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**ROCK AND SOIL GEOCHEMICAL
REPORT
ON THE
MCPHEE PROPERTY**

**NELSON MINING DIVISION
BRITISH COLUMBIA**

**Latitude: 49° 17' North
Longitude: 117° 32' West
NTS: 82F/5,6
TRIM: 82F.023,.033**

by

Bruce Doyle

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December 9, 1999

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26.153

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1.0 SUMMARY

This report details an exploration program conducted between June 1, 1999 and September 20, 1999 on the Mcphee Property east of Castlegar, B.C. Assessment work was filed in October, 1999. The program comprised rock, soil and sediment sampling over several areas of interest on the Mcphee property, with the aim of discovering new gold showings.

Geochemical results indicate moderate to high precious metal values in soils and low to high base metals in soils. Extremely high gold values were obtained from rock samples on the Mcphee II claim where bonanza style gold was discovered. Elevated gold, molybdenum, arsenic, tungsten in soils is coincident with veining and quartz stockworks in the Bonnington monzonite. Elevated base and precious metal values occur in soils overlying limestone and skarn along the intrusive contact on the Waterloo2 claim. High tungsten values and significant gold values were discovered on the Aarons Rod #1 claim. A follow up trenching program on the Mcphee II claim should reveal more quartz veins carrying free gold. Trenching and a magnetometer survey is recommended on the Aarons Rod #1 claim where skarn containing tungsten and gold values were obtained from samples. More prospecting and geochemistry is recommended on the Waterloo 2 claim where base and precious metals were discovered in skarn and limestone.

2.0 INTRODUCTION

This report details an exploration program conducted between June 1, 1999 and September 20, 1999 on the Mcphee property east of Castlegar, B.C.. Assessment work was filed in October, 1999. The program comprised rock, stream sediment and soil sampling over several areas of interest on the Mcphee property to identify new gold showings not previously discovered.

3.0 LOCATION AND ACCESS

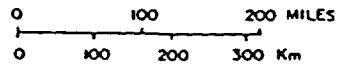
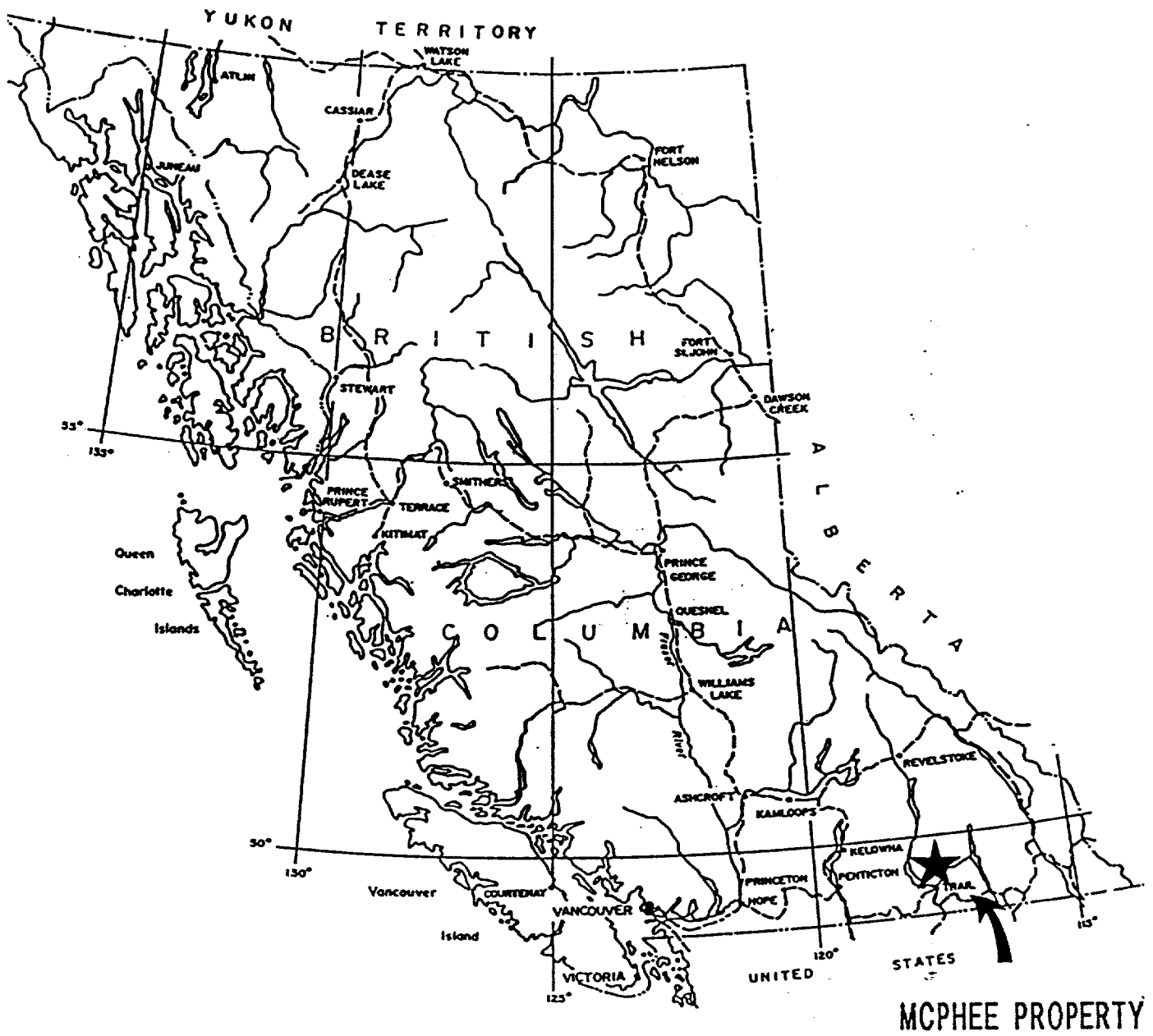
The McPhee property is located approximately six kilometres east of Castlegar, B.C., (See Fig. 1). The claims are situated on Mcphee, Little Mcphee and Champion creeks. The tributaries of Mcphee and Little Mcphee flow north into the Kootenay River, while the Champion creek drains southwest into the Columbia River. The claims are centered at 49° 17' north latitude and 117° west longitude. Access is via a six kilometre logging and powerline road that leaves highway #3 at Bombi Summit, some 15 kilometres east of Castlegar.

4.0 CLAIM INFORMATION

Currently the Mcphee property consists of 35 claims totalling 122 units recorded in the Nelson Mining Division and shown on claim map numbers 082F.023 and 082F.033.

5.0 HISTORY

There is little or no documentation on the Mcphee property prior to Bruce Doyle staking claims in 1995. Several crown granted claims were staked in the early 1900's around Aaron's Hill and though several major workings were discovered no documentation of this work could be found. An old letter in the author's possession describes a high grade gold showing northeast of the old *Maude S* property. The letter by B.W. Meister talks of 2.5 opt Au samples being taken from a shaft. No mention of this property, known as the Wolf claim could be found in any of the old mining books. In 1996 the author discovered gold and base metal values in metavolcanics and the property was optioned to Phelps Dodge in 1997. Phelps Dodge conducted prospecting, mapping and soil geochemistry. The option was dropped and in the late fall of 1997 the property was once again optioned



LOCATION MAP				
SCALE	DATE	FILE	N.T.S. NO	FIG. NO
as shown		By: dip		1

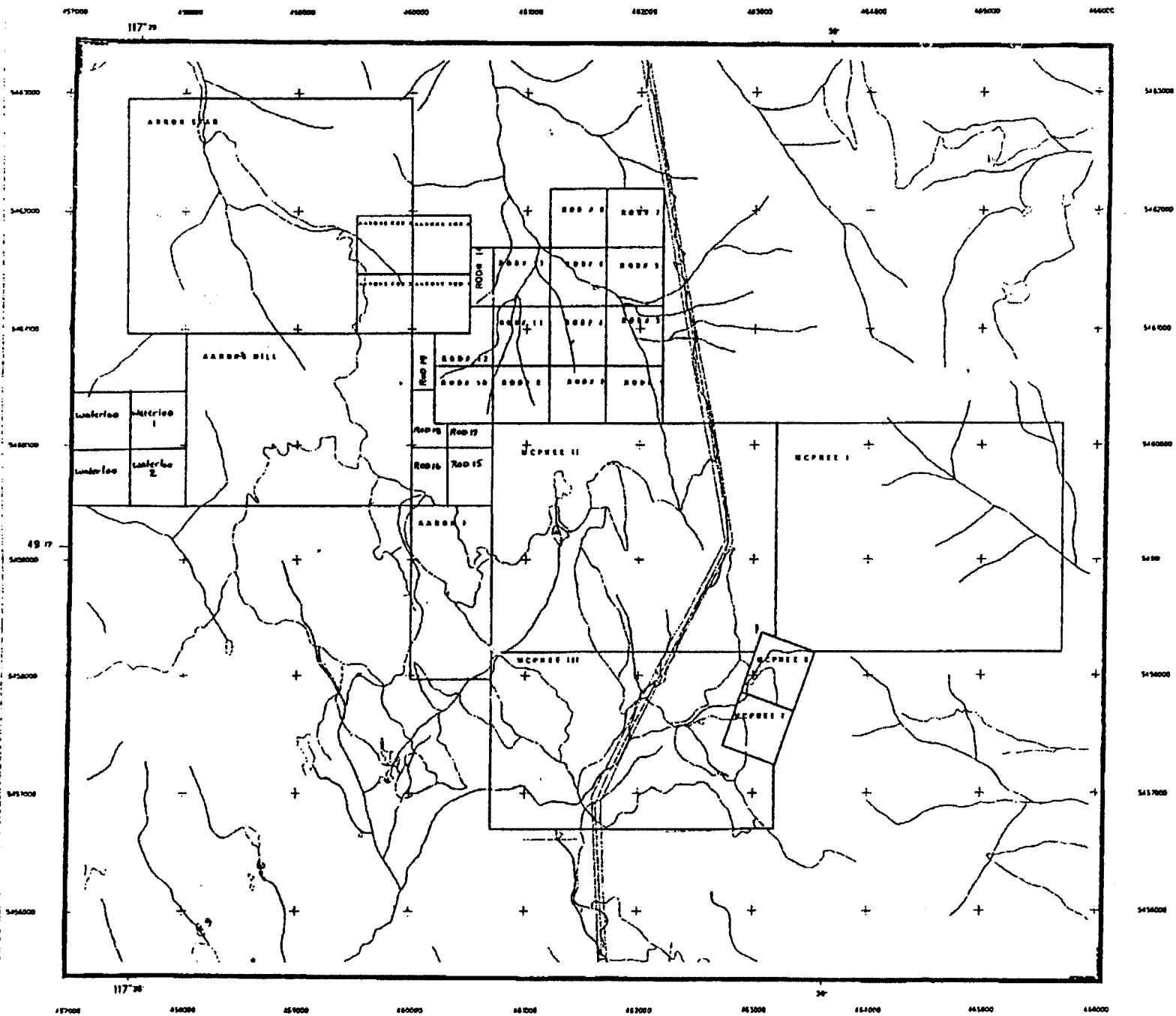


FIGURE 2

N

CLAIM LOCATION PLAN	
MCPHEE PROPERTY	
SCALE 1:50,000	
DATE	BY

Latitude 49°30' : Longitude-117°50'

<u>Tenure Number</u>	<u>Claim Name</u>	<u>Expiry Date</u> <u>Month/Date/Year</u>	<u>Units</u>
331989	MCPHEE #7	10/28/2000	1
331990	MCPHEE #8	10/28/2000	1
344243	MCPHEE	03/18/2001	20
350108	AARONS HILL	08/14/2000	12
350759	AARONS ROD #1	09/10/2001	1
350760	AARONS ROD #2	09/10/2001	1
350761	AARONS ROD #3	09/10/2001	1
350762	AARONS ROD #4	09/10/2001	1
350779	AARON STAR	09/24/2000	20
352532	MCPHEE	10/29/2000	20
352533	MCPHEE	11/07/2000	15
352534	AARON	11/07/2000	6
356699	ROD #1	06/19/2001	1
356700	ROD #2	06/19/2001	1
356701	ROD #3	06/19/2001	1
356702	ROD #4	06/19/2001	1
356703	ROD #5	06/19/2001	1
356704	ROD #6	06/19/2001	1
356705	ROD #7	06/19/2001	1
356706	ROD #8	06/19/2001	1
356707	ROD #9	06/19/2001	1
356708	ROD #10	06/19/2001	1
356709	ROD #11	06/19/2001	1
356710	ROD #12	06/19/2001	1
356711	ROD #13	06/19/2001	1
356712	ROD #14	06/19/2001	1
369581	ROD #15	05/29/2001	1
369582	ROD #16	05/29/2001	1
369583	ROD #17	05/29/2001	1
369584	ROD #18	05/29/2001	1
369585	ROD #19	05/29/2001	1
371894	WATERLOO 1	09/08/2000	1
371895	WATERLOO 2	09/08/2000	1
371896	WATERLOO 3	09/08/2000	1
371897	WATERLOO 4	09/08/2000	1

TOTAL UNITS = 122

to Eagle Plains Resources Ltd. In the spring of 1998 Eagle Plains spent 9 days mapping, soil sampling and prospecting predominantly along the skarn contact. The property was returned to the author in the fall of 1998. In 1999 the author spent 32 days rock and soil sampling resulting in new discoveries. The property was then optioned to Cassidy Gold Corporation who intend to explore these new discoveries.

6.0 REGIONAL GEOLOGY

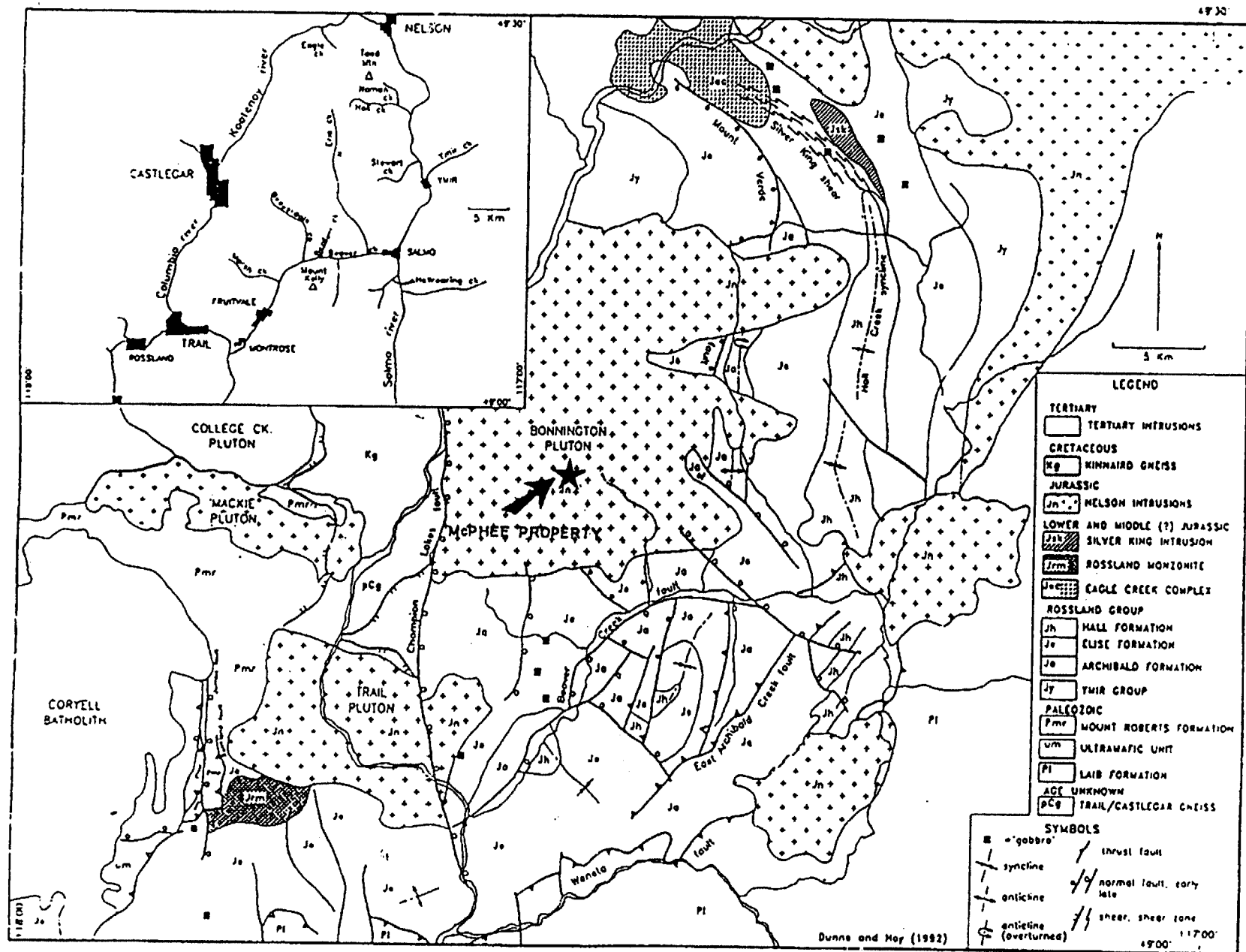
The regional geology is summarized from the work of Charlie Creig, 1998.

Rocks underlying the Mcphee property can be separated into three main subdivisions; two of stratified rocks and one of plutonic rocks. The stratified rocks include one group consisting almost entirely of siliceous fine grained and foliated metaclastic rocks and the other group consisting predominantly of foliated mafic coarse grained fragmental volcanic rocks. The rocks of the two packages are not contiguous and occur in what appears to be large pendants within the third geological subdivision, which consists of plutonic rocks of various compositions that have been assigned, based on previous regional mapping, to the middle Jurassic Bonnington pluton. The metavolcanic rocks on the property are probably correlative with mafic volcanic rocks of the Lower Jurassic Elise formation of the Rossland Group. The metaclastic rocks are of less certain correlation. They may be part of the Hall Formation of the Rossland Group, which typically overlie rocks of the Elise Formation in the region, but they correlate with older clastic rocks common in the region such as the Paleozoic (and older) Mt. Roberts Formation.

7.0 PROPERTY GEOLOGY

The Mcphee property is underlain by two pendants of metasedimentary and metavolcanic rocks enclosed by monzonite and granodiorite of the Bonnington pluton , part of the Nelson suite of intrusions.

FIGURE 3 REGIONAL GEOLOGY



8.0 1999 WORK PROGRAM

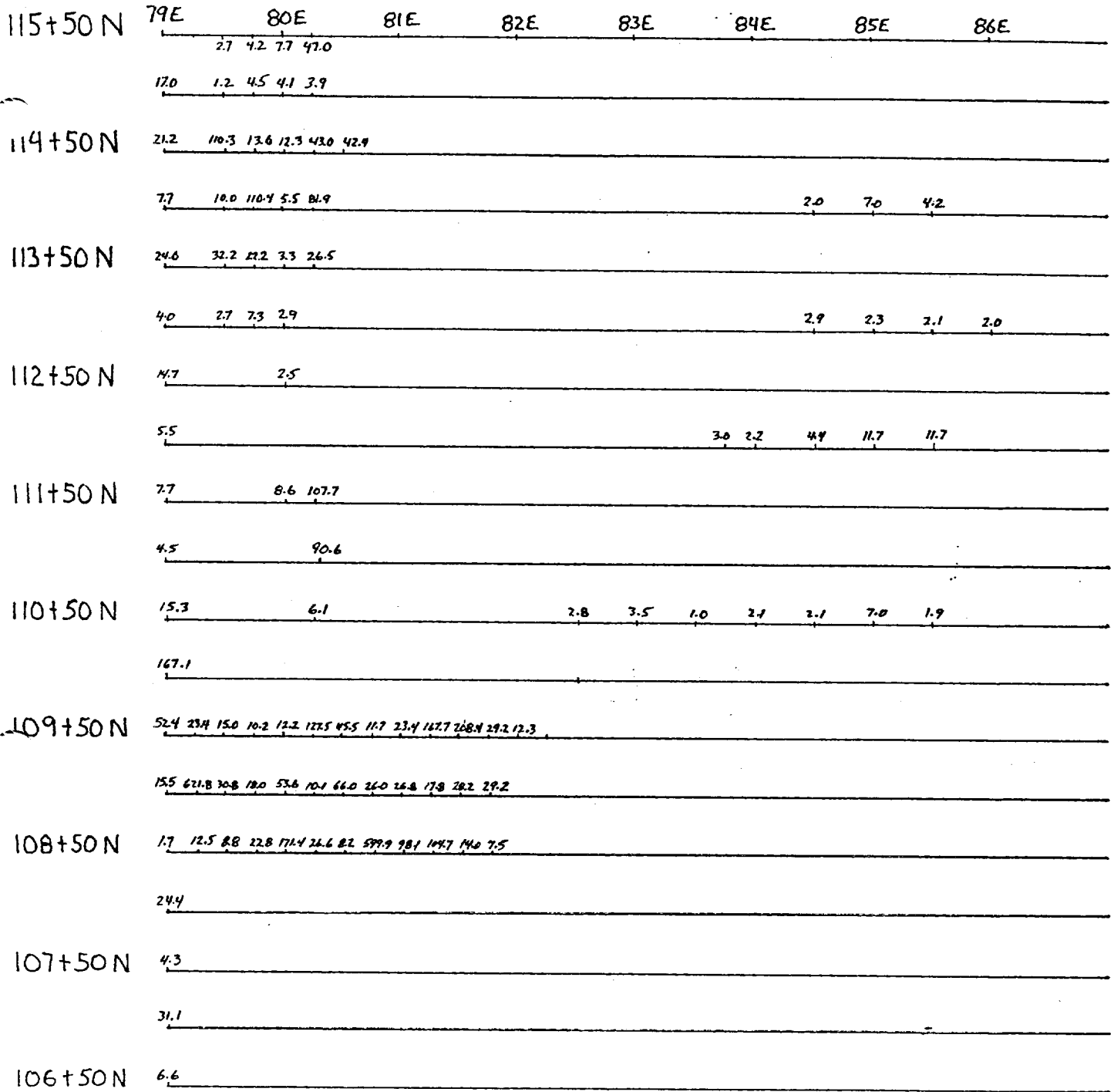
This report describes work performed between June 1 and September 20, 1999 on the Mcphee property. The work consisted of 32 days of rock, stream sediment and soil sampling. Rock samples were taken over a large area of the Mcphee property. Soil samples were taken along lines at a spacing of 25 and 50 metres. A total of 96 rock, 150 soil and 8 stream sediment samples were taken. The soil samples were assigned a grid location and the rock and stream sediment samples were given an ID number. All samples were located using a Garmin Model 35 GPS receiver. All samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C.. Samples were analyzed by ICP and fire assay. Analytical procedures are described in Appendix I.

9.0 RESULTS

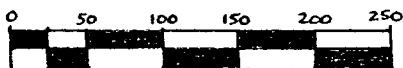
Analytical results from 150 soil samples returned values up to 621.8ppb Au, 275.8ppm As, 1964.76 ppm Pb, 1004.1 ppm Zn, 3494 ppb Ag and 47.98 ppm Mo.

A duplicate sample on station 79E and 110+00N showed an increase in gold values with depth. A sample taken at a depth of 15cm returned 38ppbAu while another at the same location at a depth of 50cm returned 167.1ppb Au. Two moss mat samples returned 570ppb Au and 183ppb Au. Sample locations are shown in Figure 5 (pocket) and soil geochemistry maps of gold and molybdenum are shown in Figures 4a to 4d.

Analytical results from 96 rock samples returned up to 20.702 opt Au, 8150 ppm As, 8912 ppm Zn, 2.53% Pb, 796ppm Mo and 0.86%W. Sample BD99R-96 returned 20.702 opt Au in a 22cm chip sample across a quartz vein. Visible gold was clearly identified with the naked eye. Sample BD99R-102 returned 2.53% Pb, 2.41opt Ag, and 0.015opt Au from a limestone breccia. Sample BD99R-52 returned 0.86%W from a grab of skarn containing semi-massive pyrrhotite. Sample BD99R-62 returned 0.234opt Au from a quartz vein carrying arsenopyrite. Sample locations are shown in Figure 5 (pocket).

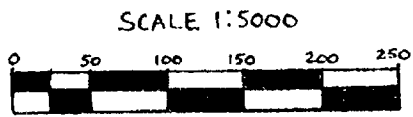
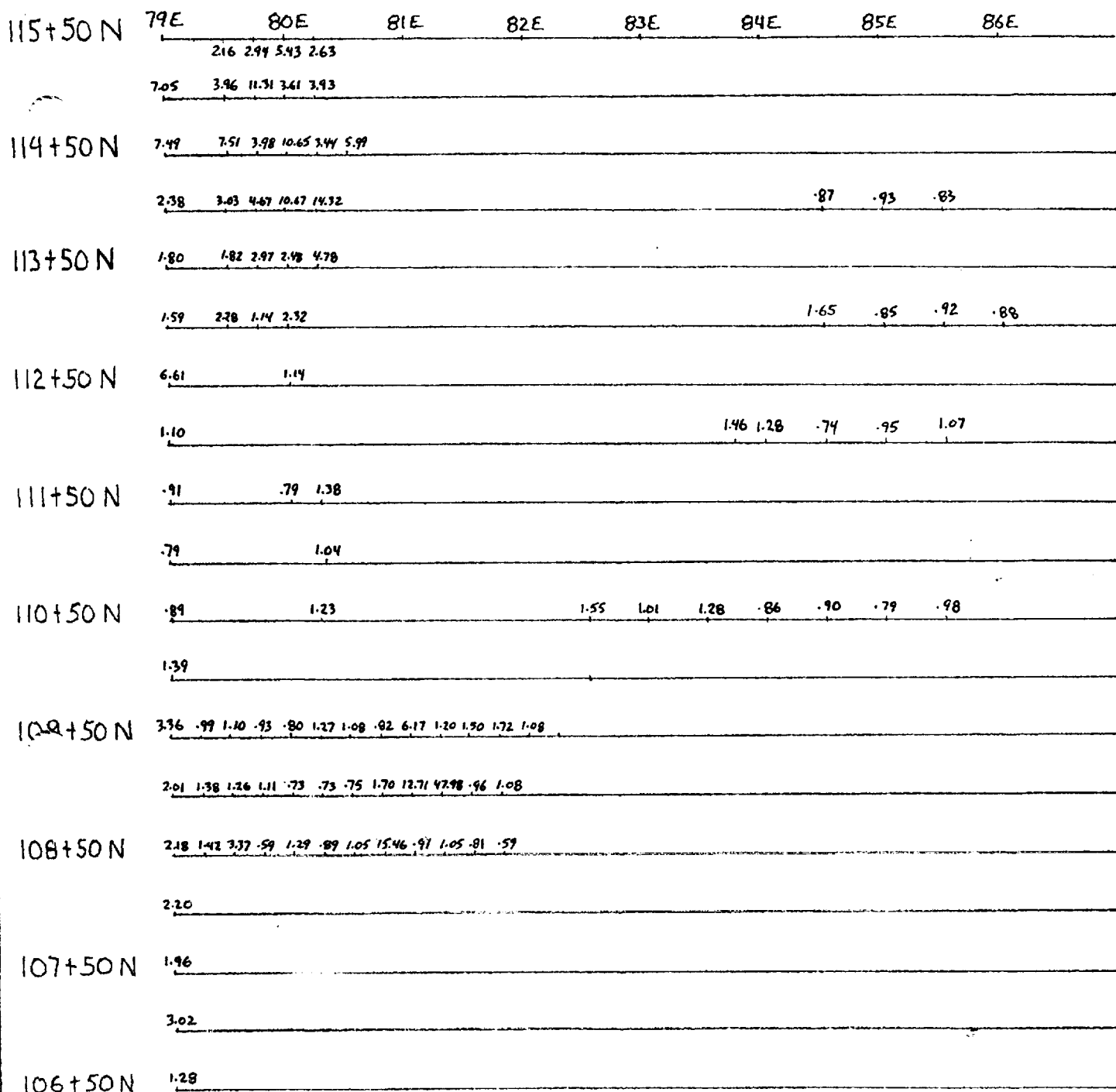


SCALE 1:5000



MCPHEE PROPERTY Gold GEOCHEMISTRY ppb MCPHEE II CLAIM				
SCALE	DATE	FILE	NTS	FIGURE
1:5000	DEC 1999		82F023-33	4a

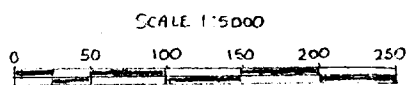
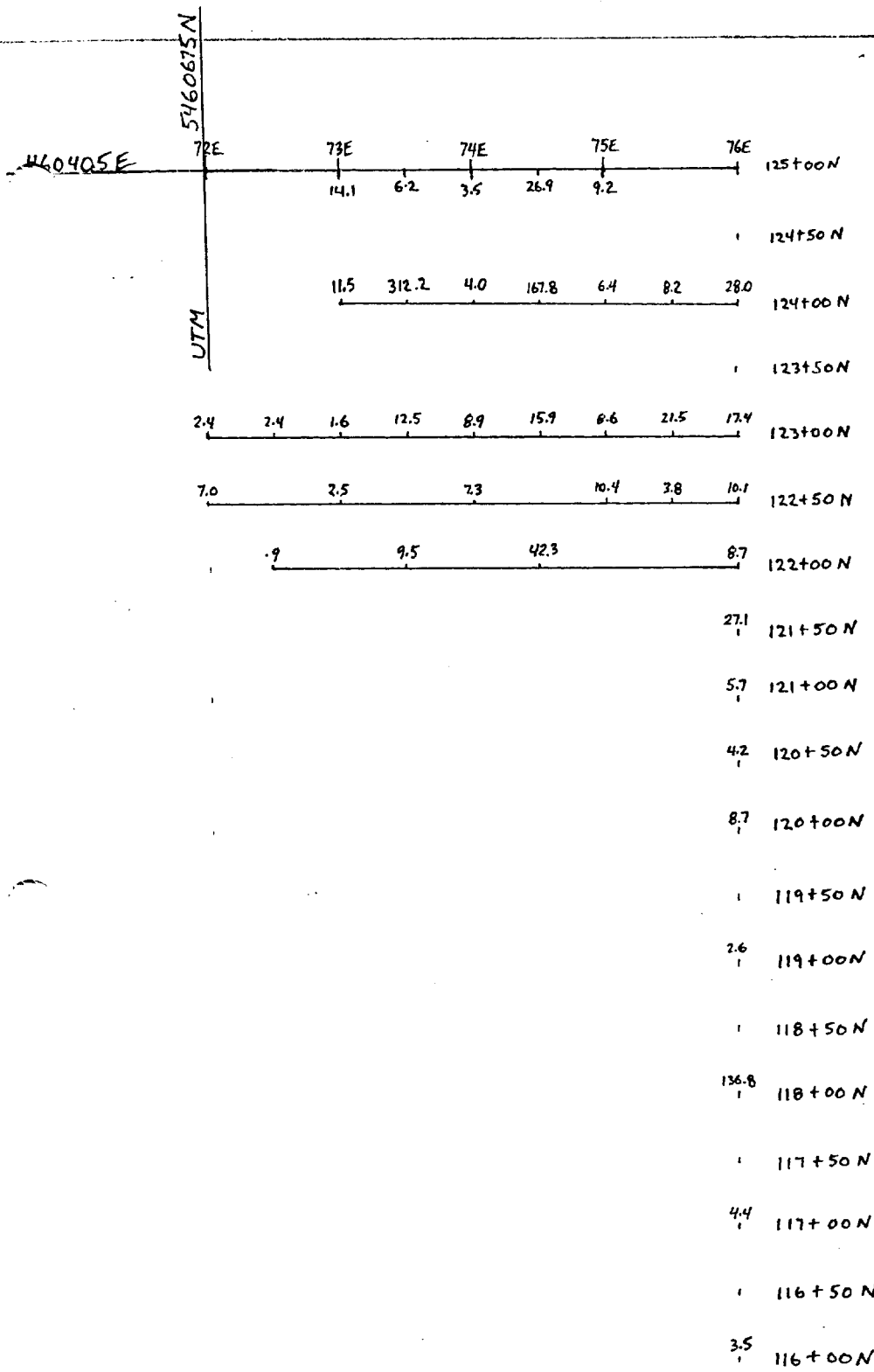




MCPHEE PROPERTY
MO Geochemistry ppm
MCPHEE II CLAIM

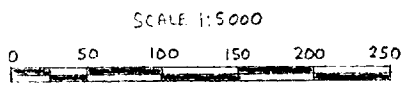
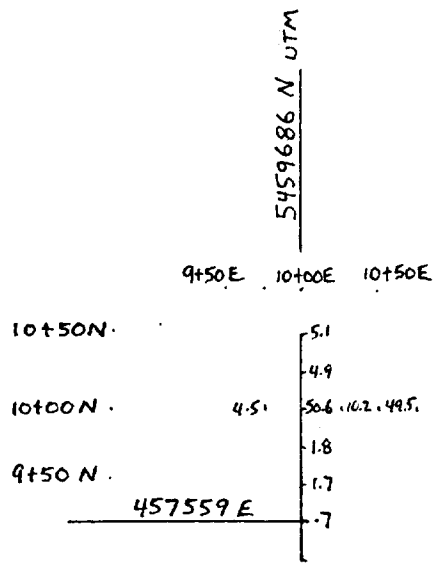
SCALE	DATE	FILE	NTS	FIGURE
1:5000	DEC 1999		82F 023-33	4b





1999 RESULTS prospecting				
McPHEE PROPERTY GOLD GEOCHEMISTRY (ppb) ROD CLAIMS #9, #10				
SCALE	DATE	FILE	NTS	FIGURE
1:5000	DEC 1999		082F 023-033	4C





1999 RESULTS PROSPECTING				
MCPHEE PROPERTY GOLD GEOCHEMISTRY (PPB) WATERLOO 2 CLAIM				
SCALE	DATE	FILE	NTS	FIGURE
1:5000	Dec 1999		082F 023.033	4d



10.0 CONCLUSIONS AND RECOMMENDATIONS

Four new areas containing significant mineralization were identified during the 1999 work program.

The first discovery was of quartz veins carrying coarse visible gold. The veins are hosted in altered quartz monzonite on the Mchpee II claim at sample location BD99R-96.

Shearing and faulting is evident over a 500 metre area from the discovery vein. A large gold geochemistry anomaly exists to the west of the discovery site. It is recommended that further soil geochemistry be completed and a trenching program be carried out to expose more quartz veins that could potentially carry visible gold.

The second area where significant mineralization was discovered is located on the Aarons Rod #1 claim, sample sites BD99R-62,52. Mineralization here consists of skarn with semi-massive pyrrhotite. Arsenopyrite in quartz veins carry significant gold values also. Recommendations for this area include trenching and a geophysical survey.

A third area of interest was a rediscovery of old workings (trench) believed to be that of B.W. Meister. A letter, found while doing research, talks about the Wolf claim located northeast of the old Maude S property. Assays taken from a shaft on the Wolf claim returned up to 2.5 opt Au in 1932. These are believed to be some of workings of B.W. Meister. Samples taken gave just over 3grams per tonne Au. It is recommended that further prospecting be done in the area to find the high grade shaft. Location is on the Aarons Rod #2 claim, sample #BD99R-79.

The last area of interest is located on the Waterloo 2 claim. This showing consists of disseminated arsenopyrite in skarn and semi-massive galena in a limestone/marble breccia. This area has the potential to host gold skarn mineralization or replacement silver, lead and zinc in the carbonate rocks. Prospecting and more soil geochemistry are recommended.

11.0 DISBURSEMENTS

Note: The following disbursements cover the period of June 1, 1999 to September 20, 1999.

Labour	B. Doyle 32 days @ \$250.00	8,000.00
Transportation	4×4 pickup 32 days @60.00	1,920.00
Analyses	Soils (150), Silt (8), Rock (96)	5,222.35
Field Supplies	Sample bags, flagging, etc.	129.56
Shipping Costs		296.44
Report Writing and Drafting		589.14
	TOTAL	\$16,157.49

13.0 STATEMENT OF QUALIFICATIONS

I, Bruce Doyle of Nelson, British Columbia do hereby certify that:

1. I am a graduate of the advanced prospecting course, 1990
2. I have been involved in mineral exploration for over 15 years
3. I am self-employed as a full time prospector

Respectfully submitted,

Bruce Doyle
Nelson, B.C.
December , 1999

APPENDIX I

ANALYTICAL METHOD

Rock Samples:

ICP: 0.500 gram sample is digested with 3ml 2-2-2 HCL-HNO₃-H₂O at 95°C for one hour and is diluted to 100ml with water. This leach is partial for Mn, Fe, Sr, Ca, P, La, Mg, Ba, Ti, B, W and massive sulphide and limited for Na, K and Al.

Au* ignited, aqua-regia/MIS k extract, GF/AA. Finished (10gm).

30, 15 gram sample is digested with 180ml 2-2-2 HCL-HNO₃-H₂O at 95°C for one hour and is diluted to 600ml with water. Analysis by ICP/ES &MS. This leach is partial for Mn, Fe, Sr, Ca, P, La, Mg, Ba, Ti, B, W and limited for Na, K, Ga and Al.

0.50 gram leach with 3ml HCL-HNO₃-H₂O at 95°C for one hour. Diluted to 10ml, analysed by ICP-ES upper limits Ag, Au, Hg, W = 100ppm, Mo, Co, Sb, Bi, Th, U, & B =2000ppm. Cu, Pb, Zn, Ni, Mn, As, V, La,Cr = 10,000ppm. Assay recommended for rock and core samples if Cu, Pb, Zn >10,000ppm, As>30ppm & Au >1000ppb.

- sample type rock Au ** by fire assay from 1 A.T. sample.
- Au-100 Au by fire assay from 1 A.T. sample, duplicate Au; Au duplicated from -100 mesh Nau – native gold, total sample fire assay.
- Multi element assay – 1000 gram sample aqua-regia digestion to 100ml, analysed by ICP-ES Au ** by fire assay from 1 A.T. sample.
- Soils 30gm, 15 gm analysis by ICP/ES & MS as above.

APPENDIX II
ROCK AND STREAM SEDIMENT DESCRIPTIONS

ROCK AND SEDIMENT SAMPLES

BD 99R-01	Rock grab/bedrock	Skarn Disseminated py & traces of po
BD 99R-02	Rock grab/bedrock	Skarn Disseminated py & traces of po & magnetite
BD 99R-03	Rock grab/bedrock	Silicified sediments with quartz veins containing py
BD 99R-04	Rock grab/subcrop	Monzodiorite with hemitite on fractures
BD 99R-05	Rock grab/float	Quartz veins in quartz monzonite with traces of pyrite & chlorite
BD 99S-06	Silt (sediment)	Silt
BD 99S-07	Mossmat (sediment)	Mossmat
BD 99S-08	Mossmat (sediment)	Mossmat
BD 99S-09	Sediment grab/creek	Mossmat
BD 99R-10	Rock/grab/bedrock	Fine grained granite with quartz vein containing mo + py
BD 99R-11	Rock/grab/bedrock	Fine grained granite with vugs of quartz & pyrite
BD 99R-12	Rock/grab/bedrock	Fine grained granite with vugs of quartz & pyrite
BD 99R-13	Rock/grab/bedrock	Fine grained granite with massive po in vugs very magnetic
BD 99R-14	Rock/grab/bedrock	Rusty fine grained granite with pyrite in vugs
BD 99R-15	Rock/grab/bedrock	Rusty fine grained granite with py on the fractures traces of quartz in vugs
BD 99R-16	Rock/grab/bedrock	Rusty fine grained granite with py in vugs
BD 99R-17	Rock/grab/bedrock	Rusty granite with vugs of weathered py & traces of hemitite
BD 99R-18	Rock/grab/bedrock	Rusty fine grained granite with po in blebs (magnetic)
BD 99R-19	Rock/grab/bedrock	Rusty fine grained granite small amount of quartz & magnetite & traces of po
BD 99R-20	Rock/grab/bedrock	Disseminated py in granite 5% sulfides, non magnetic
BD 99R-21	Rock/grab/bedrock	Altered granite, small amount of py on fractures
BD 99R-22	Rock/grab/subcrop	Quartz with iron carbonate (siderite), no visible sulfides
BD 99R-22A	Rock/grab/bedrock	Quartz with feldspar, white mica, in a potassium feldspar megacrystic quartz monzonite
BD 99R-23	Rock/grab/bedrock	Potassium feldspar megacrystic quartz monzonite with rusty spots of weathered py
BD 99R-24	Rock/grab/bedrock	Rusty quartz veins in a granodiorite
BD 99R-25	Rock/grab/bedrock	Massive po sulfides in skarn magnetic
BD 99R-26	Rock/grab/bedrock	Disseminated po in skarn
BD 99R-27	Rock/grab/bedrock	Intrusive Breccia gneissic texture with quartz & py
BD 99R-28	Rock/grab/bedrock	Granodiorite pyrite on some factors
BD 99R-29	Rock/grab/subcrop	Fine grained granodiorite with quartz and py and vugs
BD 99R-30	Rock/grab/float	Quartz monzodiorite with disseminated py trace chalcopyrite
BD 99R-31	Rock/Grab/ bedrock	Gneissic sediments trace py and quartz
BD 99R-32	Rock/grab/bedrock	Potassium feldspar megacrystic quartz monzonite
BD 99R-33	Rock/6cmchip/bedr	Stockwork quartz veins with white mica alteration
BD 99R-34	Rock/grab/bedrock	White mica muscovite altered quartz monzonite with vugs of weathered py
BD 99R-35	Rock/grab/bedrock	Quartz veining in a quartz monzonite with muscovite mica

BD 99R-36	Rock/grab/subcrop	Quartz stockwork open spaces feldspar mica muscovite trace py
BD 99R-37	Rock/grab/ float	Quartz with trace py and some intrusive
BD 99R-38	NS	NS
BD 99R-39	Rock/grab/bedrock	Silicified limestone very fine grained py 30% sulfides
BD 99R-40	Rock/.5mchip/bedr	Quartz silicious zone in marble 15% py
BD 99R-41	Rock/grab/bedrock	Garnet skarn with disseminated py and trace arsenopyrite
BD 99R-42	Rock/ grab/ bedrock	Cherty limestone with trace py
BD 99R-43	Rock/grab/ bedrock	Altered quartz monzonite trace pyrite
BD 99R-44	Rock/grab/subcrop	White quartz with streaks of py and arsenopyrite 30% sulfides in medasediments (hornfelds)
BD 99R-45	Rock/ grab/subcrop	White quartz with veinlets of arsenopyrite 3% sulfides
BD 99R-46	Rock/grab/subcrop	White quartz with 7% disseminated arsenopyrite 3% sulfides
BD 99R-47	Rock/grab/subcrop	White quartz with manganese staining no visible sulfides
BD 99R-48	Rock /select/bedrock	Select sample of small quartz veins in fine grained granite
BD 99R-49	Rock/grab/ bedrock	Sample of silicified Hornfelds sediments with disseminated py And small veinlets crosscutting the rock
BD 99R-50	Rock/grab/ bedrock	Sample of quartz vein with py crosscutting Hornfelds sediments
BD 99R- 51	Rock/grab/float	Altered granodiorite with yellowish staining
BD 99R-52	Rock/grab/Bedrock	Random grab from outcrop at the tungsten showing fine grained Po in a green proxene skarn
BD 99R-53	Rock/.5m chip/FW	5m chip of semi massive py in quartz from the footwall of an addit
BD 99R-54	Rock/.5mchip/HW	Semi massive py in quartz within a fine grained granodiorite addit
BD 99R-55	Rock/.3mchip/HW	.3 m chip with massive py and quartz in hanging wall
BD 99R-56	Rock/ 2m chip/ FW	2m chip of quartz with py and po in the footwall of the addit
BD 99R-57	Rock/ .2m chip/bedr	Sample across a quartz vein with visible molybdenum and py trace sphalerite 20m south of the addit infine grained granodiorite
BD 99S-58	Sediment/grab/creek	Moss mat sample
BD 99S-59	Sediment/ grab/creek	Moss mat sample
BD 99S-60	Sediment /grab/creek	Moss mat sample
BD 99R- 61	Rock/grab/ bedrock	Grab from a quartz vein with 5% arsenopyrite in Hornfelds sediments
BD 99R-62	Rock/grab/bedrock	Grab of quartz with 10% arsenopyrite hosted in a Hornfelds sedimentary rock
BD 99R-63	Sediment/grab/creek	Moss mat sample
BD 99R-64	Rock/grab/subcrop	Grab of a piece of quartz vein with rusty boxwork texture trace Pb and Py Quartz monzonite
BD 99R-65	Rock/grab/subcrop	Grab of quartz rusty colour small pieces of galena visible gold in sample quartz monzonite
BD 99R-66	Rock/grab/float	Grab of weathered pyrite in quartz rusty
BD 99R-67	Rock /grab/bedrock	Sample quartz in clay altered quartz monzonite with py and trace galena
BD 99R-68	Rock/select/bedrock	Select sample of vugy white quartz with crystals and trace py
BD 99R-69	Rock/grab/bedrock	Grab of vugy crystals of quartz in cutting clay altered quartz monzonite
BD 99R-70	Rock/grab/bedrock	Quartz vein with py in clay altered quartz monzonite
BD 99R-71	Rock/grab/bedrock	Grab of quartz vein trace py in clay altered sheared quartz

BD 99R-72	Rock/grab/bedrock	monzonite Sample of quartz veins 1-3 cm wide with weathered py and manganese
BD 99R-73	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-74	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-75	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-76	Rock/grab/bedrock	Sheared breccia rusty tuff no visible sulfides
BD 99R-77	Rock/grab/bedrock	Sample of fractured brecciated tuff with disseminated py
BD 99R-78	Rock/grab/float	Sample of quartz with rusty vugs trace amount of galena and some sediments on the wall rock
BD 99R-79	Rock/grab/subcrop	Grab of quartz from an old trench or caved addit trace amounts of galena, arsenopyrite and sphalerite, py
BD 99R-80	Rock/grab/ subcrop	Grab of quartz from and old trench or caved in addit trace amounts of galena, arsenopyrite and sphalerite, py
BD 99R-81	Rock/grab/old dump	Grab from and old dump small amounts of py, arsenopyrite, galena, sphalerite
BD 99R-82	Rock/grab/old dump	Sample from and old dump trace amounts of py, arsenopyrite and galena
BD 99R-83	Rock/grab/old dump	Random grab from the Maud S. Dump of quartz fragments
BD 99R-84	Rock/select/old dump	Select sample of quartz fragments
BD 99R-85	Rock/grab/bedrock	Sample above the Maud S. mine of quartz veins with arsenopyrite hosted in coarse grained diorite
BD 99R-86	Rock/grab/dump	Above the main Maud S. Mine grab of quartz from top workings trace py and galena
BD 99R-87	Rock/grab/float	Grab from a white quartz boulder 20cm x 15cm trace py
BD 99R-88	Rock/grab/float	Grab from a quartz boulder trace amounts of galena visible gold
BD 99R-89	Rock/grab/bedrock	Grab of altered granodiorite with massive chlorite serpentine on slicks no visible mineralization
BD 99R-90	Rock/grab/bedrock	Grab of sheared granodiorite with small quartz veins and trace amounts of py
BD 99R-91	Rock/.4chip/bedrock	Chip of quartz vein with disseminated py 10% sulfides
BD 99R-92	Rock/grab/bedrock	A grab from a 10cm wide quartz vein of white quartz with black manganese stain
BD 99R-93	Rock/grab/bedrock	Grab from the same vein as sample 92, rusty quartz with trace amounts of pyrite
BD 99R-94	Rock/grab/subcrop	Sample taken from vein of rusty quartz with trace amounts of pyrite and galena
BD 99R-95	Rock/grab/bedrock	Sample of clay altered quartz monzonite some silicification and trace pyrite
BD 99R-96	Rock/22cmchip/bedr	22 cm chip across a quartz vein with box work weathered sulfides visible gold
BD 99R-97	Rock/grab/subcrop	Subcrop from vein rusty quartz trace py and galena also visible gold
BD 99R-98	Rock/10cmchip/bedr	10cm chip across of rusty quartz vein with trace pyrite
BD 99R-99	Rock/grab/ bedrock	Grab of granodiorite with small milky quartz veins
BD 99R-100	Rock/grab/float	Sample of large float slab of silicified granodiorite with disseminated pyrite with calcite stringers
BD 99R-101	Rock/grab/ subcrop	Sample of silicified limestone with trace py and arsenopyrite and small patch of dark brown sphalerite
BD 99R-102	Rock/grab/bedrock	Sample of limestone breccia with disseminated galena trace sphalerite and chalcopyrite

BD 99R-103	Rock/grab/bedrock	Weathered manganese stained limestone with course patches of galena
BD 99R-104	Rock/grab/float	Quartz boulder 15cm x15cm with trace amounts of galena and visible gold

APPENDIX III
GEOCHEMICAL ANALYSES



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9901693
1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BO99R-01	4	86	7	59	.6	7	15	1218	4.23	108	<8	<2	2	150	.4	4	4	63	2.62	.057	4	15	1.06	92	.06	15	1.11	.14	.27	2	5
BO99R-02	1	122	3	95	.3	2	16	1262	5.00	9	<8	<2	<2	55	.5	<3	4	72	1.84	.070	5	11	1.24	60	.10	<3	1.33	.13	.22	<2	2
BO99R-03	5	214	7	8	.3	20	11	161	3.88	6	<8	<2	2	16	<.2	<3	<3	37	.23	.023	3	55	.23	51	.07	3	.75	.04	.09	14	3
BO99R-04	3	6	6	27	<.3	3	3	1109	1.96	3	<8	<2	5	45	.3	<3	<3	27	.27	.082	15	10	.40	208	.03	10	1.16	.14	.33	5	1
BO99R-05	3	10	57	64	.7	6	2	499	1.58	5	<8	<2	3	13	.5	<3	<3	8	.10	.035	12	26	.16	276	.01	26	.82	.02	.32	12	13
BO99R-10	796	54	3	7	.3	3	3	159	2.89	<2	<8	<2	8	39	<.2	<3	5	41	.20	.034	9	21	.19	92	.10	<3	1.00	.14	.30	10	1
BO99R-11	9	100	<3	12	.3	3	8	154	2.21	<2	<8	<2	9	34	.2	<3	7	36	.37	.033	15	22	.30	24	.11	5	.89	.05	.18	8	1
BO99R-12	12	277	8	10	.4	4	31	138	2.59	<2	<8	<2	9	31	<.2	<3	<3	30	.29	.024	11	20	.24	31	.10	6	.80	.07	.12	10	5
BO99R-13	15	140	<3	19	<.3	5	14	190	3.01	<2	<8	<2	10	49	<.2	<3	4	40	.32	.041	21	21	.38	86	.12	3	1.07	.18	.36	9	4
BO99R-14	12	85	<3	9	<.3	4	7	141	2.37	<2	<8	<2	10	38	<.2	<3	4	39	.27	.041	14	20	.32	52	.12	<3	.90	.11	.23	9	1
BO99R-15	6	103	<3	17	<.3	6	12	223	2.26	<2	<8	<2	9	38	<.2	<3	<3	36	.25	.037	16	25	.36	83	.12	<3	.97	.16	.45	11	2
BO99R-16	7	73	4	10	<.3	1	11	113	2.31	<2	<8	<2	10	46	<.2	<3	<3	37	.22	.037	15	21	.27	66	.12	<3	.94	.15	.28	9	2
BO99R-17	7	77	<3	21	<.3	2	5	248	3.38	<2	<8	<2	9	37	<.2	<3	<3	52	.21	.059	16	26	.45	105	.15	<3	.96	.13	.57	11	1
BO99R-18	14	82	3	27	<.3	6	8	270	2.68	<2	<8	<2	10	40	<.2	<3	3	59	.32	.064	19	24	.61	130	.17	<3	1.12	.17	.72	10	2
RE BO99R-18	14	86	4	27	<.3	3	9	273	2.68	<2	<8	<2	10	41	.3	<3	7	59	.32	.064	19	23	.61	134	.17	3	1.15	.18	.72	10	2
BO99R-19	4	19	3	17	<.3	3	3	231	1.90	<2	<8	<2	4	66	<.2	<3	<3	33	.52	.054	15	24	.30	53	.10	3	.93	.22	.17	12	1
BO99R-20	4	64	3	10	<.3	1	6	166	2.34	<2	<8	<2	<2	73	.2	<3	6	21	.50	.069	13	11	.18	123	.09	<3	.86	.20	.21	6	4
BO99R-21	12	90	<3	32	<.3	3	10	299	3.20	<2	<8	<2	9	40	<.2	<3	4	62	.35	.070	21	27	.63	117	.18	<3	1.17	.19	.68	10	2
STANDARD C3/AU-R	26	71	40	176	6.2	37	13	834	3.54	55	18	4	21	29	24.5	20	32	84	.60	.087	19	183	.64	148	.10	22	1.93	.06	.17	20	516
STANDARD G-2	1	2	<3	42	<.3	8	4	561	2.09	<2	<8	<2	4	84	<.2	<3	<3	43	.69	.094	8	81	.61	227	.14	<3	1.12	.14	.52	3	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 11 1999

DATE REPORT MAILED: *June 15/99*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9901944
1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-06	4	28	27	164	.4	53	16	724	3.61	<2	<8	<2	7	101	.2	13	<3	87	.99	.190	32	76	1.32	318	.22	4	1.87	.02	.22	2	7
RE BD99S-06	4	30	31	168	.3	57	16	754	3.59	<2	<8	<2	5	103	<.2	11	5	85	1.01	.188	32	76	1.41	335	.23	5	1.93	.02	.24	2	4

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SILT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999

DATE REPORT MAILED:

July 7/99

SIGNED BY...: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9901945
1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-07	2	18	44	86	1.1	26	10	610	3.01	5	17	<2	5	55	<.2	12	3	91	.64	.096	16	58	.59	137	.13	6	1.20	.01	.16	4	570
BD99S-08	2	24	28	87	1.0	28	13	420	3.66	<2	<8	<2	5	50	<.2	12	<3	126	.58	.084	12	72	.97	135	.18	<3	1.54	<.01	.18	12	183
BD99S-09	1	20	18	57	<.3	23	11	400	3.96	<2	<8	<2	5	69	<.2	11	<3	131	.87	.232	34	101	.53	96	.12	7	1.10	.02	.15	3	12
RE BD99S-09	2	19	24	56	<.3	24	10	384	3.93	<2	<8	<2	6	67	<.2	10	9	129	.84	.227	32	100	.50	91	.12	5	1.04	.01	.14	3	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999

DATE REPORT MAILED: *July 7/99*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9901943

1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
BD-99R-22	1	19	21	20	1.4	3	2	406	1.50	8	<8	<2	4	64	.2	<3	<3	3	.61	.036	13	9	.06	392	<.01	7	.37	.03	.21	2	23
BD-99R-22A	4	4	19	73	1.0	13	3	1048	2.67	9	<8	<2	<2	97	.5	<3	<3	12	1.12	.004	2	20	.12	77	<.01	7	.24	.01	.10	5	11
BD-99R-23	1	32	5	17	.6	4	4	284	2.01	2	<8	<2	5	42	<.2	<3	<3	38	.34	.047	14	12	.14	55	.07	<3	.51	.08	.08	3	<1
BD-99R-24	30	136	222	123	32.1	4	5	384	3.20	24	<8	<2	7	8	<.2	3	43	24	.11	.072	12	12	.48	80	.04	<3	1.14	.06	.31	4	420
BD-99R-25	8	720	4	11	.9	272	60	151	14.18	<2	<8	<2	<2	57	2.6	<3	4	18	.59	.039	2	35	.27	24	.05	<3	.71	.02	.02	442	26
BD-99R-26	3	284	8	20	.9	101	18	243	4.64	<2	<8	<2	<2	34	<.2	6	3	33	1.32	.084	3	88	.63	14	.11	<3	1.46	.03	.02	63	5
BD-99R-27	3	432	3	27	.7	40	64	322	4.90	6	<8	<2	<2	29	<.2	4	<3	64	.60	.055	2	54	.80	41	.11	<3	1.04	.08	.10	39	12
BD-99R-28	5	154	3	23	.4	27	18	215	2.84	2	<8	<2	5	26	<.2	4	<3	60	.29	.039	2	26	.61	43	.17	<3	1.04	.11	.18	7	16
BD-99R-29	4	90	10	6	.8	16	1	60	2.55	24	<8	<2	<2	5	<.2	<3	<3	8	.02	.016	<1	22	.03	18	.01	<3	.09	.01	.04	8	85
BD-99R-30	1	17	21	30	.4	9	8	897	2.07	<2	<8	<2	6	74	<.2	<3	<3	12	1.75	.070	22	10	.06	153	.01	<3	.60	.07	.32	2	59
BD-99R-31	9	294	4	67	.8	69	42	551	8.29	5	<8	<2	4	34	.8	9	<3	178	.59	.094	10	81	1.63	104	.35	<3	2.84	.11	.51	3	14
BD-99R-32	2	90	7	82	1.1	7	7	1354	3.72	2	<8	<2	2	47	<.2	7	<3	41	.80	.092	14	11	1.02	156	.04	<3	1.20	.04	.30	8	6
BD-99R-33	33	25	8	55	.9	3	5	1233	3.55	69	9	<2	3	28	<.2	5	<3	13	.12	.095	9	11	.06	1209	.01	4	.58	.01	.38	4	27
BD-99R-34	12	8	<3	9	.6	6	2	202	1.58	3	<8	<2	2	18	<.2	3	<3	4	.09	.047	8	28	.12	446	<.01	6	.43	.02	.23	13	<1
BD-99R-35	9	17	6	5	.3	6	2	197	1.14	<2	<8	<2	2	16	<.2	<3	<3	2	.03	.019	5	20	.03	825	<.01	<3	.23	.02	.14	6	<1
BD-99R-36	1	14	7	9	.6	2	3	635	1.69	11	<8	<2	4	47	<.2	<3	<3	7	.44	.047	12	17	.09	668	<.01	<3	.43	.02	.23	4	10
BD-99R-37	5	20	5	12	.7	5	3	597	1.94	<2	<8	<2	5	39	.2	<3	<3	7	.43	.062	16	20	.09	235	<.01	<3	.64	.05	.37	9	13
BD-99R-39	4	25	173	45	2.4	37	12	497	5.56	391	<8	<2	<2	49	<.2	7	<3	49	.61	.057	3	23	.42	50	<.01	<3	.47	.01	.06	4	300
BD-99R-40	5	45	568	384	3.3	24	8	1610	10.50	783	<8	<2	<2	22	3.5	17	3	171	.28	.060	5	26	1.07	49	.01	<3	1.31	<.01	.05	5	678
BD-99R-41	2	13	37	211	1.2	10	4	3232	6.86	301	<8	<2	5	847	2.1	13	<3	214	8.90	.027	5	12	.39	76	.01	6	1.49	.01	.23	4	44
BD-99R-42	3	2	12	111	.5	28	5	1880	2.96	14	<8	<2	2	427	.5	5	<3	73	12.80	.083	9	27	.66	118	.04	8	.92	.01	.19	2	16
RE BD-99R-42	4	2	10	115	.7	28	5	1945	3.08	17	<8	<2	2	440	.8	8	<3	77	13.29	.085	9	28	.68	122	.04	9	.98	.01	.19	3	14
BD-99R-43	7	95	7	13	.6	4	4	93	2.13	7	<8	<2	2	34	<.2	<3	<3	19	.38	.043	6	8	.18	49	.14	<3	.38	.08	.11	3	3
BD-99R-44	7	73	10	36	.3	6	6	355	2.03	22	<8	<2	<2	128	.3	<3	<3	40	2.75	.040	3	25	.04	134	.11	3	2.38	.08	.03	9	10
BD-99R-45	1	5	5	6	.7	4	1	53	1.18	6239	<8	<2	<2	8	<.2	3	<3	2	.04	.002	1	21	.06	55	<.01	<3	.09	.01	.03	7	565
BD-99R-46	2	5	5	5	1.5	5	1	49	1.28	7867	<8	<2	<2	7	<.2	<3	<3	2	.05	.002	1	24	.05	29	<.01	<3	.08	.01	.04	7	968
BD-99R-47	3	10	10	15	.7	12	5	581	1.61	639	<8	<2	<2	5	.3	<3	<3	28	.06	.015	1	34	.33	59	<.01	<3	.41	.01	.10	12	100
BD-99R-48	2	11	311	376	.8	4	3	941	1.59	20	8	<2	6	22	3.8	<3	<3	9	.16	.043	13	19	.20	193	.01	4	.60	.03	.29	4	78
STANDARD C3/AU-S	26	68	38	165	6.4	37	12	781	3.54	56	29	<2	19	28	23.5	23	25	82	.57	.088	19	170	.63	150	.10	17	1.83	.05	.16	20	523
STANDARD G-2	2	4	5	43	<.3	8	4	543	2.16	3	<8	<2	4	74	<.2	<3	<3	41	.66	.093	8	73	.61	224	.14	<3	.96	.10	.46	2	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999

DATE REPORT MAILED:

July 5/99

SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902197

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	W
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb	%
BD99R-49	5	107	4	17	.5	81	12	203	2.55	5	<8	<2	2	29	<.2	6	<3	11	.67	.040	3	56	.25	25	.04	<3	.78	.04	.02	62	6	-
BD99R-50	8	263	5	19	.4	18	56	245	5.19	<2	<8	<2	2	298	<.2	<3	<3	84	3.99	.122	8	21	.68	71	.08	8	6.36	.79	.17	2	15	-
BD99R-51	8	49	<3	4	.5	1	1	82	1.64	<2	11	<2	2	28	<.2	<3	<3	17	.37	.033	4	13	.07	88	.14	<3	.28	.09	.07	10	1	-
BD99R-52	394	264	3	35	.9	35	29	482	7.62	6	11	<2	2	9	.3	5	<3	28	.85	.018	5	23	.08	21	.03	3	.46	.02	<.01	341	14	.86
BD99R-53	608	192	13	5	.5	6	2	109	16.09	<2	<8	<2	6	9	<.2	<3	10	33	.05	.024	2	20	.12	50	.02	<3	1.23	.04	.17	13	10	-
BD99R-54	593	145	8	7	.8	5	19	99	7.20	10	15	<2	3	6	<.2	7	<3	10	.05	.021	3	26	.18	39	<.01	5	.93	.01	.17	13	12	-
BD99R-55	64	230	5	6	.7	5	119	107	20.88	19	<8	<2	5	3	.5	4	5	10	.05	.014	3	23	.08	22	<.01	<3	.65	.03	.06	13	10	-
RE BD99R-55	68	244	<3	7	.8	4	125	114	21.85	14	<8	<2	4	3	.2	5	<3	11	.05	.013	2	24	.08	18	<.01	<3	.69	.03	.06	12	10	-
BD99R-56	13	14	3	7	<.3	6	1	84	.83	<2	<8	<2	2	6	<.2	5	<3	3	.03	.009	4	32	.06	25	<.01	<3	.15	.02	.07	15	2	-
BD99R-57	133	32	27	59	.4	7	1	71	2.34	15	8	<2	<2	1	.3	3	<3	1	.01	.006	<1	36	.03	2	<.01	<3	.13	.01	.01	17	2	-
STANDARD C3/AU-R	28	67	33	162	5.6	37	11	784	3.43	58	30	3	19	28	23.3	18	20	80	.59	.089	19	174	.58	146	.08	17	1.88	.04	.17	15	520	-
STANDARD G-2	2	4	<3	43	<.3	6	4	560	2.10	2	<8	<2	5	74	<.2	<3	<3	41	.69	.098	8	80	.60	235	.13	<3	1.00	.08	.52	2	<1	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL. W BY REGULAR ASSAY ICP.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 13 1999

DATE REPORT MAILED:

July 21/99

SIGNED BY: *C. Leong*

TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902198

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-58	6	19	19	66	<.3	18	8	416	3.92	4	11	<2	4	59	.4	<3	<3	116	.71	.161	32	93	.41	97	.10	5	1.07	.02	.18	<2	3
BD99S-59	4	30	31	91	.5	19	8	830	2.87	2	14	<2	2	85	.8	<3	3	79	.80	.134	33	67	.47	124	.12	<3	1.48	.02	.21	3	17
BD99S-60	3	31	43	145	.8	32	10	629	2.54	2	<8	<2	<2	86	1.8	<3	<3	61	1.07	.124	26	57	.73	209	.14	7	1.53	.02	.21	3	5
RE BD99S-60	3	33	38	145	.7	32	10	631	2.50	3	<8	<2	<2	85	1.9	<3	<3	60	1.07	.124	25	55	.73	205	.14	5	1.52	.02	.21	3	28

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 13 1999 DATE REPORT MAILED: *July 21/99* SIGNED BY: *C. Long* TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9902359

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppb	ppm	ppm	ppm	%	
BD99S-63	2.83	29.84	38.66	124.1	1819	40.4	11.6	794	2.98	14.5	29.0	4.0	1.7	90.0	2.02	1.04	.26	96	1.05	.128	15.1	60.0	.74	208.4	.196	2	1.52	.021	.39	6.2	.20	52	4.2	.07	6.8	.08
STANDARD DS2	14.27	132.33	31.99	158.7	267	37.4	13.1	834	3.29	66.2	20.5	193.6	3.4	29.0	11.42	10.39	11.02	79	.57	.083	13.7	170.5	.60	143.1	.115	2	1.82	.040	.15	7.4	2.18	255	2.9	1.94	6.2	.02

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: MOSS MAT

DATE RECEIVED: JUL 21 1999

DATE REPORT MAILED:

July 30/99

SIGNED BY.....

C. Leong

TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9902361

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
BD99R-64	40	64	1160	278	23.0	5	1	36	2.28	183	<8	16	<2	4	3.6	3	<3	4	<.01	.006	1	199	.01	109	<.01	<3	.08	.01	.03	<2	<5	1
BD99R-65	2	9	9208	21	78.2	5	1	14	1.14	362	<8	80	<2	13	.5	7	<3	2	<.01	.004	<1	199	<.01	39	<.01	<3	.06	.01	.05	<2	<5	<1
BD99R-67	2	6	540	43	6.0	5	2	706	1.12	8	<8	<2	3	25	.4	<3	<3	5	.25	.024	11	189	.09	97	<.01	6	.43	.01	.18	<2	<5	<1
BD99R-68	2	9	94	17	5.1	6	3	715	2.02	10	<8	3	4	15	<.2	<3	<3	10	.10	.040	15	221	.09	336	<.01	7	.66	.01	.34	<2	<5	<1
BD99R-69	.1	6	52	25	4.9	5	2	600	1.22	5	<8	<2	2	7	.2	<3	<3	5	.06	.019	9	226	.11	165	<.01	4	.42	<.01	.15	<2	<5	<1
RE BD99R-69	1	6	50	25	4.4	5	2	579	1.17	3	<8	<2	2	7	.2	<3	<3	5	.06	.018	8	217	.10	159	<.01	4	.40	.01	.15	2	<5	<1
STANDARD C3	26	66	38	165	5.8	37	13	781	3.40	57	22	5	19	30	23.5	15	23	82	.57	.087	19	170	.65	144	.09	18	1.90	.04	.17	20	<5	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 21 1999 DATE REPORT MAILED: July 29/99 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Doyle, Bruce File # 9902361
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	S.Wt gm	NAu mg	-Au opt	DupAu opt	TotAu opt
BD99R-64	498	2.27	.753	-	.886
BD99R-65	510	<.01	2.890	-	2.890
BD99R-67	514	<.01	.013	-	.013
BD99R-68	502	<.01	.008	-	.008
BD99R-69	508	<.01	.004	.003	.004

-AU : -100 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -100 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 21 1999 DATE REPORT MAILED: *July 29/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902360

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	ppm	ppm	oz/t
BD99R-61	5	10	46	34	2.9	7	4	110	1.89	2727	<8	6	2	12	<.2	<3	<3	9	.27	.026	4	16	.24	40	.01	3	.34	.01	.13	8	<5	<1	.162
BD99R-62	4	14	37	10	3.2	8	5	30	2.86	4561	<8	7	<2	7	<.2	3	<3	7	.04	.019	3	21	.05	28	.01	<3	.17	.01	.11	10	<5	<1	.234
BD99R-66	2	20	130	61	3.1	3	1	106	1.01	109	<8	3	<2	5	.5	<3	<3	1	.03	.010	2	21	.02	141	<.01	<3	.12	<.01	.09	11	<5	<1	.076
BD99R-70	<1	7	54	14	5.5	2	4	497	1.83	35	<8	<2	6	29	.3	<3	<3	8	.41	.070	20	6	.10	199	<.01	5	.54	.01	.29	2	<5	<1	.003
BD99R-71	3	3	113	120	<.3	2	2	532	1.18	10	<8	<2	2	9	.4	<3	<3	6	.06	.023	9	17	.15	61	<.01	<3	.47	<.01	.13	10	<5	<1	.002
BD99R-72	2	7	27	21	.5	3	2	669	1.69	33	<8	<2	<2	13	<.2	<3	<3	4	.09	.018	5	19	.08	78	.01	<3	.39	<.01	.12	26	<5	<1	.010
RE BD99R-72	2	8	32	20	.6	3	3	665	1.69	33	<8	<2	2	13	.2	<3	<3	4	.09	.018	6	21	.08	78	.01	<3	.39	<.01	.12	26	<5	<1	.012
STANDARD C3/AU-1	26	66	38	165	5.8	37	13	781	3.40	57	22	5	19	30	23.5	15	23	82	.57	.087	19	170	.65	144	.09	18	1.90	.04	.17	20	<5	1	.100

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 21 1999

DATE REPORT MAILED:

July 29/99

SIGNED BY: *C. Leong*

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902603

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99R-73	2	47	52	84	.8	94	22	400	5.02	13	<8	<2	2	21	.4	5	<3	102	.31	.088	3	140	1.99	76	.13	<3	1.54	.06	.10	<2	11
BD99R-74	3	61	6	49	.4	12	8	310	3.41	<2	<8	<2	3	35	<.2	<3	<3	129	.56	.104	5	27	.99	45	.20	<3	1.40	.06	.10	3	23
BD99R-75	5	120	<3	41	<.3	15	15	314	3.60	<2	<8	<2	3	35	<.2	<3	<3	106	.62	.108	6	21	.83	56	.17	4	1.28	.07	.12	3	227
BD99R-76	1	61	5	104	<.3	21	17	854	4.30	6	<8	<2	3	78	.3	3	<3	164	.59	.119	10	46	1.83	59	.14	<3	1.84	.04	.06	3	3
BD99R-77	2	79	10	54	4.2	18	17	647	2.61	7	<8	<2	4	52	.2	6	15	86	.39	.052	12	37	1.12	45	.08	<3	1.27	.05	.05	6	5
BD99R-78	6	16	784	117	11.3	12	2	735	2.11	16	<8	<2	<2	7	1.3	11	<3	10	.12	.007	3	33	.10	72	<.01	5	.24	<.01	.05	18	13
RE BD99R-78	6	16	771	116	11.0	13	2	722	2.08	18	<8	<2	2	7	1.3	11	3	10	.12	.007	3	33	.10	71	<.01	4	.24	<.01	.05	18	12
STANDARD C3/AU-R	27	63	39	172	6.0	38	12	780	3.43	57	18	<2	21	32	25.3	16	24	85	.61	.094	19	183	.59	157	.09	20	1.97	.04	.17	16	474
STANDARD G-2	1	3	3	42	<.3	8	4	520	2.01	<2	<8	<2	4	74	<.2	3	<3	41	.66	.096	8	79	.56	218	.12	<3	.93	.08	.47	2	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999

DATE REPORT MAILED:

Aug 6/99

SIGNED BY:

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9902604

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
BD99R-79	5	6	3051	35	17.3	5	2	166	1.67	8150	<8	4	<2	9	1.2	10	<3	3	.05	.007	1	30	.12	40	<.01	3	.21	.02	.07	16	2762
BD99R-80	3	5	623	7	3.9	5	1	109	.90	2292	9	2	<2	4	.2	3	<3	2	.02	.003	1	30	.04	16	<.01	4	.09	.01	.05	19	1624
BD99R-81	5	7	1674	79	15.9	5	1	96	1.15	3736	<8	53	<2	4	1.5	7	<3	1	.01	.003	<1	34	.03	9	<.01	<3	.07	.01	.03	19	3932
RE BD99R-81	4	7	1666	77	11.0	4	1	91	1.14	3709	<8	8	<2	4	1.5	7	<3	1	.01	.003	<1	35	.03	9	<.01	<3	.07	.01	.03	19	3410
NO NUMBER 82	4	8	324	5	2.6	6	2	96	1.51	4504	<8	<2	<2	6	<.2	4	<3	2	.03	.007	2	34	.04	22	<.01	<3	.16	.01	.09	17	1202

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999

DATE REPORT MAILED: Aug 6/99

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9903234

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
BD99R-96	5	14	8518	64	217.1	8	1	53	1.64	253	<8	413	2	17	.5	3	3	3	.02	.023	5	249	.02	105	<.01	7	.35	.03	.25	7	<5	<1
BD99R-97	14	21	2624	62	43.3	7	<1	27	1.52	201	<8	47	<2	4	.4	<3	4	1	.01	.008	1	229	<.01	57	<.01	<3	.11	<.01	.08	<2	<5	<1
BD99R-98	5	12	70	57	3.8	9	<1	57	.96	20	<8	7	<2	5	<.2	<3	4	3	.02	.009	2	245	.02	24	<.01	5	.15	<.01	.07	<2	<5	<1
RE BD99R-98	6	12	76	58	4.7	7	<1	51	.98	23	<8	11	<2	5	<.2	<3	<3	3	.02	.009	2	253	.02	24	<.01	5	.14	<.01	.07	<2	<5	<1
STANDARD C3	26	63	35	163	5.7	37	10	777	3.36	56	16	4	21	29	24.0	16	24	78	.56	.086	18	174	.58	146	.08	17	1.93	.04	.16	20	6	<1

GROUP 10 - 0.50 GM SAMPLE, 3 MLS 2-2-2 AQUA REGIA, 1 HOUR AT 95 DEG. C, DILUTED TO 10 MLS, ICP-ES ANALYSIS. LEACH IS PARTIAL FOR SOME MINERALS.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: *Sept 9/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE



Doyle, Bruce File # 9903234

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	S.Wt gm	NAu mg	-Au opt	DupAu opt	TotAu opt
BD99R-96	292	92.66	11.461	-	20.716
BD99R-97	510	8.39	1.458	-	1.938
BD99R-98	500	<.01	.200	.196	.200

-AU : -100 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -100 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: *Sept 9/99* SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903233
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm
BD99R-83	4	6	17	20	.9	6	4	235	1.37	359	<8	<2	3	6	<.2	<3	<3	2	.11	.019	3	29	.03	20<.01	5	.15	.01	.13	8	<5	<1	1940	
BD99R-84	7	235	1623	8912	31.0	3	3	147	1.25	157	<8	9	<2	9	144.6	<3	<3	2	.15	.009	1	17	.01	24<.01	7	.11	.01	.10	6	<5	<1	4540	
BD99R-85	4	9	37	81	1.4	7	4	123	1.79	4269	<8	3	3	3	1.1	<3	<3	2	.02	.014	4	28	.01	26<.01	4	.16<.01	.15	9	<5	<1	2500		
BD99R-86	4	26	3437	227	11.8	3	<1	39	.64	310	<8	<2	<2	3	3.5	7	<3	1	.01	.003	<1	36	<.01	7<.01	4	.02	.01	.02	9	<5	<1	3500	
BD99R-87	3	5	13	8	<.3	6	1	54	.51	28	<8	<2	<2	2	<.2	<3	<3	1	.01	.002	<1	42	<.01	50<.01	3	.02<.01	.01	10	<5	<1	21		
BD99R-88	3	8	1132	97	17.0	3	1	40	1.20	148	<8	29	<2	6	1.6	<3	<3	2	.01	.008	<1	27	<.01	36<.01	4	.03	.01	.06	11	<5	1	29000	
BD99R-89	<1	10	12	266	.6	309	28	1930	7.62	<2	<8	<2	7	89	1.4	<3	<3	143	2.88	.180	16	656	6.85	18	.16	4	4.67	.01	.03	<2	5	<1	110
BD99R-90	3	28	252	48	2.4	15	5	720	1.70	15	8	<2	21	11	.2	<3	<3	15	.09	.019	10	27	.56	55	.01	6	.90	.03	.13	6	<5	<1	35
BD99R-91	5	27	5	2	.3	7	1	49	1.72	39	<8	<2	<2	2	<.2	<3	<3	2	.01	.008	1	31	.01	27<.01	5	.07	.01	.05	11	<5	<1	2	
BD99R-92	2	18	189	44	1.3	2	1	531	1.00	15	<8	<2	<2	4	.6	<3	<3	2	.03	.006	2	22	.07	31<.01	4	.23<.01	.07	11	<5	<1	2020		
RE BD99R-92	2	18	191	44	1.3	2	1	535	1.03	17	<8	<2	2	4	.6	<3	<3	3	.03	.006	2	22	.07	31<.01	5	.23	.01	.07	12	<5	<1	1980	
BD99R-93	4	18	1910	109	13.0	7	1	250	2.13	141	<8	<2	<2	9	.6	<3	<3	2	.02	.008	3	27	.04	640<.01	4	.20	.01	.08	13	<5	<1	4780	
BD99R-94	2	47	1305	250	16.8	2	1	204	1.13	53	<8	7	<2	8	3.0	<3	<3	2	.02	.008	1	22	.02	103<.01	6	.15<.01	.09	10	<5	<1	3770		
BD99R-95	3	9	27	15	.3	4	2	149	.97	35	<8	<2	8	15	.3	<3	<3	4	.09	.037	12	16	.05	185<.01	8	.43	.01	.23	5	<5	<1	46	
BD99R-99	2	206	60	185	1.4	91	21	1653	6.50	58	<8	<2	4	658	1.4	<3	<3	128	8.72	.141	16	129	1.45	19<.01	4	1.97	.03	.03	<2	<5	<1	11	
BD99R-100	2	6	11	27	<.3	10	9	613	2.33	3	<8	<2	5	115	.2	<3	<3	21	1.04	.060	21	16	.27	97<.01	3	.27	.04	.15	4	<5	<1	8	
STANDARD C3/AU-R	26	66	37	179	6.2	38	13	847	3.39	60	22	<2	22	30	25.3	18	24	82	.60	.090	18	174	.62	150	.09	23	1.93	.04	.17	16	<5	1	503
STANDARD G-2	1	2	4	44	<.3	8	5	573	2.06	<2	<8	<2	4	74	<.2	<3	<3	41	.68	.096	7	77	.62	221	.13	<3	.99	.08	.49	2	<5	<1	<1

GROUP 1D - 0.50 GM SAMPLE, 3 MLS 2-2-2 AQUA REGIA, 1 HOUR AT 95 DEG. C, DILUTED TO 10 MLS, ICP-ES ANALYSIS. LEACH IS PARTIAL FOR SOME MINERALS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* GROUP 3A - 10.00 GM SAMPLE, AQUA-REGIA, MIBK EXTRACT, ANALYSIS BY GF/AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: *Sept 9/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

* Possible gold nuggets in samples.



ASSAY CERTIFICATE



Doyle, Bruce File # 9903586
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au** oz/t
BD99R-102	.021	.123	2.53	.04	2.41	.009	.001	.17	2.22	.02	<.01	<.01	<.001	.007	<.01	.015
BD99R-103	.003	.015	1.34	.29	1.10	.001	<.001	.12	1.77	.01	<.01	<.01	.003	.004	<.01	.002
RE BD99R-103	.003	.015	1.33	.29	1.11	.001	<.001	.13	1.77	.01	<.01	<.01	.003	.005	<.01	.001

GROUP 7 - MULTI ELEMENT ASSAY - 1.000 GM SAMPLE, AQUA - REGIA DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 22 1999 DATE REPORT MAILED: *Sept 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903585

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** oz/t
BD99R-101	4	12	42	473	1.9	14	2	1993	2.86	753	<8	<2	<2	686	15.6	<3	5	18	14.55	.039	4	8	.37	33	<.01	3	.22	.01	.07	2	.006
BD99R-104	6	8	1607	9	58.9	10	<1	62	.79	199	<8	110	<2	6	<.2	<3	<3	1	.08	.004	<1	32	<.01	16	<.01	<3	.01	.01	.04	15	3.455
RE BD99R-104	5	7	1564	9	55.2	9	<1	56	.77	194	<8	96	<2	6	<.2	<3	<3	<1	.07	.004	<1	31	<.01	15	<.01	3	.01	.01	.04	14	3.435

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 22 1999 DATE REPORT MAILED: *Sept 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9902358 Page 1
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppb	ppm	ppm	ppm	%	
L79E 115+00N	7.05	17.78	16.95	77.5	151	16.6	8.2	873	2.81	5.5	2.0	17.0	4.0	23.5	.32	1.01	.32	64	.22	.131	6.9	24.8	.41	161.6	.177	2	3.28	.017	.06	.7	.08	68	.5	.03	10.8	<.01
L79E 114+50N	7.49	15.23	17.09	77.9	296	14.1	7.8	942	2.82	5.0	8.1	21.2	4.3	27.1	.27	.92	.32	60	.24	.107	12.0	22.5	.38	154.5	.175	3	3.20	.018	.06	.6	.09	105	.7	.03	11.2	<.01
L79E 114+00N	2.38	14.48	13.59	89.6	214	13.3	7.7	921	2.76	5.2	1.1	7.7	3.5	18.6	.22	.82	.30	61	.16	.213	6.1	18.4	.32	169.2	.156	3	3.46	.016	.05	.7	.09	103	.4	.03	10.8	<.01
L79E 113+50N	1.80	11.26	19.91	88.5	173	11.0	6.5	675	2.83	8.8	.6	24.6	3.7	14.2	.41	1.94	.35	67	.11	.120	5.2	19.0	.26	107.0	.162	1	2.71	.015	.05	.7	.11	74	.5	.04	10.6	<.01
L79E 113+00N	1.59	14.44	11.89	96.9	177	12.5	6.5	491	2.40	6.3	.9	4.0	3.4	11.1	.26	1.11	.25	54	.08	.138	5.4	18.9	.25	106.6	.172	2	4.04	.016	.04	.6	.08	156	.6	.03	10.4	<.01
L79E 112+50N	6.61	14.05	19.08	61.6	297	13.5	7.2	552	2.63	13.8	7.9	14.7	3.6	30.3	.63	.88	.31	63	.32	.049	9.9	21.7	.36	148.2	.207	2	2.89	.023	.05	.6	.10	49	.5	.04	12.2	.01
L79E 112+00N	1.10	15.81	10.41	82.7	251	15.6	8.1	535	2.48	4.3	.8	5.5	4.0	14.0	.38	.54	.20	57	.11	.184	6.0	24.2	.35	117.0	.143	1	3.50	.016	.05	.7	.08	87	.5	.02	9.2	<.01
L79E 111+50N	.91	15.29	16.60	146.6	452	14.6	7.4	938	2.30	4.5	.8	7.7	3.3	16.6	.87	1.13	.24	54	.17	.150	5.4	19.4	.26	177.3	.176	2	3.52	.017	.05	.7	.14	73	.3	.03	10.1	<.01
L79E 111+00N	.79	12.66	16.16	90.2	471	12.1	6.1	582	2.51	7.3	.5	4.5	2.8	10.0	.25	1.20	.30	57	.10	.163	4.3	20.2	.21	120.5	.172	2	3.27	.015	.05	.6	.09	59	.4	.04	10.7	<.01
L79E 110+50N	.89	13.20	24.32	123.2	446	14.3	7.4	537	2.76	7.4	.7	15.3	3.8	14.3	.34	1.58	.35	67	.11	.182	6.4	29.3	.35	131.3	.161	<1	3.33	.014	.06	.8	.13	100	.6	.06	10.9	.02
L79E 110+00N	1.39	16.42	14.46	50.7	213	13.2	6.8	223	2.41	4.7	2.2	38.0	4.2	16.4	.20	.18	.19	58	.12	.062	9.5	22.6	.33	97.1	.135	1	2.92	.013	.05	.9	.09	76	.5	.03	8.2	<.01
L79E 109+50N	3.36	19.10	17.12	37.7	284	9.3	5.1	138	2.25	5.1	38.2	52.4	2.5	40.9	.24	.33	.25	56	.44	.030	17.6	18.1	.21	113.1	.123	1	2.85	.019	.03	.5	.08	29	1.1	.02	10.4	.02
L79E 109+00N	2.01	12.56	12.35	62.1	135	9.0	6.0	315	2.52	3.8	.8	15.5	2.4	18.5	.29	.28	.27	50	.13	.030	4.2	17.5	.18	170.3	.155	2	2.93	.016	.04	.5	.06	31	.3	.03	10.2	.01
L79E 108+50N	2.18	10.88	13.64	54.1	263	8.2	7.0	169	2.51	4.3	1.6	1.7	2.2	14.1	.30	.64	.30	51	.14	.049	4.1	10.4	.14	120.1	.192	1	3.33	.016	.04	.4	.06	56	.4	.02	11.8	.01
L79E 108+00N	2.20	17.84	17.76	92.8	399	14.7	10.3	334	2.75	7.1	2.9	24.4	3.7	30.6	.29	.64	.95	67	.29	.043	13.0	24.5	.39	160.6	.150	3	2.78	.014	.07	1.8	.12	68	.7	.03	9.3	.03
L79E 107+50N	1.96	13.37	10.44	49.0	148	9.0	4.7	122	2.25	5.9	1.1	4.3	2.9	13.0	.15	.27	.53	59	.09	.041	8.4	27.2	.22	100.2	.151	1	3.50	.015	.04	1.3	.12	86	.6	.02	9.4	.04
L79E 107+00N	3.02	11.19	15.81	59.0	275	8.3	6.3	292	2.31	5.4	.8	31.1	2.1	22.6	.35	.76	.29	49	.25	.083	6.6	21.2	.16	109.7	.143	3	3.43	.018	.04	.9	.09	110	.8	.04	9.3	.03
L79E 106+50N	1.28	14.56	18.57	119.9	637	11.1	9.0	547	2.50	9.4	.5	6.6	2.7	10.0	.43	1.68	.37	59	.11	.241	4.7	21.2	.21	96.3	.157	2	3.23	.015	.05	.9	.09	132	.4	.07	9.1	<.01
RE L79E 106+50N	1.30	14.39	18.78	118.9	650	11.3	9.2	540	2.47	10.1	.5	7.0	2.8	10.4	.42	1.72	.38	58	.10	.238	4.7	24.0	.21	96.6	.159	1	3.29	.016	.05	.9	.09	134	.5	.05	9.5	<.01
L79+50E 114+00N	3.30	21.00	13.15	92.9	271	13.1	7.3	1167	2.51	4.6	3.9	10.0	2.9	25.1	.38	1.01	.29	50	.23	.205	7.4	17.1	.26	176.9	.178	2	3.39	.017	.05	.5	.10	79	.7	.03	12.3	<.01
L82+50E 110+50N	1.55	11.14	12.44	30.3	259	8.6	3.7	101	2.58	2.9	1.9	2.8	3.4	14.0	.14	.32	.27	62	.10	.018	14.9	16.7	.19	105.1	.166	1	3.01	.017	.03	.4	.08	48	1.1	.02	10.7	<.01
L83+00E 110+50N	1.01	13.08	27.26	64.6	331	13.1	5.3	324	2.28	14.4	.8	3.5	3.5	12.3	.96	2.84	.32	54	.10	.225	5.0	26.9	.26	69.5	.151	2	3.33	.016	.04	.5	.08	121	.8	.06	9.1	<.01
L83+50E 110+50N	1.28	19.02	10.90	64.6	501	12.7	6.1	243	2.14	5.1	1.0	1.0	3.3	9.7	.32	.67	.22	52	.08	.124	5.3	23.6	.21	88.2	.192	2	4.62	.017	.04	.5	.08	238	1.1	.04	10.2	<.01
L83+75E 112+00N	1.46	16.25	15.23	80.1	267	16.7	7.7	291	2.81	5.7	.9	3.0	3.2	26.4	.53	.92	.27	73	.23	.074	9.7	36.6	.41	111.9	.176	2	2.49	.016	.05	.6	.09	101	.6	.03	9.7	.01
L84+00E 112+00N	1.28	12.00	15.13	85.4	264	13.8	6.4	350	2.80	5.9	.8	2.2	2.8	11.3	.58	1.28	.30	57	.12	.170	6.9	26.8	.27	101.9	.168	2	3.00	.015	.04	.5	.08	113	.4	.03	10.9	.02
L84+00E 110+50N	.86	12.60	13.57	78.4	119	16.6	6.8	1486	2.46	4.3	.7	2.1	2.7	27.2	.31	.48	.27	61	.25	.151	6.0	25.8	.27	195.4	.159	2	2.81	.014	.05	.5	.12	59	.4	.04	9.9	<.01
L84+50E 114+00N	.87	14.80	9.15	25.5	243	9.5	3.4	71	1.02	6.0	57.0	2.0	1.8	58.2	.25	.23	.19	27	.52	.048	12.0	15.5	.13	60.2	.166	1	3.99	.039	.02	<.2	.06	59	1.1	.02	7.7	.03
L84+50E 113+00N	1.65	17.04	13.42	85.1	416	21.0	7.7	425	2.65	4.3	1.9	2.9	1.9	25.1	.48	.59	.24	63	.23	.079	11.6	35.5	.41	146.6	.143	2	2.38	.014	.05	.4	.07	73	.5	.03	8.9	.02
L84+50E 112+00N	.74	17.26	12.11	76.1	300	29.5	7.8	474	2.51	3.6	3.0	4.4	2.0	37.6	.25	.31	.22	61	.32	.100	19.5	42.9	.59	130.3	.123	1	2.46	.016	.05	.5	.09	50	.2	.04	8.1	.03
L84+50E 110+50N	.90	17.47	17.99	78.2	229	16.4	6.2	357	2.43	8.8	.8	2.1	3.2	10.8	.60	1.78	.28	57	.11	.187	5.1	26.8	.25	114.6	.193	2	4.08	.015	.04	.6	.09	91	.7	.05	10.2	.03
L85E 114+00N	.93	15.64	12.03	94.1	484	20.9	9.1	662	2.59	5.1	1.0	7.0	3.8	17.1	.48	.47	.26	60	.15	.204	7.1	34.8	.44	121.6	.172	2	3.56	.016	.05	.6	.09	109	.6	.04	9.3	<.01
L85E 113+00N	.85	17.68	10.59	59.2	299	13.8	6.3	368	2.00	4.6	1.1	2.3	3.2	9.6	.27	.50	.20	46	.08	.142	5.4	21.2	.22	75.5	.178	1	4.69	.016	.03	.4	.08	150	.7	.04	10.1	.01
L85E 112+00N	.95	19.36	19.84	91.5	253	20.3	7.7	448	2.83	12.5	1.0	11.7	4.9	20.2	.56	2.50	.32	80	.19	.169	9.9	44.3	.41	132.4	.165	2	3.25	.014	.05	.8	.11	108				



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
L85+50E 114+00N	.83	14.55	13.78	95.4	404	15.7	8.7	1364	2.60	5.1	.6	4.2	3.3	15.7	.33	.94	.32	66	.14	.174	6.6	30.8	27	170.2	.144	2	2.79	.014	.04	.5	.13	74	.5	.03	10.2	<.01
L85+50E 113+00N	.92	16.08	11.36	64.7	298	12.7	7.9	480	2.40	4.3	.9	2.1	3.9	10.3	.22	1.13	.28	57	.08	.198	5.3	29.1	.23	86.6	.166	1	4.07	.015	.04	.6	.08	135	.6	.04	10.7	<.01
L85+50E 112+00N	1.07	16.09	14.43	65.3	424	15.8	7.4	258	2.53	4.6	1.0	11.7	4.6	12.4	.29	.44	.35	64	.09	.165	5.9	34.1	.32	107.1	.184	<1	3.96	.015	.05	.8	.11	140	.7	.05	10.3	.01
L85+50E 110+50N	.98	14.53	12.14	69.8	323	12.3	5.4	247	2.19	4.0	.8	1.9	3.2	9.5	.42	.74	.25	47	.08	.090	4.8	19.5	.17	119.0	.157	<1	3.95	.014	.04	.6	.07	180	.7	.03	9.8	<.01
L86E 113+00N	.88	14.97	17.58	71.5	359	17.0	7.7	406	2.58	6.2	.9	2.0	3.7	10.9	.30	1.10	.40	56	.10	.125	5.6	26.5	.27	120.3	.179	1	4.35	.015	.04	.9	.12	144	.6	.02	10.9	<.01
RE L86E 113+00N	.98	14.93	17.79	70.4	365	16.6	7.8	403	2.50	6.1	1.0	3.4	3.7	11.1	.35	1.16	.31	55	.09	.121	5.6	26.6	.26	118.3	.176	2	4.30	.015	.04	.7	.09	152	.7	.03	10.9	<.01
179+50E 114+50N	7.51	21.04	17.76	56.8	314	14.0	7.2	439	2.84	7.4	12.3	110.3	3.2	46.7	.37	.78	.32	60	.49	.113	12.0	23.6	.34	88.7	.145	1	3.41	.016	.05	.4	.07	82	.8	.04	11.0	.01
STANDARD DS2	14.31	129.13	32.35	163.9	264	38.3	12.1	827	3.15	62.3	20.1	208.3	3.6	28.3	11.34	9.83	11.73	82	.56	.081	12.8	170.2	.65	146.1	.114	2	1.85	.038	.17	7.5	2.12	255	2.7	2.04	6.4	.02

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9902602
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	ppm
72-00E I23-00N	1.93	15.25	15.14	109.5	341	17.5	11.6	538	3.11	7.3	.4	2.4	2.3	15.5	.33	1.24	.43	72	10	173	4.9	27.6	.33	133.6	.197	1.2.21	.013	.08	1.7	.09	67	.3	.07	12.3	.02			
72-00E I22-00N	2.98	23.60	20.14	90.7	188	14.6	9.5	381	3.21	12.4	1.1	7.0	3.9	26.5	.27	1.93	.46	63	12	281	9.4	23.8	.34	151.6	.165	1.3.53	.011	.09	1.4	.13	102	.6	.06	14.5	.02			
72-50E I23-00N	2.28	18.65	13.25	117.6	111	24.8	14.4	1124	3.26	5.0	5	2.4	2.4	26.7	.36	1.79	.38	82	16	096	6.5	42.4	.66	230.8	.241	1.2.48	.014	1.5	1.8	.16	30	.2	.07	12.5	.01			
72-50E I22-00N	1.48	22.77	18.68	113.1	131	15.5	6.1	1549	3.01	6.0	1.1	9	3.5	15.0	.47	2.47	.46	65	09	314	6.8	21.6	.19	165.8	.164	1.3.22	.015	.06	.8	.14	68	.5	.04	13.8	.02			
73-00E I24-00N	3.26	35.36	11.12	128.7	293	32.7	21.4	479	3.97	5.9	.8	11.5	2.9	30.5	.29	.88	.29	126	21	166	5.5	59.7	.83	280.0	.310	1.4.19	.019	.36	4.1	.27	54	.5	.12	12.5	.02			
73-00E I23-00N	2.18	23.41	13.17	82.6	751	18.1	13.8	526	2.86	4.8	.6	1.6	2.5	13.4	.23	.90	.33	66	08	093	5.7	31.8	.40	146.8	.222	1.2.64	.015	.09	2.4	.12	46	.3	.07	11.9	.01			
73-00E I22-00N	1.74	15.87	25.86	100.4	189	12.6	6.1	479	2.98	14.9	.4	2.5	2.3	12.0	.54	2.21	.49	65	08	242	5.3	25.7	.28	148.5	.187	1.2.13	.014	.07	1.8	.11	46	.3	.09	12.4	.01			
73-50E I24-00N	1.98	13.17	11.72	89.8	292	16.8	8.4	281	2.78	3.4	.4	312.2	1.9	16.4	.31	.60	.35	60	14	178	5.3	26.9	.36	151.6	.169	<1.97	.014	.08	2.4	.09	31	.3	.06	9.3	.01			
73-50E I23-00N	2.80	15.60	11.28	85.6	166	16.4	11.3	598	2.93	5.0	.3	12.5	1.7	17.4	.26	.97	.22	71	15	137	5.6	32.5	.58	145.0	.190	<1.82	.012	.10	2.1	.09	46	.2	.08	8.2	.01			
73-50E I22-00N	4.97	19.56	18.26	91.8	251	17.0	25.3	1636	3.16	4.1	3.6	9.5	2.0	26.7	.47	.71	.38	64	18	070	12.2	27.6	.50	204.7	.230	<1.2.10	.019	.07	2.7	.16	28	.4	.05	13.1	.03			
74-00E I24-00N	2.07	21.99	15.78	95.7	234	17.3	13.2	414	3.29	5.3	.6	4.0	2.4	30.7	.41	.80	.25	86	28	192	9.3	46.2	.65	262.2	.226	<1.2.20	.019	.18	2.1	.11	43	.4	.06	9.0	.02			
74-00E I23-00N	2.71	19.28	12.36	114.0	354	16.1	10.4	335	3.14	6.2	.6	8.9	2.4	19.8	.32	.92	.21	69	19	227	7.3	31.1	.58	195.9	.188	<1.2.28	.016	.14	2.8	.08	56	.4	.06	8.9	.02			
74-00E I22-00N	3.15	25.75	19.42	85.8	282	16.0	11.8	440	3.26	7.2	7.8	2.3	2.0	38.7	.65	.65	.31	72	33	055	14.4	32.7	.67	214.4	.203	1.2.18	.016	.09	3.0	.08	29	.5	.07	10.2	.04			
74-50E I24-00N	2.89	25.02	33.79	95.6	411	27.4	15.6	648	3.47	28.1	1.3	167.8	2.5	40.4	.72	.97	.19	93	39	086	11.0	48.9	.79	215.3	.234	<1.2.40	.017	.21	3.8	.12	34	.5	.03	9.2	.03			
74-50E I23-00N	2.31	20.13	12.46	117.9	347	23.2	11.6	395	3.02	8.3	2.2	15.9	2.3	26.1	.46	.71	.21	65	27	187	8.7	38.0	.65	200.2	.188	<1.2.45	.016	.12	3.0	.09	39	.4	.07	9.1	.03			
74-50E I22-00N	1.74	17.15	40.71	183.1	123	13.5	8.4	1476	2.83	11.6	1.6	42.3	1.5	32.8	.92	1.07	.40	57	31	208	6.5	23.1	.42	202.5	.149	1.2.08	.015	.06	1.8	.10	41	.3	.07	10.6	.03			
75-00E I24-00N	2.68	26.76	49.39	101.0	241	23.4	11.0	922	2.59	10.5	1.5	6.4	4.3	205.9	1.20	1.57	.35	67	1.26	140	8.5	41.8	.59	202.5	.145	1.3.44	.013	.13	1.5	.11	41	.4	.08	13.3	.02			
75-00E I23-00N	2.52	26.69	10.90	94.6	233	33.5	15.8	372	3.80	8.7	1.3	8.6	1.8	19.4	.29	.98	.16	116	18	115	5.9	65.4	1.05	167.7	.288	<1.2.64	.014	.33	2.4	.24	31	.4	.07	10.7	.02			
75-00E I22-00N	2.75	17.29	15.73	85.9	291	16.1	12.3	301	3.52	5.7	3.0	10.4	2.4	35.1	.20	.56	.31	79	26	278	8.5	34.9	.47	230.0	.206	<1.2.42	.015	.06	3.1	.06	59	.5	.06	12.8	.02			
RE 75-00E I22-00N	2.92	16.48	16.18	86.1	302	12.8	12.3	310	3.54	5.9	3.2	4.5	2.5	35.3	.21	.57	.32	79	27	276	9.0	34.7	.48	232.8	.211	<1.2.49	.016	.06	3.1	.06	57	.4	.06	12.6	.02			
75-50E I24-00N	4.75	51.86	25.99	108.5	485	39.4	20.0	1366	4.22	26.3	12.7	8.2	3.5	71.6	.75	.59	.21	130	64	080	30.3	84.6	1.12	294.4	.322	<1.2.89	.025	.34	2.6	.22	27	.5	.06	11.8	.03			
75-50E I23-00N	2.84	25.75	33.87	117.6	342	21.6	14.5	629	3.72	10.0	1.2	21.5	3.2	24.3	.66	2.08	.38	91	19	208	9.7	52.7	.56	194.2	.274	<1.3.17	.019	.11	2.5	.11	84	.5	.07	13.7	.01			
75-50E I22-00N	1.78	17.05	13.81	113.3	316	13.4	7.9	455	3.13	6.2	.9	3.8	3.2	19.0	.24	1.30	.31	66	14	218	7.8	27.7	.36	127.2	.177	1.3.24	.016	.07	1.6	.08	47	.4	.06	11.9	.02			
L76E 119-00N	2.11	21.02	16.90	44.0	241	12.1	5.1	145	3.27	8.2	1.3	2.6	4.4	10.5	.22	2.74	.33	60	06	120	4.6	22.1	.20	85.9	.223	1.6.36	.017	.06	.8	.08	97	.6	.05	14.8	.02			
L76E 118-00N	2.14	19.93	16.47	81.9	257	14.6	8.1	360	3.20	10.1	.7	136.8	3.6	13.6	.27	1.87	.31	67	10	169	6.0	29.4	.31	128.0	.219	1.4.78	.018	.05	2.0	.08	99	.7	.09	13.9	.02			
L76E 117-00N	2.29	17.85	28.82	90.0	381	12.1	17.2	805	3.35	14.2	.8	4.4	2.0	26.0	.62	1.02	.53	60	16	053	8.2	21.6	.31	182.4	.244	1.1.68	.020	.05	.9	.09	49	.4	.04	16.5	.02			
L76E 116-00N	1.81	23.80	14.88	66.5	120	19.0	7.4	267	3.03	7.6	1.3	3.5	5.3	15.8	.21	1.61	.30	61	09	145	6.7	27.4	.36	98.1	.198	2.4.83	.015	.07	1.6	.10	81	.7	.04	12.3	.04			
L76E I24-00N	2.39	19.02	9.53	69.2	96	21.6	10.8	332	3.22	4.4	.6	28.0	3.3	40.7	.24	.43	.15	98	48	237	15.4	65.0	.65	124.3	.217	<1.1.47	.023	.15	2.0	.08	17	.3	.05	7.6	.01			
L76E I23-00N	3.43	24.12	12.82	64.1	218	25.0	14.7	326	3.58	8.4	3.4	17.4	4.0	33.1	.23	.80	.20	99	25	068	11.3	59.1	.65	145.2	.270	<1.2.58	.020	.11	2.5	.08	34	.4	.05	10.5	.02			
L76E I22-50N	2.85	25.62	15.57	85.6	243	19.2	14.9	570	3.66	5.8	1.8	10.1	4.7	32.6	.22	1.32	.29	80	22	170	16.1	47.0	.66	149.5	.226	1.3.39	.016	.09	2.5	.11	54	.5	.06	12.5	.02			
L76E I22-00N	3.05	21.35	17.05	86.5	245	28.0	14.6	572	3.72	10.0	1.0	8.7	3.2	36.9	.44	.95	.25	96	30	127	11.4	59.4	.79	266.5	.233	1.2.92	.019	.11	2.8	.08	41	.6	.10	11.3	.02			
L76E I21-50N	2.21	23.80	15.66	92.3	442	21.0	12.2	336	3.46	4.9	1.7	27.1	3.8	30.6	.31	1.31	.24	78	24	092	11.8	42.0	.53	171.2	.205	<1.2.96	.016	.08	2.8	.07	53	.5	.06	10.8	.02			
L76E I21-00N	2.29	22.27	13.27	101.2	180	18.0	10.0	318	3.07	15.5	5.0	5.7	4.0	50.5	.35	.91	.26	65	44	337	12.2	36.5	.52	159.7	.183	1.4.08	.016	.10	2.6	.09	78	.7	.08	12.7	.02			
L76E I20-50N	3.25	20.57	13.12	100.2	310	18.7	12.7	891	3.15	50.2	9.7	4.2	1.1	56.4	.84	.66	.23	71	64	132	15.1	34.7	.60	207.0	.166	1.3.23	.021	.09	1.5	.09	43	.3	.06	10.3	.05			
L76E I20-00N	2.54	22.88	14.83	82.8	252	15.4	8.0	254	3.07	7.6	1.2	8.7	4.0	16.9	.31	3.07	.27	66	13	149	8.2	33.5	.35	117.3	.181	1.4.28	.016	.06	2.0	.08	104	.8	.06	11.0	.02			
STANDARD DS2	14.50	129.80	32.35	161.0	282	40.5	14.2	834	3.40	61.3	21.0	194.4	3.7	33.0	11.76	10.98	11.67	78	59	088	13.9	161.1	.55	144.5	.105	2.1.80	.036	.17	7.9	2.05	266	2.7	2.10	6.7	.03			

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED:



GEOCHEMICAL ANALYSIS CERTIFICATE



Doyle, Bruce File # 9903232
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%
109+50N 79+25E	.99	18.38	14.04	90.7	200	15.4	9.1	492	3.06	7.0	1.1	23.4	4.9	20.3	.28	.64	.24	78	.16	143	9.5	38.7	.46	130.1	.133	1	2.62	.010	.07	1.3	.12	66	.6	.06	8.2	.01
109+50N 79+50E	1.10	11.97	11.84	89.7	104	14.4	9.0	220	2.82	5.0	1.3	15.0	4.5	17.8	.61	.52	.22	71	.12	026	9.6	38.3	.37	175.7	.136	1	2.37	.011	.05	.8	.07	38	.5	.03	7.5	<.01
109+50N 79+75E	.93	15.75	14.41	72.5	218	15.0	8.2	400	2.90	5.6	1.2	10.2	4.9	17.6	.21	.52	.22	73	.10	.088	9.3	38.5	.41	100.1	.113	1	2.44	.010	.05	.8	.09	58	.6	.04	7.6	.01
109+50N 80+00E	.80	13.38	26.29	68.3	49	11.6	5.7	445	2.45	18.6	1.1	12.2	4.1	24.8	.45	1.05	.29	60	.18	.146	9.4	28.2	.40	84.9	.067	1	1.88	.009	.05	.6	.08	72	.6	.04	5.6	.01
109+50N 80+25E	1.27	17.09	20.08	85.0	220	15.7	7.0	330	2.89	6.3	1.9	127.5	6.2	19.2	.15	.53	.22	74	.10	.078	12.6	40.1	.47	92.4	.139	1	2.59	.012	.06	.9	.10	54	.6	.05	7.9	<.01
109+50N 80+50E	1.08	15.93	10.45	59.5	197	11.3	7.1	424	2.42	6.0	2.6	45.5	6.2	29.3	.16	.47	.12	59	.21	.098	15.0	24.6	.40	94.5	.102	1	2.38	.012	.04	.9	.06	48	.7	.03	6.6	<.01
109+50N 80+75E	.82	20.03	29.89	112.7	1268	14.9	6.6	472	2.40	6.3	1.2	11.7	4.6	37.8	.28	.82	.31	50	.25	.102	7.8	21.2	.39	177.7	.094	1	3.46	.011	.07	1.0	.10	107	.7	.06	9.6	.01
109+50N 81+00E	6.17	5.08	10.65	75.9	98	8.7	5.8	590	2.64	2.9	7.5	23.4	5.0	33.6	.09	.34	.09	38	.26	.028	13.4	15.6	.55	326.0	.038	1	2.37	.010	.06	.4	.17	27	.6	.02	7.8	.06
109+50N 81+25E	1.20	10.12	19.43	83.5	346	13.4	5.7	252	1.80	7.0	1.1	167.7	4.1	24.6	.36	1.17	.18	38	.16	.047	8.5	21.6	.41	128.4	.108	1	2.52	.012	.04	1.0	.08	58	.5	.03	8.5	.01
109+50N 81+50E	1.50	18.37	19.98	64.0	204	14.3	7.1	399	2.58	14.0	2.6	208.4	6.3	26.9	.23	.70	.42	68	.18	.119	13.0	34.6	.43	94.7	.117	1	3.14	.012	.06	1.2	.11	90	.9	.05	7.2	.01
109+50N 81+75E	1.72	15.10	10.49	53.9	90	14.3	6.2	265	2.57	5.3	3.1	29.2	7.9	26.6	.09	.30	.22	67	.18	.095	14.8	42.9	.43	98.7	.107	<1	2.11	.011	.04	.9	.08	25	.6	.04	6.2	<.01
109+50N 82+00E	1.08	14.30	12.61	83.1	118	29.8	10.1	314	3.27	6.1	1.0	12.3	4.6	25.3	.26	.39	.26	85	.21	.080	9.6	53.8	.63	131.7	.142	1	2.52	.012	.06	.6	.07	62	.5	.04	8.2	<.01
RE 109+50N 82+00E	1.07	14.19	12.22	79.8	116	28.9	9.8	309	3.19	5.8	.9	9.8	4.2	24.9	.23	.37	.22	81	.21	.079	9.8	52.9	.62	128.9	.141	1	2.46	.012	.06	.6	.08	64	.5	.04	8.0	<.01
25+00N 73+00E	2.17	14.09	16.80	77.3	147	18.5	10.1	395	2.73	4.9	.5	14.1	2.8	33.6	.28	.62	.20	81	.34	.190	10.9	56.6	.50	180.5	.179	<1	1.80	.019	.10	3.5	.09	29	.4	.05	6.7	.01
25+00N 73+50E	2.97	16.41	27.52	101.4	162	13.1	8.4	336	2.36	5.4	.6	6.2	2.4	41.7	.35	1.00	.21	65	.30	.131	6.9	34.8	.37	113.1	.156	1	2.44	.016	.09	3.5	.09	55	.4	.06	9.3	.02
25+00N 74+00E	1.91	14.02	11.04	81.5	174	17.3	10.6	451	2.58	5.6	.5	3.5	2.9	23.9	.40	1.68	.21	71	.24	.137	7.6	40.9	.43	129.1	.203	1	2.38	.016	.10	1.9	.08	58	.5	.05	7.4	<.01
25+00N 74+50E	2.52	12.76	9.08	83.3	82	12.3	8.3	366	2.04	3.4	.4	26.9	2.2	24.8	.22	.28	.13	58	.16	.263	6.0	28.5	.44	136.4	.136	<1	1.62	.012	.09	1.6	.08	22	.3	.05	6.0	<.01
25+00N 75+00E	2.22	12.19	8.79	119.9	114	18.4	10.6	311	2.80	3.5	.6	9.2	3.3	25.3	.30	.57	.15	83	.30	.196	10.8	56.3	.63	121.7	.196	1	1.73	.018	.10	1.5	.10	29	.4	.05	7.2	<.01
79E 110+00N	.81	16.10	17.63	59.0	232	12.2	6.9	394	2.76	6.0	.9	167.1	4.3	27.9	.23	.46	.14	65	.24	.100	9.1	28.1	.38	99.1	.093	1	2.07	.010	.04	.7	.06	53	.5	.03	7.3	<.01
STANDARD DS2	13.60	122.14	28.51	156.5	232	34.8	12.2	790	3.01	60.7	20.0	191.5	3.5	30.8	11.50	10.12	10.36	77	.52	.078	12.3	154.1	.54	127.9	.100	3	1.57	.031	.15	7.6	1.84	249	2.5	1.80	5.8	.02

GROUP 1F15 - 15.00 GM SAMPLE, 90 MLS 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: *Sept 9/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903584 Page 1
1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

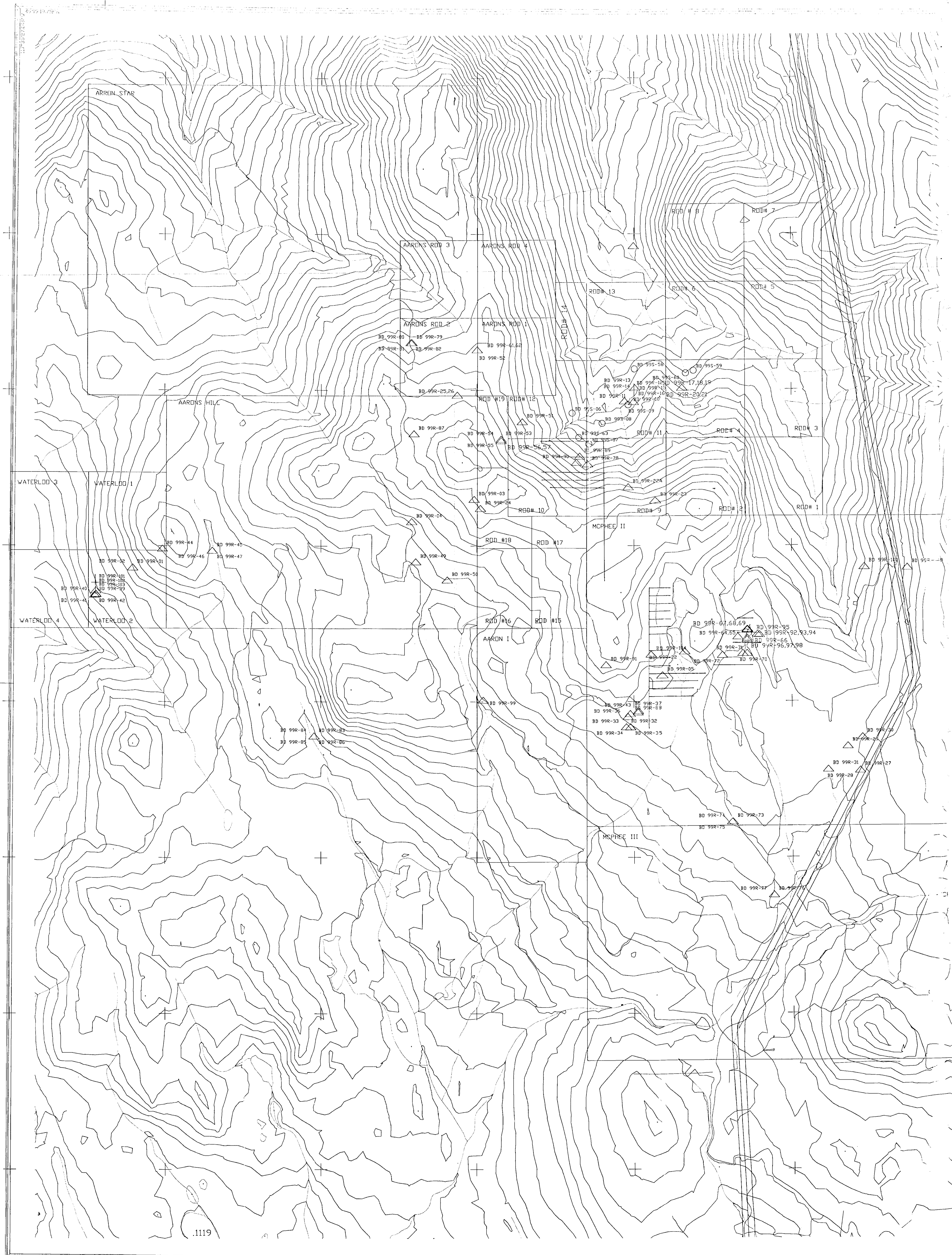


SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
115+50N 79+50E	2.16	15.83	16.21	68.0	170	14.3	7.5	497	2.64	4.1	2.9	2.7	6.9	35.1	.19	.73	.26	60	.23	.083	15.0	21.0	.42	101.2	.120	1	2.74	.011	.06	.6	.08	49	.6	.03	9.0	.01
115+50N 79+75E	2.94	14.59	17.24	76.1	142	15.0	7.6	641	2.70	5.6	1.4	4.2	5.2	28.5	.28	1.13	.29	57	.20	.191	9.1	18.5	.41	128.0	.096	1	2.70	.009	.06	.5	.07	55	.5	.04	8.5	.01
115+50N 80+00E	5.43	16.21	16.20	95.3	161	13.2	7.8	305	2.61	6.0	3.1	7.7	4.4	25.2	.47	.49	.26	59	.19	.056	11.9	19.8	.33	103.3	.136	1	2.90	.012	.05	.6	.07	54	.6	.05	8.6	<.01
115+50N 80+25E	2.63	14.86	12.32	69.8	172	12.1	8.0	313	2.70	4.8	1.1	47.0	4.4	14.4	.19	.51	.27	63	.08	.079	10.3	18.6	.35	109.3	.124	1	2.52	.009	.05	.5	.08	53	.5	.04	8.4	.01
115+00N 79+50E	3.96	15.01	12.47	64.0	205	11.8	6.7	865	2.31	5.8	5.9	1.2	4.2	36.7	.24	.80	.22	50	.26	.160	16.1	17.8	.33	86.8	.095	1	2.50	.010	.04	.4	.07	52	.6	.04	8.7	<.01
115+00N 79+75E	11.31	17.32	18.33	51.4	219	16.8	9.5	575	2.91	5.5	17.1	4.5	3.6	47.6	.25	.40	.25	65	.43	.066	21.1	31.4	.40	86.4	.085	<1	2.61	.013	.03	.6	.07	53	.8	.03	7.7	.02
115+00N 80+00E	3.61	18.61	16.70	68.6	102	13.5	7.4	299	2.43	6.3	1.4	4.1	4.6	22.8	.32	1.15	.29	54	.15	.078	8.8	21.5	.35	113.6	.128	1	2.77	.010	.06	.4	.08	40	.5	.05	8.8	.01
115+00N 80+25E	3.93	17.22	15.62	65.0	135	18.7	8.3	283	2.63	5.6	3.2	3.9	4.6	25.8	.21	.57	.26	63	.21	.069	11.7	25.4	.46	117.4	.120	<1	2.41	.012	.06	.5	.07	46	.5	.04	8.0	<.01
114+50N 79+75E	3.98	19.52	12.63	73.0	126	17.9	9.3	494	2.81	6.5	1.3	13.6	3.6	28.8	.24	.95	.26	60	.22	.171	10.2	23.8	.49	142.7	.135	1	2.70	.011	.07	.4	.08	57	.5	.08	9.9	.01
114+50N 80+00E	10.65	19.50	19.44	69.4	195	16.5	9.2	1162	2.53	6.0	15.4	12.3	3.7	54.0	.48	.52	.27	56	.56	.102	16.5	19.8	.42	100.2	.138	1	2.90	.019	.05	.3	.10	52	.6	.05	9.6	.02
114+50N 80+25E	3.44	20.85	14.46	76.0	48	18.9	9.0	353	2.54	6.0	4.3	43.0	6.9	19.7	.15	.53	.25	59	.11	.130	12.2	29.3	.52	82.5	.130	1	2.83	.011	.08	.6	.11	50	.6	.04	8.0	<.01
114+50N 80+50E	5.99	12.30	12.43	48.7	121	13.1	6.6	173	2.52	3.9	1.1	42.4	3.6	12.3	.16	.45	.24	58	.08	.025	7.6	19.4	.27	123.9	.109	1	2.51	.009	.04	.4	.06	48	.4	.03	8.1	<.01
114+00N 79+50E	3.03	18.79	14.79	66.7	371	16.1	8.6	433	2.95	6.4	9.7	4	7.7	32.7	.18	.52	.31	64	.26	.076	15.8	33.4	.44	115.4	.144	1	2.59	.015	.06	.5	.10	62	.7	.06	9.3	.01
114+00N 79+75E	4.67	19.63	14.28	85.2	336	22.7	11.2	638	2.98	5.0	8.4	110.9	6.6	52.9	.24	.42	.28	71	.39	.068	17.5	38.6	.64	109.9	.151	1	2.39	.016	.06	.6	.09	40	.7	.04	8.7	<.01
114+00N 80+00E	10.67	46.76	17.02	71.9	450	23.7	11.3	1105	2.64	6.2	50.6	5.5	7.5	44.7	.34	.36	.27	64	.43	.054	32.8	34.7	.56	120.8	.141	1	2.82	.021	.06	.5	.12	41	.5	.03	8.6	.01
114+00N 80+25E	14.32	16.51	16.17	52.0	195	12.2	7.5	489	2.62	5.7	19.8	4.5	5.8	38.0	.25	.58	.29	65	.36	.057	17.1	24.7	.31	84.6	.147	1	3.01	.017	.04	.4	.08	48	.9	.04	9.9	.02
RE 114+00N 80+25E	12.89	16.94	16.52	49.6	199	11.6	7.4	482	2.58	5.5	20.0	81.9	5.5	36.4	.25	.57	.28	64	.36	.056	16.8	25.1	.31	84.4	.138	1	3.02	.016	.04	.5	.08	49	.9	.04	10.1	.02
113+50N 79+50E	1.82	21.57	13.00	68.3	205	14.6	10.1	299	2.47	6.3	1.8	32.2	3.9	20.3	.41	.87	.26	61	.18	.093	14.9	34.5	.31	123.1	.153	1	3.00	.014	.06	.8	.08	62	.6	.05	9.4	.01
113+50N 79+75E	2.97	19.26	14.57	64.0	223	12.2	7.5	452	2.61	6.4	4.2	22.2	3.3	27.9	.34	.77	.27	59	.26	.063	14.3	24.5	.29	95.1	.129	1	1.93	.014	.05	.5	.06	92	.5	.05	9.0	.01
113+50N 80+00E	2.48	14.59	14.10	68.5	156	19.1	8.7	413	3.03	5.2	2.9	3.3	5.5	32.7	.24	.58	.24	71	.25	.069	15.2	36.2	.50	96.0	.130	1	2.45	.012	.06	.6	.07	50	.5	.04	8.1	.01
113+50N 80+25E	4.78	17.03	16.25	42.9	109	18.7	9.4	244	3.21	5.7	3.0	26.5	9.1	21.9	.23	.38	.22	80	.12	.024	18.2	39.1	.43	127.4	.152	1	3.44	.014	.04	.6	.07	73	.8	.03	9.3	.01
113+00N 79+50E	2.28	20.36	11.73	58.0	155	15.8	9.8	427	2.79	5.0	4.1	2.7	7.5	33.3	.11	.33	.19	73	.26	.072	20.6	36.3	.50	86.7	.109	1	2.22	.010	.07	.8	.09	38	.5	.03	7.2	<.01
113+00N 79+75E	1.41	21.64	10.66	40.9	105	16.6	9.1	311	2.87	5.5	2.2	7.3	5.4	41.8	.18	.40	.18	89	.45	.179	22.6	65.7	.41	115.5	.105	1	1.72	.014	.08	1.3	.06	34	.5	.05	6.2	<.01
113+00N 80+00E	2.32	17.55	10.56	45.8	134	15.3	9.2	353	2.99	4.9	2.1	2.9	4.7	25.8	.13	.37	.19	82	.23	.046	13.9	42.9	.41	116.2	.106	1	2.16	.011	.05	1.0	.07	40	.6	.03	7.1	.02
112+50N 80+00E	1.14	16.95	15.55	62.7	94	15.1	8.5	645	2.86	6.6	1.0	2.5	4.5	23.6	.27	.69	.21	81	.24	.172	13.4	49.5	.37	114.9	.117	1	1.98	.013	.06	.9	.07	43	.4	.05	6.9	<.01
111+50N 80+00E	.79	16.84	15.14	98.7	320	14.1	8.1	403	2.62	4.4	1.2	8.6	4.9	15.4	.33	.61	.21	69	.10	.118	11.8	37.9	.38	126.5	.135	1	2.53	.012	.05	.8	.08	57	.4	.03	7.9	<.01
111+50N 80+25E	1.38	15.85	26.45	116.8	235	13.7	8.3	369	2.75	6.0	1.2	107.7	4.9	13.6	.38	.86	.30	66	.08	.112	10.4	28.5	.36	106.6	.142	1	2.90	.010	.06	.8	.10	75	.6	.04	9.1	.01
111+00N 80+25E	1.04	18.97	14.13	64.1	102	16.7	9.1	339	2.83	5.0	1.4	90.6	5.6	16.4	.20	.41	.21	79	.11	.086	12.6	44.1	.45	114.3	.136	1	2.26	.012	.06	1.0	.08	29	.4	.05	6.9	<.01
110+50N 80+25E	1.23	13.38	11.56	51.5	72	11.6	6.6	301	2.46	4.2	1.2	6.1	3.8	18.6	.19	.50	.18	59	.11	.025	9.4	22.6	.35	159.8	.088	1	2.17	.010	.03	.4	.06	44	.4	.03	7.4	<.01
109+00N 79+25E	1.38	12.27	10.88	44.6	165	12.3	7.0	231	2.60	6.3	.9	621.8	3.0	21.7	.21	.40	.14	64	.21	.047	8.7	17.6	.35	100.7	.090	1	1.62	.009	.03	.8	.04	41	.3	.03	6.0	.01
109+00N 79+50E	1.26	14.09	14.69	65.6	267	12.2	6.8	225	2.47	5.5	1.1	30.8	3.6	16.8	.34	.84	.21	63	.15	.068	11.2	30.4	.30	102.2	.108	1	2.20	.009	.05	.8	.07	56	.5	.04	7.0	<.01
109+00N 79+75E	1.98	13.64	16.52	56.1	658	10.1	5.2	149	2.51	5.0	7.6	18.0	3.8	24.1	.44	.39	.22	65	.20	.040	18.3	30.5	.26	123.8	.124	1	2.61	.013	.04	.7	.07	59	.6	.03	8.3	.02
109+00N 80+00E	1.11	17.53	12.01	61.9	196	15.0	9.1	324	2.89	5.3	1.6	53.6	5.4	17.3	.20	.44	.21	82	.13	.085	16.2	48.2	.41	81.5	.113	1	2.11	.010	.06	.9	.09	56	.5	.04	7.2	<.01
109+00N 80+25E	.73																																			

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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
109+00N 80+50E	.75	18.29	13.61	57.2	303	18.3	8.4	282	2.71	5.1	1.0	66.0	4.6	21.2	.14	.31	.17	.75	.17	.090	15.9	40.0	.40	136.8	.110	1.2	.18	.011	.07	.8	.08	60	.5	.04	6.9	<.01	
109+00N 80+75E	1.70	27.22	15.69	67.6	170	18.4	9.6	198	2.55	5.2	2.8	26.0	4.2	20.6	.14	.23	.25	.68	.14	.041	19.3	29.1	.43	184.7	.108	1.2	.62	.010	.07	.7	.12	35	.6	.03	8.4	.01	
109+00N 81+00E	12.71	20.12	17.18	56.0	301	21.2	13.0	1764	4.15	26.4	23.7	26.8	3.0	35.3	.7	.95	.91	.23	67	47	.057	25.4	38.9	.55	186.6	.089	1.2	.40	.012	.06	.7	.24	73	1.4	.03	6.9	.07
109+00N 81+25E	47.98	14.07	14.55	64.7	331	17.1	12.2	1674	4.15	10.6	45.2	17.8	1.9	53.7	.95	.53	.21	86	27	125	19.3	38.9	.44	266.7	.059	1.2	.20	.012	.06	.7	.24	73	1.4	.03	6.9	.07	
109+00N 81+50E	.96	17.12	15.74	58.1	258	14.3	7.6	280	2.49	7.0	1.3	28.2	4.5	16.2	.23	.46	.23	.59	.11	.086	11.1	30.7	.32	110.3	.139	1.3	.22	.013	.05	.9	.09	74	.5	.04	8.8	.01	
109+00N 81+75E	1.08	15.01	16.24	55.9	238	14.7	6.9	259	2.54	6.4	3.8	29.2	5.5	22.7	.13	.34	.21	.67	15	.083	21.3	37.7	.42	115.1	.112	1.2	.42	.012	.06	.8	.09	42	.4	.04	7.1	<.01	
108+50N 8W25E	1.05	24.30	17.78	113.6	218	18.1	11.4	338	3.09	184	5	4.9	109.7	4.3	33.4	.58	.28	18	.79	27	.072	19.3	49.9	50	117.2	.110	<1.2	.43	.013	.04	1.0	.08	52	.4	.05	6.6	<.01
108+50N 81+00E	.81	15.22	13.60	81.6	167	20.0	9.2	358	2.89	6.4	4.3	14.0	5.4	32.4	.20	.42	.26	.70	26	.068	19.3	38.6	.51	135.1	.121	1.1	.99	.012	.06	.6	.07	35	.5	.05	7.7	<.01	
108+50N 79+25E	1.42	23.97	16.52	74.2	163	16.7	11.6	421	3.22	11.7	2.2	12.5	4.9	26.2	.48	.77	.23	.90	27	.163	15.9	51.5	.51	129.1	.131	1.2	.67	.010	.07	1.2	.09	74	.7	.05	7.4	.01	
108+50N 79+50E	3.37	18.29	12.75	75.4	290	15.0	7.9	597	2.99	20.4	18.8	8.8	2.1	56.9	.43	.55	.26	.71	.63	.105	20.0	45.5	.41	163.6	.113	1.2	.65	.017	.05	.6	.09	56	.9	.05	8.5	.05	
108+50N 79+75E	.59	13.84	8.52	36.6	110	14.0	7.3	255	2.45	5.0	.8	22.8	4.4	25.8	.17	.21	.12	.72	23	.081	15.7	41.5	.33	106.8	.079	1.1	.48	.012	.04	.9	.06	25	.3	.06	4.4	<.01	
108+50N 80+00E	1.29	24.90	13.13	61.7	236	19.3	11.3	275	3.67	8.7	1.8	171.4	6.1	29.5	.18	.22	.28	111	25	.111	25.6	76.6	.48	127.7	.125	1.1	.95	.014	.07	2.6	.07	31	.7	.05	7.0	<.01	
108+50N 80+25E	.89	18.75	12.65	68.5	87	15.2	9.2	422	2.63	4.4	1.4	26.6	5.0	17.0	.13	.19	.19	.73	.11	.123	13.9	48.1	.39	98.2	.108	1.2	.30	.011	.06	1.0	.09	39	.4	.03	6.5	<.01	
108+50N 80+50E	1.05	15.71	9.98	51.7	100	12.7	7.1	354	2.36	4.7	1.7	8.2	5.8	22.8	.11	.27	.14	.57	.14	.086	15.0	27.6	.39	107.8	.092	<1.2	.26	.010	.05	.7	.07	32	.4	.03	6.6	<.01	
108+50N 80+75E	15.46	17.73	13.17	55.7	315	26.2	8.8	611	3.39	9.6	13.2	599.9	1.6	48.9	.27	.50	.21	.67	.39	.073	15.5	49.3	.69	163.5	.089	<1.1	.95	.013	.05	.4	.10	54	.9	.08	7.1	.03	
108+50N 81+00E	.91	12.55	13.64	64.0	267	11.2	5.4	397	1.97	9.3	1.0	98.1	3.8	53.3	.22	.55	.12	.45	.38	.099	12.3	18.9	.38	113.6	.065	1.2	.61	.010	.04	.6	.06	52	.4	.04	6.7	.01	
108+50N 81+75E	.59	11.97	10.24	50.2	266	12.6	6.4	299	2.28	4.3	1.0	7.5	3.7	24.1	.20	.44	.18	.56	.17	.064	10.8	25.5	.31	139.7	.111	1.2	.94	.012	.05	.6	.07	59	.4	.04	7.7	<.01	
RE 108+50N 81+75E	.58	12.25	9.78	50.6	265	12.1	6.1	297	2.26	4.2	1.0	5.1	3.6	23.8	.19	.48	.18	.54	.17	.064	10.4	25.8	.30	136.5	.108	1.2	.87	.012	.05	.6	.07	57	.5	.03	7.5	<.01	
BL 10+50N 10+00E	1.49	22.95	12.71	142.1	104	15.8	8.8	890	2.17	15.9	6	9.0	2.6	21.9	.58	2.37	.25	.46	.16	.227	6.8	15.2	.36	265.8	.200	2.3	.09	.018	.09	.3	.14	39	.5	.05	8.4	<.01	
BL 10+25N 10+00E	.93	18.69	28.06	187.1	119	21.1	8.0	1438	2.17	34.8	.6	4.9	3.1	29.5	1.39	2.63	.35	.43	.21	.193	7.6	24.4	.31	325.9	.179	3.2	.99	.030	.11	.4	.16	22	.3	.07	8.1	<.01	
L10+00N 9+75E	2.27	10.22	34.20	217.0	71	18.2	4.2	946	1.33	11.4	1.0	4.5	1.7	54.9	1.92	1.36	.35	.20	.98	.050	8.0	7.4	.13	181.3	.063	3.1	.38	.015	.05	<.2	.09	25	.3	.05	3.9	<.01	
L10+00N 10+00E	4.22	27.61	1964.76	1004.1	3494	51.0	8.2	560	2.88	173.7	2.6	50.6	4.5	35.7	2.22	5.15	.35	.62	.60	.123	16.1	25.8	.44	159.0	.164	4.3	.18	.023	.10	2.0	.17	55	.7	.06	8.2	<.01	
L10+00N 10+25E	.85	13.89	30.65	154.3	102	24.2	6.4	871	2.20	27.6	1.5	10.2	3.5	39.7	.82	1.73	.31	.34	1.30	.075	15.4	11.2	.23	208.2	.098	5.2	.13	.017	.08	1.8	.11	25	.4	.03	5.3	<.01	
L10+00N 10+50E	3.99	19.82	66.92	329.0	240	36.2	10.1	1076	4.15	275.8	1.1	49.5	3.2	47.4	1.27	3.94	1.13	.62	.47	.050	11.7	18.4	.35	226.7	.120	4.2	2.7	.018	.12	.8	.17	39	.5	.06	7.0	.02	
BL 9+75N 10+00E	2.44	18.78	69.53	243.6	262	26.3	9.0	1523	2.88	104.5	1.2	1.8	4.2	39.5	1.54	3.40	.77	.57	.34	.096	12.6	20.2	.45	279.8	.181	3.3	.18	.018	.09	.8	.20	47	.5	.06	10.0	.01	
BL 9+50N 10+00E	1.26	20.71	30.93	163.2	85	26.5	13.5	831	3.21	22.1	.5	1.7	3.4	40.9	.77	1.85	.38	.75	.30	.077	9.3	54.1	1.04	338.3	.249	2.3	.05	.019	.13	.3	.20	22	.3	.04	10.2	<.01	
BL 9+25N 10+00E	1.19	15.97	15.92	132.2	176	17.3	7.5	954	2.25	10.9	7	2.6	3.0	45.0	.58	.83	.27	.41	.32	.116	11.2	18.1	.39	297.4	.159	3.2	.37	.019	.12	.2	.15	.37	.4	.02	6.9	<.01	
STANDARD DS2	14.21	127.24	30.86	164.4	258	37.3	13.3	845	3.15	62.4	20.2	199.8	3.6	31.0	11.60	10.26	11.25	83	55	.083	17.8	165.7	.58	137.6	.109	3.1	.71	.035	.16	7.4	1.94	251	2.7	1.81	6.2	.01	

Sample type: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

117°35'



5463000

5462000

5461000

5460000

5459000

5458000

5457000

5456000

117°35'

457000

458000

459000

460000

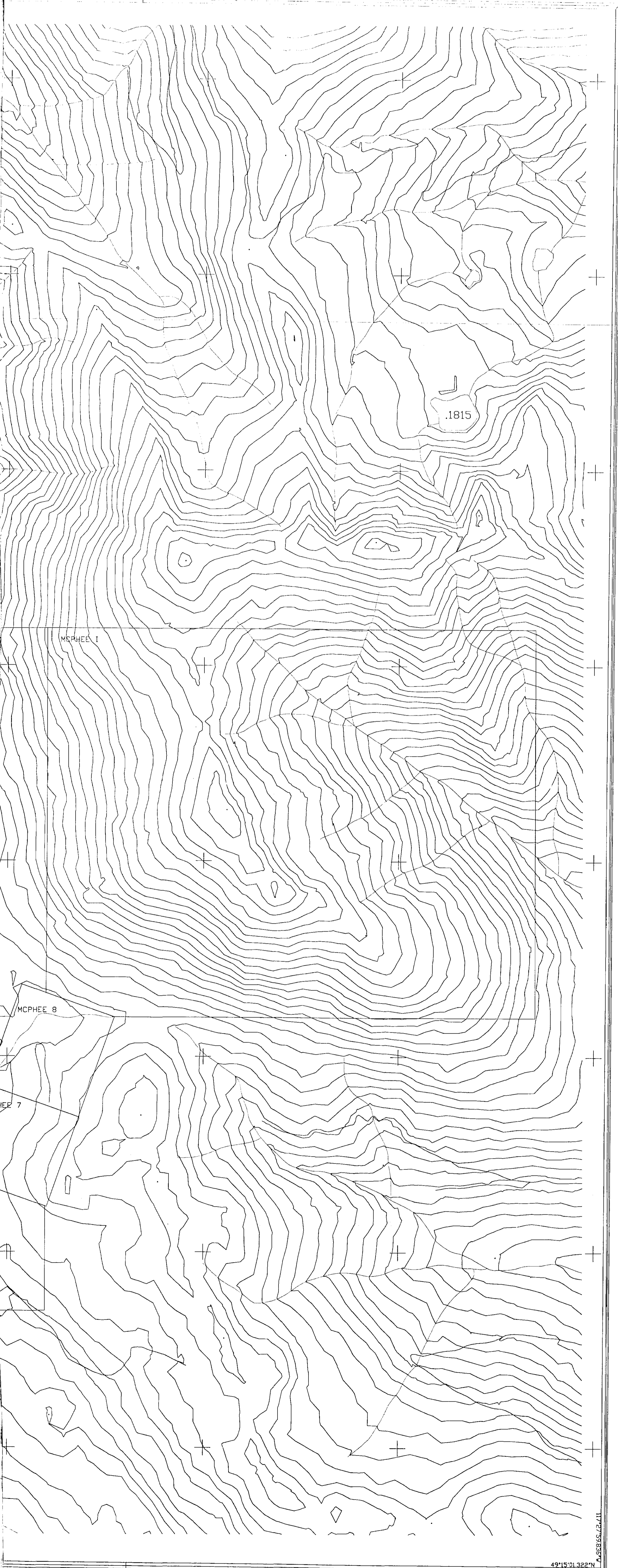
461000

462000

46

463000 464000 465000 466000

30'



5463000

5462000

5461000

5460000

5459000

5458000

5457000

5456000

Rock Geochemistry

Sample Numbers with Corresponding Gold Values in ppb's and/or oz/t

BD 99R-01 .5ppb	BD 99R-50 .15	BD 99R-101 .008oz/t
BD 99R-02 .2	BD 99R-51 .1	BD 99R-102 .015oz/t
BD 99R-03 .3	BD 99R-52 .14	BD 99R-103 .002oz/t
BD 99R-04 .1	BD 99R-53 .10	BD 99R-104 .3.455oz/t
BD 99R-05 .13	BD 99R-54 .12	
BD 99S-06 .7	BD 99R-55 .10	
BD 99S-07 .570	BD 99R-56 .2	
BD 99S-08 .183	BD 99R-57 .2	
BD 99S-09 .9	BD 99S-58 .3	
BD 99R-10 .1	BD 99S-59 .17	
BD 99R-11 .1	BD 99S-60 .5	
BD 99R-12 .5	BD 99R-61 .162oz/t	
BD 99R-13 .4	BD 99R-62 .234oz/t	
BD 99R-14 .1	BD 99R-63 .4	
BD 99R-15 .2	BD 99R-64 .888oz/t	
BD 99R-16 .2	BD 99R-65 .2.89oz/t	
BD 99R-17 .1	BD 99R-66 .078oz/t	
BD 99R-18 .2	BD 99R-67 .013oz/t	
BD 99R-19 .1	BD 99R-68 .008oz/t	
BD 99R-20 .4	BD 99R-69 .004oz/t	
BD 99R-21 .2	BD 99R-70 .003oz/t	
BD 99R-22 .23	BD 99R-71 .002oz/t	
BD 99R-22A .11	BD 99R-72 .010oz/t	
BD 99R-23 <.1	BD 99R-73 .11ppb	
BD 99R-24 420	BD 99R-74 .23	
BD 99R-25 .26	BD 99R-75 .227	
BD 99R-26 .5	BD 99R-76 .3	
BD 99R-27 .12	BD 99R-77 .5	
BD 99R-28 .16	BD 99R-78 .13	
BD 99R-29 .85	BD 99R-79 .2762	
BD 99R-30 .59	BD 99R-80 .1624	
BD 99R-31 .14	BD 99R-81 .3932	
BD 99R-32 .6	BD 99R-82 .1202	
BD 99R-33 .27	BD 99R-83 .1940	
BD 99R-34 <.1	BD 99R-84 .4540	
BD 99R-35 <.1	BD 99R-85 .2500	
BD 99R-36 .10	BD 99R-86 .3500	
BD 99R-37 .13	BD 99R-87 .21	
BD 99R-38	BD 99R-88 .28000	
BD 99R-39 .300	BD 99R-89 .110	
BD 99R-40 .678	BD 99R-90 .35	
BD 99R-41 .44	BD 99R-91 .2	
BD 99R-42 .16	BD 99R-92 .2020	
BD 99R-43 .3	BD 99R-93 .4760	
BD 99R-44 .10	BD 99R-94 .3770	
BD 99R-45 .565	BD 99R-95 .46	
BD 99R-46 .968	BD 99R-96 .20.716oz/t	
BD 99R-47 .100	BD 99R-97 .1.938oz/t	
BD 99R-48 .78	BD 99R-98 .200oz/t	
BD 99R-49 .6	BD 99R-99 .11	
	BD 99R-100 0.8	



GRID LOCATION

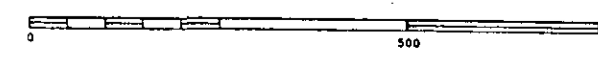
BD 99R-96 SAMPLE ID NUMBERS

N



ROCK, SOIL AND SEDIMENT LOCATION PLAN MCPHEE PROPERTY

GEOLOGICAL SURVEY BRANCH
scale 1:10,000



26,153

DATE: DEC. 1999

NTS 82F 023/033

FIGURE 5

463000 464000 465000 466000

30'

49°15' 01.322" N