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ACTION:

REPORT ON A
GEOLOGICAL MAPPING, GEOCHEMICAL
AND PROSPECTING PROGRAM

ON THE

ARROWSMITH/SINGAPORE PROPERTY
FOR BLUE SUN RESOURCE CORP.

VANCOUVER, B.C.

LOG NO: DEC 23 1991

RD.

ACTION: *DATA FROM
ARROWSMITH*

FILE NO:

ALBERNI & NANAIMO MINING DIVISIONS

DATE: MAY, 1991

NTS: 92F 2, 7

BY: W.C. DAY

LAT: 49° 09' N

B. Sc., P. GEOL.

LONG: 124° 37' W

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**G E O L O G I C A L B R A N C H
A S S E S S M E N T R E P O R T**

21,439

1. SUMMARY

- 1.1** The claims of subject in this report are contained in two groups; the Arrowsmith (Arrowsmith and Arrowsmith 2-4 claims) and the Singapore claim. The Arrowsmith claims comprise 76 units and are located 11 km East Southeast of Port Alberni in the Cameron River Valley and are centered at approximately $49^{\circ} 13' N.$ lat., $124^{\circ} 37' W.$ long. and can be found on NTS mapsheets 92F/2E and 92F/7E. The Singapore claim is comprised of 20 claim units and is located approximately 17 km southeast of Port Alberni in the China Creek Valley. This claim is centered at approximately $49^{\circ} 09' N.$ lat. and $124^{\circ} 37' W.$ long. on NTS mapsheet 92F/2E.
- 1.2** The Arrowsmith claims are underlain by Upper Palaeozoic rocks of the Sicker Group and Triassic Karmutsen Fm rocks of the Vancouver Group (which have been intruded by tertiary rocks) and Haslam/Comox Fm rocks of the Cretaceous Nanaimo Group. The Singapore claim is underlain by Nitinat Fm rocks of the Sicker Group. Sicker Group rocks host a number of important mineral occurrences on Vancouver Island.
- 1.3** A grid was laid out on a portion of the Arrowsmith 2 and Arrowsmith claims to further assess slightly elevated

copper values detected in a prior survey by soil geochemistry. Soil samples collected on this grid were analyzed by multi element analyses as were soil samples collected from a small grid on the Singapore claim. In addition, soil samples were collected from road cuts on both the Singapore and Arrowsmith 4 claims. Rock samples were collected from selected sites on both claim groups and also subjected to multi element analysis.

- 1.4 Except in a couple of samples as noted in part 8.1 of this report, no significant values were detected in any of the samples collected during the program.

2. INTRODUCTION

2.1 This report documents an exploration program conducted during the period March 22, 1991 through April 14, 1991. The program was commissioned by Mr. C. Angus, President of Blue Sun Resource Corp. of Vancouver, B.C. The program was contracted to Sun Group Resource Management who utilized the following personnel:

A.E. Angus: Prospector/technician
S.E. Angus: Prospector/technician
G. Clouthier: Geologist
W.C. Day: Geologist
R. Marra: Prospector/technician

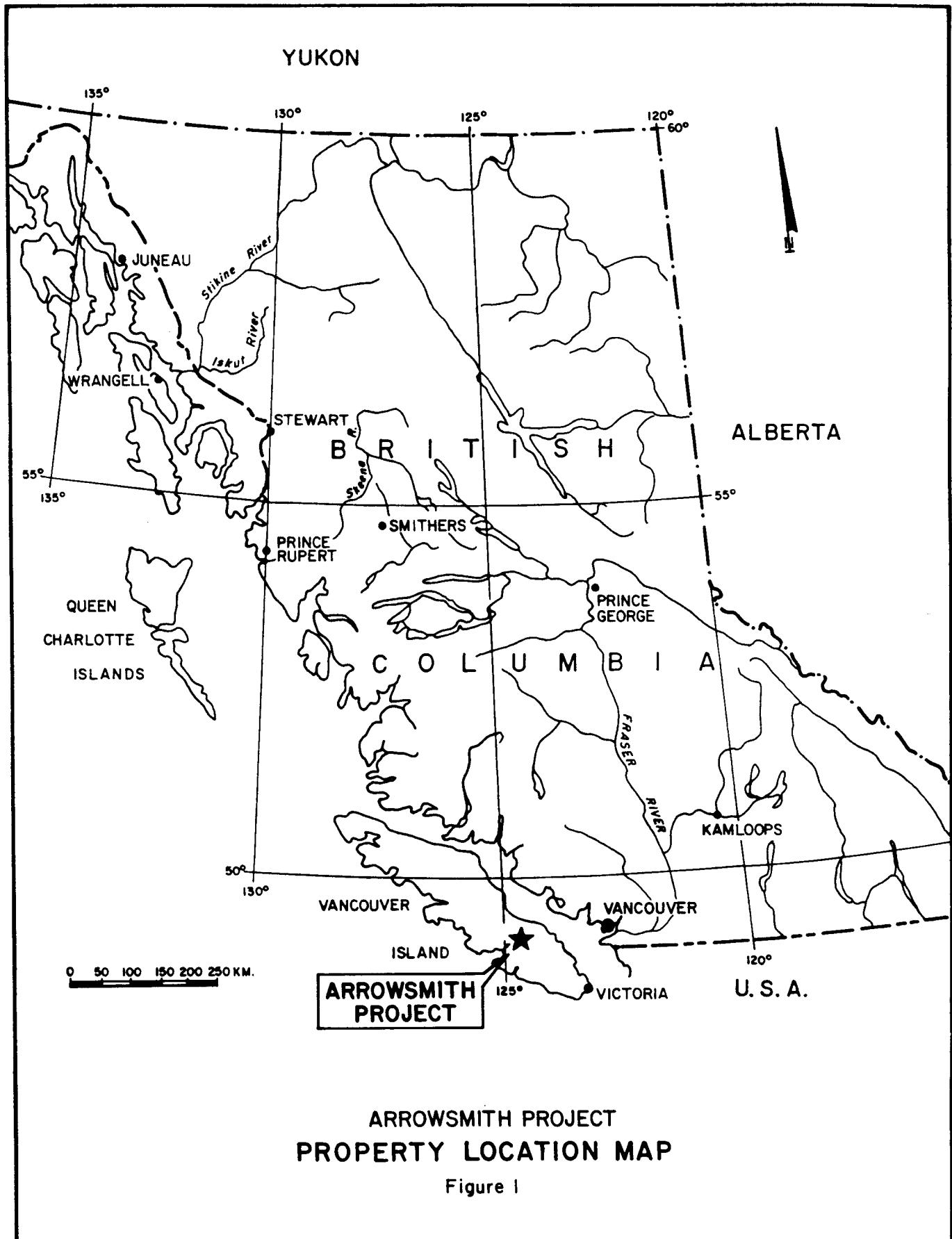
2.2 The program consisted of geological mapping, soil geochemistry surveying/silt sampling and prospecting. The objective of the program was to assess the claim areas to determine their potential for hosting gold mineralization like that recently found on nearby claims.

2.3 The geological mapping aspect of the program found that favourable rock types and structure exist on the properties for hosting gold mineralization. The geochemical survey and prospecting, however, did not

locate any significant concentration of mineralization.

3. LOCATION, ACCESS, CLIMATE & PHYSIOGRAPHY (FIG. 1)

- 3.1** The Arrowsmith and Arrowsmith 2, 3 and 4 claims are located in the Nanaimo Mining Division of British Columbia. The claims are situated in the Cameron River Valley some 11 km east southeast of the city of Port Alberni on central Vancouver Island and are centered at approximately $49^{\circ} 13'$ N. lat., $124^{\circ} 37'$ W. long. on NTS mapsheets 92F/2E and 92F/7E.
- 3.2** The Singapore claim is located 17 km southeast of Port Alberni and spans the China Creek Valley. It is situated in the Alberni Mining Division and is centered at approximately $49^{\circ} 09'$ N. lat., $124^{\circ} 37'$ W. long. on NTS mapsheet 92F/2E.
- 3.3** The Arrowsmith group of claims can be best reached by utilizing the Mt. Arrowsmith Ski Hill road, a gravel road which exits the paved No. 4 Highway, 8 km east of Port Alberni. A network of fair to good logging roads lend good access to virtually all areas of the claims.
- 3.4** The Singapore claim can be reached by utilizing the China Creek road, a gravel road departing from the south end of Port Alberni and diagonally crossing the southwest third of the claim. A few logging roads lend access to this



area while the northern two thirds of the claim can be gained only by foot.

- 3.5 The climate in the area of the claims is moderate with mean annual temperatures ranging from 5° - 0° C in January to 14° - 16° C in July. Mean annual precipitation is 150 to 250 cm, most of which occurs during the winter months and will accumulate as snow at higher elevations.
- 3.6 The area is mountainous with steep slopes forested with hemlock, fir and cedar. Creek valleys are often deeply incised. Elevations on the Arrowsmith group range from a low of 360 meters on the Cameron River to 1280 meters while on the Singapore claim elevations rise from a low of 370 meters in the China Creek Valley to 1360 meters.

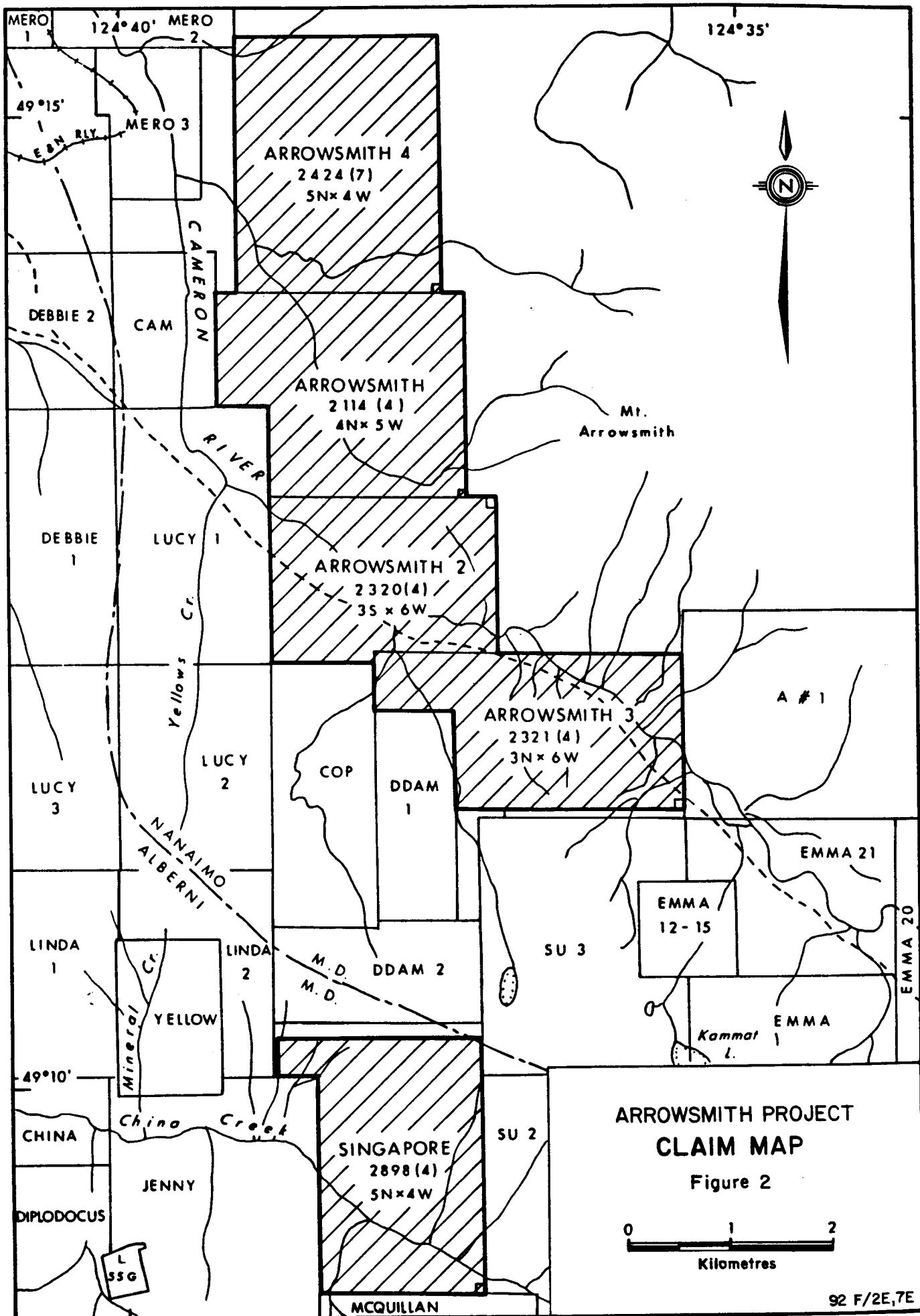
4. CLAIM DATA (FIG. 2)

4.1 Pertinent claim information is as follows:

Claim	Record#	Units	Anniversary	Yr./Record
Arrowsmith	2114(4)	20	04/11/89	1985
Arrowsmith 2	2320(4)	18	04/11/89	1986
Arrowsmith 3	2321(4)	18	04/11/89	1986
Arrowsmith 4	2424(7)	20	06/15/89	1986
Singapore	2898(4)	20	04/01/89	1986

4.2 The Arrowsmith, Arrowsmith 2 and Singapore claims are 100% owned by S.E. Angus, while the Arrowsmith 3 and Arrowsmith 4 claims are 100% owned by A.E. Angus. The various Arrowsmith claims were grouped on March 24, 1987 as the Arrowsmith Group.

4.3 Blue Sun Resource Corp. currently holds an option to explore the claims.



5. HISTORY

- 5.1** The Arrowsmith claims were staked in 1985 and 1986. No mineral exploration is documented in the claim area prior to 1987 during which year some 373 soil samples were collected from 2 small grids. No anomalous precious or base metals were encountered during these programs save one sample which returned 606 ppm copper. In April of 1988 a subsequent program consisting of 265 soil samples collected from a grid on the Arrowsmith claim returned maximum analytical values of 35 ppb Au, 0.8 ppm Ag, 213 ppm Cu, 14 ppm Pb and 129 ppm Zn. The only work in the area prior to 1987 was governmental which includes geological mapping by C.H. Clapp (1912 and 1914), J.E. Muller and D.J.T. Carson (1969), J.E. Muller (1977 and 1980), N.W. Massey (1986) and J.S. Stevenson (1945).
- 5.2** The Singapore claim area has witnessed somewhat more work. This claim covers the same area as that covered by the previously existing Alberni claim which was explored by Gunnex Ltd. between 1963 and 1966. Apparently no mineralization was encountered in the Gunnex programs. An old showing, on or near the southwest corner of the claim was documented as having a 7.6 m shaft and a series of open cuts along a 3 m by 100 m zone of quartz veins carrying pyrite, chalcopyrite and galena with some silver

and gold values. This showing known as the Bank Group apparently yielded a grab sample from the dump which assayed trace Au, 34 g/t Ag, and 3.2% Cu. Attempts to locate this showing have, to date, failed. Reconnaissance geological mapping and sampling conducted by MPH Consulting Ltd. in 1984 encountered a rock sample (quartz-carbonate veined, sulphide rich, volcanic rock) on the south boundary of the Singapore claim which contained 900 ppb Au. In 1987, a preliminary geochemical program was conducted by Edsons Resources Ltd. on the north side of China Creek but no significant results were encountered.

6.0 GEOLOGY (FIG. 3 & 4)

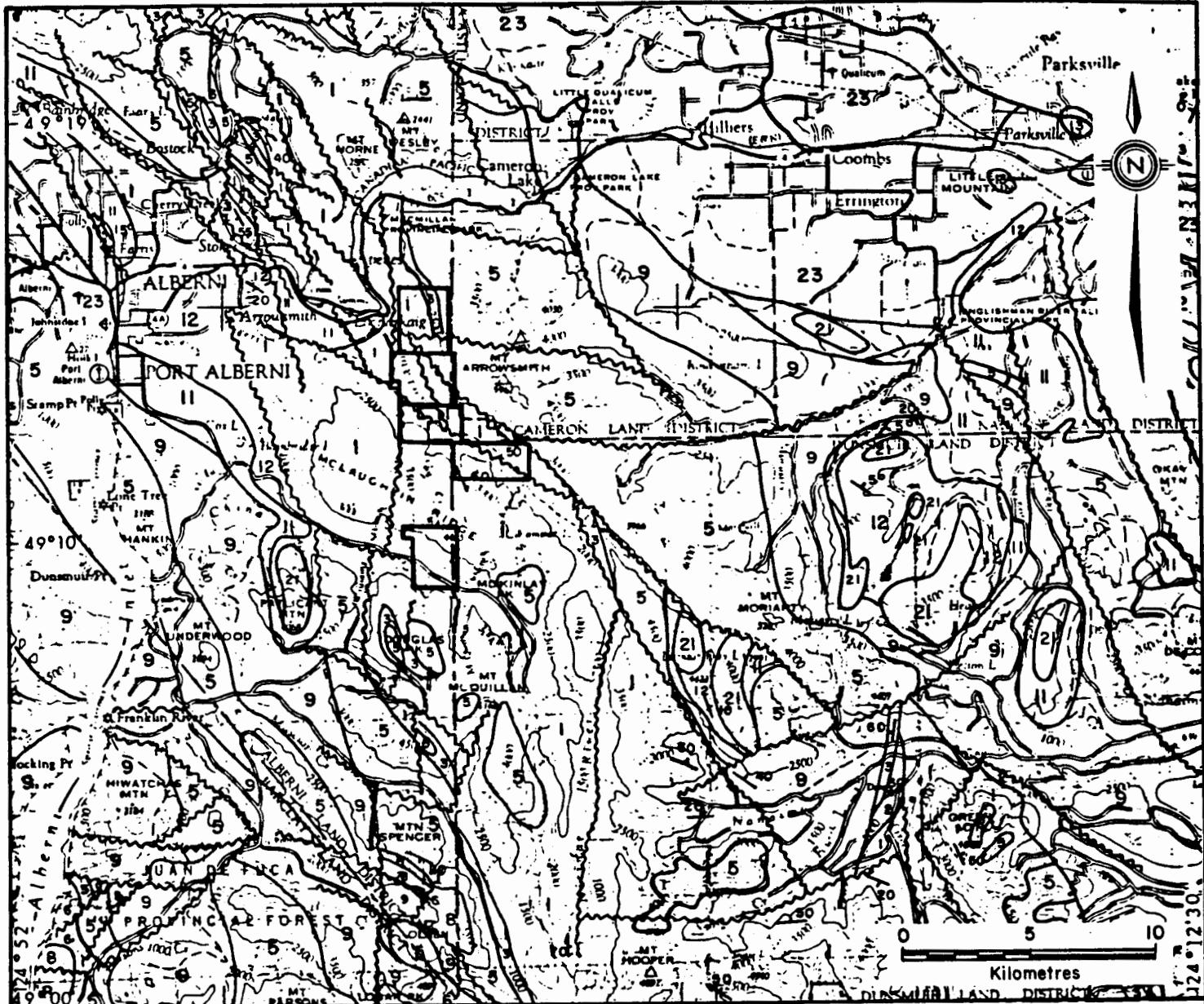
6.1 The geology of the Arrowsmith Group and Singapore claim as mapped during the program consists primarily of Upper Palaeozoic Sicker Group rocks, and Triassic Vancouver Group rocks intruded by Jurassic Island Intrusions. Nanaimo Group sediments are also present.

6.2 Sicker Group

The Nitinat Fm (PS_5) is composed mainly of mafic volcanic rocks which commonly occur as flow breccia, agglomerates, some massive flows and rare pillow basalt. This formation underlies the entire Singapore claim and a large portion of the southwestern area of the Arrowsmith Group.

The Myra Formation has been subdivided into two units in the claim area. The lower (PS_4) is comprised of volcanic sandstone, conglomerate consisting of rounded volcanic and chert material up to cobble size with a volcanic sandstone matrix and tuff and an upper unit (PS_3) which is comprised of volcanic sandstone, bedded limestone and chert.

The uppermost unit of the Sicker Group in the claim area



NTS 92F/2E,7E

LEGEND

Geology after Muller 1977

QUATERNARY

23 Glacial and alluvial deposits

TERTIARY

21 Hornblende quartz diorite, leucoquartz monzonite, porphyritic dacite, breccia.

UPPER CRETACEOUS

NANAIMO GROUP

13 EXTENSION-PROTECTION FM: sandstone, conglomerate, shale, coal.

12 HASLAM FM: shale, siltstone, fine sandstone.

11 COMOX FM: sandstone, conglomerate, shale, coal.

MIDDLE TO UPPER JURASSIC

9 ISLAND INTRUSIONS: biotite - hornblende granodiorite, quartz diorite.

LOWER JURASSIC

8 BONANZA GROUP: andesitic to latitic breccia, tuff, and lava; minor greywacke, argillite, and siltstone.

UPPER TRIASSIC

VANCOUVER GROUP

6 QUATSINO FM: massive to thick bedded limestone, minor thin bedded limestone.

5 KARMUTSEN FM: pillow-basalt and pillow breccia, massive basalt flows; minor tuff, volcanic breccia; Jasperoid tuff, breccia and conglomerate at base.

TRIASSIC OR PERMIAN

4 Gabbro, peridotite, diabase.

LOWER PERMIAN TO PENNSYLVANIAN

SICKER GROUP

3 BUTTLE LAKE FM: limestone, chert.

2 MYRA FM: lower unit; argillite, greywacke, conglomerate, tuff, minor limestone. Upper unit; rhyodacite to rhyolite tuff, lapilli tuff, breccia, lesser siliceous siltstone, argillite, quartz porphyry and mafic flows.

1 NITINAT FM: basaltic uralite porphyry, conglomerate, pillow lava; greenschist.

ARROWSMITH PROJECT REGIONAL GEOLOGY MAP

Figure 3

is the Buttle Lake Formation. This formation is composed of bedded white crinoidal limestone which is often massive.

6.3 Vancouver Group

The representative rock type in the claim area of the Vancouver Group is the Karmutsen Fm, an Upper Triassic age suite of volcanic rocks which unconformably overlie the Buttle Lake Fm. It is composed of dark green to black tholeiitic pillow basalt, massive basalt and pillow breccia. The pillow lavas generally occur near the base of the section. The Karmutsen formation is generally less deformed than the underlying Sicker Group rocks.

6.4 Nanaimo Group

The two lower formations of the Nanaimo Group were found to be present in area of the Arrowsmith claims. The Comox formation consists of buff arkose and quartz pebble conglomerate having an arkosic matrix. Overlying the Comox formation is the Haslam Fm, a rock suite consisting of dark grey shale, siltstone and turbidite.

7. GEOCHEMISTRY

- 7.1 During the course of the program a total of 590 soil samples and 43 rock samples were collected and analyzed. Samples were analyzed by Vangeochem Lab Ltd. of Vancouver B.C. The samples were subjected to ICP for multi element analyses. Gold content was determined by atomic absorption as per Appendix A.
- 7.2 The soil samples collected from the grid established on the Arrowsmith, Arrowsmith 2 and Singapore claims were taken from the "B" horizon at 25m intervals along lines having a separation of 100m. Soil samples collected from road cuts on the Arrowsmith 4 and Singapore claims were also taken from the "B" horizon at 25m intervals.

Sample locations are shown in Fig 3 & 4.

8. RESULTS

8.1 The results of sample analyses are tabulated in Appendix B. Virtually no significant values were found to be present in any of the samples. A few notable exceptions are as follows.

Soil sample:

Line SP 1-N - Arsenic values elevated from 2+75w to 5+00w
(high of 457 ppm)

Line SP 2-N - Arsenic values elevated from 17+25w to
19+50w (high of 709 ppm)

Line SP 2-N - 10+00w Cr>1000 ppm, Mo>1000 ppm, Nickel
3840 ppm (no significant values on either
side)

Line SM 3+00 - Zn 2042 ppm with values slightly elevated
to either side.

Rock Sample #

#84429 As 1191 ppm

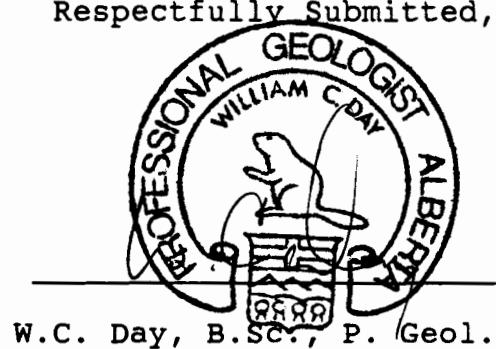
8.2 The elevated arsenic values on lines SP 1 and 2 N are intriguing, however, the paucity of any economic mineral enrichment is disappointing. The Cr, Mo, and Ni enrichment on line SP 2-N 10+00w should be checked as should the zinc enrichment at line SM 3+00. The high

arsenic value given for rock sample #84429 is again, interesting, but without any other mineral enrichment it is not considered to be too significant.

9. CONCLUSIONS AND RECOMMENDATIONS

- 9.1** Generally speaking the results of the exploration program on the Singapore claim and Arrowsmith Group was negative with few indications of the presence of significant economic mineral potential.
- 9.2** By themselves the areas of enrichment outlined in 8.1 do not warrant the cost of a follow up program, however, should personnel be in the area for other purposes then some time should be spent to determine, if possible, the cause and significance of the enrichment.
- 9.3** Except as outlined in 9.2 no further work is recommended on the Arrowsmith and Singapore claims.

Respectfully Submitted,



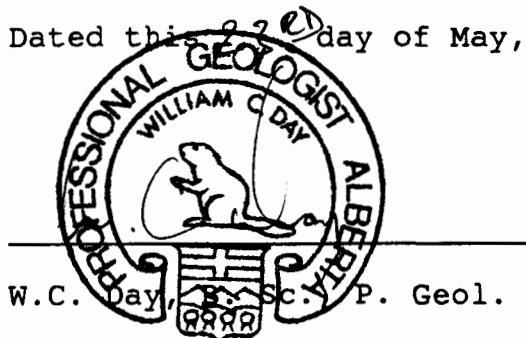
W.C. Day, B.Sc., P. Geol.

CERTIFICATE

I, William C. Day, with residence at 258 W. 24th St.,
North Vancouver, B.C., do hereby certify that:

- a) That I have practiced my profession as a Geologist since graduation from the University of British Columbia (B. Sc., 1976).
- b) That I have been involved in mineral exploration since 1965.
- c) That I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
- d) That I was a member of the crew that conducted the program of subject in this report.
- e) I have no interest, direct nor indirect, in the subject property nor in Blue Sun Resource Corp.

Dated this 9th day of May, 1991 at Vancouver, B.C.



APPENDIX I



MAIN OFFICE
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BRANCH OFFICES
BATHURST, N.B.
RENO, NEVADA, U.S.A.

April 30, 1991

TO: Mr. Scott Angus
SUN GROUP RESOURCE MANAGEMENT
12719 24A Avenue
White Rock, BC V4A 9H8

FROM: VANGEOCHEM LAB LIMITED
1650 Pandora Street
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine Aqua Regia soluble gold in geochemical samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hands using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO₃), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.

-2-

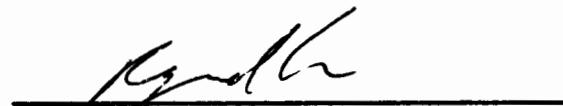
- (d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336").
- (e) Separatory funnels were used to separate the organic layer.

3. Method of Detection

The detection of Au was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and his laboratory staff.



Raymond Chan
VANGEOCHEM LAB LIMITED

APPENDIX II

REPORT NUMBER: 910050 QA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 1 OF 16

SAMPLE #	Au
	ppb
BL 0+00	10
L-00 0+25E	nd
L-00 0+50E	nd
L-00 0+75E	nd
L-00 1+25E	15
L-00 1+50E	5
L-00 1+75E	nd
L-00 2+00E	nd
L-00 2+25E	nd
L-00 2+50E	nd
L-00 2+75E	nd
L-00 3+00E	15
L0+00S 0+50W	nd
L0+00S 1+00W	nd
L0+00S 1+50W	15
L0+00S 2+00W	nd
BL 1+00N	5
1+00N 0+25E	nd
1+00N 0+50E	nd
1+00N 0+75E	5
1+00N 1+00E	5
1+00N 1+25E	5
1+00N 1+50E	15
1+00N 1+75E	15
1+00N 2+00E	nd
1+00N 2+25E	nd
1+00N 2+50E	nd
1+00N 2+75E	nd
1+00N 3+00E	5
1+00N 3+25E	15
1+00N 3+50E	nd
1+00N 3+75E	nd
1+00N 4+00E	nd
BL 1+00S	nd
1+00S 0+25E	nd
1+00S 0+50E	nd
1+00S 0+75E	nd
1+00S 1+00E	nd
1+00S 1+25E	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

ls = insufficient sample



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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 2 OF 16

SAMPLE #		Au ppb	
1+00S	1+50E	15	
1+00S	1+75E	nd	
1+00S	2+00E	15	
1+00S	2+25E	15	
1+00S	2+50E	20	
1+00S	2+75E	15	
1+00S	3+00E	nd	
1+00S	0+50W	15	
1+00S	1+00W	15	
BL	2+00N	5	
2+00N	0+25E	nd	
2+00N	0+50E	10	
2+00N	0+75E	10	
2+00N	1+00E	nd	
2+00N	1+25E	nd	
2+00N	1+50E	15	
2+00N	1+75E	15	
2+00N	2+00E	nd	
2+00N	2+25E	nd	
2+00N	2+50E	nd	
2+00N	2+75E	10	
2+00N	3+00E	nd	
2+00N	3+25E	5	
2+00N	3+50E	nd	
2+00N	3+75E	nd	
BL	2+00N	4+00E	
	2+00S	nd	
	2+00S	0+50E	15
	2+00S	1+00E	5
	2+00S	1+50E	nd
	2+00S	2+00E	nd
	2+00S	2+50E	5
	2+00S	3+00E	10
	2+00S	3+50E	nd
	2+00S	4+00E	nd
	2+00S	4+50E	nd
	2+00S	5+00E	nd
	2+00S	0+50W	nd
	2+00S	1+00W	10

DETECTION LIMIT

nd = none detected

5

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SUN GROUP RESOURCE MANAGEMENT

PAGE 3 OF 16

SAMPLE #		Au
		ppb
BL	2+00S 1+50W	15
	2+00S 2+00W	nd
	3+00S	nd
	3+00S 0+50E	10
	3+00S 1+00E	nd
	3+00S 1+50E	5
	3+00S 2+00E	nd
	3+00S 2+50E	nd
	3+00S 3+00E	15
	3+00S 3+50E	nd
	3+00S 4+00E	10
	3+00S 4+50E	15
	3+00S 5+00E	5
	3+00S 0+50W	nd
	3+00S 1+00W	nd
BL	3+00S 1+50W	15
	3+00S 2+00W	15
	4+00S	5
	4+00S 0+50E	5
	4+00S 1+00E	nd
	4+00S 1+50E	15
	4+00S 2+00E	nd
	4+00S 2+50E	nd
	4+00S 3+00E	nd
	4+00S 3+50E	10
	4+00S 4+00E	nd
	4+00S 4+50E	nd
	4+00S 5+00E	nd
	4+00S 0+50W	nd
	4+00S 1+00W	10
BL	4+00S 1+50W	nd
	4+00S 2+00W	nd
	5+00S	5
	5+00S 0+50E	nd
	5+00S 1+00E	nd
	5+00S 1+50E	nd
	5+00S 2+00E	nd
	5+00S 2+50E	10
	5+00S 3+00E	nd

DETECTION LIMIT

5

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 4 OF 16

SAMPLE #		Au ppb
5+00S	3+50E	15
5+00S	4+00E	20
5+00S	4+50E	15
5+00S	5+00E	nd
5+00S	0+50W	10
BL	5+00S	1+00W
	5+00S	2+00W
	6+00S	5
	6+00S	0+50E
	6+00S	1+00E
	6+00S	1+50E
	6+00S	2+00E
	6+00S	2+50E
	6+00S	3+00E
	6+00S	3+50E
	6+00S	4+00E
	6+00S	4+50E
	6+00S	0+50W
	6+00S	1+00W
	6+00S	1+50W
BL	7+00S	10
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	7+00S	1+00E
	7+00S	1+50E
	7+00S	2+00E
	7+00S	2+50E
	7+00S	3+00E
	7+00S	3+50E
	7+00S	4+00E
	7+00S	4+50E
BL	7+00S	0+50W
	7+00S	1+00W
	7+00S	1+50W
	8+00S	nd
	8+00S	0+50E
	8+00S	1+00E
	8+00S	1+50E
	8+00S	2+00E
	8+00S	2+50E

DETECTION LIMIT

5

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REPORT NUMBER: 910050 BA

JOB NUMBER: 910050

SUB GROUP RESOURCE MANAGEMENT

PAGE 5 OF 16

SAMPLE #		Au ppb
8+00S	3+00E	nd
8+00S	3+50E	15
8+00S	4+00E	nd
8+00S	4+50E	10
8+00S	5+00E	nd
BL	8+00S 0+50W	5
8+00S	1+00W	nd
8+00S	1+50W	nd
BL	9+00S	5
9+00S	0+50E	nd
9+00S	1+00E	nd
9+00S	1+50E	nd
9+00S	2+00E	nd
9+00S	2+50E	nd
9+00S	3+00E	nd
9+00S	3+50E	nd
9+00S	4+00E	nd
9+00S	4+50E	nd
9+00S	5+00E	nd
9+00S	0+50W	nd
BL	9+00S 1+00W	nd
9+00S	1+50W	nd
BL	10+00S	nd
10+00S	0+50E	nd
10+00S	1+00E	nd
10+00S	1+50E	nd
10+00S	2+00E	nd
10+00S	2+50E	nd
10+00S	3+00E	nd
10+00S	3+50E	nd
10+00S	4+00E	15
10+00S	4+50E	15
10+00S	5+00E	20
10+00S	0+50W	15
10+00S	1+00W	20
BL	10+00S 1+50W	20
11+00S		5
11+00S	0+50E	nd
11+00S	1+00E	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

**VANGEOCHEM LAB LIMITED**

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1630 PANDORA STREET
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BATHURST, N.B.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUB GROUP RESOURCE MANAGEMENT

PAGE 6 OF 16

SAMPLE #	Au	ppb
11+00S 1+50E	25	
11+00S 2+00E	5	
11+00S 2+50E	20	
11+00S 3+00E	15	
11+00S 3+50E	20	
11+00S 4+00E	5	
11+00S 4+50E	5	
11+00S 5+00E	20	
11+00S 0+50W	15	
11+00S 1+00W	20	
BL 11+00S 1+50W	nd	
BL 12+00S	nd	
12+00S 0+50E	10	
12+00S 1+00E	5	
12+00S 1+50E	15	
12+00S 2+00E	20	
12+00S 2+50E	20	
12+00S 3+00E	nd	
12+00S 3+50E	10	
12+00S 4+00E	5	
12+00S 4+50E	15	
12+00S 5+00E	15	
12+00S 0+50W	15	
12+00S 1+00W	10	
12+00S 1+50W	15	
BL 12+00S 2+00W	20	
BL 13+00S	15	
13+00S 0+50E	10	
13+00S 1+00E	20	
13+00S 1+50E	15	
13+00S 2+00E	nd	
13+00S 2+50E	20	
13+00S 3+00E	15	
13+00S 3+50E	5	
13+00S 4+00E	10	
13+00S 4+50E	5	
13+00S 5+00E	25	
13+00S 0+50W	15	
13+00S 1+00W	10	

DETECTION LIMIT

5

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 7 OF 16

SAMPLE #		Au ppb
13+00S	1+50W	20
13+00S	2+00W	nd
BL 14+00S		15
14+00S	0+50E	20
14+00S	1+00E	15
14+00S	1+50E	25
14+00S	2+00E	5
14+00S	2+50E	10
14+00S	3+00E	15
14+00S	3+50E	20
14+00S	4+00E	20
14+00S	4+50E	20
14+00S	5+00E	nd
14+00S	0+50W	15
14+00S	1+00W	15
14+00S	1+50W	nd
14+00S	2+00W	10
BL 15+00S		15
15+00S	0+50E	20
15+00S	1+00E	10
15+00S	1+50E	5
15+00S	2+00E	15
15+00S	2+50E	10
15+00S	3+00E	nd
15+00S	3+50E	20
15+00S	4+00E	25
15+00S	4+50E	nd
15+00S	5+00E	nd
15+00S	0+50W	5
15+00S	1+00W	25
15+00S	1+50W	25
15+00S	2+00W	20
BL 16+00S		15
16+00S	0+50E	15
16+00S	1+00E	15
16+00S	1+50E	5
16+00S	2+00E	15
16+00S	2+50E	20
16+00S	3+00E	5

DETECTION LIMIT

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 8 OF 16

SAMPLE #	Au	ppb
16+00S 3+50E	nd	
16+00S 4+00E	5	
16+00S 4+50E	10	
16+00S 5+00E	nd	
16+00S 0+50W	15	
16+00S 1+00W	10	
16+00S 1+50W	5	
16+00S 2+00W	20	
BL 17+00S	10	
BL 17+00S 0+50E	20	
17+00S 1+00E	nd	
17+00S 1+50E	nd	
17+00S 2+00E	10	
17+00S 2+50E	15	
17+00S 3+00E	5	
17+00S 3+50E	15	
17+00S 4+00E	15	
17+00S 4+50E	5	
17+00S 5+00E	5	
17+00S 0+50W	20	
17+00S 1+00W	5	
17+00S 1+50W	nd	
17+00S 2+00W	nd	
SM 0+00	15	
SM 0+50	20	
SM 1+00	20	
SM 1+50	10	
SM 2+00	15	
SM 2+50	20	
SM 3+00	20	
SM 3+50	10	
SM 4+00	nd	
SM 4+50	20	
SM 5+00	nd	
SM 5+50	nd	
SM 6+00	20	
SM 6+50	5	
SM 7+00	10	
SM 7+50	nd	

DETECTION LIMIT

5

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REPORT NUMBER: 910050 QA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 9 OF 16

SAMPLE #	Au ppb
SM 8+00	15
SM 8+50	nd
SM 9+00	5
SM 9+50	5
SM 10+00	10
SM 10+50	15
SM 11+00	nd
SM 11+50	10
SM 12+00	15
SM 12+50	15
SM 13+00	10
S.P. L-1 0+00	nd
S.P. L-1 0+25E	5
S.P. L-1 0+50E	nd
S.P. L-1 0+75E	nd
S.P. L-1 1+00E	5
S.P. L-1 1+25E	nd
S.P. L-1 1+50E	10
S.P. L-1 1+75E	nd
S.P. L-1 2+00E	5
S.P. L-1 2+25E	5
S.P. L-1 2+50E	nd
S.P. L-1 2+75E	nd
S.P. L-1 3+00E	15
S.P. L-1 3+25E	nd
S.P. L-1 3+50E	nd
S.P. L-1 3+75E	10
S.P. L-1 4+00E	15
S.P. L-1 4+25E	nd
S.P. L-1 4+50E	15
S.P. L-1 4+75E	15
S.P. L-1 5+00E	nd
S.P. L-1 5+25E	nd
S.P. L-1 5+50E	nd
S.P. L-1 5+75E	5
S.P. L-1 6+00E	nd
S.P. L-1 6+25E	15
S.P. L-1 6+50E	5
S.P. L-1 6+75E	5

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 10 OF 16

SAMPLE #	Au	ppb
S.P. L-1 7+00E	15	
S.P. L-1 7+25E	10	
S.P. L-1 7+50E	nd	
S.P. L-2 0+00	15	
S.P. L-2 0+25E	15	
S.P. L-2 0+50E	10	
S.P. L-2 0+75E	10	
S.P. L-2 1+00E	nd	
S.P. L-2 1+25E	nd	
S.P. L-2 1+50E	10	
S.P. L-2 1+75E	nd	
S.P. L-2 2+00E	10	
S.P. L-2 2+25E	15	
S.P. L-2 2+50E	15	
S.P. L-2 2+75E	10	
S.P. L-2 3+00E	5	
S.P. L-2 3+25E	5	
S.P. L-2 3+50E	5	
S.P. L-2 3+75E	nd	
S.P. L-2 4+00E	10	
S.P. L-2 4+25E	5	
S.P. L-2 4+50E	nd	
S.P. L-2 4+75E	nd	
S.P. L-2 5+00E	nd	
S.P. L-2 5+25E	nd	
S.P. L-2 5+50E	nd	
S.P. L-2 5+75E	nd	
S.P. L-2 6+00E	10	
S.P. L-2 6+25E	5	
S.P. L-2 6+50E	10	
S.P. L-2 6+75E	nd	
S.P. L-2 7+00E	5	
S.P. L-2 7+25E	10	
S.P. L-2 7+50E	nd	
S.P. L-3 0+25E	nd	
S.P. L-3 0+50E	5	
S.P. L-3 0+75E	10	
S.P. L-3 1+00E	nd	
S.P. L-3 1+25E	10	

DETECTION LIMIT

5

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 11 OF 16

SAMPLE #	Au
	ppb
S.P. L-3 1+50E	10
S.P. L-3 1+75E	20
S.P. L-3 2+00E	15
S.P. L-3 2+25E	20
S.P. L-3 2+50E	10
S.P. L-3 2+75E	15
S.P. L-3 3+00E	10
S.P. L-3 3+25E	5
S.P. L-3 3+50E	15
S.P. L-3 3+75E	nd
S.P. L-3 4+00E	10
S.P. L-3 4+25E	10
S.P. L-3 4+50E	20
S.P. L-3 4+75E	nd
S.P. L-3 5+00E	5
S.P. L-3 5+25E	nd
S.P. L-3 5+50E	nd
S.P. L-3 5+75E	nd
S.P. L-3 6+00E	nd
S.P. L-3 6+25E	5
S.P. L-3 6+50E	nd
S.P. L-3 6+75E	nd
S.P. L-3 7+00E	nd
S.P. L-3 7+25E	10
S.P. L-3 7+50E	10
S.P. SILT L-3 6+25E	15
S.P. L-4 0+00	nd
S.P. L-4 0+25E	nd
S.P. L-4 0+50E	10
S.P. L-4 0+75E	10
S.P. L-4 1+00E	nd
S.P. L-4 1+25E	nd
S.P. L-4 1+50E	15
S.P. L-4 1+75E	15
S.P. L-4 2+00E	15
S.P. L-4 2+25E	nd
S.P. L-4 2+50E	15
S.P. L-4 2+75E	nd
S.P. L-4 3+00E	15

DETECTION LIMIT

5

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 12 OF 16

SAMPLE #	Au	ppb
S.P. L-4 3+25E	nd	
S.P. L-4 3+50E	15	
S.P. L-4 3+75E	nd	
S.P. L-4 4+00E	10	
S.P. L-4 4+25E	10	
S.P. L-4 4+50E	nd	
S.P. L-4 4+75E	nd	
S.P. L-4 5+00E	10	
S.P. L-4 5+25E	15	
S.P. L-4 5+50E	15	
S.P. L-4 5+75E	nd	
S.P. L-4 6+00E	5	
S.P. L-4 6+25E	5	
S.P. L-4 6+50E	15	
S.P. L-4 6+75E	nd	
S.P. L-4 7+00E	15	
S.P. L-4 7+25E	nd	
S.P. L-4 7+50E	15	
S.P. O-N 0+00	5	
S.P. O-N 0+25W	nd	
S.P. O-N 0+50W	10	
S.P. O-N 0+75W	15	
S.P. O-N 1+00W	20	
S.P. O-N 1+25W	10	
S.P. O-N 1+50W	15	
S.P. O-N 1+75W	20	
S.P. O-N 2+00W	20	
S.P. O-N 2+25W	15	
S.P. O-N 2+50W	10	
S.P. O-N 2+75W	10	
S.P. O-N 3+00W	20	
S.P. O-N 3+25W	15	
S.P. O-N 3+50W	15	
S.P. O-N 3+75W	nd	
S.P. O-N 4+00W	15	
S.P. O-N 4+25W	10	
S.P. O-N 4+50W	5	
S.P. O-N 4+75W	15	
S.P. O-N 5+00W	nd	

DETECTION LIMIT

5

nd = none detected

-- = not analysed

ls = insufficient sample



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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 13 OF 16

SAMPLE #	Au
	ppb
S.P. 0-N 5+25W	10
S.P. 0-N 5+50W	10
S.P. 0-N 5+75W	10
S.P. 0-N 6+00W	20
S.P. 0-N 6+25W	15
S.P. 0-N 6+50W	nd
S.P. 0-N 6+75W	nd
S.P. 0-N 7+00W	nd
S.P. 0-N 7+25W	5
S.P. 0-N 7+50W	5
S.P. 0-N 7+75W	15
S.P. 0-N 8+00W	5
S.P. 0-N 8+25W	15
S.P. 0-N 8+50W	nd
S.P. 0-N 8+75W	10
S.P. 0-N 9+00W	10
S.P. 1-N 0+00	10
S.P. 1-N 0+25W	10
S.P. 1-N 0+50W	15
S.P. 1-N 0+75W	20
S.P. 1-N 1+00W	nd
S.P. 1-N 1+25W	15
S.P. 1-N 1+50W	10
S.P. 1-N 1+75W	10
S.P. 1-N 2+00W	15
S.P. 1-N 2+25W	15
S.P. 1-N 2+50W	10
S.P. 1-N 2+75W	20
S.P. 1-N 3+00W	nd
S.P. 1-N 3+25W	nd
S.P. 1-N 3+50W	nd
S.P. 1-N 3+75W	15
S.P. 1-N 4+00W	nd
S.P. 1-N 4+25W	nd
S.P. 1-N 4+50W	20
S.P. 1-N 4+75W	15
S.P. 1-N 5+00W	5
S.P. 2N 0+00	nd
S.P. 2N 0+25W	20

DETECTION LIMIT 5

nd = none detected

-- = not analysed

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REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 14 OF 16

SAMPLE #	Au ppb
S.P. 2N 0+50W	10
S.P. 2N 0+75W	nd
S.P. 2N 1+00W	10
S.P. 2N 1+25W	nd
S.P. 2N 1+50W	nd
S.P. 2N 1+75W	15
S.P. 2N 2+00W	nd
S.P. 2N 2+25W	nd
S.P. 2N 2+50W	15
S.P. 2N 2+75W	20
S.P. 2N 3+00W	20
S.P. 2N 3+25W	20
S.P. 2N 3+50W	10
S.P. 2N 3+75W	nd
S.P. 2N 4+00W	15
S.P. 2N 4+25W	5
S.P. 2N 4+50W	5
S.P. 2N 4+75W	nd
S.P. 2N 5+00W	nd
S.P. 2N 5+25W	5
S.P. 2N 5+50W	15
S.P. 2N 5+75W	15
S.P. 2N 6+00W	nd
S.P. 2N 6+25W	15
S.P. 2N 6+50W	5
S.P. 2N 6+75W	15
S.P. 2N 7+00W	nd
S.P. 2N 7+25W	10
S.P. 2N 7+50W	10
S.P. 2N 7+75W	10
S.P. 2N 8+00W	10
S.P. 2N 8+25W	15
S.P. 2N 8+50W	nd
S.P. 2N 8+75W	nd
S.P. 2N 9+00W	5
S.P. 2N 9+25W	5
S.P. 2N 9+50W	nd
S.P. 2N 9+75W	nd
S.P. 2N 10+00W	5

DETECTION LIMIT

5

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REPORT NUMBER: 910050 6A

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

PAGE 15 OF 16

SAMPLE #	Au ppb
S.P. 2N 10+25W	5
S.P. 2N 10+50W	15
S.P. 2N 10+75W	15
S.P. 2N 11+00W	20
S.P. 2N 11+25W	10
S.P. 2N 11+50W	nd
S.P. 2N 11+75W	10
S.P. 2N 12+00W	5
S.P. 2N 12+25W	5
S.P. 2N 12+50W	20
S.P. 2N 12+75W	nd
S.P. 2N 13+00W	15
S.P. 2N 13+25W	15
S.P. 2N 13+50W	nd
S.P. 2N 13+75W	nd
S.P. 2N 14+00W	15
S.P. 2N 14+25W	20
S.P. 2N 14+50W	nd
S.P. 2N 14+75W	5
S.P. 2N 15+00W	10
S.P. 2N 15+25W	15
S.P. 2N 15+50W	10
S.P. 2N 15+75W	nd
S.P. 2N 16+00W	5
S.P. 2N 16+25W	nd
S.P. 2N 16+50W	5
S.P. 2N 16+75W	15
S.P. 2N 17+00W	5
S.P. 2N 17+25W	nd
S.P. 2N 17+50W	10
S.P. 2N 17+75W	15
S.P. 2N 18+00W	15
S.P. 2N 18+25W	nd
S.P. 2N 18+50W	5
S.P. 2N 18+75W	nd
S.P. 2N 19+00W	15
S.P. 2N 19+25W	10
S.P. 2N 19+50W	15
S.P. 2N 19+75W	20

DETECTION LIMIT
nd = none detected

5

-- = not analysed ls = insufficient sample

VANCOUVER AB LIMITE

1630 Pandora Street, Vancouver, B.C. V5L 1L6

Ph:(604)251-5656 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Lynette*

REPORT #: 910050 PA	SUN GROUP RES. MANAGEMENT						PROJECT: ARROWSMITH						DATE IN: APR 17 1991			DATE OUT: APR 30 1991			ATTENTION: MR. SCOTT ANGUS						PAGE 16 OF 16			
Sample Name	Ag	Al	As	#Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn		
	ppm	%	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
S.P. 2N 20+00W	<0.1	3.52	<3	15	61	<3	0.47	<0.1	15	90	39	4.57	1.19	0.16	344	<1	0.04	35	0.04	5	13	<2	26	<5	<3	77		
A-1	<0.1	4.06	<3	10	147	<3	0.27	<0.1	30	100	91	5.00	1.22	0.16	866	<1	0.05	28	0.03	12	21	<2	17	<5	<3	95		
E-1	<0.1	6.63	<3	<5	51	<3	1.48	<0.1	76	96	319	9.67	1.99	0.54	2546	<1	0.08	54	0.03	<2	17	<2	32	<5	<3	192		
E-2	<0.1	6.18	<3	<5	59	<3	3.01	1.5	82	118	324	9.84	2.04	0.59	3162	<1	0.08	58	0.02	2	14	<2	55	<5	<3	208		
E-3	<0.1	6.22	<3	<5	55	<3	2.54	0.3	72	105	362	>10	1.99	0.72	3795	<1	0.06	68	0.02	3	12	<2	37	<5	<3	220		
Minimum Detection	0.1	0.01	3	5	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1		
Maximum Detection	50.0	10.00	2000	10000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	2000	1000	10000	100	1000	20000	
< - Less Than Minimum	> - Greater Than Maximum						is - Insufficient Sample						ns - No Sample						#Au Analysis Done By Aqua Regia Digestion / Solvent Extraction / AAS.									



MAIN OFFICE
1630 PANDORA STREET
VANCOUVER, B.C.
V5L 1L6
TEL (604) 251-5656
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BRANCH OFFICES
BATHURST, N.B.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910050 GA

JOB NUMBER: 910050

SUN GROUP RESOURCE MANAGEMENT

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SAMPLE #	Au
	ppb
S.P. 2N 20+00W	15
A-1	10
E-1	nd
E-2	nd
E-3	nd

DETECTION LIMIT
nd = none detected

5
--- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
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REPORT NUMBER: 910049 GA

JOB NUMBER: 910049

SUN GROUP RESOURCE MANAGEMENT

PAGE 1 OF 1

SAMPLE #	Au
	ppb
84401	15
84402	20
84403	15
84404	10
84405	15
84406	20
84407	5
84408	15
84409	nd
84410	nd
84411	nd
84412	nd
84413	nd
84414	10
84416	nd
84417	nd
84418	15
84419	nd
84420	nd
84421	15
84422	5
84423	15
84424	nd
84425	10
84426	nd
84427	10
84428	nd
84429	5
84430	nd
84431	15
84431A	nd
84432	5
84433	10
84434	15
84435	nd
84436	15
84437	nd
84438	15
84439	nd

DETECTION LIMIT

nd = none detected

5

-- = not analysed

ls = insufficient sample

APPENDIX III

STATEMENT OF COSTS

Personnel

W.C. Day, P.Geol., 24 days at \$450	\$10,800.00
G.A. Cloutier, P.Geol., 24 days at \$450	10,800.00
S.E. Angus, Project Supervisor, Prospector, 24 days at \$450	10,800.00
A.E. Angus, Prospector/Technician, 24 days at \$325	7,800.00
R. Marra, Prospector/Technician, 24 days at \$325	<u>7,800.00</u>
	48,000.00
G.S.T. at 7%	<u>3,360.00</u>
	\$51,360.00

Equipment Rental

Four-wheel drive trucks, 50 days at \$125	6,250.00
Off-road motor bike, 24 days at \$25	600.00
Field support, 115 mandays at \$70	<u>8,050.00</u>
	14,900.00
G.S.T. at 7%	<u>1,043.00</u>
	15,943.00

Disbursements

Travel	870.56
Fuel	866.75
Equipment and supplies	1,217.58
Geochemical analyses	8,832.85
Drafting, typing and report reproduction	<u>977.33</u>
	12,765.07
Administration at 15%	<u>1,914.76</u>
	14,679.83

Report Cost

3,000.00

TOTAL

\$84,982.83

DATE: APRIL, 1991	BY: W. D. & G.C.
NTS: 92F/2E,7E	FIGURE: 4
SCALE: 1:10,000 0 100 200 300 400 500 Metres	

A.R.21439

