

REPORT ON THE
ARC 2-5 and M & M 15-16 MINERAL CLAIMS
1990 GEOCHEMICAL SAMPLING PROGRAM

LOG NO:	0530	RD.
ACTION:		

ISKUT RIVER AREA
LIARD MINING DIVISION
BRITISH COLUMBIA

LOG NO:	NOV 22 1991	RD.
ACTION:		
FILE NO:		

57°08' NORTH LATITUDE
130°50' WEST LONGITUDE
N.T.S. 104 G/2

RECEIVED
MAY 24 1991
Gold Commissioner's Office
VANCOUVER, B.C.

Work Period: July 1990 to September 1990

Owner and Operator: KESTREL RESOURCES LTD.
506 - 675 West Hastings Street
Vancouver, B.C.
V6B 1N2
(604) 683-9177

By: S. J. Tennant

May 8, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,362

TABLE OF CONTENTS

	Page
INTRODUCTION	1
LOCATION, ACCESS AND TOPOGRAPHY	1
PROPERTY AND LIST OF CLAIMS	2
AREA HISTORY	2
REGIONAL GEOLOGY	3
PROPERTY GEOLOGY	4
GEOCHEMICAL PROGRAM	5
DISCUSSION OF RESULTS	6
RECOMMENDATIONS	6
BIBLIOGRAPHY	7
STATEMENT OF QUALIFICATIONS	8
PROGRAM COSTS	9

List of Figures

Figure 1	Index Map	
Figure 2	Claim Map	
Figure 3	Regional Geology; Scale 1:250,000	
Figure 4	Sample Location Map; Scale 1:10,000	In pocket

List of Appendices

Appendix I	Sample Assay Results
Appendix II	Sample Descriptions

INTRODUCTION

During the summer of 1990, Kestrel Resources Ltd. completed a geochemical soil and rock sampling program on the ARC 2-5 and M & M 15/16 mineral claims.

The claims are located approximately 10 kilometres due south of Arctic Lake within the Liard Mining Division of Northwestern British Columbia.

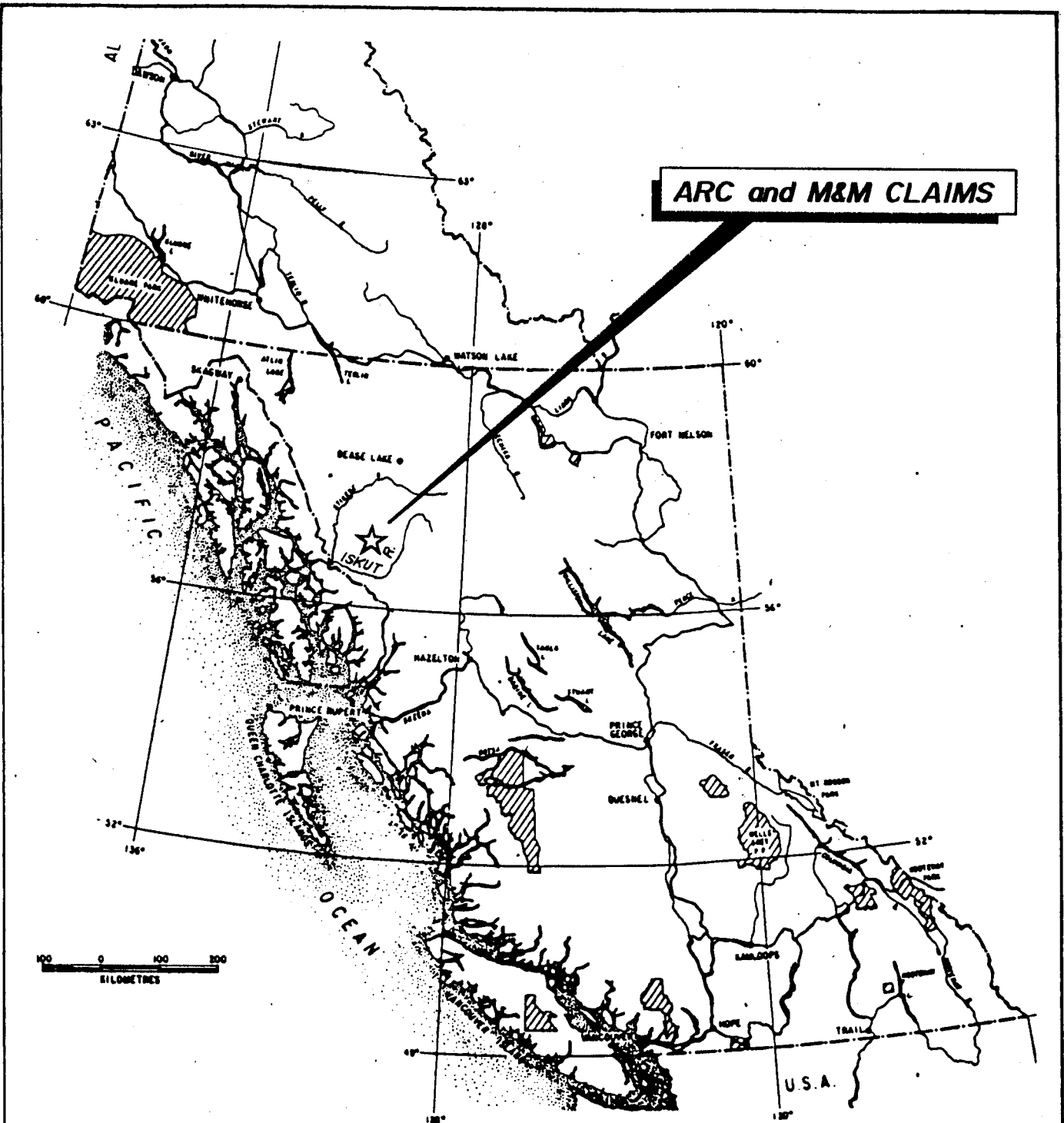
The 1990 geochemical program was a follow-up of a reconnaissance prospecting program completed in 1989. During August of 1990, 78 rock samples and 170 soil samples were collected in selected areas.

Results of the 1990 program are discussed in the text of this report and the data are plotted on the accompanying maps.

LOCATION, ACCESS AND TOPOGRAPHY

The claims are located approximately 10 kilometres due south of Arctic Lake within the Liard Mining Division of Northwestern British Columbia. Access to the property is via fixed wing aircraft from Smithers or Terrace to Bronson, which is located 110 kilometres northwest of Stewart, or the Forrest Kerr airstrip located at the headwaters of the Forrest Kerr River. Access from Bronson or Forrest Kerr is via helicopter and via foot traverse within the claims.

Most of the property is accessible by foot or helicopter. Elevations range from 760 metres to 1,680 metres A.S.L. Above 1,200 metres the claims are devoid of vegetation except grasses and shrubs, and exhibit abundant outcrop. Below 1,200 metres, the usual coast mountain evergreens, alder and devils club predominate. Precipitation exceeds 4,000 millimetres annually; temperatures range from -40° to +25°C



ARC and M&M CLAIMS

100 0 100 200
KILOMETRES

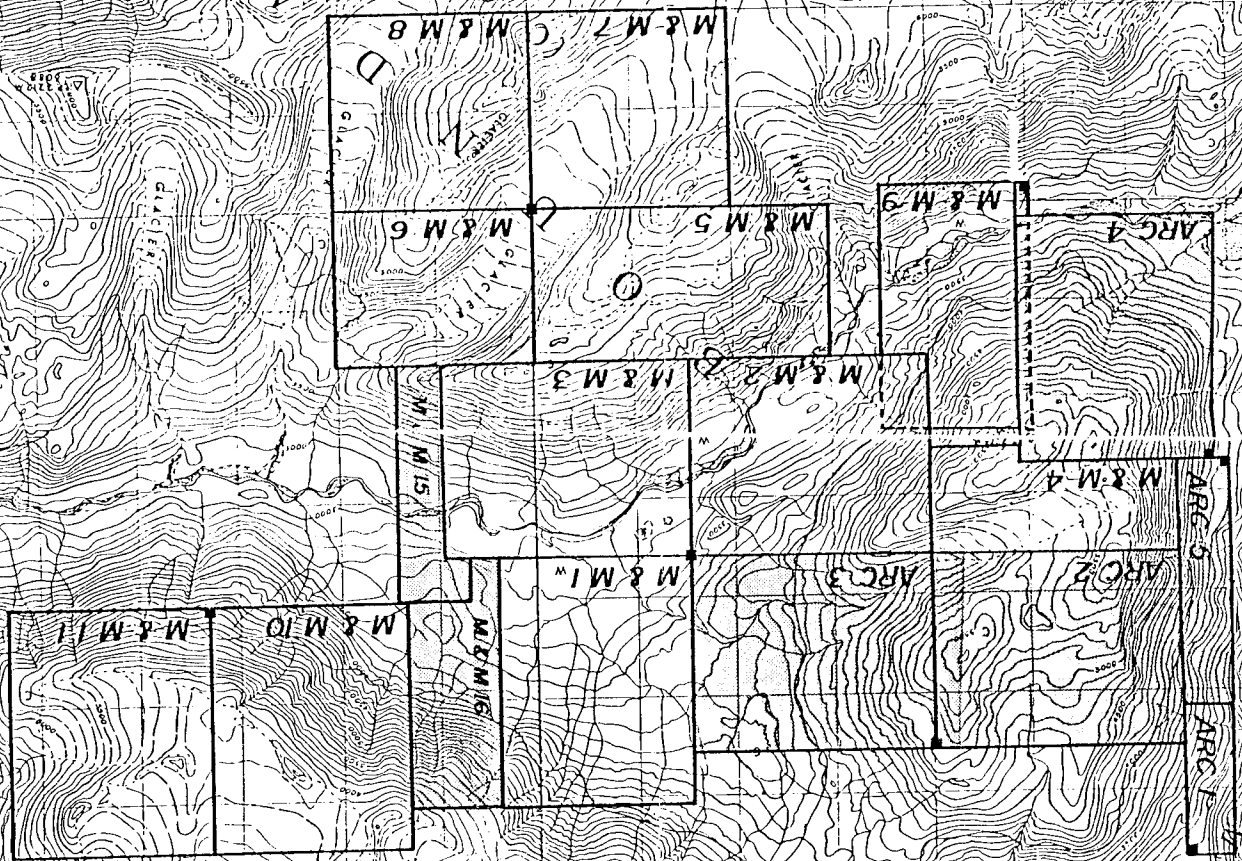


<i>KESTREL RESOURCES LTD.</i>			
<i>LOCATION MAP</i>			
<i>LIARD MINING DIVISION, B.C.</i>			
<i>STU TENNANT</i>			
SCALE: <i>NOTED</i>	DATE: <i>APRIL 91</i>	MAP: <i>1</i>	N.T.S. <i>104G/2</i>

CLAIM MAP

Fig. 2

0 2000 m



ARCTIC LAKE

PROPERTY AND LIST OF CLAIMS

The ARC - M & M claim group consist of the following modified grid claims wholly owned by Kestrel Resources Ltd.

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
ARC 2	4491	20	Feb. 24, 1988,	Feb. 24, 1991
ARC 3	4492	20	Feb. 24, 1988	Feb. 24, 1991
ARC 4	4493	20	Feb. 26, 1988	Feb. 24, 1991
ARC 5	4494	5	Feb. 24, 1988	Feb. 24, 1991
M&M 15	6691	10	Feb. 24, 1990	Feb. 24, 1991
M&M 16	6692	8	Feb. 24, 1990	Feb. 24, 1991

So far as the writer is aware the claims were property staked and recorded and are in good standing as indicated by the expiry dates.

AREA HISTORY

The first recorded work from the Iskut River Region was in 1907 when a staking party from Wrangell, Alaska recorded nine mineral claims north of Johnny Mountain. The Iskut Mining Company worked the claims and in 1917 shipped a ton of high grade ore which reportedly assayed \$1.20 gold, 44.2 ounces silver and 12.45% copper (B.C.M.M.A.R., 1917).

In 1954 Hudson Bay Mining and Smelting Limited discovered high grade gold-silver-lead-zinc mineralization, known as the "Pickaxe" showing, on the slopes of Johnny Mountain.

Throughout the 1960's several major mining companies undertook reconnaissance prospecting and exploration programs in search for porphyry copper-molybdenum deposits resulting in the location of several claims on Johnny Mountain and on Sulphurets Creek.

Skyline Exploration Limited staked the Inel property in 1969 following the discovery of massive sulphide in float on the Bronson Creek glacier. In 1980 the Company staked the Reg property. During the 1980's, Skyline has developed both these properties discovering high grade veins and polymetallic massive sulphide mineralization on the Inel and Reg properties.

The joint venture partners of Cominco Ltd. and Prime Resources Corporation have developed their Snip property which is located immediately north of the Reg property on the northern slopes of Johnny Mountain. The combined geological reserve for the Snip property is 1,000,000 tons grading 0.80 opt gold.

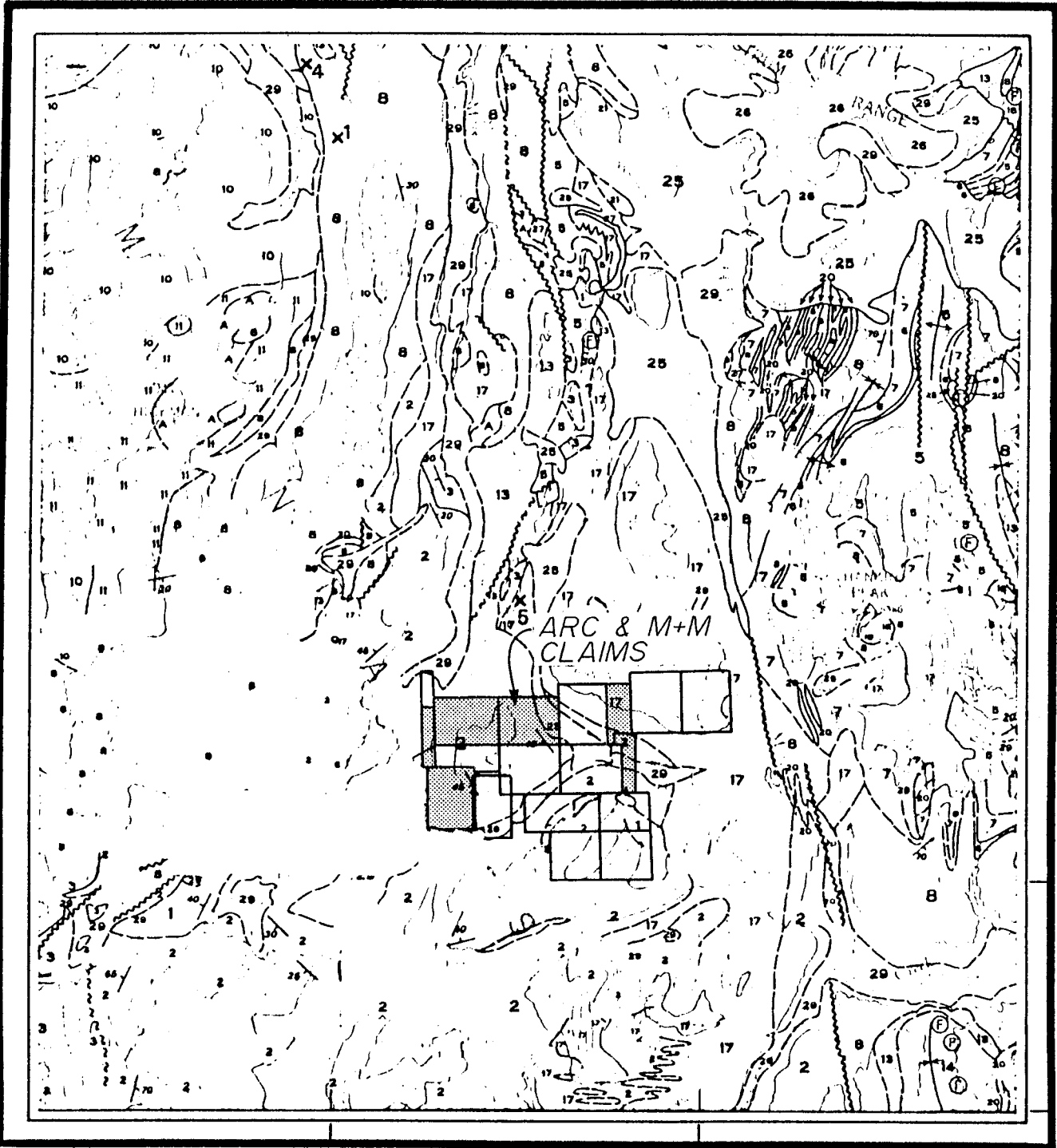
Other advanced prospects currently undergoing intense exploration efforts in the area include Gulf International Minerals Ltd.'s, Inel and McLymont properties, Placer Dome Ltd.'s, Kerr porphyry copper-gold deposit and Calpine's Eskay Creek gold deposit, as well as the re-development of the Silback Premier/Big Missouri mines by Westmin.

The discovery of the Eskay Creek gold prospect in November of 1988 has done much to stimulate exploration activity in the Iskut region. Drill hole intersections varying from 5 to 10 metres (16 to 33 feet), and grading to 100 grams gold per tonne (2.92 opt), with an average 1,000 grams or more of silver per tonne (29.2 opt), are not uncommon. The Eskay Creek deposit is probably the most significant precious metal deposit discovered in British Columbia.

Recently completed road access studies has resulted in a proposed shared cost road which would commence at the Stewart-Cassiar highway near Bob Quinn Lake and extend into the Iskut Valley.

REGIONAL GEOLOGY

The Stewart-Iskut-Eskay Creek gold silver area is situated along the western margin of the Intermontaine belt of volcanic and sedimentary rocks where they join the Coast Plutonic Complex of intrusive and metamorphic rocks. The most significant host of gold-silver mineralization in the area is the Triassic to Jurassic volcanic-sedimentary Stewart complex (Hazelton Group). Triassic to Tertiary plutonic rocks



131° 00'

130° 45'

57° 05'
57° 00'



1 : 250,000

KESTREL RESOURCES LTD.

**GEOLOGY MAP
ARC & M+M CLAIMS**

LIARD MINING DIVISION, B.C.

DRAWN BDS	NTS 104 G/2
DATE : MAY 1991	FIGURE N°. 3

LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

- 29 Fluvatile gravel; sand, silt; glacial outwash, till, alpine moraine and colluvium
- 28 Hot-spring deposit, tufa, aragonite
- 27 Olivine basalt, related pyroclastic rocks and loose tephra; younger than some of 29

TERTIARY AND QUATERNARY

UPPER TERTIARY AND PLEISTOCENE

- 26 Rhyolite and dacite flows, lava domes, pyroclastic rocks and related subvolcanic intrusions; minor basalt
- 25 Basalt, olivine basalt, dacite, related pyroclastic rocks and subvolcanic intrusions; minor rhyolite; in part younger than some 26

CRETACEOUS AND TERTIARY

UPPER CRETACEOUS AND LOWER TERTIARY

SLOKO GROUP

- 24 Light green, purple and white rhyolite, trachyte and dacite flows, pyroclastic rocks and derived sediments
- 22 23 22. Biotite leucogranite, subvolcanic stocks, dykes and sills
23. Porphyritic biotite andesite, lava domes, flows and (?) sills

SUSTUT GROUP

- 21 Chert-pebble conglomerate, granite-boulder conglomerate, quartzose sandstone, arkose, siltstone, carbonaceous shale and minor coal
- 20 Felsite, quartz-feldspar porphyry, pyritiferous felsite, orbicular rhyolite; in part equivalent to 22
- 19 Medium-to coarse-grained, pink biotite-hornblende quartz monzonite

JURASSIC AND/OR CRETACEOUS

POST-UPPER TRIASSIC PRE-TERTIARY

- 18 Hornblende diorite
- 17 Granodiorite, quartz diorite; minor diorite, leucogranite and migmatite

JURASSIC

MIDDLE (?) AND UPPER JURASSIC

BOWSER GROUP

- 16 Chert-pebble conglomerate, grit, greywacke, subgreywacke, siltstone and shale; may include some 13
- 15 Basalt, pillow lava, tuff-breccia, derived volcaniclastic rocks and related subvolcanic intrusions

MIDDLE JURASSIC

LOWER AND MIDDLE JURASSIC

- 14 Shale, minor siltstone, siliceous and calcareous siltstone, greywacke and ironstone
- 13 Conglomerate, polymictic conglomerate; granite-boulder conglomerate, grit, greywacke, siltstone; basaltic and andesitic volcanic rocks, peperites,

MESOZOIC

TRIASSIC AND JURASSIC
POST-UPPER TRIASSIC PRE-LOWER JURASSIC

12 Syenite, orthoclase porphyry, monzonite, pyroxenite

HICKMAN BATHOLITH

10 11 10. Hornblende granodiorite, minor hornblende-quartz diorite 11. Hornblende, quartz diorite, hornblende-pyroxene diorite, amphibolite and pyroxene-bearing amphibolite

TRIASSIC
UPPER TRIASSIC

9 Undifferentiated volcanic and sedimentary rocks (units 5 to 8 inclusive)

8 Augite-andesite flows, pyroclastic rocks, derived volcanoclastic rocks and related subvolcanic intrusions; minor greywacke, siltstone and polymictic conglomerate

7 Siltstone, thin-bedded siliceous siltstone, ribbon chert, calcareous and dolomitic siltstone, greywacke, volcanic conglomerate, and minor limestone

6 Limestone, fetid argillaceous limestone, calcareous shale and reefold limestone; may be in part younger than some 7 and 8

5 Greywacke, siltstone, shale; minor conglomerate, tuff and volcanic sandstone

MIDDLE TRIASSIC

4 Shale, concretionary black shale; minor calcareous shale and siltstone

PERMIAN
MIDDLE AND UPPER PERMIAN

3 Limestone, thick-bedded mainly bioclastic limestone; minor siltstone, chert and tuff

PERMIAN AND OLDER

2 Phyllite, argillaceous quartzite, quartz-sericite schist, chlorite schist, greenstone, minor chert, schistose tuff and limestone


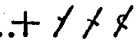


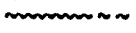


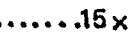
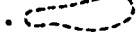
MISSISSIPPIAN

1 Limestone, crinoidal limestone, ferruginous limestone; maroon tuff, chert and phyllite

B Amphibolite, amphibolite gneiss; age unknown probably pre-Upper Jurassic

A Ultramafic rocks; peridotite, dunite, serpentinite; age unknown, probably pre-Lower Jurassic

PALEOZOIC

- Geological boundary (defined and approximate, assumed) 
- Bedding (horizontal, inclined, vertical, overturned)  5:
- Anticline 
- Syncline 
- Fault (defined and approximate, assumed) 
- Thrust fault, teeth on hanging-wall side (defined and approximate, assumed). 
- Fossil locality  F
- Mineral property  15x
- Glacier 

INDEX TO MINERAL PROPERTIES

1. Liard Copper	5. Bam	9. MH	13. Ann, Su
2. Galore Creek	6. Gordon	10. BIK	14. SF
3. QC, QCA	7. Limpoke	11. JW	15. Goat

of the Coast Intrusion are considered to be the source of the mineralization. Jurassic sedimentary rocks of the Bowser Basin are extensively underlain by rocks of the Stewart Complex.

Within the Stewart Complex of volcanics and sedimentary rocks both narrow fractures and wide shear zones carry gold, silver and often , copper and molybdenum values associated with quartz veining. These mineralized areas are frequently close to felsic porphyry sills and dykes. The northern portion of the district appears to contain higher frequency of gold quartz veins grading to increased silver toward the south and increased copper toward the west.

The recently discovered 21 Zone on the Stikine Silver/Calpine claims to the southeast of the ARC - M & M claims, is hosted in the Mount Dilworth formation of the upper Hazelton group. The Dilworth formation has been traced to the northwest from the 21 Zone.

PROPERTY GEOLOGY

Geological Survey Map 11-1971, prepared by J.G. Souther, shows the geology of the ARC and M & M claims at a scale of 1:250,000. More detailed maps are unavailable from Government sources and Kestrel has not completed reconnaissance mapping on this property. According to Souther's work, the claims are underlain by foliated rocks of Paleozoic age, minor limestone, and associated intermediate intrusive rocks of Jurassic-Triassic age. Foliated rocks consist of phyllite, greenstone, quartz sericite-chlorite schist, argillaceous quartzite, minor chert and schistose tuff. Regional north-south faulting occupies the valley of More Creek, east of the claims. Northerly trending quartz veins northeast of the claims appear to be related to this regional system but where examined and sampled, did not carry visible sulphides or significant values in precious metals.

GEOCHEMICAL PROGRAM

In 1989, Kestrel carried out a regional prospecting program to provide broad coverage over the ARC and M & M claims. The 1990 geochemical program was designed to provide localized coverage over selected areas. A total of 11 man days during early August was spent collecting 78 rock samples and 170 soil samples. The samples were collected by Kestrel personnel under the supervision of the author. All soil samples were collected in high wet-strength 4" x 6" Kraft paper packets, assigned a number and described in field sample books supplied for this purpose. Details recorded included depth of sample, slope angle, slope direction, colour and type of soil, sulphides present and general observations. Soil samples were taken at a depth of 15-20 centimetres in the "B" horizon. Elevations range from 1060 to 1675 metres over the areas sampled. Due to these elevations within a glacial environment, soil profiles are generally poorly developed, consisting of loosely consolidated and partly transported rock fragments (5-10 cm), rather than the typical A-B-C soil horizons normally developed in more favourable climates. Approximately 50 percent of the samples collected, therefore, represent "lithochemical" rather than "soil" samples.

All samples were dried at ambient temperatures, then shipped by air and ground freight to Vangeochem Lab Ltd. in Vancouver, B.C. for analysis under the supervision of professional assayers. All of the samples were analyzed for gold using fire assay and atomic absorption procedures, and for a 25 element suite by inductively coupled argon plasma (ICAP) methods.

Geochemical soil lines along with traverses are shown on Figure 4 of this report. The analytical procedures and results as well as lithochemical sample descriptions accompany this report as Appendices I and II respectively.

DISCUSSION OF RESULTS

The results of assays obtained from the rock and soil sampling program do not indicate any significant economic or precious metal targets. Values for gold (ppb) and silver (ppm) as well as Cu (%), are shown plotted on Figure 4 and are discussed below.

The highest value obtained is 120 ppb in Sample No. 92905 which was a chip sample in chlorite schist containing some quartz stringers. Silver values are consistently less than 1.0 ppm in both rock and soils samples. ICAP results, for the most part, did not indicate any useful data except show that indicator element such as arsenic average <3 ppm.

Rock samples assayed were taken from limonitic schistose argillites and cherty sediments containing some stringers of massive pyrite as well as some disseminated pyrite. These rocks are partly brecciated and silicified and contain minor carbonate.

The geochemical survey completed indicates the mineral potential appears low in both rock and soil samples.

RECOMMENDATIONS

The geology underlying the ARC - M & M mineral claims should be a favourable host of sulphide and/or precious metal deposits in that both intrusive rocks and their related quartz veins occur within a volcanic-sedimentary assemblage of Paleozoic age.

No obvious exploration targets have been defined within the selected areas of work to date, however additional work should be concentrated on any intrusive-volcanic-sedimentary contacts as well as other features such as gossans, shear zones and quartz vein systems not explored previously.

BIBLIOGRAPHY

Souther, J.G. Geological Survey of Canada, Paper 71-44, Map 11-1971.

STATEMENT OF QUALIFICATIONS

I, STUART J. TENNANT, of Kestrel Resources Ltd., do hereby certify that:

1. I am a Geologist employed by Kestrel Resources Ltd. during the period October 1989 to present.
2. I am a graduate of the University of British Columbia with a B.Sc. in Geology in 1959.
3. From 1959 until present, I have been engaged in exploration primarily in Western Canada.
4. I personally supervised and participated in the field work and have compiled, reviewed and assessed the data resulting from the work.

Stuart J. Tennant.

Stuart J. Tennant

DATED at Vancouver, British Columbia, this 8th day of May, 1991.

PROGRAM COSTS

S. Tennant Geologist	1 day @ \$325/day	\$	325
B. Chase Prospector	1 day @ \$275/day		275
C. Bilquist Prospector	2 days @ \$200/day		400
K. Forster Prospector	2 days @ \$200/day		400
M. Bashford Prospector	1 day @ \$225/day		225
W. Grier Prospector	2 days @ \$200/day		400
M. Callaghan Prospector	1 day @ \$200/day		200
D. Witiuk Prospector	1 day @ \$175/day		<u>175</u>
		\$	<u>2,400</u>

Field Expense

Room and Board	11 man days @ \$125/day	\$	1,375
Helicopters	3 hours @ \$800/hour		2,400
Assaying	240 @ \$16/sample		3,840
Maps			<u>85</u>
TOTAL COST		\$	<u>10,100</u>

APPENDIX I
Sample Assay Results

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656



MAIN OFFICE
~~1088 TRIUMPH ST.~~
~~VANCOUVER, B.C. V5L 1K5~~
● (604) 251-5656
● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900194 GA

JOB NUMBER: 900194

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 1

SAMPLE I	Ag ppm	Au ppb
92507	1.0	nd
92508	nd	nd
92509	nd	nd
92510	nd	nd
92511	nd	nd
92527	nd	nd
92528	nd	nd
92529	nd	20
92530	nd	nd
92531	nd	nd
92532	nd	nd
92533	nd	nd
92534	nd	20
92535	nd	nd
92536	2.4	nd
92537	nd	nd
92538	nd	nd
92539	nd	nd
92540	nd	nd
92541	nd	nd
92542	nd	nd
92543	nd	nd
92544	nd	nd
92545	nd	nd
92546	nd	20
92547	nd	20
92548	nd	10
92549	nd	10
92550	nd	30
92551	nd	nd
92552	nd	30
92553	nd	30
92554	nd	20
92555	nd	10
92556	nd	30
92557	nd	20
92558	nd	20

DETECTION LIMIT
nd = none detected

0.1 5
-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

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

Ph: (604) 251-3636 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: *Raymond Lee*

REPORT #: 900194 PA

SULLIVAN MANAGEMENT / KESTREL RES.

PROJECT: M&M & ARC CLAIMS

DATE IN: AUG 07 1990

DATE OUT: AUG 25 1990

ATTENTION: MR. JOHN BUCHHOLZ

PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
92507	1.0	0.16	51	6	<3	0.18	1.7	10	77	69	1.29	0.23	0.06	418	18	<0.01	20	<0.01	421	19	9	4	<5	<3	41
92508	<0.1	0.19	16	3	36	0.13	1.7	11	49	14	2.64	0.27	0.04	1075	14	0.01	22	0.03	61	15	9	6	<5	<3	86
92509	<0.1	0.44	19	5	3	0.05	0.9	11	29	16	2.63	0.41	0.03	284	34	<0.01	11	0.03	72	11	11	3	<5	<3	34
92510	<0.1	0.20	<3	4	<3	>10.00	1.9	14	28	8	6.55	<0.01	8.16	4098	30	0.11	29	<0.01	44	<2	21	90	25	<3	117
92511	<0.1	4.76	<3	13	<3	2.28	1.7	28	28	120	9.34	<0.01	2.45	2400	22	0.12	26	0.05	<2	<2	17	125	<5	<3	495
92527	<0.1	2.41	<3	9	<3	5.33	0.9	28	50	399	5.15	<0.01	2.04	1595	8	0.05	36	0.07	<2	<2	12	44	<5	<3	111
92528	<0.1	0.78	<3	141	<3	9.47	1.3	15	21	8	5.10	<0.01	2.68	2348	11	0.06	29	0.01	<2	<2	11	39	8	<3	83
92529	<0.1	0.42	5	62	<3	3.63	<0.1	3	47	11	2.37	<0.01	1.10	1113	4	0.02	7	0.01	3	<2	5	17	7	<3	42
92530	<0.1	0.91	<3	16	<3	7.61	0.9	18	11	32	5.54	<0.01	2.61	1939	7	0.06	18	0.04	<2	<2	7	32	<5	<3	86
92531	<0.1	2.04	<3	39	<3	1.97	0.7	7	91	33	2.77	<0.01	1.14	983	7	0.03	11	0.05	<2	<2	5	36	<5	<3	63
92532	<0.1	3.35	<3	22	<3	0.85	0.9	18	17	49	5.81	<0.01	1.58	993	9	0.05	17	0.09	<2	<2	10	11	<5	<3	59
92533	<0.1	2.39	<3	23	<3	1.03	0.9	23	31	18	3.80	<0.01	0.84	696	9	0.04	29	0.07	12	<2	9	7	<5	<3	180
92534	<0.1	1.91	<3	7	9	2.36	<0.1	23	59	20	3.61	<0.01	1.13	1022	9	0.05	22	0.07	36	<2	7	16	<5	<3	217
92535	<0.1	5.59	<3	29	<3	1.78	37.8	28	54	530	6.96	<0.01	2.90	2302	20	0.43	26	0.04	<2	<2	17	52	7	<3	3599
92536	2.4	1.54	46	18	<3	1.03	3.9	59	35	8094	8.27	0.04	0.32	594	20	0.07	33	0.04	44	<2	15	7	6	<3	154
92537	<0.1	1.71	<3	12	125	1.75	1.0	16	81	161	2.47	<0.01	1.01	735	14	0.02	13	0.05	24	<2	10	29	<5	<3	86
92538	<0.1	1.09	<3	11	<3	1.46	<0.1	9	72	9	1.73	<0.01	0.16	419	6	<0.01	6	0.06	21	<2	11	7	<5	<3	20
92539	<0.1	2.76	<3	15	34	1.42	2.8	21	20	218	4.82	<0.01	1.34	1197	22	0.07	10	0.13	<2	<2	13	19	<5	<3	327
92540	<0.1	0.27	20	10	<3	1.22	1.2	5	82	109	0.95	<0.01	0.09	572	5	<0.01	3	0.01	17	<2	6	5	<5	<3	13
92541	<0.1	0.47	12	52	98	1.94	<0.1	3	29	5	1.31	<0.01	0.48	575	6	<0.01	5	0.03	2	<2	7	14	8	<3	18
92542	<0.1	3.36	<3	35	<3	2.64	<0.1	16	22	13	5.22	<0.01	1.71	1461	7	0.06	19	0.08	<2	<2	11	129	15	<3	158
92543	<0.1	0.58	23	7	162	1.56	<0.1	5	31	37	2.07	<0.01	0.26	838	5	0.01	6	0.02	6	<2	5	73	<5	<3	51
92544	<0.1	3.94	<3	117	<3	3.99	10.2	20	30	153	5.97	<0.01	1.91	2264	9	0.14	11	0.06	<2	<2	8	161	<5	<3	915
92545	<0.1	3.86	<3	336	<3	5.13	<0.1	24	18	9	6.58	<0.01	1.91	2063	16	0.06	26	0.91	<2	<2	8	142	<5	<3	113
92546	<0.1	1.80	<3	198	115	2.08	0.2	7	27	3	4.30	<0.01	0.54	1648	9	0.03	4	0.16	16	<2	5	264	6	<3	95
92547	<0.1	1.51	<3	28	<3	7.09	1.8	14	11	<1	4.70	<0.01	1.97	1646	11	0.04	23	0.44	20	<2	7	99	<5	<3	64
92548	<0.1	5.30	<3	82	<3	3.62	3.2	35	19	23	7.88	<0.01	1.91	1804	15	0.06	18	0.43	<2	<2	13	176	<5	<3	117
92549	<0.1	0.29	<3	79	<3	2.01	<0.1	7	40	9	2.52	<0.01	0.18	1200	10	0.02	4	0.10	41	<2	6	259	<5	<3	72
92550	<0.1	0.32	30	13	9	0.02	0.4	4	52	<1	1.02	0.14	0.01	518	3	<0.01	<1	<0.01	15	<2	7	3	13	<3	22
92551	<0.1	0.35	81	17	113	0.01	<0.1	4	8	<1	3.00	0.16	0.03	8	110	0.01	1	<0.01	18	<2	9	<1	<5	<3	2
92552	<0.1	2.45	<3	56	<3	0.35	0.6	4	12	4	5.29	<0.01	0.91	338	22	0.04	<1	0.20	<2	<2	11	27	<5	<3	96
92553	<0.1	5.15	<3	119	<3	3.04	0.5	37	9	19	7.30	<0.01	2.50	2088	6	0.07	11	0.39	<2	<2	22	121	<5	<3	112
92554	<0.1	1.02	<3	46	<3	0.30	<0.1	3	11	<1	3.06	0.10	0.12	1003	3	0.02	<1	0.07	<2	<2	6	18	<5	<3	50
92555	<0.1	4.89	<3	237	<3	3.75	1.2	24	19	10	6.65	<0.01	4.53	2099	11	0.08	18	0.43	<2	<2	11	172	11	<3	114
92556	<0.1	0.30	<3	5	<3	>10.00	1.7	7	13	<1	5.82	<0.01	6.39	3456	17	0.09	13	<0.01	20	<2	8	77	6	<3	115
92557	<0.1	0.75	<3	48	37	0.18	0.3	4	16	<1	2.05	0.22	0.14	608	4	<0.01	<1	0.02	18	<2	4	5	<5	<3	28
92558	<0.1	1.70	<3	38	<3	4.28	2.3	16	24	5	6.21	<0.01	1.60	3085	14	0.05	10	0.31	18	<2	11	117	20	<3	94

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 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 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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

1630 HASTINGS STREET
 VANCOUVER, BC V5L 1L6
 (604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1080 TRIUMPH ST.~~
~~VANCOUVER, B.C. V5L 1K5~~
 • (604) 251-5656
 • FAX (604) 254-5717

BRANCH OFFICES
 PASADENA, NFLD.
 BATHURST, N.B.
 MISSISSAUGA, ONT.
 RENO, NEVADA, U.S.A.

REPORT NUMBER: 900195 GA JOB NUMBER: 900195 SULLIVAN MANAGEMENT/KESTREL RES. PAGE 1 OF 2

SAMPLE #	Ag ppm	Au ppb
92512	nd	nd
92513	.2	10
92514	nd	nd
92515	nd	nd
92516	nd	nd
92517	nd	nd
92518	nd	nd
92519	nd	nd
92520	nd	nd
92521	nd	nd
92522	nd	nd
92523	nd	nd
92524	nd	80
92525	.4	40
92526	nd	nd
92899	.2	20
92900	nd	nd
92901	nd	nd
92902	nd	nd
92903	nd	30
92904	nd	nd
92905	nd	120
92906	nd	nd
92907	nd	20
92908	nd	10
92909	nd	nd
92910	.2	nd
92911	.2	nd
92912	nd	nd
92913	nd	nd
92914	nd	10
92915	nd	10
92916	.4	100
92917	nd	10
92918	nd	nd
92919	nd	nd
92920	nd	nd
92921	nd	nd
92922	nd	nd

DETECTION LIMIT 0.1 5
 nd = none detected -- = not analysed is = insufficient sample

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1088 TRIUMPH ST.~~
~~VANCOUVER, B.C. V5L 1K5~~
● (604) 251-5656
● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900195 GA

JOB NUMBER: 900195

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 2 OF 2

SAMPLE #

Ag	Au
ppm	ppb
nd	nd

92923

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

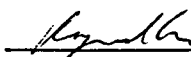
is = insufficient sample

VANGECHEM LAB LIMITED

1630 Pandora Street, Vancouver, V5L 1L6
 Ph: (604)251-5656 Fax: (604)251-5717

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: 

REPORT #: 900195 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: ARC 243 DATE IN: AUG 07 1990 DATE OUT: AUG 25 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 1 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
92512	<0.1	0.19	<3	29	<3	>10.00	4.4	21	23	38	8.32	<0.01	4.96	4379	30	0.11	35	0.03	48	18	20	64	<5	<3	324
92513	0.2	0.83	31	43	<3	4.52	3.6	43	31	180	6.22	<0.01	1.98	1102	23	0.05	47	0.03	43	16	13	42	<5	<3	114
92514	<0.1	0.51	<3	153	<3	6.60	3.5	27	52	50	3.30	<0.01	2.80	1106	23	0.04	37	0.03	55	27	14	56	<5	<3	48
92515	<0.1	3.60	<3	28	<3	3.05	3.9	34	43	137	6.00	<0.01	2.56	1184	24	0.05	34	0.05	30	<2	18	131	<5	<3	102
92516	<0.1	1.88	<3	100	<3	3.03	3.8	37	54	128	5.11	<0.01	2.66	907	25	0.05	50	0.04	49	24	19	29	<5	<3	70
92517	<0.1	5.27	<3	112	<3	2.24	3.4	39	91	141	5.79	<0.01	3.52	1188	29	0.06	84	0.03	<2	<2	21	58	<5	<3	104
92518	<0.1	2.54	<3	156	<3	3.80	2.5	31	45	128	5.20	<0.01	2.21	1050	15	0.05	35	0.04	16	<2	19	99	<5	<3	76
92519	<0.1	0.19	48	8	<3	0.26	2.2	9	44	11	1.22	0.34	0.12	136	10	<0.01	12	0.03	33	<2	4	21	<5	<3	12
92520	<0.1	0.66	<3	7	15	0.11	0.8	38	139	153	3.51	<0.01	0.45	199	14	0.02	8	0.03	30	<2	10	3	<5	<3	20
92521	<0.1	0.07	<3	3	<3	0.05	1.8	24	73	17	3.61	0.60	0.02	54	16	0.02	8	<0.01	36	17	6	6	<5	<3	8
92522	<0.1	0.23	27	9	138	0.36	1.1	9	91	7	0.90	0.86	0.17	145	16	<0.01	2	0.04	45	18	8	23	<5	<3	24
92523	<0.1	0.26	<3	5	<3	1.87	2.7	14	31	10	4.68	<0.01	0.61	486	18	0.02	14	<0.01	58	35	18	12	<5	<3	29
92524	<0.1	1.13	<3	39	<3	3.72	3.8	43	34	14	5.74	<0.01	1.04	1672	22	0.04	23	0.52	54	20	12	131	<5	<3	75
92525	0.4	0.33	174	23	<3	0.06	4.0	13	26	30	2.43	3.17	0.02	65	106	<0.01	8	0.03	68	48	12	5	<5	<3	29
92526	<0.1	0.84	<3	19	<3	4.04	3.9	46	41	23	5.57	<0.01	0.97	1423	23	0.03	17	0.10	62	31	19	20	<5	<3	36
92899	0.2	0.26	<3	279	16	>10.00	3.7	20	36	184	5.64	<0.01	1.46	2963	24	0.06	27	0.03	92	46	19	279	<5	<3	189
92900	<0.1	0.89	<3	46	<3	6.35	3.3	33	49	102	5.19	<0.01	2.35	1362	20	0.05	37	0.08	37	9	16	172	<5	<3	70
92901	<0.1	0.99	<3	54	26	4.25	1.6	7	48	12	2.55	<0.01	0.56	1094	12	0.03	5	0.10	32	<2	7	94	<5	<3	129
92902	<0.1	0.27	7	46	<3	5.20	1.4	7	93	14	2.21	<0.01	0.91	947	10	0.02	11	0.01	29	<2	5	91	<5	<3	38
92903	<0.1	3.42	<3	67	<3	0.27	3.2	23	16	48	6.30	0.44	1.90	985	18	0.05	2	0.05	15	<2	12	5	<5	<3	53
92904	<0.1	0.19	34	102	<3	0.23	2.1	11	152	7	1.58	1.59	0.03	602	15	<0.01	9	0.05	52	28	7	7	<5	<3	36
92905	<0.1	1.04	13	17	<3	0.76	2.3	15	43	88	2.47	1.23	0.66	758	19	0.01	11	0.02	52	20	10	8	<5	<3	46
92906	<0.1	0.26	46	20	<3	0.10	2.6	13	49	5	1.75	1.79	0.03	336	22	<0.01	4	0.05	60	41	10	3	<5	<3	30
90907	<0.1	0.86	<3	23	<3	0.19	2.4	13	150	6	1.92	2.35	0.35	515	16	0.01	8	0.03	58	39	14	1	<5	<3	57
92908	<0.1	0.65	<3	39	<3	0.60	3.3	10	59	4	1.74	1.38	0.29	524	17	<0.01	6	0.05	48	21	10	5	<5	<3	41
92909	<0.1	0.06	50	6	<3	0.07	1.1	8	163	4	0.99	1.18	0.01	127	19	<0.01	1	0.02	51	21	10	3	<5	<3	15
92910	0.2	0.55	<3	214	<3	>10.00	2.1	12	17	80	4.61	<0.01	3.46	2365	16	0.06	13	0.04	27	<2	16	99	<5	<3	156
92911	0.2	0.55	<3	35	<3	1.58	0.5	11	42	59	2.61	<0.01	0.52	597	7	0.02	<1	0.06	22	<2	7	27	<5	<3	47
92912	<0.1	0.33	<3	45	<3	>10.00	2.8	17	33	7	5.58	<0.01	3.82	2936	19	0.06	25	0.10	24	<2	10	63	<5	<3	61
92913	<0.1	1.18	<3	144	<3	5.20	1.7	35	25	15	7.75	<0.01	1.13	2102	16	0.06	21	0.36	15	<2	10	97	<5	<3	120
92914	<0.1	0.20	<3	25	<3	>10.00	4.7	21	20	4	7.27	<0.01	4.41	3501	25	0.08	28	0.08	41	15	15	101	<5	<3	73
92915	<0.1	1.29	<3	44	<3	5.25	2.2	21	42	42	4.79	<0.01	2.12	1450	18	0.04	22	0.07	40	3	11	30	<5	<3	72
92916	0.4	0.33	12	29	<3	7.72	2.4	16	25	23	3.88	<0.01	2.87	1657	20	0.04	9	0.02	61	23	10	48	<5	<3	43
92917	<0.1	0.09	61	13	<3	0.31	2.4	10	63	3	0.83	1.92	0.08	262	17	<0.01	<1	0.02	58	40	12	3	<5	<3	7
92918	<0.1	0.05	60	18	<3	0.04	2.7	10	120	3	0.44	2.32	<0.01	251	17	<0.01	<1	0.01	61	49	7	<1	<5	<3	6
92919	<0.1	0.16	58	31	<3	0.04	2.2	9	72	3	1.18	1.68	0.02	604	16	<0.01	<1	0.03	51	24	12	2	<5	<3	29
92920	<0.1	0.10	46	26	7	0.02	0.6	5	177	24	0.66	1.37	<0.01	262	13	<0.01	10	<0.01	37	14	7	<1	<5	<3	7
92921	<0.1	0.60	<3	11	<3	>10.00	3.5	11	63	10	3.69	<0.01	5.66	1711	21	0.07	13	0.08	20	<2	15	117	<5	<3	66
92922	<0.1	0.07	<3	15	<3	>10.00	3.0	7	32	3	4.58	<0.01	7.68	3193	23	0.09	25	<0.01	19	<2	13	101	<5	<3	97

Minimum Detection 0.1 0.01 3 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 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

===== LIMITED =====
 1630 Pandora Street, Vancouver B.C. V5L 1L6
 Ph: (604) 251-5636 Fax: 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: *John Buchholz*

REPORT #: 900195 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: ARC 243 DATE IN: AUG 07 1990 DATE OUT: AUG 25 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 2 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	µ	ppm	ppm	ppm	µ	ppm	ppm	ppm	ppm	µ	µ	µ	ppm	ppm	µ	ppm	µ	ppm	ppm	ppm	ppm	ppm	ppm	ppm
92923	<0.1	0.39	<3	26	<3	>10.00	1.9	18	17	4	5.88	<0.01	5.72	2459	23	0.08	24	0.11	21	<2	11	295	<5	<3	41
Minimum Detection	0.1	0.01	3	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	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

LABORATORY 2011 08/25/90

1630 P... A STREET
VANCOU... BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1088 TRIUMPH ST.~~
VANCOUVER, B.C. V5L 1K5
● (604) 251-5656
● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900197 GA

JOB NUMBER: 900197

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 1

SAMPLE #	Ag ppm	Au ppb
92881	nd	nd
92882	.2	nd
92883	nd	nd
92884	nd	nd
92885	nd	nd
92886	nd	nd
92887	nd	nd
92888	nd	nd
92889	nd	nd
92890	nd	10
92891	nd	nd
92892	nd	nd
92893	nd	nd
92894	nd	nd
92895	nd	nd
92896	nd	nd
92897	nd	nd
92898	nd	nd

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

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: *Raymond*

REPORT #: 900197 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: NONE GIVEN DATE IN: AUG 07 1990 DATE OUT: AUG 25 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
92881	<0.1	0.30	5	28	<3	>10.00	22.1	4	668	<1	4.57	<0.01	4.10	1966	515	<0.01	2787	0.12	<2	<2	6	83	<5	<3	66
92882	0.2	0.39	20	16	34	0.45	0.8	<1	29	<1	2.11	<0.01	0.13	485	37	<0.01	76	0.05	<2	<2	4	23	<5	<3	24
92883	<0.1	0.31	33	>1000	<3	4.02	<0.1	<1	69	<1	1.00	<0.01	2.00	1852	2	<0.01	7	0.02	<2	<2	<2	134	<5	<3	16
92884	<0.1	0.20	30	51	<3	>10.00	4.5	6	56	<1	5.60	0.01	5.47	2733	5	<0.01	25	0.10	<2	<2	7	74	<5	<3	65
92885	<0.1	0.51	18	502	70	4.82	3.1	3	16	<1	5.18	0.05	0.83	2356	6	<0.01	<1	0.15	<2	<2	6	83	<5	<3	49
92886	<0.1	0.29	64	20	76	0.16	<0.1	<1	19	<1	1.66	<0.01	0.03	552	5	0.02	4	0.02	5	<2	3	13	<5	<3	28
92887	<0.1	0.17	44	24	95	0.42	<0.1	<1	126	<1	1.89	<0.01	0.07	897	4	<0.01	5	0.02	<2	<2	3	16	<5	<3	22
92888	<0.1	0.19	45	7	<3	>10.00	5.5	7	9	<1	4.42	0.06	4.86	2621	7	<0.01	20	0.02	8	<2	8	47	<5	<3	77
92889	<0.1	0.10	42	9	4	0.26	0.7	3	178	<1	0.69	0.06	0.08	351	6	0.02	8	0.01	20	<2	4	7	<5	<3	16
92890	<0.1	0.26	62	18	37	0.56	2.8	10	18	<1	1.82	0.06	0.07	354	16	0.03	5	<0.01	20	<2	5	16	<5	<3	12
92891	<0.1	1.19	49	21	62	>10.00	<0.1	11	89	<1	2.29	0.09	0.72	1134	8	<0.01	24	0.07	22	<2	7	1077	<5	<3	35
92892	<0.1	0.14	68	11	15	3.68	4.6	9	59	<1	2.33	0.17	1.10	1198	15	0.04	18	0.03	49	<2	12	79	<5	<3	21
92893	<0.1	0.19	76	41	<3	>10.00	7.5	25	24	<1	6.59	0.11	3.91	2762	16	<0.01	46	0.04	44	<2	16	245	<5	<3	62
92894	<0.1	0.15	59	152	82	1.07	1.6	5	121	<1	1.12	0.10	0.15	1101	9	0.03	6	0.03	32	<2	9	58	<5	<3	17
92895	<0.1	0.10	75	66	71	0.11	1.1	6	206	<1	0.67	0.09	<0.01	364	11	0.04	7	0.02	34	<2	11	19	6	<3	18
92896	<0.1	0.40	132	51	<3	>10.00	5.9	14	23	<1	3.57	0.15	4.34	1374	13	<0.01	20	0.05	41	<2	14	388	7	<3	42
92897	<0.1	0.29	33	29	<3	3.15	4.1	8	161	<1	1.96	0.12	0.92	953	10	0.01	16	0.03	29	<2	9	148	<5	<3	21
92898	<0.1	0.51	47	211	50	2.87	6.3	22	55	<1	4.00	0.15	1.00	836	16	<0.01	37	0.17	58	<2	12	181	<5	<3	129

Minimum Detection 0.1 0.01 3 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 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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

92891-92898

VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
4988 TRIUMPH ST.
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900410 AA

JOB NUMBER: 900410

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 1

SAMPLE #	Cu %	Ag oz/st	Au oz/st
81618	<.01	<.01	<.005
81619	.01	<.01	<.005
81620	.01	.02	<.005
81621	.01	.03	<.005
81622	.01	<.01	<.005
81623	.01	.02	<.005
81624	.01	.02	<.005
81625	.01	<.01	<.005
81626	<.01	.01	<.005
81627	.02	<.01	<.005
81628	.01	<.01	<.005
81629	.01	<.01	<.005
81630	.01	<.01	<.005
92559	.01	.02	<.005
92560	.01	<.01	<.005
92561	.05	.02	<.005

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.01

ppm = parts per million

.005

< = less than

signed: _____

[Handwritten Signature]

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1988 TRIUMPH ST.~~
VANCOUVER, B.C. V6L 1K5
● (604) 251-5656
● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900296 GA

JOB NUMBER: 900296

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 5 OF 6

SAMPLE #	Ag ppm	Au ppb
M+M3 L2-B14	nd	nd
M+M3 L2-B15	nd	10
ARC-3 L1 0+00N	nd	nd
ARC-3 L1 0+50N	nd	15
ARC-3 L1 1+00N	nd	15
ARC-3 L1 1+50N	nd	30
ARC-3 L1 2+00N	nd	nd
ARC-3 L1 2+50N	nd	15
ARC-3 L1 3+00N	nd	5
ARC-3 L1 3+50N	nd	10
ARC-3 L1 4+00N	nd	5
ARC-3 L1 4+50N	nd	nd
ARC-3 L1 5+00N	nd	nd
ARC-3 L1 5+50N	nd	25
ARC-3 L1 6+00N	nd	nd
ARC-3 L1 6+50N	nd	nd
ARC-3 L1 6+60N	nd	5
ARC-3 L1 7+00N	nd	nd
ARC-3 L1 7+50N	nd	5
ARC-3 L1 8+00N	nd	15
ARC-3 L1 8+50N	nd	nd
ARC-3 L1 9+00N	nd	10
ARC-3 L1 9+50N	nd	10
ARC-3 L1 10+00N	nd	nd
ARC-3 L1 10+50N	nd	5
ARC-3 L1 11+00N	nd	nd
ARC-3 L1 11+50N	nd	nd
ARC-3 L1 12+00N	nd	20
ARC-3 L1 12+50N	nd	nd
ARC-3 L1 13+00N	nd	nd
ARC-3 L1 13+50N	nd	10
ARC-3 L1 14+00N	nd	nd
ARC-3 L1 14+50N	nd	5
ARC-3 L1 15+00N	nd	15
ARC-3 L1 15+50N	nd	nd
ARC-3 L1 16+00N	nd	10
ARC-3 L1 16+00N (B)	nd	nd
ARC-3 L1 16+50N	nd	nd
ARC-3 L1 17+00N	nd	nd

DETECTION LIMIT 0.1 5

nd = none detected -- = not analysed is = insufficient sample

1630 PANDORA STREET
 VANCOUVER, BC V5L 1L6
 (604) 251-5656



MAIN OFFICE
 1988 TRIUMPH ST.
 VANCOUVER, B.C. V5L 1K5
 • (604) 251-5656
 • FAX (604) 254-5717

BRANCH OFFICES
 PASADENA, N.F.L.D.
 BATHURST, N.B.
 MISSISSAUGA, ONT.
 RENO, NEVADA, U.S.A.

REPORT NUMBER: 900296 GA JOB NUMBER: 900296 SULLIVAN MANAGEMENT/KESTREL RES. PAGE 6 OF 6

SAMPLE #	Ag ppm	Au ppb
ARC-3 L1 17+50N	nd	10
ARC-3 L2 0+00S	nd	5
ARC-3 L2 0+50S	nd	5
ARC-3 L2 1+00S	nd	15
ARC-3 L2 1+50S	nd	10
ARC-3 L2 2+00S	nd	5
ARC-3 L2 2+50S	nd	5
ARC-3 L2 3+00S	nd	nd
ARC-3 L2 3+50S	nd	5
ARC-3 L2 4+00S	nd	10
ARC-3 L2 4+50S	nd	15
ARC-3 L2 5+25S	nd	10
ARC-3 L2 5+50S	nd	10
ARC-3 L2 6+00S	nd	nd
ARC-3 L2 6+50S	nd	20
ARC-3 L2 7+00S	nd	15
ARC-3 L2 7+50S	nd	nd
ARC-3 L2 8+00S	nd	nd
ARC-3 L2 8+50S	nd	10
ARC-3 L2 9+00S	nd	5
ARC-3 L2 9+50S	nd	15
ARC-3 L2 10+00S	nd	5
ARC-3 L2 10+50S	nd	5
ARC-3 L2 11+00S	nd	nd
ARC-3 L2 11+50S	nd	nd
ARC-3 L2 12+00S	nd	15
ARC-3 L2 12+50S	nd	10
ARC-3 L2 13+00S	nd	10

DETECTION LIMIT 0.1 5
 nd = none detected -- = not analysed is = insufficient sample

VANGOECHER LAB LIMITED

1630 Pandora Street, Vancouver V5L 1L6
 Phi (604) 251-5656 Fax: (604) 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, Sb, Sr and W.

ANALYST: *Agnes*

REPORT #: 900296 PA

SULLIVAN MANAGEMENT / KESTREL RES.

PROJECT: NONE GIVEN

DATE IN: AUG 24/1990

DATE OUT: SEPT 25 1990

ATTENTION: MR. JOHN BUCHHOLTZ

PAGE 5 OF 6

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	I	ppm	ppm	ppm	I	ppm	ppm	ppm	ppm	I	I	I	ppm	ppm	I	ppm	I	ppm	ppm	ppm	ppm	ppm	ppm	ppm
M-H3 L2-B15	<0.1	3.44	<3	39	<3	0.18	1.4	9	18	37	5.03	0.01	0.33	590	15	<0.01	9	0.08	46	6	9	12	<5	<3	79
ARC-3 L1 0+00N	<0.1	2.06	<3	197	<3	0.74	3.1	29	41	46	5.57	0.03	1.17	1903	10	<0.01	39	0.16	32	<2	7	58	<5	<3	123
ARC-3 L1 0+50N	<0.1	2.93	<3	356	<3	0.60	3.3	36	56	67	5.84	0.03	1.43	1626	11	<0.01	47	0.09	38	8	10	58	<5	<3	125
ARC-3 L1 1+00N	<0.1	2.34	<3	186	<3	0.56	2.6	29	48	50	5.04	0.02	1.18	1305	9	<0.01	41	0.10	29	<2	8	41	<5	<3	97
ARC-3 L1 1+50N	<0.1	3.39	<3	170	<3	0.42	1.7	18	50	34	5.13	0.02	0.72	601	13	<0.01	26	0.11	27	<2	9	31	<5	<3	92
ARC-3 L1 2+00N	<0.1	4.28	<3	77	<3	0.22	3.4	29	60	44	6.36	0.02	0.72	1374	15	<0.01	24	0.11	33	8	11	20	<5	<3	113
ARC-3 L1 2+50N	<0.1	5.53	<3	222	<3	0.27	1.5	16	43	48	6.42	0.02	0.43	1612	23	0.03	30	0.08	54	11	13	26	<5	<3	150
ARC-3 L1 3+00N	<0.1	3.82	<3	66	<3	0.23	2.1	23	50	37	5.18	0.02	0.72	825	13	<0.01	26	0.08	29	<2	10	21	<5	<3	123
ARC-3 L1 3+50N	<0.1	2.81	<3	170	<3	0.45	2.6	30	55	52	4.98	0.02	1.10	1192	12	<0.01	48	0.10	25	<2	9	33	<5	<3	87
ARC-3 L1 4+00N	<0.1	4.39	<3	156	<3	0.45	2.1	35	47	49	5.43	0.02	0.66	2798	20	0.02	29	0.10	29	2	10	35	<5	<3	122
ARC-3 L1 4+50N	<0.1	3.27	<3	171	<3	0.35	2.0	29	45	58	5.21	0.02	0.96	1766	13	0.02	40	0.11	30	<2	8	26	<5	<3	114
ARC-3 L1 5+00N	<0.1	2.11	<3	226	<3	0.63	2.6	31	38	49	5.33	0.02	1.12	1640	10	<0.01	41	0.17	26	<2	8	48	<5	<3	96
ARC-3 L1 5+50N	<0.1	2.37	<3	246	<3	0.34	8.5	60	36	65	>10.00	0.05	0.63	9142	103	<0.01	56	0.34	92	55	13	30	<5	<3	276
ARC-3 L1 6+00N	<0.1	1.60	13	97	<3	0.12	<0.1	4	9	9	1.95	0.01	0.19	1014	10	0.04	11	0.04	10	<2	4	11	<5	<3	30
ARC-3 L1 6+50N	<0.1	3.30	<3	89	<3	0.48	1.9	27	51	39	5.54	0.02	1.11	823	13	<0.01	39	0.07	33	<2	9	35	<5	<3	108
ARC-3 L1 6+60N	<0.1	4.13	<3	347	<3	0.60	2.9	38	68	89	6.18	0.03	1.74	1303	14	<0.01	58	0.10	36	3	11	45	<5	<3	136
ARC-3 L1 7+00N	<0.1	3.58	<3	464	<3	0.70	2.6	35	60	77	5.76	0.03	1.49	1397	13	<0.01	54	0.11	32	5	10	49	<5	<3	107
ARC-3 L1 7+50N	<0.1	2.98	<3	299	<3	0.69	2.8	35	57	191	5.90	0.03	1.59	1562	11	<0.01	58	0.11	32	7	9	46	<5	<3	118
ARC-3 L1 8+00N	<0.1	3.10	<3	160	<3	0.40	2.9	16	41	37	6.68	0.02	0.59	1208	15	0.01	31	0.23	31	7	8	27	<5	<3	80
ARC-3 L1 8+50N	<0.1	2.82	<3	235	<3	0.57	3.5	26	42	180	6.09	0.03	1.04	2941	16	<0.01	40	0.11	50	7	8	36	<5	<3	166
ARC-3 L1 9+00N	<0.1	2.99	<3	94	<3	0.39	2.0	17	33	39	4.82	0.02	0.71	951	13	0.02	38	0.08	36	3	9	30	<5	<3	114
ARC-3 L1 9+50N	<0.1	2.09	4	121	<3	0.55	2.5	29	43	59	5.04	0.02	1.17	1485	9	0.01	45	0.11	33	2	8	41	<5	<3	85
ARC-3 L1 10+00N	<0.1	2.16	<3	141	<3	0.56	2.8	33	44	70	5.52	0.02	1.30	1788	10	0.01	53	0.12	34	8	7	39	<5	<3	98
ARC-3 L1 10+50N	<0.1	2.55	<3	155	<3	0.45	4.7	23	38	76	5.06	0.02	0.90	1738	14	<0.01	39	0.11	52	4	8	36	<5	<3	746
ARC-3 L1 11+00N	<0.1	2.88	<3	93	<3	0.40	2.8	28	42	51	5.50	0.02	1.06	1669	11	0.01	48	0.11	30	6	8	32	<5	<3	99
ARC-3 L1 11+50N	<0.1	3.66	<3	196	<3	0.64	2.5	33	65	80	5.81	0.03	1.60	1145	13	<0.01	58	0.10	34	7	10	63	<5	<3	131
ARC-3 L1 12+00N	<0.1	2.80	<3	205	<3	0.65	2.9	30	47	74	5.25	0.03	1.19	1468	11	0.01	51	0.12	32	4	8	49	<5	<3	101
ARC-3 L1 12+50N	<0.1	3.10	<3	93	<3	0.47	2.2	29	49	56	5.13	0.02	1.16	1146	12	<0.01	50	0.08	28	5	9	36	<5	<3	79
ARC-3 L1 13+00N	<0.1	1.70	6	60	<3	0.47	2.0	26	39	47	4.22	0.02	1.10	943	9	<0.01	51	0.08	30	<2	6	31	<5	<3	69
ARC-3 L1 13+50N	<0.1	4.05	<3	80	<3	0.62	2.3	23	39	40	4.51	0.03	0.94	1138	14	0.05	43	0.12	29	<2	10	56	<5	<3	95
ARC-3 L1 14+00N	<0.1	2.14	<3	144	<3	0.22	3.6	24	22	33	6.97	0.02	0.38	3283	27	0.02	31	0.14	43	10	8	17	<5	<3	161
ARC-3 L1 14+50N	<0.1	3.69	<3	115	<3	0.37	2.6	30	51	51	5.13	0.02	1.12	1339	12	<0.01	49	0.11	30	5	9	25	<5	<3	89
ARC-3 L1 15+00N	<0.1	2.44	<3	303	<3	0.78	2.6	33	48	85	5.56	0.03	1.45	1444	11	<0.01	54	0.10	35	7	8	50	<5	<3	127
ARC-3 L1 15+50N	<0.1	3.13	<3	329	<3	0.64	2.3	35	56	66	5.62	0.03	1.38	1382	11	<0.01	59	0.10	31	5	10	45	<5	<3	111
ARC-3 L1 16+00N	<0.1	3.14	<3	304	<3	0.67	2.3	32	52	72	5.52	0.03	1.33	1561	11	<0.01	53	0.09	29	8	9	45	<5	<3	102
ARC-3 L1 16+00N (B)	<0.1	2.46	<3	316	<3	0.51	3.0	25	37	64	5.27	0.02	0.97	1608	11	0.01	51	0.11	40	6	7	38	<5	<3	160
ARC-3 L1 16+50N	<0.1	2.51	<3	280	<3	1.61	3.1	31	51	64	4.91	0.04	1.58	1289	9	0.01	60	0.10	29	6	8	63	<5	<3	87
ARC-3 L1 17+00N	<0.1	2.76	<3	226	<3	0.52	3.4	30	50	74	5.32	0.02	1.27	1233	10	<0.01	58	0.10	33	5	9	33	<5	<3	109
ARC-3 L1 17+50N	<0.1	3.37	<3	144	<3	0.33	2.2	25	48	72	5.88	0.02	0.95	1146	13	<0.01	45	0.08	36	6	10	25	<5	<3	138

Minimum Detection 0.1 0.01 3 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 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - further Analyses By Alternate Methods Suggested.

IMPRIE AU CANADA

VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604) 251-5656 Fax: (604) 251-5717

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: *Raymond L.*

REPORT #: 900296 PA

SULLIVAN MANAGEMENT / KESTREL RES.

PROJECT: NONE GIVEN

DATE IN: AUG 24/1990

DATE OUT: SEPT 25 1990

ATTENTION: MR. JOHN BUCHHOLZ

PAGE 6 OF 6

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ARC-3 L2 0+00S	<0.1	3.01	<3	206	<3	0.54	1.5	29	54	55	5.23	0.02	1.43	1021	13	0.01	43	0.11	37	3	9	47	<5	<3	111
ARC-3 L2 0+50S	<0.1	2.66	<3	61	<3	0.39	2.4	23	36	43	4.92	0.02	0.82	1409	13	0.01	28	0.11	39	3	9	37	<5	<3	115
ARC-3 L2 1+00S	<0.1	2.80	<3	62	<3	0.36	2.6	25	43	69	4.86	0.02	1.02	1079	13	0.02	35	0.06	35	3	8	31	<5	<3	98
ARC-3 L2 1+50S	<0.1	2.42	<3	63	<3	0.29	1.6	20	36	38	4.80	0.02	0.73	1200	12	0.01	26	0.10	34	<2	7	28	<5	<3	90
ARC-3 L2 2+00S	<0.1	2.50	<3	87	<3	0.43	1.3	17	37	33	4.22	0.02	0.76	818	13	0.02	26	0.07	33	<2	7	52	<5	<3	109
ARC-3 L2 2+50S	<0.1	2.05	<3	52	<3	0.83	2.7	23	45	33	4.99	0.03	1.16	628	11	<0.01	33	0.13	34	<2	7	88	<5	<3	95
ARC-3 L2 3+00S	<0.1	2.77	<3	130	<3	0.61	2.1	17	39	32	4.24	0.02	0.75	418	14	0.02	29	0.08	34	<2	8	80	<5	<3	136
ARC-3 L2 3+50S	<0.1	2.91	<3	151	<3	0.72	2.5	30	50	58	5.25	0.03	1.30	1667	13	<0.01	37	0.11	37	2	8	64	<5	<3	104
ARC-3 L2 4+00S	<0.1	2.30	<3	165	<3	0.79	2.4	33	55	62	5.24	0.03	1.40	1256	13	<0.01	45	0.13	37	5	8	64	<5	<3	99
ARC-3 L2 4+50S	<0.1	2.68	<3	153	<3	0.55	2.2	30	49	85	5.86	0.03	1.11	1665	16	0.02	43	0.11	41	4	8	48	<5	<3	116
ARC-3 L2 5+25S	<0.1	2.68	<3	237	<3	0.74	2.2	32	55	64	5.31	0.03	1.44	1399	12	<0.01	44	0.12	36	5	9	57	<5	<3	109
ARC-3 L2 5+50S	<0.1	2.58	11	227	<3	0.71	1.3	28	54	55	4.75	0.03	1.13	877	15	<0.01	38	0.12	34	4	8	60	<5	<3	98
ARC-3 L2 6+00S	<0.1	3.34	<3	260	<3	0.63	1.0	26	56	53	5.00	0.02	1.01	837	18	0.01	36	0.11	35	4	9	53	<5	<3	108
ARC-3 L2 6+50S	<0.1	2.50	<3	219	<3	0.74	2.1	31	55	66	5.54	0.03	1.30	1736	13	<0.01	43	0.12	38	6	8	61	<5	<3	133
ARC-3 L2 7+00S	<0.1	4.10	<3	630	<3	0.55	2.1	26	64	112	6.44	0.03	1.16	1258	15	0.02	48	0.06	40	10	11	40	<5	<3	143
ARC-3 L2 7+50S	<0.1	3.18	<3	288	<3	0.78	2.5	35	63	73	5.83	0.03	1.51	1386	12	<0.01	48	0.12	38	8	9	56	<5	<3	109
ARC-3 L2 8+00S	<0.1	6.55	<3	245	<3	0.24	<0.1	9	36	24	5.80	0.03	0.18	1101	19	0.03	13	0.08	51	5	12	18	<5	<3	202
ARC-3 L2 8+50S	<0.1	5.10	<3	94	<3	0.36	1.3	27	62	39	5.45	0.02	1.30	920	15	<0.01	38	0.11	27	<2	11	27	<5	<3	103
ARC-3 L2 9+00S	<0.1	4.28	<3	153	<3	0.26	1.2	20	48	33	5.51	0.02	0.80	628	15	<0.01	27	0.09	35	2	10	22	<5	<3	93
ARC-3 L2 9+50S	<0.1	3.04	<3	250	<3	0.90	1.7	35	57	72	5.60	0.03	1.59	1478	12	<0.01	47	0.11	35	<2	10	62	<5	<3	113
ARC-3 L2 10+00S	<0.1	3.04	8	176	<3	0.43	0.9	27	45	47	5.21	0.02	0.96	1267	12	<0.01	37	0.14	32	<2	8	33	<5	<3	113
ARC-3 L2 10+50S	<0.1	3.25	18	358	<3	0.80	1.4	38	60	79	6.21	0.03	1.57	1794	13	<0.01	51	0.13	38	6	9	59	<5	<3	116
ARC-3 L2 11+00S	<0.1	3.21	10	181	<3	0.34	<0.1	20	40	53	4.45	0.02	0.75	777	12	0.02	36	0.12	35	<2	8	29	<5	<3	133
ARC-3 L2 11+50S	<0.1	2.50	<3	220	<3	0.93	1.6	30	45	56	5.15	0.03	1.33	1378	10	<0.01	38	0.13	35	5	8	55	<5	<3	97
ARC-3 L2 12+00S	<0.1	2.48	7	183	<3	0.59	<0.1	25	39	48	4.56	0.02	1.08	1093	11	<0.01	29	0.12	30	<2	7	43	<5	<3	93
ARC-3 L2 12+50S	<0.1	4.72	<3	196	<3	0.20	0.1	18	37	39	5.20	0.02	0.70	876	16	0.01	27	0.12	35	<2	10	17	<5	<3	175
ARC-3 L2 13+00S	<0.1	5.94	9	128	<3	0.18	<0.1	10	17	22	5.57	0.02	0.10	1132	19	0.05	9	0.10	53	7	12	10	<5	<3	152
M+H2 L1 27+50S (B)	<0.1	2.96	<3	210	<3	0.40	2.3	29	32	37	>10.00	0.04	0.89	3854	17	<0.01	35	0.16	49	18	10	34	<5	<3	133

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 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 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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

PRINTED IN CANADA

PRINTED IN CANADA

REPORT NUMBER: 900391 GA

JOB NUMBER: 900391

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 4

SAMPLE #	Ag ppm	Au ppb
ARC4 L4600 0+00	.1	10
ARC4 L4600 0+25	.1	15
ARC4 L4600 0+50	.3	20
ARC4 L4600 0+75	.2	5
ARC4 L4600 1+00	.2	15
ARC4 L4600 1+25	.1	5
ARC4 L4600 1+50	nd	20
ARC4 L4600 1+75	nd	nd
ARC4 L4600 2+00	.1	20
ARC4 L4600 2+25	.2	10
ARC4 L4600 2+50	nd	nd
ARC4 L4600 2+75	.2	25
ARC4 L4600 3+00	.2	30
ARC4 L4600 3+25	.1	nd
ARC4 L4600 3+50	nd	5
ARC4 L4600 3+75	nd	30
ARC4 L4600 4+00	nd	15
ARC4 L4600 4+25	nd	nd
ARC4 L4600 4+50	nd	10
ARC4 L4600 4+75	nd	nd
ARC4 L4600 5+00	nd	30
ARC4 L4600 5+25	nd	20
ARC4 L4600 5+50	nd	5
ARC4 L4600 5+75	nd	25
ARC4 L4600 6+00	nd	10
ARC4 L4600 6+25	nd	25
ARC4 L4600 6+50	nd	5
ARC4 L4600 6+75	nd	15
ARC4 L4600 7+00	nd	5
ARC4 L4600 7+25	nd	10
ARC4 L4600 7+50	nd	nd
ARC4 L4600 7+75	nd	5
ARC4 L4600 8+00	.1	15
ARC4 L4600 8+25	.1	nd
ARC4 L4600 8+50	nd	5
ARC4 L4600 9+00	nd	15
ARC4 L4600 9+25	.2	15
ARC4 L4600 9+50	nd	15
ARC4 L4600 9+75	nd	10

DETECTION LIMIT 0.1 5

nd = none detected -- = not analysed is = insufficient sample

REPORT NUMBER: 900391 GA

JOB NUMBER: 900391

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 2 OF 4

SAMPLE #	Ag ppm	Au ppb
ARC4 L4600 10+00	.2	10
ARC4 L5000 0+00	nd	15
ARC4 L5000 0+25	.2	25
ARC4 L5000 0+50	.1	30
ARC4 L5000 0+75	.1	20
ARC4 L5000 1+00	.1	25
ARC4 L5000 1+25	nd	20
ARC4 L5000 1+50	nd	nd
ARC4 L5000 1+75	.2	10
ARC4 L5000 2+00	.1	5
ARC4 L5000 2+25	.1	5
ARC4 L5000 2+50	.2	20
ARC4 L5000 2+75	.2	5
ARC4 L5000 3+00	.1	nd
ARC4 L5000 3+50	.1	nd
ARC4 L5000 3+75	.2	20
ARC4 L5000 4+00	.1	30
ARC4 L5000 4+25	.5	nd
ARC4 L5000 4+50	.2	10
ARC4 L5000 4+75	.1	nd
ARC4 L5000 5+00	.1	10
ARC4 L5000 5+25	.1	30
ARC4 L5000 5+50	.2	25
ARC4 L5000 5+75	.2	35
ARC4 L5000 6+00	.1	nd
ARC4 L5000 6+25	.1	nd
ARC4 L5000 6+50	nd	10
ARC4 L5000 6+75	nd	30
ARC4 L5000 7+00	nd	30
ARC4 L5000 7+25	.2	10
ARC4 L5000 7+50	nd	15
ARC4 L5000 7+75	nd	nd
ARC4 L5000 8+00	.3	nd
ARC4 L5000 8+25	nd	nd
ARC4 L5000 8+50	.2	20
ARC4 L5000 8+75	nd	nd
ARC4 L5000 9+00	.1	35
ARC4 L5000 9+25	.2	30
ARC4 L5000 9+50	nd	5

DETECTION LIMIT 0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900391 GA

JOB NUMBER: 900391

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 3 OF 4

SAMPLE #	Ag ppm	Au ppb
ARC4 L5000 9+75	.2	15
ARC4 L5000 10+00	nd	10
ARC4 L5000 10+25	nd	15
ARC4 L5000 10+50	nd	15
ARC4 L5000 10+75	.1	5
ARC4 L5000 11+00	.1	5
ARC4 L5000 11+25	nd	30
ARC4 L5000 11+50	nd	35
ARC4 L5000 11+75	nd	35
ARC4 L5000 12+00	.2	5
ARC4 L5000 12+25	nd	5
ARC4 L5000 12+50	.1	5
ARC4 L5000 12+75	.1	30
ARC4 L5000 13+00	nd	15
ARC4 L5000 13+25	nd	25
ARC4 L5000 13+50	.1	nd
ARC4 L5000 13+75	nd	5
ARC4 L5000 14+00	nd	10
ARC4 L5000 14+25	nd	nd
ARC4 L5000 14+50	.1	20
ARC4 L5000 14+75	.1	nd
ARC4 L5000 15+00	nd	25
ARC4 L5000 15+25	nd	10
ARC4 L5000 15+50	nd	10
ARC4 L5000 15+75	nd	15
ARC4 L5000 16+00	nd	nd
ARC4 L5000 16+25	.2	5
ARC4 L5000 16+50	.2	nd
ARC4 L5000 16+75	nd	5
ARC4 L5000 17+00	nd	nd
ARC4 L5000 17+25	nd	5
ARC4 L5000 17+50	nd	5
ARC4 L5000 17+75	nd	5
ARC4 L5000 18+00	nd	15
ARC4 L5000 18+25	nd	10
ARC4 L5000 18+50	nd	nd
ARC4 L5000 18+75	.2	10
ARC4 L5000 19+00	nd	20
ARC4 L5000 19+25	nd	5

DETECTION LIMIT 0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

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: *Raymond*

REPORT #: 900391 PA

SULLIVAN MANAGEMENT / KESTREL RES.

PROJECT: ARC 4

DATE IN: SEPT 05 1990

DATE OUT: OCT 05 1990

ATTENTION: MR. JOHN BUCHHOLZ

PAGE 1 OF 4

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ARC4 L4600 0+00	0.1	3.50	<3	161	<3	0.57	2.2	33	58	39	5.93	0.18	1.56	1422	17	0.06	45	0.10	<2	<2	15	42	<5	<3	94
ARC4 L4600 0+25	0.1	3.43	<3	122	<3	0.61	3.3	34	62	40	5.93	0.19	1.64	1288	17	0.06	49	0.11	<2	<2	16	40	<5	<3	102
ARC4 L4600 0+50	0.3	2.82	<3	111	<3	0.41	2.6	20	38	20	4.65	0.13	1.02	1387	15	0.07	26	0.12	<2	<2	13	38	<5	<3	84
ARC4 L4600 0+75	0.2	1.97	<3	103	<3	0.30	1.2	16	25	14	3.34	0.10	0.71	457	11	0.06	12	0.08	<2	<2	12	26	<5	<3	63
ARC4 L4600 1+00	0.2	2.43	<3	232	<3	0.45	1.6	23	29	18	4.11	0.13	0.91	3296	14	0.05	17	0.14	<2	<2	12	45	<5	<3	59
ARC4 L4600 1+25	0.1	3.87	<3	204	<3	0.73	1.5	35	51	36	6.15	0.21	1.73	1139	16	0.06	38	0.09	<2	<2	17	68	<5	<3	84
ARC4 L4600 1+50	<0.1	3.81	<3	153	<3	0.73	2.6	40	65	53	6.45	0.24	1.85	1304	18	0.07	49	0.14	<2	<2	18	51	<5	<3	92
ARC4 L4600 1+75	<0.1	3.30	<3	207	<3	0.67	2.6	39	58	47	6.47	0.21	1.55	2381	17	0.07	39	0.17	<2	<2	16	52	<5	<3	98
ARC4 L4600 2+00	0.1	3.20	<3	139	<3	0.48	2.6	19	32	24	5.73	0.19	1.05	1091	16	0.07	15	0.12	<2	<2	13	75	<5	<3	90
ARC4 L4600 2+25	0.2	2.65	<3	152	<3	0.30	0.7	9	21	8	3.78	0.11	0.47	1207	16	0.05	2	0.13	<2	<2	11	63	<5	<3	49
ARC4 L4600 2+50	<0.1	1.87	<3	112	<3	0.55	1.0	11	14	10	3.09	0.13	0.45	1403	10	0.08	3	0.12	<2	<2	10	110	<5	<3	52
ARC4 L4600 2+75	0.2	2.75	<3	87	<3	0.60	1.7	30	34	26	5.70	0.19	1.48	1195	13	0.04	23	0.09	<2	<2	15	69	<5	<3	79
ARC4 L4600 3+00	0.2	3.32	<3	249	<3	0.93	1.5	18	29	23	4.77	0.21	0.97	1159	14	0.06	10	0.14	<2	<2	12	201	<5	<3	68
ARC4 L4600 3+25	0.1	2.27	<3	283	<3	0.86	1.3	13	20	14	4.35	0.17	0.83	1343	12	0.06	4	0.21	<2	<2	12	114	<5	<3	80
ARC4 L4600 3+50	<0.1	2.54	<3	189	<3	0.80	1.5	22	19	11	5.79	0.21	1.14	2030	14	0.07	3	0.26	<2	<2	13	75	<5	<3	113
ARC4 L4600 3+75	<0.1	3.60	<3	162	<3	0.33	1.4	15	28	12	5.75	0.15	1.13	757	17	0.06	10	0.17	<2	<2	15	54	<5	<3	98
ARC4 L4600 4+00	<0.1	1.99	<3	275	<3	0.83	1.1	20	13	79	6.46	0.19	0.63	3886	11	0.04	3	0.18	<2	<2	10	59	<5	<3	105
ARC4 L4600 4+25	<0.1	2.03	<3	116	<3	0.68	1.3	18	11	78	5.06	0.18	0.75	2721	9	0.03	3	0.12	<2	<2	10	68	<5	<3	119
ARC4 L4600 4+50	<0.1	2.06	<3	169	<3	0.90	0.7	15	24	36	5.85	0.21	0.77	2800	24	0.04	58	0.23	<2	<2	10	86	<5	<3	102
ARC4 L4600 4+75	<0.1	2.42	<3	189	<3	0.98	1.0	20	14	56	6.21	0.22	0.93	2818	12	0.05	2	0.19	<2	<2	10	99	<5	<3	106
ARC4 L4600 5+00	<0.1	2.70	<3	154	<3	0.86	1.8	17	18	48	6.24	0.23	1.20	1999	15	0.06	3	0.24	<2	<2	11	96	<5	<3	110
ARC4 L4600 5+25	<0.1	2.78	<3	253	<3	0.96	1.7	16	19	14	6.46	0.24	1.03	3188	15	0.08	<1	0.24	<2	<2	13	159	<5	<3	109
ARC4 L4600 5+50	<0.1	2.57	<3	423	<3	1.47	1.0	13	14	10	5.76	0.27	0.84	2543	15	0.07	<1	0.33	<2	<2	12	244	<5	<3	97
ARC4 L4600 5+75	<0.1	3.50	<3	111	<3	0.18	0.2	13	25	19	4.55	0.14	0.82	1195	15	0.07	4	0.11	<2	<2	13	28	<5	<3	103
ARC4 L4600 6+00	<0.1	3.45	<3	78	<3	0.08	0.2	10	24	16	3.84	0.09	0.67	473	15	0.06	<1	0.10	<2	<2	12	14	<5	<3	71
ARC4 L4600 6+25	<0.1	2.54	<3	488	<3	0.57	2.2	48	20	37	8.83	0.25	0.86	5665	18	0.08	22	0.21	<2	<2	13	129	<5	<3	92
ARC4 L4600 6+50	<0.1	3.33	<3	83	<3	0.23	<0.1	19	29	20	4.64	0.14	1.08	1166	16	0.07	10	0.11	<2	<2	13	30	<5	<3	99
ARC4 L4600 6+75	<0.1	3.69	<3	140	<3	0.12	0.6	14	22	15	4.73	0.11	1.04	879	16	0.06	4	0.10	<2	<2	12	29	<5	<3	76
ARC4 L4600 7+00	<0.1	5.11	<3	283	<3	0.29	0.9	20	22	27	5.78	0.18	1.26	1259	19	0.07	10	0.12	<2	<2	17	63	<5	<3	109
ARC4 L4600 7+25	<0.1	3.52	<3	142	<3	0.47	0.8	23	17	24	6.12	0.18	1.40	1727	16	0.06	10	0.21	<2	<2	13	74	<5	<3	91
ARC4 L4600 7+50	<0.1	3.20	<3	123	<3	0.38	0.3	22	16	22	5.79	0.15	0.97	2510	15	0.08	<1	0.15	<2	<2	14	66	<5	<3	117
ARC4 L4600 7+75	<0.1	3.83	<3	175	<3	0.45	1.5	17	19	31	6.13	0.20	0.97	1539	16	0.07	3	0.15	<2	<2	13	75	<5	<3	86
ARC4 L4600 8+00	0.1	3.78	<3	175	<3	0.39	1.5	26	18	31	7.89	0.20	1.03	4207	18	0.07	4	0.20	<2	<2	16	53	<5	<3	139
ARC4 L4600 8+25	0.1	4.30	<3	103	<3	1.00	2.0	42	32	59	8.85	0.27	1.76	2179	18	0.07	39	0.37	<2	<2	16	155	<5	<3	128
ARC4 L4600 8+50	<0.1	3.56	<3	159	<3	0.67	<0.1	20	23	35	5.82	0.20	1.04	1433	17	0.06	3	0.23	<2	<2	14	89	<5	<3	108
ARC4 L4600 9+00	<0.1	4.14	<3	100	<3	0.75	0.5	32	26	51	6.94	0.23	1.89	1181	19	0.05	39	0.29	<2	<2	15	69	<5	<3	97
ARC4 L4600 9+25	0.2	2.99	<3	52	<3	0.04	<0.1	11	16	25	4.54	0.10	0.44	1080	14	0.08	<1	0.11	<2	<2	12	16	<5	<3	106
ARC4 L4600 9+50	<0.1	1.38	<3	100	<3	0.09	<0.1	10	6	17	6.13	0.19	0.20	5718	13	0.15	<1	0.11	<2	<2	9	25	<5	<3	95
ARC4 L4600 9+75	<0.1	1.31	<3	88	<3	0.23	<0.1	14	382	16	4.86	0.13	0.26	1692	385	0.07	1890	0.20	<2	<2	8	36	<5	<3	74

Minimum Detection 0.1 0.01 3 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 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

IMPRIME PU CANADA

VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver B.C. V5L 1L6
 Phi(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: *Ryan*

REPORT #: 900391 PA

SULLIVAN MANAGEMENT / KESTREL RES.

PROJECT: ARC 4

DATE IN: SEPT 05 1990

DATE OUT: OCT 05 1990

ATTENTION: MR. JOHN BUCHHOLZ

PAGE 2 OF 4

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ARC4 L4600 10+00	0.2	1.99	<3	53	<3	0.21	1.3	11	25	15	4.46	0.11	0.41	1329	20	0.06	15	0.09	<2	<2	10	19	<5	<3	78
ARC4 L5000 0+00	<0.1	2.83	<3	215	<3	0.59	1.5	31	52	38	5.67	0.20	1.50	2336	18	0.06	40	0.11	<2	<2	15	56	<5	<3	89
ARC4 L5000 0+25	0.2	2.06	<3	185	<3	0.62	1.8	26	36	32	5.48	0.18	1.02	2387	18	0.08	30	0.08	<2	<2	14	84	<5	<3	87
ARC4 L5000 0+50	0.1	2.82	<3	177	<3	0.77	2.1	27	41	32	5.45	0.21	1.21	1852	16	0.06	29	0.13	<2	<2	16	92	<5	<3	88
ARC4 L5000 0+75	0.1	4.38	<3	179	<3	0.98	2.7	50	49	52	6.88	0.27	2.49	1862	21	0.07	48	0.14	<2	<2	25	64	<5	<3	112
ARC4 L5000 1+00	0.1	3.22	<3	91	<3	0.25	1.3	19	38	22	4.60	0.13	0.88	915	17	0.05	16	0.08	<2	<2	15	28	<5	<3	85
ARC4 L5000 1+25	<0.1	3.72	<3	421	<3	0.94	1.4	39	50	48	6.23	0.24	1.87	1543	19	0.06	35	0.05	<2	<2	20	76	<5	<3	91
ARC4 L5000 1+50	<0.1	2.72	<3	240	<3	0.69	1.6	30	36	30	6.37	0.21	1.17	1941	17	0.06	19	0.11	<2	<2	17	47	<5	<3	122
ARC4 L5000 1+75	0.2	4.36	<3	242	<3	0.85	3.0	47	45	71	8.78	0.30	1.75	2851	26	0.08	41	0.20	<2	<2	20	87	<5	<3	122
ARC4 L5000 2+00	0.1	1.83	<3	73	<3	0.29	1.4	24	23	18	4.30	0.11	0.79	2573	16	0.06	10	0.07	<2	<2	14	30	<5	<3	86
ARC4 L5000 2+25	0.1	3.35	<3	113	<3	0.95	2.1	44	45	46	6.86	0.24	2.09	1672	19	0.06	43	0.15	<2	<2	20	78	<5	<3	119
ARC4 L5000 2+50	0.2	3.64	<3	100	<3	0.51	1.7	30	36	30	5.56	0.18	1.52	804	18	0.07	24	0.10	<2	<2	19	45	<5	<3	92
ARC4 L5000 2+75	0.2	3.86	<3	154	<3	0.88	1.8	43	44	48	7.17	0.25	1.87	1262	21	0.08	37	0.15	<2	<2	21	76	<5	<3	118
ARC4 L5000 3+00	0.1	3.86	<3	313	<3	0.61	2.3	35	38	43	6.53	0.22	1.57	1545	19	0.07	33	0.15	<2	<2	19	47	<5	<3	134
ARC4 L5000 3+50	0.1	2.76	<3	79	<3	0.09	0.4	10	19	15	3.55	0.10	0.44	1061	15	0.07	2	0.08	<2	<2	12	14	<5	<3	76
ARC4 L5000 3+75	0.2	2.99	<3	168	<3	0.73	0.8	15	30	23	4.94	0.17	0.94	712	16	0.06	15	0.17	<2	<2	14	67	<5	<3	73
ARC4 L5000 4+00	0.1	2.65	<3	167	<3	0.49	1.6	13	23	18	4.79	0.16	0.71	1297	15	0.06	9	0.16	<2	<2	13	45	<5	<3	72
ARC4 L5000 4+25	0.5	2.75	<3	278	<3	0.19	0.5	33	23	76	5.02	0.12	0.87	1110	14	0.05	43	0.09	<2	<2	13	34	<5	<3	160
ARC4 L5000 4+50	0.2	3.34	<3	176	<3	0.30	0.9	24	38	44	5.34	0.17	1.07	1891	17	0.07	32	0.10	<2	<2	15	41	<5	<3	87
ARC4 L5000 4+75	0.1	2.96	<3	101	<3	0.19	<0.1	9	22	18	5.24	0.13	0.40	1032	16	0.07	2	0.12	<2	<2	15	20	<5	<3	128
ARC4 L5000 5+00	0.1	1.77	<3	100	<3	0.65	1.5	24	22	23	7.42	0.21	0.68	1402	12	0.07	33	0.18	<2	<2	11	39	<5	<3	73
ARC4 L5000 5+25	0.1	3.35	<3	76	<3	0.10	<0.1	17	31	21	4.42	0.12	1.05	1529	14	0.06	10	0.10	<2	<2	15	16	<5	<3	84
ARC4 L5000 5+50	0.2	1.98	<3	213	<3	0.13	0.3	36	18	24	>10.00	0.30	0.48	5670	20	0.09	29	0.16	<2	3	16	34	<5	<3	71
ARC4 L5000 5+75	0.2	2.69	<3	398	<3	0.82	0.2	11	9	30	3.03	0.16	0.49	1934	12	0.07	<1	0.14	<2	<2	12	125	<5	<3	47
ARC4 L5000 6+00	0.1	3.34	<3	370	<3	1.26	0.7	30	23	45	4.58	0.20	1.33	2978	15	0.06	18	0.17	<2	<2	16	181	<5	<3	90
ARC4 L5000 6+25	0.1	3.47	<3	119	<3	0.57	0.4	37	24	35	5.23	0.19	1.57	2152	17	0.07	24	0.22	<2	<2	16	64	<5	<3	73
ARC4 L5000 6+50	<0.1	2.48	<3	283	<3	1.23	<0.1	12	17	28	3.42	0.19	0.68	1332	12	0.05	<1	0.20	<2	<2	12	171	<5	<3	53
ARC4 L5000 6+75	<0.1	3.29	<3	133	<3	0.50	1.4	31	35	43	5.88	0.21	1.58	1915	14	0.08	22	0.15	<2	<2	16	43	<5	<3	96
ARC4 L5000 7+00	<0.1	2.87	<3	109	<3	0.27	0.7	20	24	38	5.03	0.16	1.10	1748	13	0.08	5	0.14	<2	<2	14	28	<5	<3	105
ARC4 L5000 7+25	0.2	2.04	<3	74	<3	0.12	0.3	8	9	14	2.72	0.08	0.39	463	11	0.05	<1	0.08	<2	<2	11	15	<5	<3	47
ARC4 L5000 7+50	<0.1	2.90	<3	282	<3	0.14	0.6	21	16	23	4.96	0.13	0.71	2120	14	0.06	11	0.13	<2	<2	12	20	<5	<3	91
ARC4 L5000 7+75	<0.1	2.75	<3	87	<3	0.07	<0.1	14	12	26	4.05	0.14	0.55	1724	10	0.08	<1	0.11	<2	<2	11	21	<5	<3	98
ARC4 L5000 8+00	0.3	1.20	<3	69	<3	0.74	0.5	40	8	43	7.08	0.22	0.31	2291	10	0.08	22	0.26	<2	<2	8	136	<5	<3	64
ARC4 L5000 8+25	<0.1	1.80	<3	57	<3	0.26	1.3	35	26	79	7.53	0.20	0.38	3288	10	0.08	6	0.24	<2	<2	11	27	<5	<3	87
ARC4 L5000 8+50	0.2	2.15	<3	69	<3	0.24	<0.1	14	23	23	4.36	0.14	0.67	1745	11	0.07	<1	0.11	<2	<2	12	32	<5	<3	98
ARC4 L5000 8+75	<0.1	2.65	<3	88	<3	0.37	<0.1	18	25	32	4.48	0.17	0.83	1239	9	0.07	3	0.12	<2	<2	12	43	<5	<3	74
ARC4 L5000 9+00	0.1	2.11	<3	83	<3	0.48	<0.1	11	11	24	3.99	0.17	0.49	1409	9	0.08	<1	0.12	<2	<2	11	38	<5	<3	61
ARC4 L5000 9+25	0.2	3.07	<3	109	<3	0.50	0.8	22	24	33	4.87	0.18	0.83	3452	12	0.09	<1	0.12	<2	<2	15	53	<5	<3	89
ARC4 L5000 9+50	<0.1	1.81	<3	79	<3	0.20	<0.1	15	24	25	3.37	0.14	0.85	2201	7	0.09	<1	0.11	<2	<2	9	37	<5	<3	61

Minimum Detection 0.1 0.01 3 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 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000

< - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

VANGOCHEM LAB LIMITED

1630 Pandora Street, Vancouver V5L 1L6
 Ph: (604)251-5656 Fax: (604)251-5717

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: *Ryan*

REPORT #: 900391 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: ARC 4 DATE IN: SEPT 05 1990 DATE OUT: OCT 05 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 3 OF 4

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	μg/g	ppm	ppm	ppm	μg/g	ppm	ppm	ppm	ppm	μg/g	μg/g	μg/g	ppm	ppm	μg/g	ppm	μg/g	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ARC4 L5000 9+75	0.2	1.71	<3	77	<3	0.25	1.4	11	26	20	3.92	0.13	0.58	2416	11	0.09	18	0.11	<2	<2	8	41	<5	<3	88
ARC4 L5000 10+00	<0.1	1.90	<3	90	<3	0.47	1.7	17	42	24	4.04	0.15	1.06	1777	12	0.07	27	0.15	<2	<2	10	52	<5	<3	82
ARC4 L5000 10+25	<0.1	3.72	<3	180	<3	0.29	2.7	30	116	24	5.07	0.16	2.74	2355	18	0.05	61	0.09	<2	<2	14	30	<5	<3	148
ARC4 L5000 10+50	<0.1	2.52	<3	101	<3	0.25	1.5	13	38	17	4.09	0.13	0.92	1900	14	0.06	19	0.11	<2	<2	10	37	<5	<3	89
ARC4 L5000 10+75	0.1	2.30	<3	91	<3	0.06	1.5	14	58	13	4.02	0.07	1.03	1237	14	0.05	24	0.08	<2	<2	11	14	<5	<3	82
ARC4 L5000 11+00	0.1	2.37	<3	176	<3	0.08	1.2	16	59	14	4.09	0.09	0.90	3891	15	0.06	25	0.11	<2	<2	10	16	<5	<3	128
ARC4 L5000 11+25	<0.1	2.59	<3	85	<3	0.09	0.8	5	20	9	3.31	0.08	0.44	1019	14	0.06	6	0.07	<2	<2	9	21	<5	<3	70
ARC4 L5000 11+50	<0.1	1.91	<3	35	<3	0.04	0.9	6	15	10	3.37	0.06	0.30	797	13	0.06	<1	0.05	<2	<2	9	13	<5	<3	48
ARC4 L5000 11+75	<0.1	2.39	<3	65	<3	0.04	0.4	8	17	13	3.59	0.08	0.42	1852	13	0.06	3	0.07	<2	<2	9	14	<5	<3	68
ARC4 L5000 12+00	0.2	2.33	<3	60	<3	0.17	0.6	9	15	15	3.31	0.09	0.46	1381	11	0.05	3	0.11	<2	<2	10	25	<5	<3	63
ARC4 L5000 12+25	<0.1	2.39	<3	100	<3	0.08	0.2	8	16	12	3.96	0.07	0.33	1772	13	0.05	<1	0.08	<2	<2	10	17	<5	<3	75
ARC4 L5000 12+50	0.1	2.51	<3	98	<3	0.09	<0.1	7	12	12	3.74	0.07	0.24	3608	14	0.06	<1	0.10	<2	<2	11	17	<5	<3	100
ARC4 L5000 12+75	0.1	2.86	<3	71	<3	0.15	1.2	9	16	15	3.95	0.10	0.43	1680	13	0.06	<1	0.08	<2	<2	11	22	<5	<3	81
ARC4 L5000 13+00	<0.1	2.45	<3	51	<3	<0.01	<0.1	4	11	11	2.22	0.03	0.27	697	11	0.05	<1	0.06	<2	<2	10	9	<5	<3	64
ARC4 L5000 13+25	<0.1	2.47	<3	67	<3	<0.01	0.5	6	13	14	3.58	0.05	0.30	3741	14	0.05	<1	0.09	<2	<2	10	10	<5	<3	73
ARC4 L5000 13+50	0.1	1.24	<3	93	<3	0.34	0.3	5	5	14	2.49	0.07	0.24	5194	11	0.05	<1	0.15	<2	<2	7	37	<5	<3	93
ARC4 L5000 13+75	<0.1	2.82	<3	69	<3	0.09	1.7	11	21	19	4.40	0.15	0.44	2334	18	0.09	<1	0.09	<2	<2	13	20	<5	<3	93
ARC4 L5000 14+00	<0.1	2.57	<3	64	<3	0.05	1.1	12	17	19	4.27	0.14	0.33	3464	19	0.10	<1	0.10	<2	<2	12	17	<5	<3	105
ARC4 L5000 14+25	<0.1	2.47	<3	98	<3	0.06	1.6	11	17	16	4.15	0.12	0.30	3607	20	0.10	<1	0.09	9	<2	13	15	<5	<3	106
ARC4 L5000 14+50	0.1	2.88	<3	90	<3	0.09	1.5	16	22	25	4.36	0.16	0.64	2072	17	0.10	<1	0.10	<2	<2	13	22	<5	<3	80
ARC4 L5000 14+75	0.1	2.92	<3	145	<3	0.19	1.0	20	24	34	5.00	0.19	0.68	1975	20	0.12	<1	0.13	<2	<2	12	32	<5	<3	92
ARC4 L5000 15+00	<0.1	3.31	<3	36	<3	<0.01	<0.1	6	15	14	2.93	0.11	0.30	286	19	0.09	<1	0.09	<2	<2	14	6	<5	<3	57
ARC4 L5000 15+25	<0.1	3.12	<3	90	<3	<0.01	0.6	11	20	18	4.35	0.14	0.49	1552	20	0.11	<1	0.09	<2	<2	14	14	<5	<3	95
ARC4 L5000 15+50	<0.1	3.17	<3	40	<3	<0.01	0.9	8	19	18	3.98	0.12	0.33	534	20	0.08	<1	0.08	<2	<2	13	14	<5	<3	51
ARC4 L5000 15+75	<0.1	3.18	<3	53	<3	<0.01	1.2	11	18	21	4.23	0.13	0.49	1061	21	0.08	<1	0.09	<2	<2	14	16	<5	<3	81
ARC4 L5000 16+00	<0.1	2.20	<3	68	<3	<0.01	<0.1	5	9	12	2.16	0.08	0.25	291	16	0.09	<1	0.09	6	<2	11	10	<5	<3	55
ARC4 L5000 16+25	0.2	2.74	<3	101	<3	0.09	1.1	13	18	25	4.27	0.15	0.68	1040	17	0.08	<1	0.07	<2	<2	12	27	<5	<3	70
ARC4 L5000 16+50	0.2	1.74	<3	92	<3	<0.01	0.9	8	8	14	3.68	0.09	0.28	1949	12	0.08	<1	0.12	<2	<2	10	14	<5	<3	85
ARC4 L5000 16+75	<0.1	2.95	<3	69	<3	0.15	<0.1	16	18	26	3.88	0.14	0.65	1584	17	0.08	<1	0.11	<2	<2	13	31	<5	<3	62
ARC4 L5000 17+00	<0.1	2.73	<3	102	<3	<0.01	0.9	10	23	18	4.36	0.10	0.52	1140	17	0.07	<1	0.09	<2	<2	12	17	<5	<3	77
ARC4 L5000 17+25	<0.1	3.05	<3	166	<3	0.08	1.1	11	15	21	5.32	0.15	0.56	5561	19	0.10	<1	0.16	<2	<2	14	29	<5	<3	147
ARC4 L5000 17+50	<0.1	2.46	<3	144	<3	<0.01	0.5	9	11	21	5.10	0.11	0.33	6592	16	0.10	<1	0.09	4	<2	13	14	<5	<3	102
ARC4 L5000 17+75	<0.1	2.91	<3	113	<3	0.12	<0.1	9	17	22	4.16	0.15	0.60	1409	16	0.12	<1	0.12	<2	<2	12	34	<5	<3	110
ARC4 L5000 18+00	<0.1	2.96	<3	137	<3	0.14	<0.1	18	22	37	4.62	0.16	0.74	2264	17	0.10	<1	0.12	<2	<2	13	32	<5	<3	87
ARC4 L5000 18+25	<0.1	2.16	<3	135	<3	0.15	<0.1	14	14	30	4.16	0.14	0.61	1970	13	0.08	<1	0.12	<2	<2	10	35	<5	<3	82
ARC4 L5000 18+50	<0.1	2.55	<3	115	<3	0.22	<0.1	16	13	32	4.32	0.15	0.73	1955	14	0.10	<1	0.13	<2	<2	10	44	<5	<3	90
ARC4 L5000 18+75	0.2	2.24	<3	100	<3	0.19	0.4	15	11	31	4.11	0.14	0.64	2021	12	0.08	<1	0.12	<2	<2	10	40	<5	<3	76
ARC4 L5000 19+00	<0.1	2.73	<3	124	<3	0.04	<0.1	14	15	26	4.37	0.13	0.63	2180	16	0.09	<1	0.11	<2	<2	13	28	<5	<3	78
ARC4 L5000 19+25	<0.1	2.41	<3	137	<3	0.11	0.5	14	5	24	3.70	0.10	0.49	2619	14	0.07	<1	0.14	<2	<2	11	42	<5	<3	65

Minimum Detection 0.1 0.01 3 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 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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

IMPRIME AU CANADA

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1630 PANDORA STREET
VANCOUVER, B.C.
V5L 1L6
TEL (604) 251-5656
FAX (604) 254-5717

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

April 30, 1991

TO: Mr. Stuart Tennant
KESTREL RESOURCES LTD.
506 - 675 W. Hastings St.
Vancouver, BC V6B 1N2

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

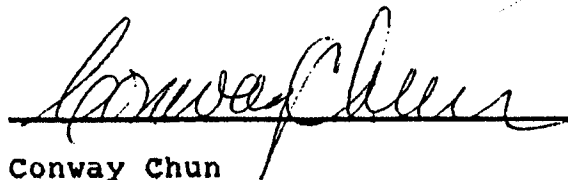
SUBJECT: Analytical procedure for soil samples preparations.

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.
- (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.

2. Analysts

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



Conway Chun
VANGEOCHEM LAB LIMITED

VANGEOCHEM SAMPLE ANALYSIS DESCRIPTION

The lithogeochemical samples were properly bagged, described and labelled in the field. Later, they were shipped by air and ground freight to Vangeochem Lab Ltd. in Vancouver, B.C. for analysis under the supervision of professional assayers. All of the samples were analyzed for gold, using fire assay and atomic absorption procedures, and for a 25-element suite by inductively coupled argon plasma (ICAP) methods.

At Vangeochem Lab Ltd., each rock sample was ground to -100 mesh and a 0.5 gram pulp was digested with 5 millilitres of 3:2:1 hydrochloric acid to nitric acid to water at 95°C for 90 minutes, and then diluted to 10 millilitres with water. The resulting precipitate was then analyzed by ICAP methods for: silver, aluminum, arsenic, barium, bismuth, calcium, cobalt, chromium, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, nickel, phosphorus, lead, antimony, tin, strontium, uranium, tungsten and zinc.

A 20.0 to 30.0 gram pulp was split from each of the ground samples, mixed with flux, fused at 1,900°F to form a button, and subsequently digested in an aqua regia solution. This solution was then analyzed for gold by a Techtron model AAS Atomic Absorption Spectrophotometer with a gold hollow cathode lamp.

APPENDIX II
Sample Descriptions

Geochemical Data Sheet - ROCK SAMPLING

Sampler M BASHFORD
 Date AUG 25 190

Project _____
 Property M+M 15

Location NTS 104G/2
MORE CR
 M.D. ISKUT

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width	DESCRIPTION			OBSERVATIONS	ASSAYS		
				Rock Type	Alteration	Mineralization		Au oz/t	Ag oz/t	Cu %
81618	S-W CORNER M+M 15	SELECT GRAB		DIORITE	—	—	TAKEN IN FRACTURE	<.005	<.01	<.01
19	50 M. EAST 81618	"		"			QTZ. SWEAT	<.005	<.01	.01
81620	50 M. EAST 81619	"		"			" " 4100'	<.005	.02	.01
21	50 M. SOUTH 81620	"		QTZ			UGGY QTZ VEINLET	<.005	.03	.01
22	3900'	"		DIORITE			END OF CLAIM	<.005	<.01	.01
23	200 M WEST 81622	"		"	CALCITE		3800' HEADING WEST	<.005	.02	.01
24	3600'	"		"	RUSTY		—	<.005	.02	.01
25	150 M. EAST 81624	"		"	CALCITE		1 SPECK PY. 3550'	<.005	<.01	.01
26	50 M. EAST 81625	"		"	RUSTY		—	<.005	.01	<.01
27	25 M. EAST 81626	"		"	RUSTY		3400	<.005	<.01	.02
28	100 M EAST 81627	"		"	—		QTZ SWEATS	<.005	<.01	.01
29	NORTH OF 81628	"		"	RUSTY			<.005	<.01	.01
30	"	"		"	CHLORITE			<.005	<.01	.01

Geochemical Data Sheet - ROCK SAMPLING

NTS _____

Sampler CRAIG BILONIST

Project CONS FILING

Location Ref _____

Date 23 & 24 / JULY / 190

Property M & M & ABC

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
				Rock Type	Alteration	Mineralization		Ag ppm	Au ppb					
92507	1720' - 125 m 4770° FROM FAI	CHIP	1M ON STREK	QTZ		0	S = 220°	1.0	nd					
508	1620M - EAST SIDE SLOPE MORRIS CREEK	"	1M	QTZ	LEMONITE	PYRITES	LIMONITE STAIN	nd	nd					
509	1620M - 10M S 808	"	30 CM	GREEN VOLCANIC		PYRITES	LEMONITE STAINING IN GREEN VOLCANIC	nd	nd					
510	1400M	GRAB		CARBONATE SELECTIONS		PYRITES	CARBONATE ZONE	nd	nd					
511	1250M SW CORNER ARC 3 BY REVER	Q //		QTZ + GREEN VOLCANIC		PYRITES	RUSTY STAINING	nd	nd					
512	1700M CENT EASTERN BODY ARC 2	//		SILICONS CARBONATE			SUB OUTCROP	2	nd					
513	1650M - 250M FROM 512 AT 216°	//	1/2 M ²	QTZ		20% PYRITES	RUSTY STAINING	nd	10					
514	15M FROM 513 AT 170°	//	1/2 M ²	"		5% PYRITES	" " GREEN STAIN?	nd	nd					
515	15M FROM 514 AT 160°	//	1/2 M ²	" DARKER		"	" "	nd	nd					
516	35M FROM 515 AT 200°	//	1/2 M ²	"		SOME PYRITES	" "	nd	nd					
517	30M FROM 516 AT 160°	//	1/2 M ²	GREEN VOLCANIC		SOME PYRITES	QUARTZ STRENGTHS	nd	nd					
518	35M FROM 516 AT 140°	//	1/2 M ²	RED QTZ		" "	SHEER ZONE - MANY FRACTURES	nd	nd					
519	75M FROM 513 AT 235°	//	1M ²	QTZ		" "	LARGE QTZ OUTCROP (40M x 40M)	nd	nd					
520	150M FROM 513 AT 325°	//	1M ²	QTZ		MASSIVE SULFIDE	STRIKE 160° SUB OUTCROP	nd	nd					
521	3M EAST OF 520	//	1M ²	QTZ		SOME PYRITES	LESS RUSTY THAN 520 IN OUTCROP	nd	nd					
522	APPROX 150M FROM 521 AT 260°	//	1M	CARBONATE GREY VOLCANIC OR CARBONATE				nd	nd					
523	300M FROM 521 AT 320°	1550M //	1M ²	CARBONATE GREY VOLCANIC OR CARBONATE			QTZ STRENGTHS - ORANGE STAIN	nd	nd					
524		//	1M ²	ORANGE CARBONATE		SOME PYRITES		nd	80					
525	50M FROM 524 AT 270°	//	1M ²	QTZ		MASSIVE PYRITES	HEAVILY STAINED QTZ OUTCROP	.4	40					
526	1210 M BY CREEK BELOW 511	//		CARBONATE		1% PYRITE	GREEN STAIN	nd	nd					

AND OTHER SIDE
200M

Geochemical Data Sheet - ROCK SAMPLING

NTS 10 G/2

Sampler J. LEE / C. BILQUEST

Project ARC 3 / M+M 2

Location Ref ISKUT

Date July 26/90

Property CONS EWING

Air Photo No LIARD

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Hg ppm	Au ppb				
92527		ROCK	20cm	VOLCANIC		ORANGE SILICOUS CARBONATE WITH MASSIVE PYRITE	25m FROM 526 AT 75° ACROSS RIVER	nd	nd				
92528		"	GRAB	"		ORANGE CARBONATE WITH CALCITE STRINGERS	3m ABOVE 92527.	nd	nd				
92529		"	1m ²	"		ORANGE CARBONATE QUARTZ PYRITE	- 5m upstream FROM 92528	nd	20				
92530		"	GRAB	"		CARBONATE	- 12m upstream FROM 529.	nd	nd				
92531		"	GRAB	"		QUARTZ + MASSIVE PYRITE IN CHLORITE SLIST.	- 10m upstream FROM 532.	nd	nd				
92532		"	GRAB	"		GREEN ROCK FINE PYRITES THROUGHOUT	- 8m upstream FROM 531	nd	nd				
92533		"	"	"		GREEN SHIST ORANGE CARBONATE STAIN, SOME PYRITE	- 15m upstream FROM 532.	nd	nd				
92534		"	1/2m ²	"		GREEN SHIST WITH QUARTZ + PYRITE	- 25m upstream 533	nd	20				
92535		"	GRAB	"		SAME AS ABOVE WITH CARBONATE STAIN	- 10m upstream 534	nd	nd				
92536		"	"	"		MASSIVE MALAKITE IN SHIST WITH QUARTZ CARBONATE STAINING.	5m upstream.	2.4	nd				
92537		"	"	"		GREEN SHIST WITH QUARTZ VEINS PYRITES - limonite staining	5m upstream FROM 536	nd	nd				
92538		"	1/2m ²	"		PURPLE ROCK WITH ORANGE CARBONATES	35m upstream FROM 537	nd	nd				
92539		"	GRAB	"		GREEN SHIST WITH QUARTZ VEIN CARBONATE + PYRITE	- SAME LOCATION FROM 538	nd	nd				
92540		"	"	"		QUARTZ VEIN (BLACK) + FINE TINGS		nd	nd				
92541		"	"	"		ORANGE CARBONATE + limonite PYRITES IN SHIST	- 25m upstream FROM 92540	nd	nd				
92542		"	"	"		SIMILAR TO ABOVE WITH QUARTZ VEINS	- 15m upstream FROM 92541	nd	nd				
92543		"	"	"		- SAME AS 542 BUT SULPHIDES IN QUARTZ	30m upstream FROM 542	nd	nd				
92544		"	"	"		- QUARTZ IN GREEN SHIST + PYRITES THROUGHOUT		nd	nd				
92545		"	2m	"		SHISTS + CARBONATE, WITH SULPHIDES, CALCITE STRINGERS, RED STAIN, PINK ANGLASPAR		nd	nd				
92546		"	20cm	"		FLUES - LIMONITE STAIN, QUARTZ STRINGERS, SMALL PYRITE IN GREEN SHIST		nd	20				

Geochemical Data Sheet - ~~ROCK~~ SAMPLING

NTS 10476/2

Sampler Kent Forster + Wes Grier

Project Iskut

Location Ref More Creek

Date Aug 8/92

Property ARC 4

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Wash depth True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Colour Rock-type	Horizon Alteration	Texture Mineralization		Au ppb	Pb ppm				
ARC 4 L5000	0+00	Soil	15cm	Brown	B	Rock chips		15	nd				
	0+25		15cm	↓	B	↓		25	.2				
	0+50		15cm	↓	B	↓		30	.1				
	0+75		15cm	↓	B	↓		20	.1				
	1+00		20cm	↓	B	Sandy Rock chips		25	.1				
	1+25		10cm	↓	B	↓		20	nd				
	1+50		15cm	↓	B	↓		nd	nd				
	1+75		15cm	↓	B	↓		10	.2				
	2+00		15cm	Light Brown	B	Sandy Rock chips		5	.1				
	2+25		15cm	Brown	B	↓		5	.1				
	2+50		15cm	↓	B	↓		20	.2				
	2+75		15cm	↓	B	↓		5	.2				
	3+00		10cm	↓	B	↓		nd	.1				
	3+25			No Sample Snow Patch				nd	nd				
	3+50		15cm	Orange Brown	B	Rock chips		nd	.1				
	3+75		15cm	Brown	B	↓		20	.1				
	4+00		20cm	Orange Brown	B	Sandy Rock chips		30	.1				
	4+25		15cm	Brown	B	↓		nd	.5				
	4+50		15cm	↓	B	↓		10	.2				
	4+75	↓	15cm	↓	B	↓		nd	.1				

Geochemical Data Sheet - ROCK SAMPLING

NTS 104 G/2

Sampler Kent Forster + Wes Grier

Project ISKut

Location Ref More Cr.

Date Aug 8/90

Property ARC 4

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Colour Rock type	Horizon Alteration	Texture Mineralization		As ppb	Ag ppm				
ARC 4 L5000	5+00	Soil	15cm	Orange Brown	B	Rock chips		10	.1				
	5+25		15cm	Brown	B	Sandy		30	.1				
	5+50		15cm	Orange Brown	B	& Rock chips		25	.2				
	5+75		15cm	Dark Brown	B			35	.2				
	6+00		10cm	↓	B			nd	.1				
	6+25		15cm	Brown	B	↓		nd	.1				
	6+50		10cm	Grey	B	Sandy		10	nd				
	6+75		15cm	Brown	B	& Rock chips		30	nd				
	7+00		15cm	↓	B			30	nd				
	7+25		15cm	↓	B			10	.2				
	7+50		15cm	Orange Brown	B			15	nd				
	7+75		15cm	↓	B			nd	nd				
	8+00		15cm	↓	B			nd	.3				
	8+25		15cm	Brown	B			nd	nd				
	8+50		15cm	"	B			20	.2				
	8+75		15cm	Dark Brown	B			nd	nd				
	9+00		15cm	↓	B			35	.1				
	9+25		15cm	↓	B			30	.2				
	9+50		15cm	Brown	B			5	nd				
	9+75	↓	15cm	"	B	↓		15	.2				

Geochemical Data Sheet - ^{Soil} ROCK SAMPLINGSampler Kent Forster + Wes GrierProject IskutNTS 104 G/2Date Aug 8/90Property ARC 4Location Ref More Cr.

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Colour Rock Type	Horizon Alteration	Texture Mineralization		Au ppb	Pb ppm				
ARC 4 L5000	10+00	B Soil	15cm	Brown	B	Rock chips		10	nd				
	10+25		15cm		B			15	nd				
	10+50		15cm		B			15	nd				
	10+75		15cm		B			5	.1				
	11+00		15cm		B			5	.1				
	11+25		15cm		B			30	nd				
	11+50		15cm		B			35	nd				
	11+75		15cm		B			35	nd				
	12+00		15cm	↓	B			5	.2				
	12+25		15cm	Orange Brown	B			5	nd				
	12+50		15cm	"	B			5	.1				
	12+75		15cm	Brown	B			30	.1				
	13+00		15cm	↓	B			15	nd				
	13+25		15cm	↓	B			25	nd				
	13+50		15cm	Dark Brown	B			nd	.1				
	13+75		15cm	↓	B			5	nd				
	14+00		15cm	↓	B			10	nd				
	14+25		15cm	Brown	B			nd	nd				
	14+50		15cm	↓	B			20	.1				
	14+75		15cm	↓	B	↓		nd	.1				

Geochemical Data Sheet - ²⁰¹ROCK SAMPLING

NTS 104 6/2

Sampler Kent Forster & Wes Gner

Project ARC 4 Iskut

Location Ref More Cr.

Date Aug 8/90

Property ARC 4

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS								
				Colour Rock type	Depth Alteration Horizon	Horizon Mineralization Texture		An ppb	Pb ppm							
ARC 4 L5000	15+00	Soil	15cm	Brown	B	Rock chips		25	nd							
	15+25	↓	15cm	↓	B	↓		10	nd							
	15+50		15cm		B		10	nd								
	15+75		15cm		B		15	nd								
	16+00		15cm		B		nd	nd								
	16+25		15cm		B		5	.2								
	16+50		15cm		B		nd	.2								
	16+75		15cm		B		5	nd								
	17+00		15cm		B		nd	nd								
	17+25		15cm		B		5	nd								
	17+50		15cm		orange Brown		B	5	nd							
	17+75		15cm		B		5	nd								
	18+00		15cm		B		15	nd								

Soil
Geochemical Data Sheet - ROCK SAMPLING

Sampler Kent Forster & Wes Grier
Date Aug 10 / 90

Project Iskut
Property ARC 4

Location Ref NTS 104 G/15
More Co.
Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width Depth	True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS				
					Color Rock type	Attraction Horizon	Texture Mineralization		As ppb	Ag ppm			
ARC4 L4600	0+00	SOIL	15cm		Brown	B	Rock Chips	30° W Slope	10	.1			
	0+25		15cm		Dark Brown		↓	↓	15	.1			
	0+50		15cm				R/C	↓	20	.3			
	0+75		15cm					↓	5	.2			
	1+00		15cm					35° W	15	.2			
	1+25		15cm					↓	5	.1			
	1+50		15cm		Grey Brown			↓	20	nd			
	1+75		15cm					↓	nd	nd			
	2+00		10cm		Brown			40° W	20	.1			
	2+25		15cm					30° W	10	.2			
	2+50		15cm					↓	nd	nd			
	2+75		20cm		Grey Brown		Sandy Rock Chips	↓	25	.2			
	3+00		15cm		Brown			↓	30	.2			
	3+25		15cm					↓	nd	.1			
	3+50		15cm					↓	5	nd			
	3+75		15cm					↓	30	nd			
	4+00		15cm					35° SW	15	nd			
	4+25		15cm					↓	nd	nd			
	4+50		15cm					↓	10	nd			
	4+75		15cm					↓	nd	nd			

Soil
Geochemical Data Sheet - ROCK SAMPLING

NTS 1046/15

Sampler Kentford + Wes Grier

Project Iskut

Location Ref More Cr.

Date Aug 10/90

Property ARC 4

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Colour Rock Type	Horizon Alteration	Texture Mineralization		Ar ppb	Ag ppm				
ARC4 L4600	5t00	Soil	15cm	Brown	B	Rock chips	35° S Slope	30	nd				
	5t25		15cm	↓	↓	↓	↓	20	nd				
	5t50		15cm	↓	↓	↓	↓	5	nd				
	5t75		15cm	↓	↓	↓	↓	25	nd				
	6t00		15cm	Orange Brown	↓	↓	↓	10	nd				
	6t25		15cm	↓	↓	↓	30° SW	25	nd				
	6t50		15cm	↓	↓	↓	30° W	5	nd				
	6t75		15cm	Dark Brown	↓	↓	↓	15	nd				
	7t00		15cm	Brown	↓	↓	30° SW	5	nd				
	7t25		15cm	↓	↓	↓	↓	10	nd				
	7t50		15cm	↓	↓	↓	↓	nd	nd				
	7t75		15cm	↓	↓	↓	↓	5	nd				
	8t00		10cm	Dark Brown	↓	↓	25° S	15	·1				
	8t25		15cm	↓	↓	↓	30° S	nd	·1				
	8t50		15cm	↓	↓	↓	↓	5	nd				
	8t75			No Sample		Rocks	45° S						
	9t00		15cm	Brown	B	R/C	40° S	15	nd				
	9t25		15cm	Orange Brown	↓	↓	35° S	15	·2				
	9t50		15cm	Brown	↓	↓	↓	15	nd				
	9t75		15cm	↓	↓	↓	↓	10	nd				
	10t00		15cm	↓	↓	↓	↓	10	·2				

- END of Line

Geochemical Data Sheet - ROCK SAMPLING

D WITUK

Sampler MIKE CALLAGHAN

Project CONTOUR SOIL SAMPLING

NTS _____

Date Aug 11 1990

Property ARC#3

Location ISKVT

M.D. LIARD

SAMPLE NO.	LOCATION STATION	RESIDUAL SAMPLE "B" TYPE HORIZON	Sample Wt gms 12 ^A	DESCRIPTION			OBSERVATIONS	ASSAYS			
				Rock Type	Alteration	Mineralization		Au ppb	Hg ppm		
ARC-3 L1-0400N	EL1380m STN	Light Brown		Vol.	ON North	side SW	NE Creek Between SILTS	nd	nd		
0450N	"	" "		Vol			# 05659-05660	15	nd		
1400N	EL1380m "	L BWN				0490N-	TWO small CR. JOIN NW → SE	15	nd		
1450N	STN	BWN				1425N small CR.	N70W → GRASSY SLOPE	30	nd		
2400N	DIR N40E "	Red BWN		OUTCROP			1490N small CR NW →	nd	nd		
2450N	STN	BWN					OUTCROP	15	nd		
3400N	"	BWN					" ABOVE	5	nd		
3450N	N45E "	EL1380 BWN					3410N + 3450N small creeks N60W →	10	nd		
4400N	STN	BWN		Vol	Below			5	nd		
4450N	"	BWN		Vol	Above			nd	nd		
5400N	DIR N20E "	ANG + ROUND BWN		Vol.				nd	nd		
5450N	EL1390 STN	L BWN			Light orange weathered TUFF ON FINE flow		PREVIOUS # 92524 shallow soil CB 7/29/90	25	nd		
6400N	"	L BWN					OUTCROP GRASSY	nd	nd		
6450N	"	BWN		grey TUFF		FINE PYRITE		nd	nd		
6460N	5m EAST	L BWN		"		"	OUTCROP	5	nd		
7400N	STN	L BWN						nd	nd		
7450N	1400m EL. 3m South	L BWN		green TUFF			1m wide creek W → E	5	nd		
8400N	N20E STN	L BWN					FLAT Bench	15	nd		
8450N	"	L BWN					" " 8475 small CR S60W →	nd	nd		
9400N	"	L BWN		Vol			OUTCROP	10	nd		

Geochemical Data Sheet - ROCK SAMPLING

Sampler D Witluk
Mike Callaghan
 Date Aug 11 1990

Project _____
 Property ARC-3

Location _____
 M.D. _____
 NTS _____

SAMPLE NO.	LOCATION STATION	RESIDUAL SAMPLE "B" TYPE	Sample Weight 12"	DESCRIPTION			OBSERVATIONS	ASSAYS	
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm.
ARC-3 L1-9+50N	STN	LBWN	/	Vol	Below			10	nd
10+00N	EL-1390m	LBWN	/	Vol	epidote	Specularite		nd	nd
10+50N	STN	LBWN	/	Vol			1m wide CR W→E	5	nd
10+75N	EL-1390m	LBWN	/	Vol	chlorite	Pyrite	OUTCROP 12m WEST OF 10+75 N 1 S A. FOLIATED CHLORITIZED SCHIST FLOW STRIKE N30W DIP 36W ha APPEARANCE, many 2.5cm VOLCANIC TOWEST LESS VEINING	GTZ VEINS	
11+00N	N10E STN	LBWN	Round angular					nd	nd
11+50N	"	BWN	ang	Vol			much GTZ VEINING	nd	nd
12+00N	"	LBWN	/	Vol			OUTCROP 12+10N Small Creek W→E	20	nd
12+50N	EL-1390m	LBWN	/				GRASSY	nd	nd
13+00N	STN	LBWN	Rnd				OUTCROP 50m WEST	nd	nd
13+50N	"	BWN	ang				GRASSY - weathered shingle OUTCROP	10	nd
14+00N	"	LBWN	/	Vol			weathered	nd	nd
14+50N	"	BWN	Rnd				small creek SW→NE	5	nd
15+00N	EL 1390 4m N60W	LBWN	Rnd			15+10N	" " #60W→N60E	15	nd
15+50N	15m N	LBWN	Rnd				SAMPLE TAKEN LOW TO GLACIAL TILL Creek when possible	nd	nd
16+00N	STN	LBWN	ang	OUTCROP			15+95 2m Creek SW→NE	10	nd
16+00B	20m NE	LBWN	/	VOLCANIC		Specularite	GTZ SWARM VEINS 1cm-3cm STRIKE N70E	nd	nd
16+50N	STN	BWN	/					nd	nd
17+00N	STN	BWN	/				OUTCROP 100 m WEST	nd	nd
17+50N	STN	LBWN	/	SLA-14	75N 15	15m N60W	much GTZ VEINING TO THE CREEK.	EA ST ON 10	nd

Geochemical Data Sheet - ROCK SAMPLING

D Witiuk

Sampler Mike Callaghan
Date Aug 11/90

Project _____
Property ARC-3

Location 1SKUT
M.D. LIARD
NTS _____

SAMPLE NO.	LOCATION STATION	Residual SAMPLE TYPE & HORIZON	Sample Weight g ROUND	DESCRIPTION			OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization					Au ppb	Ag ppm	
ARC-3 L2-0400S	STN	LBWN	/				OUTCROP					5	nd
0450S	"	LBWN	/				" 0485 small creek SW → NE					5	nd
1400S	"	LBWN	/				OUTCROP 1410S " " "					15	nd
1450S	"	LBWN	/				OUTCROP ABOVE					10	nd
2400S	"	LBWN	/				4" wide Qtz float					5	nd
2450S	"	LBWN	Round Ang	VOL			OUTCROP					5	nd
3400S	"	LBWN	/	"			"					nd	nd
3450S	5m SW	LBWN	/	"			OUTCROP much Qtz 1cm-2.5cm	SOME LARGE PYRITE CRYSTALS				10	nd
4400S	EL 1315m 12m W	LBWN	Rnd ang									10	nd
4450S	STN	LBWN	Rnd ang				Heather					15	nd
5400S	DIR. South N.S.		/				GLACIAL TILL FAN					10	nd
5425S	STN	LBWN	/				BASE OF TILL. 5485-2 small creeks					10	nd
5450S	EL 1315m 5m South	LBWN	/									10	nd
6400S	STN	LBWN	/									nd	nd
6450S	EL 1310m STN	BWN	/				POOR SOIL 6460S 1m wide creek					20	nd
7400S	STN	LBWN	Rnd ang				SPRUCE heather					15	nd
7450S	EL 1320m "	BWN	Rnd ang				CREEK W → E					nd	nd
8400S	STN	R BWN	/				heather					nd	nd
8450S	EL 1320m STN	BWN	/				clump spruce					10	nd
9400S	"	BWN	/				BASE OF TILL					5	nd

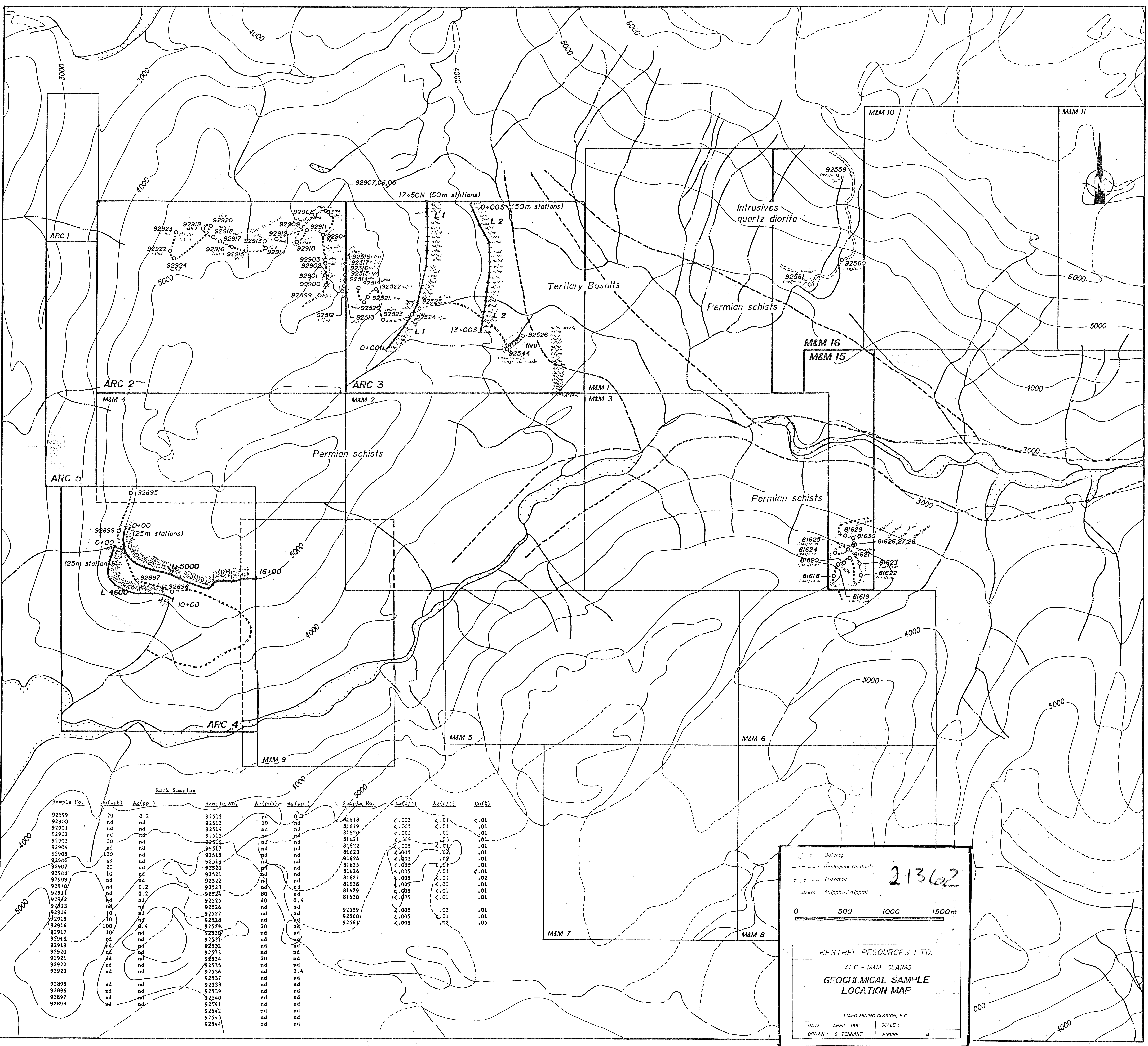
Geochemical Data Sheet - ROCK SAMPLING

Sampler Mike Callaghan
 Date Aug 11/90

Project _____
 Property ARC-3

Location ISKUT
 M.D. LIARD
 NTS _____

SAMPLE NO.	LOCATION STATION	RESIDUAL SAMPLE TYPE HORIZON	Sample Width	DESCRIPTION			OBSERVATIONS	ASSAYS	
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm
ARC-3 9+50 S	DIR-SW 5m S	grey BWN					BASE OF TILL DEBRIS	15	nd
10+00 S	STN	L BWN		Vol			OUTCROP SMALL W → E Creek	5	nd
10+50 S	SIOW 10m S	L BWN					OUTCROP 10 m SW	5	nd
11+00 S	STN	L BWN		Vol			OUTCROP	nd	nd
11+50 S	SE STN	L BWN					3 Creeks JOIN AT 11+00 S	570	nd
12+00 S	DIR 320E STN	L BWN					GLACIAL TILL	15	nd
12+50 S	EL 1320m STN	L BWN					" "	10	nd
13+00 S	"	"					" "	10	nd
							ARC 3 L2 13+00 S IS APPROX 400 m		
							NORTH OF L1-0+00 S 11m 2		
							AND 350m EAST OF ARC-3	L1 500m	



Rock Samples					
Sample No.	Au(ppb)	Ag(pp)	Sample No.	Au(ppb)	Ag(pp)
92899	20	0.2	92512	nd	0
92900	nd	nd	92513	10	nd
92901	nd	nd	92514	nd	nd
92902	nd	nd	92515	nd	nd
92903	30	nd	92516	nd	nd
92904	nd	nd	92517	nd	nd
92905	120	nd	92518	nd	nd
92906	nd	nd	92519	nd	nd
92907	20	nd	92520	nd	nd
92908	10	nd	92521	nd	nd
92909	nd	nd	92522	nd	nd
92910	nd	0.2	92523	nd	nd
92911	nd	0.2	92524	80	nd
92912	nd	nd	92525	40	0.4
92913	nd	nd	92526	40	nd
92914	10	nd	92527	nd	nd
92915	10	nd	92528	nd	nd
92916	100	8.4	92529	20	nd
92917	10	nd	92530	nd	nd
92918	nd	nd	92531	nd	nd
92919	nd	nd	92532	nd	nd
92920	nd	nd	92533	nd	nd
92921	nd	nd	92534	20	nd
92922	nd	nd	92535	nd	nd
92923	nd	nd	92536	nd	2.4
92895	nd	nd	92537	nd	nd
92896	nd	nd	92538	nd	nd
92897	nd	nd	92539	nd	nd
92898	nd	nd	92540	nd	nd
			92541	nd	nd
			92542	nd	nd
			92543	nd	nd
			92544	nd	nd

Sample No.	Au(o/c)	Ag(o/s)	Cu(%)
81618	<.005	<.01	<.01
81619	<.005	<.01	.01
81620	<.005	.02	.01
81621	<.005	.03	.01
81622	<.005	<.01	.01
81623	<.005	.02	.01
81624	<.005	.07	.01
81625	<.005	<.01	.01
81626	<.005	<.01	<.01
81627	<.005	<.01	.02
81628	<.005	<.01	.01
81629	<.005	<.01	.01
81630	<.005	<.01	.01
92559	<.005	.02	.01
92560	<.005	<.01	.01
92561	<.005	.02	.05

21362

0 500 1000 1500m

Outcrop
 Geological Contacts
 Traverse
 ASSAYS- Au(ppb)/Ag(ppm)

KESTREL RESOURCES LTD.
 ARC - M&M CLAIMS
**GEOCHEMICAL SAMPLE
 LOCATION MAP**

LIARD MINING DIVISION, B.C.

DATE : APRIL 1991	SCALE :
DRAWN : S. TENNANT	FIGURE : 4