BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

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PROGRAM YEAR:1998/99REPORT #:PAP 98-33NAME:ALAN RAVEN

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BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM 1998

AREA: DOMINION CREEK

NTS 93H/6E and 7W

TECHNICAL REPORT (Outline)

Name: Alan Raven

Reference #98/99 P68

LOCATION/COMMODITIES

Project area: Dominion Creek

Location of project area NTS 93H/6&7 Latitude 53° 27' N Longtitude 121° 17' W

Description of location and access: The area is located about 110 kilometres southeast (117°) of Prince

George. It is accessed by logging road to the target area.

Main commodities searched for: gold hosted in quartz and quartz-carbonate veins and replacements in the limestones

Known mineralization in the project area: this is the only known "deposit" in the area

WORK PERFORMED

As outlined in the attached report; prospecting, geological mapping and geochemical surveys a total of 23 pan concentrate samples, 40 soil samples and 30 rock samples (7 not yet analyzed) SIGNIFICANT RESULTS: excellent results as outlined in the attached report.

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM 1998

AREA: DOMINION CREEK

NTS 93H/6E and 7W

ALAN RAVEN Reference number 98/99 P68

DOMINION CREEK EXPLORATION PROGRAM 1998

OBJECTIVES

The objectives of the 1998 program were:

a) To review the previous geological mapping by Noranda to see if it was complete and accurate.

b) To locate and map as many mineralized boulders as possible in an effort to see if clusters or boulder trains could be outlined and hopefully lead to insitu mineralization.

c) To investigate previously unexplained soil geochem anomalies outlined by the Noranda sampling.

d) To do an orientation heavy mineral and silt sampling survey in the area of known mineralization amd extend the sampling to the south.

GEOLOGICAL MAPPING OVERVIEW

Observations:

A field review of the previous mapping carried out by Noranda as filed in their assessment reports indicates that there are significant outcrops along Discovery Creek and Dominion Creek which are not plotted on their maps. Some rock cuts exposed along the drill access roads are not mapped. Also detailed prospecting along the west slope of the Dominion Creek valley located a number of locally derived rubble and sub-outcrop areas which were not mapped by Noranda. Other priorities and limited financing did not allow for time to conduct mapping during 1998

Previous mapping and drilling by Noranda has not clearly indicated if there is a lithological control on the location of the mineralized veins although there is some suggestion that the best veins are developed within a black, fine grained limestone unit. The writer thinks that a property geological mapping program should provide a much better picture of the distribution of this unit and would help in determining how this unit is in controlling the location of mineralization. The importance of the southeast-northwest trending structures has been noted in the past. More complete mapping should help better define the location of these structures and other potentially important cross structures. In addition, mapping will undoubtedly outline further occurrences of quartz vein rubble or outcrops to be sampled.

GEOCHEMISTRY

As the geochemical surveys conducted by Noranda were carried out over 10 years ago using only a flagged grid it was necessary to spend considerable time in relocating the key sample sites. Fortunately after extensive searching in the dense bush enough sample site markers were located to re-establish the location of the anomalous areas (this was done by Brennan and myself on the first trip). However because the Noranda sampling was in part not detailed enough additional sampling was required to reconfirm and better outline the anomalies. The samples collected in 1998 are plotted on fig. \geq . For convienence only gold, lead and zinc are plotted. The complete results are included in the appendix. It should be noted that there is a significant location error in the plotting of the southern part of the Noranda grid appears to be a combination of a compass error in the layout of the southern part of the Noranda base line and the error caused by the use of the photocopy blowup of the 1:50,000 topo map on which they plotted their data.

The 1998 sampling has reconfirmed the Noranda anomalies and better defined the location. In fact the anomaly located on line 8000N 10080E is on the east side of Dominion Creek rather than on the west side as their map would indicate.

BOULDER SURVEY

The boulder survey successfully outlined at least three areas of mineralized quartz concentration, two of which were not previously recognized and the location of a large float 2000 metres upstream and up-ice of the Main Zone. Boulder cluster #4 is a large group of floats 1700 metres upstream of the Main Zone and in the immediate vicinty of both a good soil anomaly and the highest pan con samples found this year.

PROPERTY DESCRIPTION

LOCATION AND ACCESS

The Dominion Creek property is located along Dominion Creek, tributary of Haggen Creek, near Clear Mountain in the Cariboo Mining District of central British Columbia. The central part of the property, the South Zone, is situated at 1,460 m. a.s.l., on UTM coordinates 5923500mN and 615000mE.

The property is situated along the western edge of the Cariboo Mountains in an area where local relief varies from 1,160 to 1,860 m. a.s.l. The terrain across the property slopes moderately to steeply along Dominion Creek between the 1,220 m. and 1,520 elevations, and the slopes are moderate above the 1,520 m. elevation. Most of the property is forested with mature spruce and balsam fir and is covered with a moderate to dense underbrush of dwarf willow, huckleberry and devilsclub.

The property is located on NTS map 93H/6 approximately 43 km.north-northeast of Wells and about 110 km. east-southeast of Prince George. Access from Prince George is by Highway 16 East to the Bowron Forest Road then southerly to km. 85 then on the Narrow Forest Road to km. 104 then easterly on the Haggen Forest Road to km. 22 then southeasterly on the old Rustad road to the last cut block and then by the old Noranda access road to the property. The final 13 km is not gravelled and a 4-wheel drive vehicle may be required to access the property.

CLAIM STATISTICS:

The claims consist of modifed grid and two post claims as described below (total 59 units):

CLAIM NAME	RECORD #	UNITS	EXPIRY DATE
AK I	205239	10 (mod. grid)	Aug. 8, 2003
AK. II	205240	15 (mod. grid)	Aug. 8, 2003
AK. III	205241	1 (mod. grid)	Aug. 8, 2003
AK IV	205242	3 (mod. grid)	Aug. 8, 2003
AK 7	353532	1 (2 post)	Feb. 4, 1999
AK 9	353533	1 (2 post)	Feb. 4, 1999
AK 10	353534	1 (2 post)	Feb. 4, 1999
AK 11	353535	1 (2 post)	Feb. 4, 1999
AK. 12	353536	1 (2 post)	Feb. 4, 1999
AK. 13	353539	1 (2 post)	Feb. 4, 1999
AK 14	353537	1 (2 post)	Feb. 4, 1999
DOM 4	354277	20 (mod. grid)	Feb. 20, 1999
DM 18	354283	1 (2 post)	Mar. 13, 1999
DM 19	354284	1 (2 post)	Mar. 13, 1999
DM 20	354284	1 (2 post)	Mar. 13, 1999

PREVIOUS WORK

1986 - claims staked by N. Kencayd

1986 - claims optioned by Noranda - geological mapping, soil geochem

1987 - Noranda - soil and stream goechem, geological mapping, diamond drilling, trenching.

1988 - Noranda - diamond drilling

1989 - Noranda returned the property to the prospector (Kencayd)

1989 - Raven purchased the property from the prospector

1989 - Raven - exposed the South Zone and stock piles ore grade material

1990 - Raven/Aquila Resources J.V. - begin clearing and stockpiling ore for bulk sample

1991 - Raven - property is idle

1992 - Raven/Aquila J.V. - complete mining and milling of bulk sample

1993 to 1998 - Raven - property was idle

1998 - Raven - prospecting, geological mapping and geochem survey of streams

REGIONAL GEOLOGY

The property lies in the Cariboo Mountians of the Omineca belt. The regional geology is comprised of Upper Proterozoic to Cambrian continental margin sediments including quartzite, sandstone, siltstone, shale and limetone. The area has been mapped at a scale of 1 inch to four kilometres (Map 1356A) and studied in Paper 72-35. Struik (1986) considers these rocks part of the Cariboo subterrane which is part of the displaced continental margin sediments.

These rocks have been grouped with the Upper Proterozoic Windermere tectonic assembage, consisting of mainly continental margin sediments of the Lower Gog tectonic assemblage, which consists of rifted and passive continental margin sediments. On the property only rocks of the Isaac and Cunningham Formation (Windermere assemblage) are exposed.

The area has been deformed into a series of northwest plunging major fold structures. The northwest trending Isaac Lake Fault which roughly cuts through the centre of the property separates the Isaac Lake Synclinorium to the east and the Lanezi Arch or Anticlinorium to the west. This deformational episode appears to have resulted in folding of the deeper, older formations whereas younger, high level formations display more fault dominated structures. This is probably a function of the physical characteristics (less competent shales at depth) of the rocks and the higher temperatures at depth. The rocks display low-grade metamorphic effects.

PROPERTY GEOLOGY:

The property is underlain by the rocks of the Isaac and Cunningham Formations. The Isaac Formation consists predominantly of dark grey to black, fine grained, finely laminated, fissile, phyllitic to slatey argillite. It is variably graphitic, calcareous and pyritic. Pyrite forms medium to coarse grained cubes with shadows of quartz or calcite. Lesser amounts of grey siltstone and quartzite are interbedded with the argillite. Grey to black micritic limestone also forms a major component of the Isaac Formation, especially near the upper gradational contact with the Cunningham Formation. This limestone may be finely interbedded with the argillite or form individual beds up to 25 - 30 metres thick increasing in proportion of limestone upwards towards the Cunningham Formation. The overlying Cunningham Formation consists of massive to faintly laminated, micritic to finely crystalline, medium grey limestone with minor interbeds of graphitic argillite.

In general the bedding attitudes are consistently northwest to west-northwest and moderate to steeply dipping southwestward. A southeast plunging anticlinal axis was mapped on Dominion Creek near the east edge of the property. In the vicinity of the AK claims LCP, bedding trends have shifted to a east-west orientation.

A major northwest trending fault cuts through the centre of the property and is evidenced by topographic lineaments and abrupt lithological contacts. This structure is thought to be the extension of the Isaac Lake Fault and strikes at about 145 degrees. Several smaller faults trending at about 155 degrees have been mapped and are believed to be splayes of the Issac Lake Fault.

Two prominent jointing sets were measured. The first cut is generally parallel to foliation, which is usually parallel to bedding. The second set is generally perpendicular to the foliation and dips steeply to the east. These fractures are generally filled with a network of thin quartz and/or calcite veinlets.

BOULDER SURVEY

Observations:

One of the notable geological features of the Dominion Creek area is the amount of quartz and quartz-carbonate vein material, both in outcrop and boulders. This is especially noticeable along Dominion Creek. Obviously not all of these veins are mineralized although many of them have a misleading rusty surface colouration. At first it seems like an overwhelming sampling problem to determine which veins carry gold. In an effort to prioritize the sampling of the quartz vein material, the detail features of the gold bearing quartz were noted. Assay results from the drilling and trench samples were correlated with the remaining core, trench outcrops, pit area exposures and assays from the first trip of this year.

The following observations were made:

a) The presence of visible base metal sulphides and/or pyriteis almost a sure fire positive indicator for the presence of gold. Even minor amounts of these sulphides can indicate high gold values.
b) The lack of visible sulphides is not necessarily negative, since some white sulphide free veins cut by drilling carried high gold values. It seems that this favourable quartz has a "sparkly" fine crystalline nature to it as opposed to the more massive barren bull quartz and the quartz-iron carbonate veins that are also abundant. Once one has developed the "eye" for this "sparkly" type of quartz then picking out the gold bearing quartz is much easier. As well, the sulphide distribution within the mineralized veins can be quite patchy with the sulphides restricted to one side of the vein in stringers or patches. Sometimes it is necessary to break and study vein outcrops or boulders very thoroughly before one can detect sulphides as they can be highly weathered or look very similiar to the patches of graphitic schist caught up in many of the veins. In this regard a large hammer and a good backswing is recommended.

Some ten days (20 man/days) were spent in detail examination and tracing of the quartz boulders along the creek valleys. The extremely low water levels in Dominion Creek allowed the examination of boulders that would normally be under water. Detail prospecting along the slopes of Dominion Creek in the areas of the unexplained soil geochem anomalies was also done.

RESULTS OF THE BOULDER SURVEY

QUARTZ

In Dominion Creek the quartz material is in much greater abundance than is normal for the region, especially quartz containing sulfides. After a few days of working in the creek and Main Zone area we decided that there are three types of quartz vein material on the property. The three "types" are :

- Type 1 which is quartz-carbonate vein material formed as "sweats" in the dilation zones of the structurally deformed sediments.
- Type 2 which is quartz vein material without any appreciable carbonates nor readily visible sulphides. I have called this "sparkly" quartz to help differentiate it from the type 1 quartz.
- Type 3 which is "sparkly" quartz with obvious sulphide content. These sulphides may be galena, sphalerite, chalcopyrite or iron pyrite which may occur in any combination. (Type 2 and type 3 quartz may be different zones of the same veins or an overprint of two different mineralizing events)

Type 1 quartz contains "no" gold (usually <10 ppb) and only background values in base metals 10 ppb Au, <0.01% Pb, <0.01% Zn e.g. Rock sample #DCR 98-3 Type 2 quartz contains good gold values with very lttle if any base metal values e.g. Sample #17918 from DDH-21 78.79 g/t Au, <0.01% Pb, <0.01% Zn 11.12 g/t Au, <0.01% Pb, <0.01% Zn Rock sample from the 155 vein Type 3 quartz contains both high gold and base metal values 49.3 g/t Au, 3.75% Pb, 3.88% Zn e.g. Sample #17798 from DDH-13 Sample #17830 from DDH-16 67.5 g/t Au, 1.00% Pb, 5.80% Zn Sample #18270 from DDH-23 11.11 g/t Au, 9.10% Pb, 2.80% Zn Note:all examples are from Noranda data except #DCR 98-3.

In order to ascertain the extent of the quartz vein material with "ore" grade gold values I would recommend an extensive sampling of quartz floats be carried out in the following areas of the property:

- ⇒ on the east facing slope (west side of Dominion Creek) between the Main Zone and the confluence of the East and West forks of Dominion Creek
- \Rightarrow in Dominion Creek itself as far upstream as is practical
- ⇒ in all the tributaries of Dominion Creek, especially those draining from the west. The east side only needs to be surveyed up to the Issac/Cunningham contact

It is very important, during this survey, to accurately locate and plot the sample locations and to provide a detailed field description of the samples. There must also be a duplicate of each sample kept for correlating with positive results and in case a more detailed study of the sample specimen is required.

The point I am making here is that this property is a gold rich quartz anomaly with an excellent probability of having more zones of high grade gold and that there are many quartz floats that may contain ore grade gold values but cannot be visually identified.

Type 3 Quartz

I had determined that it would be very useful to locate and plot as many type 3 quartz boulders as possible to help me ascertain if there were any concentrations of these readily identifiable quartz floats. A very careful and detailed boulder survey was carried out this season during the low water levels of this extremely dry summer. During our many trips up and down Dominion Creek doing our pan con and prospecting traverses we noted and flagged any type 3 boulders we found (first trip). During the boulder survey we prospected for additional type 3 quartz and plotted the previously flagged floats. We also attempted to locate as many type 2 quartz boulders as possible but there was just too many of these boulders in the area so it was decided that a detailed survey would be the only fair and practical way to map these floats. <u>Only</u> type 3 quartz floats, with obvious sulfides were plotted and sampled (not yet analyzed) but there are many type 1 and type 2 quartz boulders in the Dominion Creek drainage. The plotted type 3 quartz range in size from "chunks" of 25 cm. in "diameter" to boulders of about 1.5x1.0x1.0 metres with the majority of the plotted pieces about 0.8x0.5x0.5 metres

There were four clusters of the type 3 quartz located. I have described these boulder clusters (BC) starting at the junction of Discovery Creek and working southward (upstream and up-ice) as:

- BC 1 downslope from the Main Zone there is a number of boulders spread over about 150 metres which are probably from the Main Zone but some of the upstream ones may be from the 9600N anomaly.
- BC 2 directly downslope from the 9600N soil anomaly
- BC 3 a small group downstream and downslope from the 8800N soil anomaly; this cluster is about 900 metres upstream from the Main Zone.
- BC 4 this is a large group of boulders immediately downstream of the 8000N soil anomaly and the pan con anomaly in 8000N Creek; this cluster is about 1700 metres upstream of the Main Zone.

The farthest upstream/up-ice location of a type 3 boulder (1.5x0.8x0.5 metres) is about 2000 metres southerly from the Main Zone and is located in the Dominion Creek drainage, well above any known showing or anomaly. A type 3 boulder (1.5x1.25x1.0 metres) was located east of the LCP for AK I-IV and outside of the present Dominion Creek drainage; there was also another piece (1.0x0.75x0.5 metres) located just above 9600N 10500E on the Norex grid (inside the 9600N anomaly); two boulder trains were located at about 9450N 10400E (Norex grid) which is in the soil anomaly that stretches southerly from 9650N 10400E for 400 metres.

The results of the boulder survey have confirmed the presence of additional gold bearing zones outside the known showings even those these new areas have not been located to date.

PANNED CONCENTRATE SAMPLING

There were a total of 23 pan cons collected from the Dominion Creek drainage system. The area covered was trom the confluence of Dominion Creek and Discovery (Camp) Creek to about 1.5 kilometres up the East fork of Dominion Creek; about 1.5 kilometres up the West fork of Dominion Creek and on the east side of Dominion Creek well above the Isaac/Cunningham contact. The samples were taken as close to bedrock as possible and in the active part of the drainages. The samples were processed in the fild y sieving with a Barakso sieve/pan set which produced approximately a 1 kilo sample that was taken to camp and panned down to about 50 to 100 grams. This concentrate was submitted to Chemex Labs for 32 element ICP and gold geochem (results in appendix)

I have included a few of the samples for discussion;

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
DCPC 98-17 (Discovery Creek)	170	0.8	57	384	154	74
DCPC 98-13 (8000N Creek)	265	0.2	75	40	118	104
DCPC 98-14 (8000N Creek)	1370	2.4	86	60	124	116
DCPC 98-23 (8400N Creek)	10	<0.2	74	44	112	94

The numbers have indicated to me that one should be cautious when interpreting results and look at all the "numbers " and not just the gold values. In the case of # 98-17 on Discovery Creek which is directly below the Main (South) Zone showing, the gold values are quite low for a pan con but the gold values are strongly supported by the base metal and the arsenic values. In this example there is a large zone of very high grade gold mineralization almost immediately above and upstream from the sample site. The sample 98-23 on 8400N Creek has low gold numbers but good support in base metal and arsenic values suggesting that this is also a target area. The samples 98-13 and 98-14 on 8000N Creek have good to excellent gold values with strong base metal and arsenic values indicating a possible source nearby. Arsenic constitutes a very minor part of the mineralization but is a good pathfinder on this property.

The results of the pan con survey have indicated that the gold mineralization is much more widely spread than just the area drilled by Noranda.

A pan con survey carried on earlier in the season while the water is still flowing in the intermittant streams would be very useful in better defining the gold mineralization.

SOIL SURVEY

The main purpose of the soil survey was to confirm the Noranda anomalies, to determine if there was a good way to "detail" survey the anomaly areas and to examine the soil profile on the steeper slopes.

I concentrated on three Noranda lines 9600N, 9625N and 9650N which are between the ends of the drill roads and Dominion Creek as well as the anomaly at 8000N. We endeavored to resample the exact Noranda location so it was slow going at times to relocate the flagged sites. In most cases the old flagging was in the debris immediately under the station. Brennan became very effective at ferretting around in the ground cover to locate the old flagging. Our samples were taken with a shovel so that a soil profile could be examined at each site. By closely observing the soil development, soil creep and the enclosed "layering" of rock fragments, I came to the conclusion that:

- the steep slope created a soil environment that lead to "layers" of soil and rock fragment concentrations.

- depending on which "soil" layer was sampled and of what the rock fragment layer consisted, would determine in a large part the values obtained regardless of the bedrock mineralization.

- in some cases the "barren" rock fragment layers from upslope mask the bedrock response.

The results of the soil sampling program were positive in; confirming the Noranda anomalies in the 9600N and the 8000N areas are real, determining a sampling technique that would more decisively outline the anomalies and increasing my understanding of the particular mechanics of the soil dispersion on the steep slopes.

I would recommend that a detail soil grid, 25 by 25 metre, be established in the high priority areas. The samples should be taken with a shovel as near bedrock as possible to mitigate the effects of "barren" soil and rock fragment layers. I realize this would be labour intensive but would be well worth the effort. This sampling technique, shovelling of deep sample pits, should be used on all the steep slopes of the property.

CLAIM MAP



APPENDIX I ANALYTICAL RESULTS .



Analytical Chemists * Geochemists * Registered Assayers

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

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BOX 2937 PRINCE GEORGE, BC V2N 4T7 P. Jumber :1-A Total Pages :1 Certificate Date: 18-AUG-98 Invoice No. :19827699 P.O. Number : Account :LVI

Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	PR	ep De	Au ppb FA+AA	Ag mag	A1 %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co mqq	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
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 CERTIFICATION:_

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Analytical Chemists * Geochemists * Registered Assayers

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DCPC 98.06 DCPC 98.08 DCPC 98.09 DCPC 98.10 DCPC 98.11	235 220 235 220 235 220 235 220 235 220 235 220	<pre> < 1 < 1 </pre>	0.02 0.03 0.04 0.04 0.05	38 31 57 116 48	210 260 290 260 330	18 14 36 62 30	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	1 1 3 2 4	643 < 33 256 < 262 < 44 <	0.01 0.01 0.01 0.01 0.01	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	10 13 9 11 6	< 10 < 10 < 10 < 10 < 10 < 10	62 54 84 78 102	
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DCPC 98.22 DCPC 98.23	235 220	2) < 1 < 1	0.04	81 110	340 320	34 44	42	33	152 < 117 <	: 0.01 : 0.01	< 10 < 10	< 10 < 10	85	< 10 < 10	98 112	
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BOX 2937 PRINCE GEORGE, BC V2N 4T7 .\

Page mber :1-A Total Pages :1 Certificate Date: 19-AUG-98 Invoice No. :19827700 P.O. Number : Account :LVI

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CERTIFICATION:

Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	P C	rep Ode	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	A1 % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Coppm (ICP)	Cr ppm (ICP)	Cuppm (ICP)	Fe % (ICP)
DCPC 98.01 DCPC 98.02 DCPC 98.03 DCPC 98.20 DCPC 98.21	299 299 299 299 299 299	285 285 285 285 285 285	54 53 37 108 104	3.8 3.2 2.4 2.2 3.0	< 10 < 10 < 10 20 < 10	< 0.2 < 0.2 0.2 2.4 < 0.2	5.36 5.68 5.91 5.47 6.50	330 340 360 330 420	2.0 1.5 2.0 1.5 2.0	<pre>x < x <</pre>	2.00 2.68 2.14 2.13 0.75	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	71 61 49 79 64	100 92 92 77 88	67 57 51 74 65	11.75 10.70 8.15 16.45 11.65
DCPC 98.22 DCPC 98.23	299 299	285	53 94	3.2 7.4	10 < 10	0.2	7.31 5.97	410 360	2.0 2.0	< 2 < 2	2.60 1.56	< 0.5 < 0.5	48 70	91 80	50 66	9.57 13.20
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BOX 2937 PRINCE GEORGE, BC V2N 4T7

mber :1-B Pad Total Pages 1 Certificate Date: 19-AUG-98 :19827700 Invoice No. P.O. Number : Account :LVI

Project : Comments: ATTN: ALAN RAVEN

CERTIFICATE OF ANALYSIS A9827700 PREP R % Mg % Mn ppm Mo ppm Na % Ni ppm P ppm Pb ppm Ti % V ppm W ppm Zn ppm Sr ppm SAMPLE CODE (ICP) **ĀĀŠ** (ICP) DCPC 98.01 299 285 98 1.85 177 54 < 10 0.52 385 < 1 0.50 119 400 76 0.34 DCPC 98.02 299 285 54 < 10 102 1.99 0.56 370 < 1 0.53 103 360 62 204 0.17 DCPC 98.03 299 285 20 2.04 0.56 365 < 1 0.57 89 380 48 176 0.33 59 90 DCPC 98.20 299 285 1.96 345 215 0.17 54 < 10 100 0.39 < 1 0.28 161 480 68 299 285 DCPC 98.21 2.30 0.39 390 118 510 144 0.17 71 < 10 96 0.50 56 < 1 DCPC 98.22 299 285 2.51 410 100 430 50 244 0.17 66 < 10 96 0.55 < 1 0.49 DCPC 98.23 299 285 2.09 2 138 175 0.17 57 < 10 104 0.46 490 0.47 410 66 ş

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BOX 2937 PRINCE GEORGE, BC V2N 4T7 Page .mber :1-A Total rages :1 Certificate Date: 21-AUG-98 Invoice No. :19827702 P.O. Number : Account :LVI

Project : Comments: ATTN: ALAN RAVEN

SAMPLE PREP DORR 07 Au ppb As FA GCOMB Cu ED Zu Ag All Supple As Dorn Dorn Supple Ba Ba Ba Ba Bi Ca Cd Co Ct Fu											CE	RTIF	CATE	OF A	NALY	SIS	F	9827	702		
Def A7 100 200 200 200 200 420<	CB MDT.P	PREP	Au ppb FA+AA	Au FA g/t	Cu %	Pb %	Zn %	Ag mqq	A1 %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cđ ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %
Def 13 Def 13 Def 13 Def 14 Def 14 Def 15 Def 15 Def 16 S S Def 16 S S Def 16 S S Def 16 S S Def 15 Def 15 Def 15 Def 15 Def 16 S S Def 16 S S Def 16 S S Def 16 S S Def 15 Def 15 Def 16 S S Def 16 S Def 16 S S Def 16 S Def 16 S Def 16 S Def 16 S Def 10 Def 10 <thd< td=""><td>DCR 07 DCR 09 DCR 10 DCR 11 DCR 11</td><td>208 22 208 22 208 22 208 22 208 22</td><td>6 580 6 845 6 1310 6 45 6 >10000</td><td>9.09</td><td>0.02 0.55 0.30 0.01 0.11</td><td>2.76 4.45 1.44 0.01 0.05</td><td>8.92 4.54 1.03 0.14 3.19</td><td>38 57 19 < 1 6</td><td>0.02 0.20 0.17 0.01 0.16</td><td>20 30 < 10 < 10 10</td><td>< 20 20 20 < 20 < 20 < 20</td><td>< 5 < 5 < 5 < 5 < 5 < 5 < 5</td><td>< 10 < 10 < 10 < 10 < 10 < 10</td><td>0.06 0.54 0.17 0.06 0.77</td><td>595 475 115 5 315</td><td>20 15 5 < 5 5</td><td>190 120 240 160 210</td><td>155 5860 3070 30 1105</td><td>1.57 1.79 1.21 0.27 2.33</td><td>30 10 10 10 20</td><td>0.01 0.09 0.08 0.01 0.07</td></thd<>	DCR 07 DCR 09 DCR 10 DCR 11 DCR 11	208 22 208 22 208 22 208 22 208 22	6 580 6 845 6 1310 6 45 6 >10000	9.09	0.02 0.55 0.30 0.01 0.11	2.76 4.45 1.44 0.01 0.05	8.92 4.54 1.03 0.14 3.19	38 57 19 < 1 6	0.02 0.20 0.17 0.01 0.16	20 30 < 10 < 10 10	< 20 20 20 < 20 < 20 < 20	< 5 < 5 < 5 < 5 < 5 < 5 < 5	< 10 < 10 < 10 < 10 < 10 < 10	0.06 0.54 0.17 0.06 0.77	595 475 115 5 315	20 15 5 < 5 5	190 120 240 160 210	155 5860 3070 30 1105	1.57 1.79 1.21 0.27 2.33	30 10 10 10 20	0.01 0.09 0.08 0.01 0.07
	DCR 12 DCR 13 DCR 14 DCR 15 DCR 20	208 22 208 22 208 22 208 22 208 22	6 2900 6 45 6 < 5 6 790		0.02 < 0.01 < 0.01 < 0.01	0.24 < 0.01 < 0.01 0.14	1.29 0.06 0.03 0.07	4 < 1 < 1 2	0.06 0.03 0.03 0.08	< 10 < 10 < 10 < 10 < 10	< 20 < 20 < 20 < 20 < 20	< 5 < 5 < 5 < 5	< 10 < 10 < 10 < 10 < 10	0.06 0.16 0.05 1.33	85 < 5 < 5 5	5 < 5 < 5 < 5	160 220 130 200	215 30 15 35	1.37 0.75 0.40 0.48	10 10 10 10	0.03 0.01 0.02 0.04
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To: RAVEN, ALAN

BOX 2937 PRINCE GEORGE, BC V2N 4T7

mber :1-B Pag Total rages :1 Certificate Date: 21-AUG-98 Invoice No. :19827702 P.O. Number : Account :LVI

Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	PREI	P	Mg %	 Mn mqq	Mo maga	Na %	Ni ppm	P Ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V mqq	M M	Zn ppm			
DCR 07 DCR 09 DCR 10 DCR 11 DCR 11 DCR 12	208 208 208 208 208 208	226 226 226 226 226 226	0.01 0.04 < 0.01 < 0.01 0.03	30 40 40 10 330	<pre></pre>	0.02 0.03 0.03 0.03 0.03 0.03	30 20 10 < 5 10	< 100 700 600 < 100 < 100	27900 46800 14490 175 495	20 90 40 < 10 90	< 5 < 5 < 5 < 5 < 5	5 < (40 < (15 < (< 5 < (5 < (0.01 0.01 0.01 0.01 0.01	20 20 20 20 20 20	< 20 < 20 < 20 < 20 < 20 < 20	< 20 < 20 < 20 < 20 < 20 < 20	< 20 < 20 20 < 20 < 20 < 20	>50000 47200 10290 1140 31500			
DCR 13 DCR 14 DCR 15 DCR 20	208 208 208 208	226 226 226 226	0.01 < 0.01 < 0.01 < 0.03	180 80 60 50	< 5 < 5 < 5 5	0.03 0.03 0.03 0.03	10 5 < 5 5	< 100 < 100 < 100 < 100	2460 70 45 1515	50 < 10 < 10 10	< < < <	< 5 < 5 < < 5 < 75 <	0.01 0.01 0.01 0.01	< 20 < 20 < 20 < 20	< 20 < 20 < 20 < 20	< 20 < 20 < 20	< 20 < 20 < 20	505 225 595			
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To: RAVEN, ALAN

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BOX 2937 PRINCE GEORGE, BC V2N 4T7

_mber :1-A Page Total Pages 11 Certificate Date: 18-AUG-98 Invoice No. 19827701 P.O. Number 1 Account LVI

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Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	PREP	Au ppb FA+AA	Ag ppm	A1 %	As ppm	Ba. ppm	Be ppm	Bi ppm	Ca %	Cđ ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
DCR 01 DCR 02 DCR 03 DCR 04 DCR 05	205 226 205 226 205 226 205 226 205 226 205 226	< 5 < 5 10 < 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.35 0.29 0.10 0.53 0.17	22 12 < 2 18 6	40 30 < 10 40 10	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	2.95 1.51 0.20 5.14 2.66	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	5 3 1 9 2	115 264 231 40 124	5 3 < 1 15 3	2.47 1.97 1.12 4.16 1.62	< 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.12 0.11 0.01 0.22 0.05	< 10 < 10 < 10 < 10 < 10 < 10	0.09 0.04 0.01 0.57 0.15	675 320 165 720 240
DCR 06 DCR 08 DCR 16 DCR 17 DCR 17 DCR 18	205 226 205 226 205 226 205 226 205 226 205 226	<pre>< 5 < 5 30 25 155</pre>	< 0.2 < 0.2 0.2 < 0.2 < 0.2 5.4	0.15 0.14 0.41 0.25 0.53	< 2 8 110 52 114	10 10 30 10 50	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	2.73 1.08 7.00 4.35 10.65	< 0.5 < 0.5 0.5 0.5 61.0	1 < 1 9 6 11	187 240 82 166 35	1 < 1 13 3 49	2.23 1.00 3.66 2.21 3.45	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.05 0.06 0.20 0.12 0.25	< 10 < 10 < 10 < 10 < 10 < 10	0.85 0.25 1.19 0.55 0.93	535 155 405 255 400
DCR 19 DCR 21 DCR 22 DCR 23	205 226 205 226 205 226 205 226 205 226	<pre>< 5 < 5 < 5 < 5 < 10</pre>	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.28 0.68 0.27 0.30	< 2 22 970 32	30 60 30 20	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2	13.25 7.47 11.95 1.71	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	3 9 31 3	26 124 139 156	4 15 3 13	1.36 2.01 3.83 1.82	< 10 < 10 < 10 < 10 < 10	<1 <1 <1 <1	0.14 0.31 0.12 0.10	< 10 < 10 < 10 < 10	0.15 0.46 3.59 0.33	170 625 160
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CERTIFICATION:



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BOX 2937 PRINCE GEORGE, BC V2N 4T7

Project : Comments: ATTN: ALAN RAVEN Page, umber :1-B Total Pages :1 Certificate Date: 18-AUG-98 Invoice No. :19827701 P.O. Number : Account :LVI

nents: ATTN: ALAN RAVEN

CERTIFICATE OF ANALYSIS

A9827701

Sample	PREP CODE	Mo ppm	Na %	Ni ppm	9 T	Pb ppm	Sb ppm	Sc ppm	Sr Ti ppm %	Tl ppm	U mqq	V mqq	M M	Zn ppm	
DCR 01 DCR 02 DCR 03 DCR 04 DCR 04 DCR 05	205 226 205 226 205 226 205 226 205 226 205 226	< 1 < 1 1 2 3	0.04 0.03 0.03 0.04 0.03	15 16 6 20 6	50 130 70 50 310	6 30 < 2 32 38	< 2 < 2 < 2 < 2 < 2 < 2 < 2	3 2 1 4 2	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	< 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	5 4 3 4	< 10 < 10 < 10 < 10 < 10	26 26 8 44 24	
DCR 06 DCR 08 DCR 16 DCR 17 DCR 17 DCR 18	205 226 205 226 205 226 205 226 205 226 205 226	3 3 < 1 3 < 1	0.05 0.01 0.02 0.01 0.03	9 4 19 11 21	80 130 360 300 460	10 < 2 112 96 5080	< 2 < 2 < 2 < 2 4	2 < 1 5 2 4	$\begin{array}{r} 200 < 0.01 \\ 54 < 0.01 \\ 517 < 0.01 \\ 294 < 0.01 \\ 850 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 10	4 1 3 2 3	< 10 < 10 < 10 520 < 10	18 6 120 86 5170	
DCR 19 DCR 21 DCR 22 DCR 23	205 226 205 226 205 226 205 226	< 1 3 < 1 3	0.02 0.04 0.01 0.05	6 19 386 10	100 200 510 70	12 5 16 22	< 2 6 < 2	1 3 7 1	903 < 0.01 938 < 0.01 1430 < 0.01 102 < 0.01	< 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10	2 6 19 3	< 10 < 10 < 10 < 10	28 60 94 14	
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To: RAVEN, ALAN

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BOX 2937 PRINCE GEORGE, BC V2N 4T7

nber :1-A Pad Total ages :1 Certificate Date: 17-AUG-98 Invoice No. : 19827703 P.O. Number : Account : LVI

Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	PRE	P E	Au ppb FA+AA	Ag mqq	A1 %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cđ ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg mqq	K %	La ppm	Mg %	Mn ppm
9600N 10300E 9600N 10325E 9600N 10350E 9600N 10375E 9600N 10375E 9600N 10400E	201 201 201 201 201 201	202 202 202 202 202 202	10 40 125 15 20	< 0.2 < 0.2 0.6 < 0.2 < 0.2	0.77 0.80 1.71 0.95 0.84	36 26 62 34 44	30 30 60 30 70	0.5 < 0.5 2.0 0.5 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2	0.21 0.35 0.61 0.10 0.58	< 0.5 < 0.5 0.5 < 0.5 < 0.5	22 12 34 16 20	10 10 12 10 10	44 23 64 30 37	5.47 4.89 7.45 5.00 5.15	< 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.05 0.06 0.02 0.03 0.07	30 20 50 20 30	0.15 0.11 0.03 0.11 0.16	560 285 1110 340 665
9600N 10425E 9600N 10450E 9600N 10475E 9600N 10500E 9600N 10525E	201 201 201 201 201	202 202 202 202 202	40 285 25 20 30	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.54 0.28 0.70 1.21 0.46	110 30 40 44 18	40 20 30 30 30	0.5 < 0.5 0.5 0.5 < 0.5	<pre>< 2 < 2</pre>	0.52 0.02 0.31 0.16 0.10	0.5 < 0.5 < 0.5 0.5 < 0.5 < 0.5	32 10 19 30 7	7 5 7 10 6	62 22 37 44 14	6.28 3.51 4.63 6.25 2.37	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1 < 1	0.04 0.03 0.03 0.03 0.04	20 10 20 30 20	0.14 0.03 0.09 0.14 0.06	635 180 470 820 135
9600N 10525E(B) 9600N 10550E 9600N 10550E(B) 9625N 10340E 9625N 10340E	201 201 201 201 201	202 202 202 202 202	45 10 < 5 < 5 < 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	1.44 1.02 1.10 0.46 1.26	36 26 20 20 26	40 30 40 30 60	1.0 0.5 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	0.16 0.36 0.34 0.12 0.09	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	21 18 15 11 12	11 13 15 6 15	35 33 30 28 25	5.45 4.38 4.12 4.83 5.42	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1 < 1	0.04 0.05 0.07 0.03 0.08	30 40 40 30 20	0.14 0.27 0.33 0.03 0.11	400 425 315 190 395
9625N 10380E 9625N 10400E 9625N 10440E 9625N 10440E 9625N 10460E 9625N 10480E	201 201 201 201 201 201	202 202 202 202 202 202	15 15 40 15 10	< 0.2 < 0.2 0.4 0.2 < 0.2	1.44 0.90 1.99 0.40 0.64	34 36 42 26 38	50 50 20 40 20	1.0 1.0 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2 < 2	0.77 0.60 0.10 0.08 0.20	< 0.5 < 0.5 0.5 < 0.5 < 0.5 < 0.5	18 17 24 6 12	14 9 14 4 8	34 27 53 17 22	5.28 4.85 5.41 2.95 4.32	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.04 0.03 0.04 0.03 0.05	20 30 30 10 10	0.11 0.07 0.18 0.03 0.06	410 600 590 170 630
9625N 10500E 9625N 10525E 9625N 10550E 9650N 10320E 9650N 10340E	201 201 201 201 201 201	202 202 202 202 202 202	30 105 40 20 10	0.2 1.8 < 0.2 < 0.2 < 0.2	0.58 0.68 0.98 0.94 1.66	28 74 50 24 10	30 20 20 40 30	< 0.5 < 0.5 0.5 < 0.5 < 0.5	< 2 < 2 < 2 < 2 < 2 < 2	0.05 0.05 0.05 0.01 0.03	< 0.5 < 0.5 0.5 < 0.5 < 0.5 < 0.5	7 13 20 11 16	7 7 8 10 18	16 37 55 21 42	3.58 4.63 5.10 3.82 7.08	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.04 0.04 0.03 0.07 0.03	10 20 20 30 20	0.05 0.06 0.09 0.17 0.27	225 355 500 210 260
9650N 10360E 9650N 10380E 9650N 10380E(B) 9650N 10440E 9650N 10460E	201 201 201 201 201 201	202 202 202 202 202 202	45 15 25 45 20	0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	1.55 0.69 1.11 1.18 0.88	16 50 48 86 38	40 40 90 10 10	< 0.5 0.5 1.5 < 0.5 < 0.5	2 < 2 < 2 < 2 < 2 < 2	0.03 0.45 1.80 0.03 0.09	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	11 18 21 15 11	18 8 12 9 7	27 34 50 39 28	6.02 5.21 6.37 5.47 5.32	< 10 < 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1 < 1	0.04 0.03 0.05 0.03 0.03	30 20 30 10 10	0.26 0.06 0.08 0.07 0.05	135 370 1545 370 240
9650N 10480E 9650N 10500E DCS 98.01 DCS 98.02 DCS 98.03	201 201 201 201 201 201	202 202 202 202 202	< 5 < 5 70 75 220	< 0.2 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.87 0.55 0.28 0.23 0.18	46 30 354 216 84	20 20 30 10	< 0.5 < 0.5 1.0 0.5 0.5	< 2 < 2 < 2 2 2 2	0.13 0.06 0.08 0.12 0.09	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	12 7 68 55 29	8 6 4 3 2	28 18 149 120 63	6.26 3.82 9.80 8.19 6.13	< 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.04 0.04 0.05 0.03 0.03	10 30 10 10 < 10	0.06 0.04 0.06 0.06 0.04	405 135 1315 655 575
DCS 98.04 DCS 98.05 DCS 98.06 DCS 98.06 DCS 98.07 DCS 98.08	201 201 201 201 201 201	202 202 202 202 202	820 90 65 225 250	0.4 0.2 0.2 < 0.2 0.2	0.20 0.23 0.33 0.23 0.40	120 84 48 80 104	10 20 20 30 30	0.5 0.5 0.5 0.5 1.0	< 2 < 2 < 2 < 2 < 2 2 2	0.20 0.35 0.37 0.63 0.36	2.5 1.5 < 0.5 1.0 0.5	40 37 34 33 42	3 3 3 3 4	69 75 64 72 75	7.46 7.87 6.74 8.11 7.58	< 10 < 10 < 10 < 10 < 10	< 1 < 1 < 1 < 1 < 1	0.03 0.04 0.05 0.05	10 < 10 10 10	0.05 0.05 0.07 0.04 0.07	700 555 480 655 600
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BOX 2937 PRINCE GEORGE, BC V2N 4T7 Page nber :1-B Total Pages :1 Certificate Date: 17-AUG-98 Invoice No. :19827703 P.O. Number : Account :LVI

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Project : Comments: ATTN: ALAN RAVEN

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SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	q maa	Pb ppm	Sb ppm	Sc ppm	Sr Ti ppm %	Tl ppm	D T	V mqq	W	Zn ppm	
9600N 10300E 9600N 10325E 9600N 10350E 9600N 10350E 9600N 10375E 9600N 10400E	201 202 201 202 201 202 201 202 201 202 201 202	< 1 < < 1 < 1 < < 1 < < 1 < < 1 <	0.01 0.01 0.01 0.01 0.01	43 23 94 30 41	570 810 1270 710 1320	42 30 64 36 38	< 2 < 2 < 2 < 2 < 2 < 2 < 2	5 1 16 4 7	33 < 0.01 37 < 0.01 90 < 0.01 19 < 0.01 83 < 0.01	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	10 12 12 10 12	< 10 < 10 < 10 < 10 < 10 < 10	100 68 156 74 106	
9600N 10425E 9600N 10450E 9600N 10475E 9600N 10500E 9600N 10525E	201 202 201 202 201 202 201 202 201 202 201 202	<1 < <1 < <1 < 1 < 1 < <1 <	0.01 0.01 0.01 0.01 0.01 0.01	49 20 36 40 13	930 1190 1010 850 550	296 24 78 114 36	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	7 < 1 5 6 1	$\begin{array}{r} 67 < 0.01 \\ 9 < 0.01 \\ 34 < 0.01 \\ 26 < 0.01 \\ 16 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	7 11 9 9 7	< 10 < 10 < 10 < 10 < 10 < 10	172 58 130 132 52	
9600N 10525E(B) 9600N 10550E 9600N 10550E(B) 9625N 10340E 9625N 10360E	201 202 201 202 201 202 201 202 201 202 201 202	1 < 1 < < 1 < < 1 < < 1 <	0.01 0.01 0.01 0.01 0.01	38 35 36 22 26	780 950 1070 1110 760	146 50 28 22 32	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	4 5 5 1 2	$\begin{array}{r} 25 < 0.01 \\ 43 < 0.01 \\ 47 & 0.01 \\ 13 < 0.01 \\ 12 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	8 12 14 7 18	< 10 < 10 < 10 < 10 < 10 < 10	164 108 92 82 86	
9625N 10380E 9625N 10400E 9625N 10440E 9625N 10440E 9625N 10460E 9625N 10480E	201 202 201 202 201 202 201 202 201 202 201 202	1 < 1 < < 1 < < 1 < < 1 < < 1 <	0.01 0.01 0.01 0.01 0.01	39 31 41 11 20	940 1010 800 800 1440	42 36 270 32 70	< 2 < 2 < 2 < 2 < 2 < 2 < 2	8 8 6 < 1 1	77 < 0.01 65 < 0.01 16 < 0.01 11 < 0.01 25 < 0.01	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	13 10 11 6 10	< 10 < 10 < 10 < 10 < 10 < 10	88 86 198 42 98	
9625N 10500E 9625N 10525E 9625N 10550E 9650N 10320E 9650N 10340E	201 202 201 202 201 202 201 202 201 202 201 202	<pre> < 1 < 1 < 1 <</pre>	: 0.01 : 0.01 : 0.01 : 0.01 : 0.01 : 0.01	14 28 31 24 36	1460 1040 780 430 820	94 152 386 22 44	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	1 3 4 1 2	$\begin{array}{c} 13 < 0.01 \\ 12 < 0.01 \\ 11 < 0.01 \\ 6 < 0.01 \\ 6 < 0.01 \\ 6 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	10 10 8 9 15	< 10 < 10 < 10 < 10 < 10 < 10	84 160 224 62 88	
9650N 10360E 9650N 10380E 9650N 10380E (B) 9650N 10440E 9650N 10460E	201 202 201 202 201 202 201 202 201 202 201 202	$ \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	0.01 0.01 0.01 0.01 0.01	26 39 51 28 22	500 740 2580 940 860	46 38 46 126 100	< 2 6 < 2 < 2 < 2	2 6 15 3 2	$\begin{array}{r} 9 < 0.01 \\ 59 < 0.01 \\ 164 < 0.01 \\ 10 < 0.01 \\ 15 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	13 11 16 9 8	< 10 < 10 < 10 < 10 < 10 < 10	70 92 130 142 106	
9650N 10480E 9650N 10500E DCS 98.01 DCS 98.02 DCS 98.03	201 202 201 202 201 202 201 202 201 202 201 202	$ \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 4 \\ 2 \\ 4 \\ 1 \\ 4 \\ 2 \\ 4 \\ 1 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	<pre>< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01</pre>	20 15 130 98 52	870 1170 510 410 490	58 30 60 96 106	< 2 < 2 6 6 6	1 1 9 8 7	$ \begin{array}{r} 18 < 0.01 \\ 12 < 0.01 \\ 24 < 0.01 \\ 22 < 0.01 \\ 16 < 0.01 \\ \end{array} $	< 10 < 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10 < 10	10 & 7 6 4	< 10 < 10 < 10 < 10 < 10 < 10	78 48 150 204 168	
DCS 98.04 DCS 98.05 DCS 98.06 DCS 98.07 DCS 98.08	201 202 201 202 201 202 201 202 201 202 201 202	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01</pre>	66 60 52 68 64	470 380 540 460 500	220 100 66 68 70	< 2 2 < 2 2 2 2	8 8 9 9 8	$\begin{array}{r} 24 < 0.01 \\ 21 < 0.01 \\ 33 < 0.01 \\ 45 < 0.01 \\ 40 < 0.01 \end{array}$	< 10 < 10 < 10 < 10 < 10	< 10 < 10 < 10 < 10 < 10	44556	< 10 < 10 < 10 < 10 < 10	300 268 148 294 170	

CERTIFICATION:



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19. 40 LST 2 5000	ARG B5 LST UST	LST LST	DLST POLA SS	IB FARG 17 ARG
DOMINION CREEK PROJE ROCK SAMPLES PIT AR lst - limestone qtz - quartz 12 - sample site 12 - fault 12 - outline of quartz outline	CT 1998 REA	S7 S S ³ LST	s s s s s s s s s s s s s s s s s s s	PIT FLOOR





QEED 25/98 /

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM 1998

AREA: HERRICK CREEK

NTS 93I/6E and 7W

TECHNICAL REPORT (Outline)

Name: Alan Raven

Reference #98/99 P68

LOCATION/COMMODITIES

Project area: Herrick Creek

Location of project area NTS 93I/6&7 Latitude 54° 20' N Longtitude 121° 00' W

Description of location and access: The area is located in the Rocky Mountains about 120 kilometres east (073°) of Prince George. It is accessed by logging road to the Herrick Creek camp then by helicopter to the target area.

Main commodities searched for: Shale hosted lead/zinc

Known mineralization in the project area: None in the immediate area

WORK PERFORMED

1 J

As outlined in the attached report; prospecting and geochemical (23 samples)

SIGNIFICANT RESULTS: None

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM 1998

AREA: HERRICK CREEK

NTS 93I/6E and 7W

ALAN RAVEN Reference number 98/99 P68

HERRICK PROJECT 1998

PURPOSE

The target in this project was to examine the possibilities of a shale hosted lead - zinc deposit in the continental margin rocks of the area while also being on the lookout for any other types of mineralization.

In a personal communication with an ex-El Paso prospector who had done recon in the area during the 1970s, he told me that they had located some copper, lead and zinc showings in the area.

My work failed to to confirm or locate these "showings" but the possibility still exits for a "Sedex" model in the Devonian rocks of the area.

GEOLOGY

Camp #1

The geology of the area is mapped as of Proterozoic/Hadrynian continental margin sediments. The rocks consist of the Middle Miette Group of pebble congomerate, argillite, diamictite and minor limestone. (O.F. 630 Monkman Pass Geology compiled G.C. Taylor 1979 and D.F. Stott 1975)

We were camped on a medium grained arkosic sandstone that was overlying the large area of interbedded argillites/limestones. The area we prospected from camp 1 is an extensive area of interbedded shale/argillite/limestone/sandstone. No mineralization or alteration of significance was located.

Camp # 2

The geology traversed was the younger Paleozoic /Lower Ordovician Survey Peak Formation which consisted of limestones, minor interbedded calcareous soltstone to very fine grained sandstone; the Monkman Quartzite and the Middle Ordovician, Skoki Formation which consists of limestone and dolomite. (GSC Map 1872A 1995 Wapiti Pass)

From Camp #2 we traversed across the Survey Peak Formation, portions of the Monkman Quartize and portions of the Skoki Formation. The Monkman Quartzite is more extensive than indicated on the geology map but makes no practical difference to the mapping. No sign of significant mineralization or alteration was encountered

RESULTS

The results of the recon work were disappointing but I know that success is not had every time we start to explore a new area.For me it is very interesting and exciting to cover new territory; this is one of the main reasons I have chosen this career path. As you can see from the analytical results there is very little encouragement for the immediate area but this does not rule out the possibilities for the area as a whole.

The 1998 season reconnaissance of the Herrick Creek target area was scaled back from my original plan because of financial constraints. I hope to have the financial resources available in the future to continue the recon program. The construction of new logging access in the area will greatly reduce exploration costs and improve the economics of any new prospects.

I focused most of my time and monies on my Dominion Creek property since the option agreement I was negotiating at the time of my grant proposal had collasped. It became necessary for me to perform assessment work on my D.C. property and to improve it's salability.







Photo #1 Looking southward from the Camp - 1 area. The trees are growing on the drained ridges of sandstone outcrop while the meadows are being formed on the shale interbeds



Photo # 2 Looking eastward from the meadow on the left of the above photo, showing the dip slope of the interbedded limestone and shales



Photo # 3 Looking eastward at the first false summit above and east of Camp 2, showing the southerly dipping limestone of the Survey Peak Formation.



Photo #4 Looking eastward from the second false summit above Camp 2, showing the contact area of the Monkman Quartzite overlying the Survey Peak limestone.



Photo #5 Looking northwesterly from near the height of land (lake is a height of land) on an outcrop of the Monkman quartzite toward the thrust contact of the Survey Peak limestone over the Monkman Quartzite.



Photo #6 Looking westward showing the thrust contact over the Monkman Quartzite (very light brown) by the Survey Peak rocks and also the coforming contact of the Survey Peak rocks under the Monkman Quartzite.

APPENDIX I ANALYTICAL RESULTS FAXSR: 604-92 1071 At 24-NOV-1998 21:59 Page 2



CLIENT: HIGH	PROJECT: NONE GIVEN												
REPORT: V98-0	2039.0 (COM	PLETE)			DATE R	ECEIVED:	19-Nov-98		DATE PRIN	TED: 24-N	ov-98	page 1	h(1/3)
SAMPLE	ELEMENT	Аg	Cu	Pb	Zn	Мо	Ni	Co	Cđ	Bi	As	sb	Fe
NUMBER	UNITS	B SW	PPM	PPM	PPM	PPM	P PM	P PM	PPM	PPM	PPM	B SM	PCT
T1 168801		<0.2	35	48	128	<1	42	28	0.3	<5	15	<5	5.65
T1 168802		<0,2	51	25	84	<1	17	10	0.4	<5	<5	<5	2.92
T1 168803		<0.2	5	14	50	<1	12	14	0.3	<5	<5	<5	2.64
T1 168804		<0,2	4	15	49	<1	13	9	0.3	<\$	<5	<5	2,49
T1 168805		<0,2	23	23	78	<1	18	11	<0.2	<5	<5	<5	3.59
T1 168806		<0,2	27	28	83	<1	22	14	0.3	<5	9	<5	3,98
T1 168807		<0,2	43	31	85	1	23	15	0.3	<5	11	<:	4.26
T1 168808		<0.2	34	36	105	2	30	18	0.4	<5	18	<5	4.85
T1 168809		<0,2	5	11	27	<1	8	4	<0.2	<5	<5	<5	1.11
TI 168810		<0,2	21	20	144	2	26	9	1.1	<۵	9	<5	2.65
T1 168811		<0,2	31	19	57	<1	19	11	<0.2	<5	7	<5	3.26
T1 168812		<0.2	11	17	72	<1	16	7	0.3	<5	5	<5	2.32
T1 168813		<0.2	4	7	20	<1	6	3	<0.2	<5	<5	<5	3.01
T1 168814		<0,2	11	13	41	<1	12	6	0.2	<5	6	<5	1.82
T1 168815		<0.2	14	13	50	<1	15	8	0.2	<5	5	<:	2.38
T1 168816		<0,2	33	20	61	<1	20	11	0.2	<5	<5	<5	3.40
T1 168817		<0.2	8	9	28	<1	13	6	<0.2	<5	<5	<5	1.89

FAXSR: 604-985-1071 At 24-NOV-1998 21:59 Page 3



CLIENT: HIGH RANGE EXPLORATION LTD.						PROJECT: NONE GIVEN									
REPORT: V98-02039.0 (COMPLETE)					DATE 1	RECEIVED:	19-NOV-98		DATE PRIN	PAGE	13(2/3)				
SAMPLE	ELEMENT	Mn	Te	Ba	Cr	v	Sn	W	La	Al	Mg	Ca	Na		
NUMBER	UNITS	P IM	PPM	PPM	PPM	PPM	P PM	PPM	PPM	PCT	PCT	PCII	PCT		
T1 168801		1386	<10	42	18	12	<20	<20	8	1.83	0.65	0.32	<0.01		
T1 168802		683	<10	54	10	11	<20	<20	16	1.11	0.40	0.24	<0.01		
T1 168803		14:11	<10	32	8	9	<20	<20	15	0.83	0.25	0.20	<0.01		
T1 168804		1170	<10	32	7	8	<20	<20	16	0.84	0.25	0.17	<0.01		
T1 168805		898	<10	59	12	12	<20	<20	19	1,24	0,45	0.41	<0.01		
T1 168806		903	<10	53	11	11	<20	<20	18	1.09	0.51	0.40	<0.01		
T1 168807		640	<10	57	12	11	<20	<20	14	1.13	0.59	0.47	<0.01		
T1 168808		12:10	<10	46	13	11	<20	<20	14	1.03	0.58	0.68	<0.01		
T1 168809		438	<10	25	6	7	<20	<20	11	0.55	0.75	0.95	<0,01		
T1 ¹⁶⁸⁸¹⁰		941	<10	170	11	26	<20	<20	14	1.07	0.42	0.82	<0.01		
TI 168811		573	<10	69	12	18	<20	<20	25	1.24	0.71	0.37	<0.01		
T1 168812		1530	<10	60	15	16	<20	<20	26	1.23	0.62	0.53	<0.01		
T1 168813		471	<10	17	5	6	<20	<20	9	0.41	4.18	6.70	<0.01		
T1 168814		659	<10	51	11	11	<20	<20	17	0.90	4.38	6.67	<0.01		
T1 168815		11 93	<10	68	11	15	<20	<20	18	0.95	1.18	1.77	<0.01		
TI 168816		410	<10	48	12	11	<20	<20	24	1.21	0.89	0,81)	<0.01		
TI 168817		435	<10	69	12	13	<20	<20	17	0.92	1.68	2.56	<0.01		

FAXSR: 604-985-1071 At 24-NOV-1998 21:59 Page 4



CLIENT: HIGH	PROJECT: NONE GIVEN												
REPORT: V98-02039.0 (COMPLETE)				DATE R	ECEIVED:	19-NOV-98		DATE PRI	PAGE	10(3/3)			
SAMPLE	ELEMENT	K	Sr	Y	Ga	Ŀi	No	ŝc	Ta	Ti	Zr		
NUMBER	UNITS	PCT	PPM	PPM	PPM	PPM	P PM	PPM	PPM	PCT	PPM		
T1 168801		0.03	12	7	4	84	<1	<5	<10	<0.01	4		
т1 168802		0.07	13	5	2	28	<1	<5	<10	<0.01	1		
T1 168803		0.02	13	6	2	28	<1	<5	<10	<0.01	<1		
T1 168804		0.02	11	6	<2	30	<1	<5	<10	<0.01	<1		
T1 168805		0.09	30	5	3	39	<1	<\$	<10	<0.01	2		
T1 168806		0.09	22	6	2	31	<1	<5	<10	<0.01	2		
T1 168807		0.10	21	6	3	27	<1	<5	<10	<0.01	2		
T1 168808		0.04	26	7	2	37	<1	<5	<10	<0.01	2		
T1 168809		0.11	7	4	<2	8	<1	<5	<10	<0.01	<1		
T1 [°] 168810		0.09	15	8	2	16	2	<5	<10	<0.01	1		
T1 168811		0.09	13	6	з	21	<1	<5	<10	<0,01	2		
T1 168812		0.12	12	12	3	17	<1	<5	<10	<0.01	1		
T1 168813		0.09	19	4	<2	6	<1	<5	<10	<0.01	<1		
T1 168814		0.26	23	6	<2	20	<1	<5	<10	<0.01	1		
T1 168815		0.14	17	8	<2	15	<1	<5	<10	<0.01	1		
T1 168816		0,12	15	7	3	25	<1	<5	<10	<0.01	2		-
T1 168817		0.20	18	8	<2	13	<1	<5	<10	<0.01	2		