 phyll		
611	50 cong	39 phyll 10 rhyal	1 alt rhyal	
609	50 phyll	45 cong	3 rhyal	2 unkn
608	45 phyll	40 cong 12 rhyal	3 alt rhyal	
614	50 cong	45 phyll 5 rhyal		
615	65 cong	34 rhyal	1 unkn	
613	65 cong	30 phyll 5 rhyal		
610	45 cong	35 phyll 20 rhyal		

1	MO10612	60 rhyt	20 phyll	15 cong	5 unkn
	632	96 cong		3 rhyt	1 unkn
	635	40 cong	35 alt rhyt	25 phyll	
	620	77 cong		20 rhyt	3 alt rhyt
	634	60 cong	37 phyll	3 rhyt	
	628	98 rhyt	2 phyll		
	633	98 cong	2 rhyt		
	624	82 rhyt	15 alt rhyt	3 cong	
	626	85 rhyt	15 cong		
	627	95 rhyt	5 cong		
	622	60 cong	40 rhyt		
	629	96 rhyt	2 alt rhyt	2 cong	
	621	98 cong	2 rhyt		
	631	50 cong	30 phyll	20 alt rhyt	
	630	50 cong	30 phyll	20 rhyt	
	619	75 cong	25 rhyt		
	623	92 rhyt	3 cong	5 alt rhyt	
	636	82 cong	10 phyll 5 rhyt	3 alt rhyt	
	601	88 cong	10 rhyt	2 alt rhyt	
	603	70 cong	20 rhyt	10 alt rhyt	
	604	70 phyll	20 cong	10 rhyt	
	599	65 cong	20 phyll	15 rhyt	
	600	75 cong	25 rhyt		
	606	97 phyll	3 rhyt		
	598	70 phyll	30 cong		
	605	40 cong	37 phyll	20 rhyt	3 alt rhyt
	602	60 rhyt	25 alt rhyt	15 cong	
	597	75 phyll	25 cong		
	607	85 phyll	15 rhyt		

M 010594	80 cong	10 phyll	8 rhyt	2 altrhyt
584	65 rhyt	35 cong		
593	98 cong	2 rhyt		
592	90 cong	10 rhyt		
587	100 cong			
583	50 cong	50 rhyt		
581	95 phyll	5 cong		
585	75 cong	20 phyll	5 rhyt	
591	70 rhyt	30 cong		
586	70 cong	30 rhyt		
590	60 cong	30 phyll	10 rhyt	
580	58 cong	40 rhyt	2 altrhyt	
582	90 phyll	5 rhyt	5 cong	
588	50 altrhyt	10 rhyt	40 phyll	
595	76 phyll	20 cong	2 rhyt	2 altrhyt
596	65 cong	25 altrhyt	10 rhyt	
570	80 rhyt	10 cong	10 phyll	
571	70 rhyt	15 phyll	10 cong	
578	60 altrhyt	20 rhyt	20 cong	
573	85 rhyt	15 cong		
576	85 rhyt	15 cong		
577	55 cong	40 rhyt	5 red hematite nuch	
579	80 cong	20 rhyt		
575	98 rhyt	2 cong		
558	80 cong	20 rhyt		
557	90 cong	10 rhyt		
565	40 cong	30 phyll	30 rhyt	
564	50 cong	40 rhyt	10 phyll	
563	75 cong	15 altrhyt	10 rhyt	

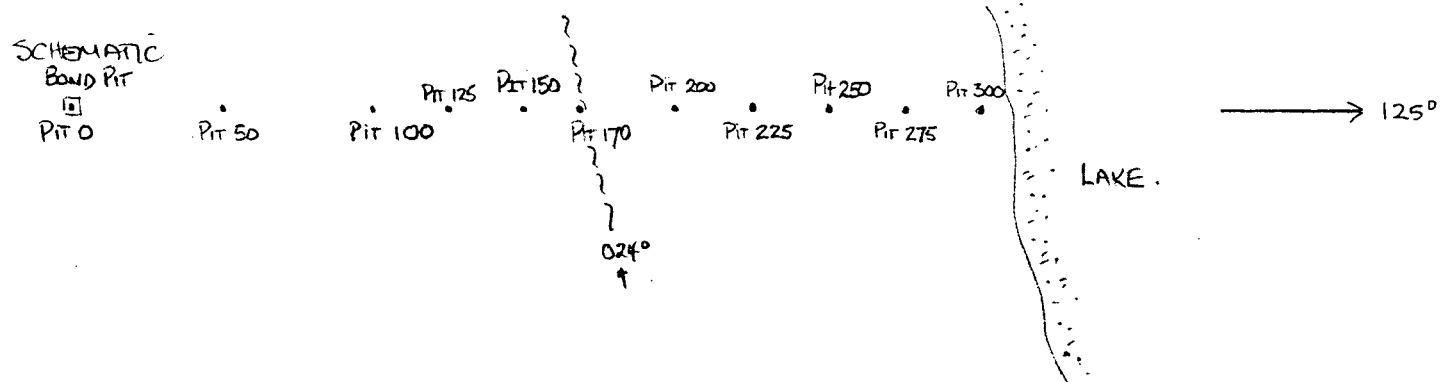
M010555	50 rhyt	50 cong		
556	85 rhyt	15 cong		
559	80 rhyt	20 cong		
562	60 rhyt	35 alt rhyt	5 cong	
569	50 rhyt	30 phyll	20 cong	
560	80 rhyt	18 cong	2 red hematite rich	
561	80 alt rhyt	10 rhyt	10 cong	
568	90 rhyt	5 phyll	5 cong	
551	50 rhyt	20 phyll	30 cong	
545	75 rhyt	20 cong	5 phyll	
547	95 rhyt	4 phyll	1 red he rich	
554	35 cong	30 phyll 30 rhyt	5 red he rich	
552	65 ppy	25 rhyt	10 cong	
546	35 cong 15 phyll	25 rhyt 15 alt rhyt	10 red he rich	
550	96 green volc	2 rhyt	2 red he rich	
549	80 rhyt	10 phyll	9 cong 1 green volc	
553	60 cong	20 alt rhyt	20 rhyt	
548	70 green volc	25 red he rich	5 rhyt	

APPENDIX IV

HAND PIT DESCRIPTIONS AND TRENCH MAPS

Sampler WEN16	Location, Target (words)	Sample Nos
Date June 25.102	Hand Pits upice from 13glt Au pit. photo no.	Cert. Nos

* A LINE OF HAND PITS WAS PUT IN AT 125° (upice direction) from Band PIT at HSDW, 100S. PITS WERE EXCAVATED AT 25 & 50 m INTERVALS.



Pit 0 : 150 cm (BOTTOM) IN BASAL TILL)

0-10 cm : organic + ash

[BB33881] 10-22 cm : red-brown SILTY SOIL

22-150 cm : brown-grey basal till WITH ABUNDANT Angular to subangular white Rhyolite boulders to fragments.

[NO10668] Profile Minor sulphide (py) blebs in some samples. An exhibit strong black hairline strockwork AND secondary clear silica stringers.

[NO10669] random white rhyolite from spill pile. 1 Piece of white clay altered Rhyolite and 1 piece of x-shattered grey-white rhyolite.

No OXIDE pockets in till.

PIT 50: 140 cm (Bottomed in Basal Till).

0-10 cm: organic + ash.

[BB33880] 10-15 cm: red-brown silty soil

15-140 cm: GREY-BROWN SILTY CLAY TILL WITH Abundant sub angular grey-white rhyolite boulders to fragments (dominant). Assorted other cobbles.

[M010670] PROFILE

[M010671] white rhyolite from spin pit

[M010672] shattered Rhyolite with graphite darkens limonite.

Rhyolite has usual black K-feldspar stockwork and minor visible pyrite & silver sulphide flecks & filus.

Pit 225: 140 cm (could Dig Any more).

0-10 cm: organic and ash

[M010681] 10-30 cm: concentration of blocky angular white Rhyolite with black flanne stockwork. (5-20 cm on a side).

30-50 cm: Grey-Brown till with subangular to subrounded pieces of assorted rock.

50-140 cm: BLACK CLAY gouggy soil with 90% black-grey quartz phyllite. Moderate graphite on some surfaces. Abundant pockets and seams of PALE green-yellow shaled/gouggy RHYOLITE tuff?

[M010690] profile.

[M010673] 17-60a; brown silty clay fill with assorted rounded pebbles to cobbles.

[M010686] 90-110m: Moderately fractured white rhyolite with minor to moderate black halite stockwork veins.

MINERALS DOLOMITE SILSTONE

MINERALS
INTRUSIVE   DOLOMITE  SILT  SILTSTONE 

MINERALS  INTRUSIVE  DOLOMITE  GULL  GULL     DO NOT WRITE ON OTHER SIDE OF ISOPROTHENE SHEET

MINERALOGY

MINERALS		INTUITIVE	$x^2 + x$	DOLOMITE		MINERAL		MINERAL	
----------	---	-----------	-----------	----------	---	---------	---	---------	---

MINERALS DOLOMITE SILT X SOIL ROCK PAN WATER O DO NOT FORGET COURSE, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, T.S. G.OSSANS, OBSERVED GEOLOGY: DEFINED INFERRED ASSIGNED ALTITUDES (X 100/40 N) SILSTONE

Project	NTS	Scale	Page 2 of 2	Traverse
Sampler	Location, Target (words)		Sample Nos	
Date	photo no.		Cert. Nos	
UTM Co-ord	Spice Claim #	Grant #	Soil Sample #	
0346185 E ± 6m 6876112 N	28727 No.1	YB93628 YB93627	BB-33893	
0346592 E ± 8m 6875891 N	27828 No.2 29330 No.1	YB936283627 YB936298630	BB-33892	
0346877 E ± 3m 68755481 N	29830 No.2 31332 No.1	YB936298630 YB936313632	N.S.	
0347192 E ± 4m 6875311 N	31332 No.2 33834 No.1	YB936318632 YB936338634	BB-33891	
0347552 E ± 4m 6874966 N	33834 No.2	YB936338634	N.S.	
0347290 E ± 5m 6874639 N			BB-33890	
347392 E 6876265 N	SPICE 11,12 No.1's		BB 33888	
347793 E 6876003 N	SPICE 13,14 No.1's		BB 33887	
348156 E 6875758 N	SPICE 13,14 No.2's		BB 33886	
348662 E 6876403 N	SPICE 25,26 No.2's		N.S.	
348306 E 6876656 N	SPICE 25,26 No.1's		BB33885 BB33884	
347960 E 6876913 N	SPICE 23,24 No.1's		BB33883	
347596 E 6877183 N	SPICE 21,22 No.1's		BB33882	
347249 E 6877447 N	SPICE 19,20,35,36		N.S.	
Lake Shore	SPICE 35,36 No.2		N.S.	

Rock Sample Descriptions

Project: SPICE

Property:

DEEPENED Pit 0 : 4.46 s/w Aug.

Page 1 of

Sample Number: M011503 Grid North: N Grid East: E Type: PROFILE Dimension: _____
 UTM: N UTM: E Sample Width: 2.12 - 2.42m Abundance: _____
 Elevation: m

Comments: MEDIUM GREY, CRUSHED conglomerate AND/OR separated conglomerate fragments
 plus fine grained porphyritic conglomerate (feldspar clasts). Some of the latter contains minor pyrite
 and unidentified silvery sulphide. Minor white rhyolite with graphitic fractures.

Sample Number: M011504 Grid North: N Grid East: E Type: Profile Dimension: _____
 UTM: N UTM: E Sample Width: 1.92 - 2.12m Abundance: _____
 Elevation: m

Comments: GREY SOUGE WITH MINOR YELLOW-GREEN PATCHES.

Sample Number: M011505 Grid North: N Grid East: E Type: Profile Dimension: _____
 UTM: N UTM: E Sample Width: 1.42 - 1.92m Abundance: _____
 Elevation: m

Comments: Brown soil with dominantly (90%) white-grey rhyolite fragments to
 boulders (are v. angular) with minor to moderate graphitic fractures.
 * No oxidation on any rhyolite pieces. - Very low Sx system.

Sample Number: M011506-511 Grid North: N Grid East: E Type: _____ Dimension: _____
 UTM: N UTM: E Sample Width: _____ Abundance: _____
 Elevation: m

Comments: SEE TRENCH MAP A.

Sample Number: M011512 Grid North: N Grid East: E Type: _____ Dimension: _____
 UTM: N UTM: E Sample Width: _____ Abundance: _____
 Elevation: m

Comments: Pit 12m north of Pit 0 along sample line.
 2m x 2m x 1.2m.
 Sampled highly fractured white rhyolite + grey soil mix from 0.7 to 1.2m.

Sample Number: _____ Grid North: N Grid East: E Type: _____ Dimension: _____
 UTM: N UTM: E Sample Width: _____ Abundance: _____
 Elevation: m

Comments:

MINERALS
DOLomite
SILT X SOIL
ROCK
PAN
WATER
DO NOT FORGET COURTESY, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, T.C.S. GOSSANS, OBSERVED GEOLOGY: DEFINED - INFERRED - ASS
SPECIMEN SITE A, B, ... DO NOT WRITE ON OTHER SIDE OR USE COLOURS
SILISTONE
100/40 N

Project	SPICE	NTS	Scale	Page 1 of 2	Traverse
Sampler	PARICK	Location, Target (words)		Sample Nos	
Date	June 27/02	Down ice line from Listwanite Knob photo no. nearest camp.		Cert. Nos	

Till Pit 1 0m: 0347076 E ± 6m
6876029 N

→ 15m down ice of listwanite bedrock knob

0-15cm - ash & organic

15-50cm - sandy silt w/ angular clasts up to 3cm

- green grey
- few oxidized clasts present

[M-010692] 50-60cm - silty clay
- grey green
- basal till?

Till Pit 2 50m: - low lying area
- sample chipped from top of frozen till

0-30cm - mixed ash & organic

30-35cm - frozen till

[M-010693] - grey
- silty clay
- few oxidized clasts present.

Till Pit 3 100m: till plain

0-15cm - mixed ash & organic

15-55cm - green grey till

[M-010694] - silty clay
- almost no clasts
- basal till

Till Pit 4 150m: shallow South facing slope

0-5cm - organic

5-20cm - ash

20-25cm - orange/red soil

25-60cm - silty sand

- clasts up to 5cm

- some oxidized clasts present

- ablation till?

- orange brown

60-70cm - silty clay

- green gray till

- basal till

- clasts up to 3cm

[M-010695]

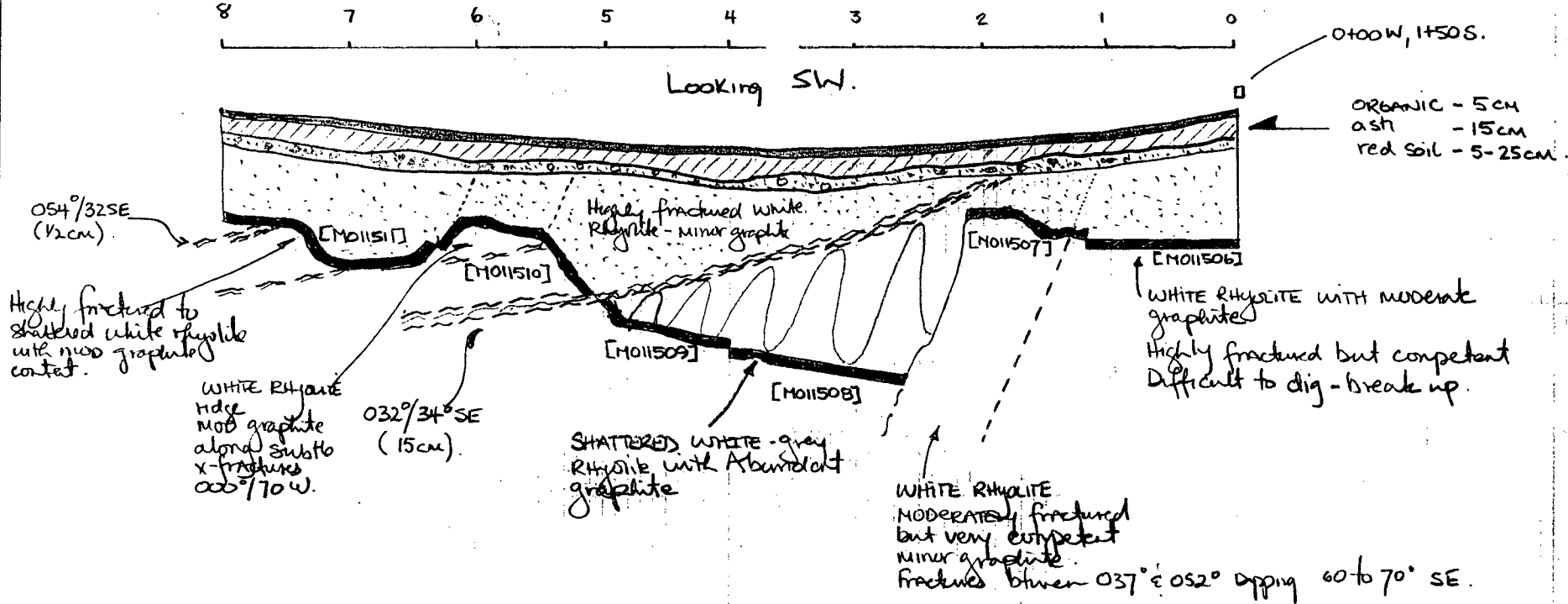
MINERALS
DOLOMITE
SILT X
SOIL
ROCK
PAN
WATER
DON'T FORGET
COURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, L.S. GOSSANS, OBSERVED GEOLOGY: DEFINED
SPECIMEN SITE A, B, ... DO NOT WRITE ON OTHER SIDE OR USE COLOURS
SILICSTONE
100/40 N
INFERRED
ASSED

Project	NIS	Scale	Page 2 of 2	Traverse
Sampler	Location, Target (words)		Sample Nos	
Date	photo no.		Cert. Nos	

Till Pit 5 200m: near top of small height of land
1m from igneous erratic w/minor sulphides.
0-5cm - organic
5-15cm - ash
15-20cm - orange/red soil layer
20-60cm - grey green clayey silt
- darkens to dark grey at bottom of pit
- moderate # of oxidized clasts throughout
- angular clasts.
[M-010696]

Till Pit 6 250m: near top of small height of land
shallow SE facing slope.
0-15cm - organic & ash
15-25cm - red/orange soil layer
25-65cm - clayey silt
- Subangular to angular clasts
- green grey
- oxidized clasts present
[M-010697]

Till Pit 7 300m: till plateau
1m from JB01-001-04 & M-010510
0-20cm - mixed ash & organic
20-65cm - grey green till
- very compact
- clayey silt
- max clast 4cm
- angular to subangular clasts
[M-010698]

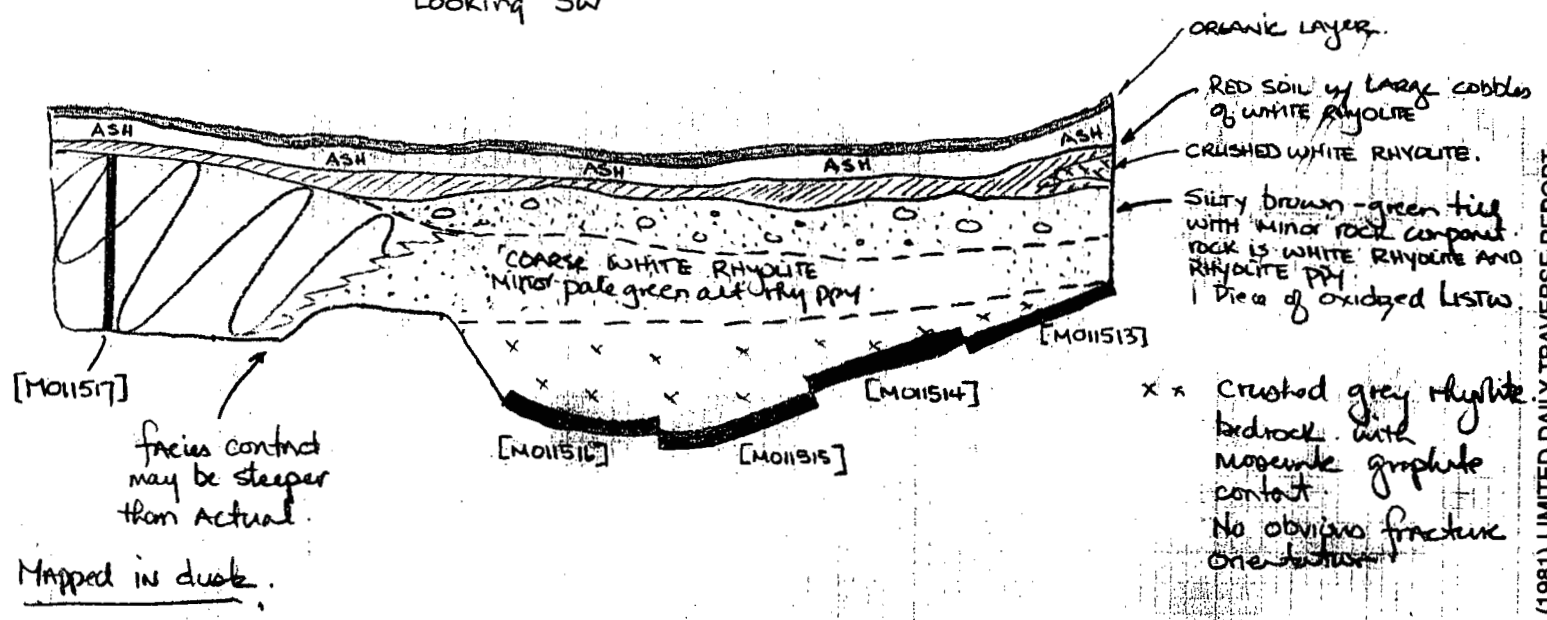


Project	SPICE	NTS	Scale	1:50	Page	of	Traverse
Sampler	WENT	Location, Target (words)			Sample Nos		
Date	Aug 26/02.	photo no.			Cert. Nos		

TRENCH 024° GULLY "B"



Looking SW



ALTITUDES 100/40 N
SILTSTONE
SPECIMEN SITE A, B, ... DO NOT WRITE ON OTHER SIDE OR USE COLOURS
C.S. GOSSANS, OBSERVED GEOLOGY: DEFINED
LAT/LONG, SAMPLE SITES, WORKINGS, MINERALS
DOLOMITE
INTRUSIVE
DON'T FORGET
MINERALS

Project SWICE	NIS	Scale	Page / of /	Traverse
Sampler WEN6	Location, Target (words) Recent Till sampling down ice photo no. from LISTWANITE ZONE.		Sample Nos	
Date June 27/02.			Cert. Nos	

M010699 : Pit 0.

~30cm deep in lowland AREA, frozen at depth.
Brown-grey till with small rounded clasts (fenestrics)

M010700 : Pit 100

~90 cm deep, stand of upland poplar forest.
10cm organic + ash
10cm red silty soil
60cm black soil

Sample → 10cm tan silty soil with rounded clasts.

@ 130m : Mild LISTWANITE (Mauquik) altered volcanic blocks
with calcite breccia veining - character sample taken.

M010701 : Pit 200.

~55 cm deep on gentle East facing slope.
0-20 cm organic + ash

Sample → 20-55cm light green-grey till with abundant listwanite altered
volcanics - angular.

M010702 : Pit 300

~50 cm deep
0-12cm : organic + ash
12-30cm : red silty soil

Sample → 30-50cm grey-brown till with listwanite altered volcanics + 1 cobble
of grey rhyolite.

M010703 : Pit 400

0-15cm : organic + ash
15-20 : red silty brown soil

Sample → 20-40cm : Light brown clay till grading into →
40-60 : dark grey phyllitic till.

M010704 : Pit 500

0-10 : organic + ash
10-20 : silty red-brown soil

Sample → 20-60 : grey sandy clay till with tiny rounded clasts

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

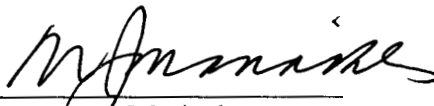


I, Joan Mariacher, of VANCOUVER, BC. make oath and say:

That to the best of my knowledge the attached Statement of

Expenditures for exploration work on the SPICE 1-14 & 19-36

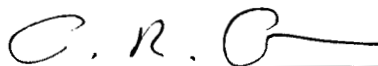
mineral claims on Claim Sheet 1056/134 is accurate.
105 J14


Joan Mariacher

Sworn before me at VANCOUVER, BC.

this 21ST day of

NOVEMBER, 2002


Notary Public, Yukon Territory

Statement of Expenditures
Spice 1-14 and 19-36 Mineral Claims
November 21, 2002

Labour

A. Archer – geologist – 2 hours July at \$66/hr	\$ 141.24
D. Eaton – geologist – 15 hours May to July at \$60/hr	963.00
B. Wengzynowski – geologist – 237 ½ hours May to September at \$60/hr	15,247.50
A. Burgert – geologist – 3 days August at \$400/day	1,284.00
P. Sack – field assistant – 19 days June to July at \$240/day	4,879.20
J. LeDrew – field assistant – 1 ½ days July to August at \$192/day	308.16
S. Eaton – field assistant – 1 day August at \$192/day	205.44
I. Korkh – field assistant – ½ day July at \$192/day	102.72
J. Manley – field assistant – 7 days August at \$192/day	<u>1,438.08</u>
	24,569.34

Expenses

Field room and board – 60 7/8 days at \$115/day	7,490.67
Trans North Bell 206 B – 4.9 hours at \$925/hr plus fuel	5,357.83
ALS Chemex	<u>4,500.91</u>
	17,349.41
	<u>\$41,918.75</u>

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

SPICE PROJECT

Date

MAY 31, 2002

LABOUR
Field

D. EATON - 1 HIL AT 60/HIL
B. WENGZYNOWSKI - 13 1/4 HIL AT 60/HIL

60.00
810.00

Office M. Cooke- hrs at \$39.15/hr

Accounting and Expediting J. Mariacher- 9 1/4 hrs at \$44.45/hr

422.28 1292.28

OTHER SERVICES

Room & Board in Whitehorse days at \$80/day

Field equipment from AC stock

Printing 137.80 Photocopies 263 @ .25

65.25

Rentals from AC

Drafting hrs at \$38.40/hr

65.25

EXPENSES

Petty Cash

Telephone 25.00

25.00

Home HOWE

229.99

JOAN M X/PENSES

03

491.43

1246.42

MANAGEMENT 6% on Expenses
on Field A/C

74.79

74.79
2679.24

GST (R100247667) 7% on 2679.24

187.55

E=GST exempt

2866.79

In Account With

Project

SPICE PROJECT

Date

JUNE 30, 2002

LABOUR				
Field	D. EATON - 1 HR AT 60/HR	400.00		
	B. WIENZYKOWSKI - 150 HRS AT 60/HR	9000.00		
	P. SACK - 17 DAYS AT 240/DAY	4080.00		
Office M. Cooke-		hrs at \$39.15/hr		
Accounting and Expediting	J. Mariacher-	17 hrs at \$44.45/hr	755.65	14255.65
OTHER SERVICES				
Room & Board in Whitehorse	5 days at \$90/day	450.00		
Field equipment from AC stock		895.50		
Printing	Photocopies 91 @ .25	22.75		
Rentals from AC JUNE 12-30	5BX 11 AT 10/DAY + 3-1CON'S AT 10/DAY	671.27		
	2- GPS AT 15.33/DAY			
Loonis Courier - 2 AT 13.85 EA		27.70		
Drafting	hrs at \$38.40/hr			2067.25
EXPENSES				
Petty Cash	1.4000 + 45.6901	47.09		
Telephone	25.42 + 35.75 + 3.83	65.00		
JON'S MACHINE SHOP		996.16		
A. ARCHER XEROX		23.36		
BARRY McALLAN 6088		78.02		
CORPORATE COURIERS		38.85		
TWIGGE SERVICES		37.29		
WESTERN EXPRESS		20.89		
BEAKIN EQUIPMENT		149.30		
NOLAN LEASING		1050.00		
NORTHERN METALIC		8.80		
SUNRISE SERVICE		46.73		
SHADEN DAVE		47.92		2607.57
MANAGEMENT 6% on Expenses		156.45		
on Field A/C		0		156.45
ST (R100247667) 7% on 19086.83				19086.83
				1336.08
=GST exempt				20422.91

In Account With

Date _____

SPICE PROJECT
JULY 31, 2002

LABOUR				
Field				
A. ADLER - 2 Hrs AT 66/Hr			132.00	
D. EATON - 7 Hrs AT 60/Hr			420.00	
O. WENZYNOWSKI - 8 Hrs AT 60/Hr			480.00	
P. SACK - 2 DAYS AT 240/DAY			480.00	
J. LEDREW - 1/2 DAY AT 192/DAY			96.00	
I. KORKH - 1/2 DAY AT 192/DAY			96.00	
Office	M. Cooke -	hrs at \$39.15/hr		
Accounting and Expediting	J. Mariacher -	21 hrs at \$44.45/hr	933.45	2637.45
OTHER SERVICES				
Room & Board in Whitehorse	2 days at 90	\$80/day	180.00	
Field equipment from AC stock				
Printing	Photocopies	@ .25		
Rentals from AC				
Drafting		hrs at \$38.40/hr		180.00
EXPENSES				
Petty Cash				
Telephone	13.53		13.53	
CHEMEX RE CORPORATE COURIERS	53		(23.05)	
GREYHOUND COURIERS			198.38	
RIVERDALE SUPER A			1133.45	
NORMAN LEASING			112.90	
TWIGG SERVICES			62.88	1498.09
MANAGEMENT 6% on Expenses				
			89.89	
			434.61	524.50
				4840.04
ST (R100247667) 7% on	4840.04			338.80
-GST exempt				
				5178.84

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

SPICE PROJECT

Date

AUGUST 31, 2002

LABOUR

Field

B. WENBZYNOWSKI - 53 HRS AT 60/Hr

3180.00

J. LEWREW - 1 DAY AT 191/DAY

191.00

S. EATON - 1 DAY AT 191/DAY

191.00

J. MANLEY - 7 DAYS AT 191/DAY

1344.00

Office M. Cooke-

hrs at \$39.15/hr

Accounting and Expediting J. Mariacher-

9 hrs at \$44.45/hr

400.05

5308.05

OTHER SERVICES

Room & Board in Whitehorse

7 days at 90/day

630.00

Field equipment from AC stock 24 MANDAYS AT 10/DAY

240.00

Printing

Photocopies 36 @ .25

9.00

Rentals from AC AUGUST 21-27 50X11 AT 10/DAY + 2 GRS AT 15.33/DAY
+ 2 1COMS AT 6.67/DAY

224.00

Drafting

hrs at \$38.40/hr

1103.00

EXPENSES

Petty Cash

Telephone 24.72 + 34.90

59.62

TWIGGE SERVICES

43.53

SUNRISE SERVICE

58.18

NORDAN LEASING - 169.31 + 351.13

564.48

B. WENB EXPENSES - 68.9601 + 115.580V

184.94

GREYHOUND COULIER

68.10

979.25

MANAGEMENT 6% on Expenses
on Field A/C

58.76

428.98

497.74

7888.04

GST (R100247667) 7% on 7888.04

552.16

E=GST exempt

8440.20

In Account With

Project

SDICE PROJECT

Date

SEPTEMBER 30, 2002

LABOUR

Field

B. WENGZYNOWSKI - 13 Hrs AT 60/Hr

780.00

A. BURGERT - 3 DAYS AT 400/DAY

1200.00

Office M. Cooke-

hrs at \$39.15/hr

Accounting and Expediting

J. Mariacher-

12 1/2 hrs at \$44.45/hr

555.63

2525.63

OTHER SERVICES

Room & Board in Whitehorse

5 days at ⁹⁰~~100~~/day

450.00

Field equipment from AC stock

Printing

Photocopies

160

@ ^{.15}~~.25~~

24.00

Rentals from AC

Drafting

hrs at \$38.40/hr

474.00

EXPENSES

Petty Cash

Telephone 20.52

20.52

PORTER CREEK SURETY

170.90

RIVELDALE SURETY

42.04

EILEEN'S PLACE

142.90

GREYHOUND CARRIER

39.72

MAC'S FIREWORKS

47.99

469.07

MANAGEMENT 6% on Expenses
on Field A/C

28.14

19.14

47.28

3525.98

GST (R100247667) 7% on

3525.98

246.82

E=GST exempt

3772.80

ACCOUNT NUMBER **ARCHATA**
INVOICE NUMBER **29492**
INVOICE DATE **30/06/02**
A/C TYPE **B406** AIRCRAFT REGISTRATION C **GFKD**
FLIGHT DATE **28/06/02**
PURCHASE ORDER NO.

CHARTERER **Atac Resources Ltd. B.I.W.**
BILLING ADDRESS **1016-510 W. HASTINGS STREET VANCOUVER, B.C. V6B 1L8**
FUEL & OIL X **FETB** TMTA FUEL USED **1.4** LITRES FROM **BULK YDM**

FROM	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
TO			
YDM →	7:55		Pick up
local →	8:08	.2	2 pass gear
YDM	8:26		1 sling load
	9:36	1.2	

Remit Payment To:
Trans North Helicopters
P.O. Box 8
Whitehorse, Yukon
Y1A 5X9

1.4 @ 925 1295 00

HOLDING TIME: @ / HR.

FUEL 159.6 @ .85 / LITRE 135 66

TERMS: PAYABLE UPON RECEIPT OF INVOICE.
2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS.
IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

X **B. Wapash** CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED)

INITIALS **B.W.** PILOTS SIGNATURE

ENGINEER'S NAME

SUB TOTAL 1430 66

GOODS & SERVICES TAX REGISTRATION NO. R121483135 100 15

TOTAL \$ 1530 81

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

ACCOUNT NUMBER **ARCHATA**
INVOICE NUMBER **29479**
INVOICE DATE **30/06/02**
A/C TYPE **B406** AIRCRAFT REGISTRATION C **GFKD**
FLIGHT DATE **14/06/02**
PURCHASE ORDER NO.

CHARTERER **Atac Resources Ltd. B.I.W.**
BILLING ADDRESS **1016-510 W. HASTINGS STREET VANCOUVER, B.C. V6B 1L8**
FUEL & OIL X **FETB** TMTA FUEL USED **1.4** LITRES FROM **BULK YDM**

FROM	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
TO			
YDM - local	1:38		Set out
	1:51	.2	2 pass gear
	1:56		1 sling load
	2:38	.7	
	2:51		
	3:18	.5	

Remit Payment To:
Trans North Helicopters
P.O. Box 8
Whitehorse, Yukon
Y1A 5X9

1.4 @ 925 1295 00

HOLDING TIME: @ / HR.

FUEL 159.6 @ .85 / LITRE 135 66

TERMS: PAYABLE UPON RECEIPT OF INVOICE.
2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS.
IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

X **B. Wapash** CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED)

INITIALS **B.W.** PILOTS SIGNATURE

ENGINEER'S NAME

SUB TOTAL 1430 66

GOODS & SERVICES TAX REGISTRATION NO. R121483135 100 15

TOTAL \$ 1530 81

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

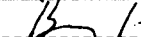
THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

ATAC RESOURCES
Archer, Cathro & Associates
 1016-510 W. Hastings St.
 Vancouver, B.C.
 V6B 1L8

ACCOUNT NUMBER	ARCHATA			
INVOICE NUMBER	29066			
INVOICE DATE			AREA	
3110802			B.C. YUKON N.W.T. ALTA.	
A/C TYPE		AIRCRAFT REGISTRATION C		
BH06		6TN4		
FLIGHT DATE	DAY	MONTH	YEAR	
	27	08	02	
PURCHASE ORDER NO.				

FUEL & OIL TNTA FUEL USED		HRS./LITRES		FROM		DATE	
Jct B		114		Ydm		210802	
PURCHASE ORDER NO.							
FROM		UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg			
Ydm →				2 pass & gear			
Spice →				1 sling load			
Ydm.							
Spice ↑							

Remit Payment To:
Trans North Helicopters
P.O. Box 8
Whitehorse, Yukon
Y1A 5X9

TERMS: PAYABLE UPON RECEIPT OF INVOICE. INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.		FUEL @ / LITRE		
 CHARTERER'S SIGNATURE		MEALS & LODGINGS		
CHARTERER'S NAME (PRINTED)		OTHER		
INITIALS 3106		OTHER		
 PILOT'S SIGNATURE		SUB TOTAL		1021 90
ENGINEER'S NAME		GOODS & SERVICES TAX REGISTRATION NO. R121483135		71 53
		TOTAL \$		1093 43

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY REFERENCE - PAY UPON RECEIPT

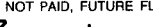


ATAC RESOURCES LTD.
Archer, Cathro & Associates
1016-510 W. Hastings St.
Vancouver, B.C.
V6B 1L8

ACCOUNT NUMBER	ARCHATA			
INVOICE NUMBER	29061			
INVOICE DATE				AREA B.C. YUKON NWT NTA
3 1 0 8 0 2				
A/C TYPE		AIRCRAFT REGISTRATION		
13406		G F N Y		
FLIGHT DATE	DAY	MONTH	YEAR	
	2	3	08	2
PURCHASE ORDER NO.				

FUEL & OIL ☒ TMTA FUEL USED TMTA COST.		HRS./LITRES		FROM	DATE 230802 PURCHASE ORDER NO.
		125.4		YDM	
FROM	TO	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg	
YDM →	SPIC →			2 pass gear	
	YDM			1 sling load	
Save \$					

Remit Payment To:
Trans North Helicopters
P.O. Box 8
Whitehorse, Yukon
Y1A 5X9

TERMS: PAYABLE UPON RECEIPT OF INVOICE. 2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.		FUEL @ / LITRE	
X  CHARTERER'S SIGNATURE		MEALS & LODGINGS	
CHARTERER'S NAME (PRINTED)		OTHER	
INITIALS  PILOT'S SIGNATURE		OTHER	
ENGINEER'S NAME		SUB TOTAL	
		GOODS & SERVICES TAX REGISTRATION NO. R121483135	
		TOTAL \$ 1202 78	

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE... PAY UPON RECEIPT



ALS Chemex

ALS Canada Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221

To: ATAC RESOURCES LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981) LTD.

1016 - 510 W. HASTINGS ST.

VANCOUVER, BC

V6B 1L8

INVOICE NUMBER

I 0 2 1 9 4 6 4

BILLING INFORMATION

Date: 31-JUL-2002

Project: SPICE ✓

P.O. No.:

Account: RCM

Comments:

Billing: For analysis performed on
Certificate A0219464

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

ALS CHEMEX

212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
18	- ME-ICP41	4.80*		
	- PREP-41	2.50		
	WEI-21 - Weight of received sample	0.00		
	Au-ICP21 - Au ppb: FA ICP package	8.10*	15.40	277.20
Additional charges:				
5	SCR-41/kg - -180 micron screen per kg charge	0.75		3.75
Total Cost \$				280.95
Client Discount (25% of \$48.75) \$				-12.19
Net Cost \$				268.76
(Reg# R100938885) GST \$				18.81
TOTAL PAYABLE (CDN) \$				287.57



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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LTD.
1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

INVOICE NUMBER

I 0 2 1 9 4 6 5

BILLING INFORMATION

Date: 31-JUL-2002
Project: SPICE 
P.O. No.:
Account: RCM

Comments:

Billing: For analysis performed on
Certificate A0219465

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

ALS CHEMEX
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
203	- ME-ICP41	4.80*		
	- PREP-31	6.00		
	WEI-21 - Weight of received sample	0.00		
	Au-AA26 - Au g/t: 50 g fusion - AA finish	8.40*	19.20	3897.60
1	WEI-21 - Weight of received sample	0.00	0.00	0.00
Additional charges:				
1	BAT-01 - Batch processing fee	30.00		30.00
128	CRU-31 - Crush to 70% -2mm per kg charge	0.20		25.60
128	SPL-21 - Riffle splitting charge per kg	0.05		6.40
Total Cost \$				3959.60
Client Discount (25% of \$1280.00) \$				-320.00
Net Cost \$				3639.60
(Reg# R100938885) GST \$				254.77
TOTAL PAYABLE (CDN) \$				3894.37



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO AND ASSOCIATES (1981)
LTD.
1016 - 510 W. HASTINGS ST.
VANCOUVER BC V6B 1L8

Page 1 of 1

INVOICE NUMBER: 1003902

BILLING INFORMATION

Certificate: **VA02003157**
Account: **RCM**
Date : **18-Sep-2002**
Project : Spice 
P.O. No.:
Quote:
Terms: **Net 30 Days**

QUANTITY	ANALYSED FOR		UNIT PRICE	TOTAL
	CODE	DESCRIPTION		
1	BAT-01	Administration Fee	22.50	22.50
15	PREP-31	Crush, Split, Pulverize	4.50	67.50
53.18	PREP-31	Wt. Charge (kg) - Crush, Split, Pulverize	0.19	10.10
15	Au-AA26	Ore Grade Au 50g FA AA finish	8.40	126.00
15	ME-ICP41	34 element aqua regia ICP-AES	4.80	72.00

SUBTOTAL \$ 298.10

GST R100938885 \$ 20.87

TOTAL PAYABLE (CAD) \$ 318.97

To: **ATAC RESOURCES LTD.**
ATTN: ACCOUNTS PAYABLE
C/O ARCHER, CATHRO AND ASSOCIATES (1981)
LTD.
1016 - 510 W. HASTINGS ST.
VANCOUVER BC V6B 1L8

Please Remit Payments to :

ALS Chemex
212 Brooksbank Avenue
North Vancouver BC V7J 2C1