

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 89.03.25

ASSESSMENT REPORT 17248

MINING DIVISION: Cariboo

PROPERTY: D.D.  
LOCATION: LAT 52 47 43 LONG 121 26 24  
UTM 10 5850420 605186  
NTS 093A14W  
CLAIM(S): Stu 1, D.D. 2  
OPERATOR(S): Cascadia Mines & Res.  
AUTHOR(S): Davenport, T.G.  
REPORT YEAR: 1988, 67 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver, Platinum, Palladium

GEOLOGICAL

SUMMARY: The property is underlain by metasedimentary rocks of the Cambrian Cariboo Group, principally the Snowshoe Formation. Micaceous quartzites are the commonest type of arenaceous rock, while the argillaceous rocks are phyllites with fine siltstones.

WORK

TYPE: Geochemical  
SAMP 126 sample(s) ;AU,AG

RELATED

REPORTS: 16399

LOG NO: 0406	RD.
ACTION:	
FILE NO:	

ASSESSMENT REPORT

STU CLAIM GROUP

CARIBOO MINING DIVISION

93 A/13W

Lat 52 49'

Long 121 25'

FILMED

OWNER: Cascadia Mines and Resources Ltd.

OPERATOR: Cascadia Mines and Resources Ltd.

AUTHOR: TREVOR G. DAVENPORT

SUBMITTED: February 11th, 1988

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,248

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## INTRODUCTION

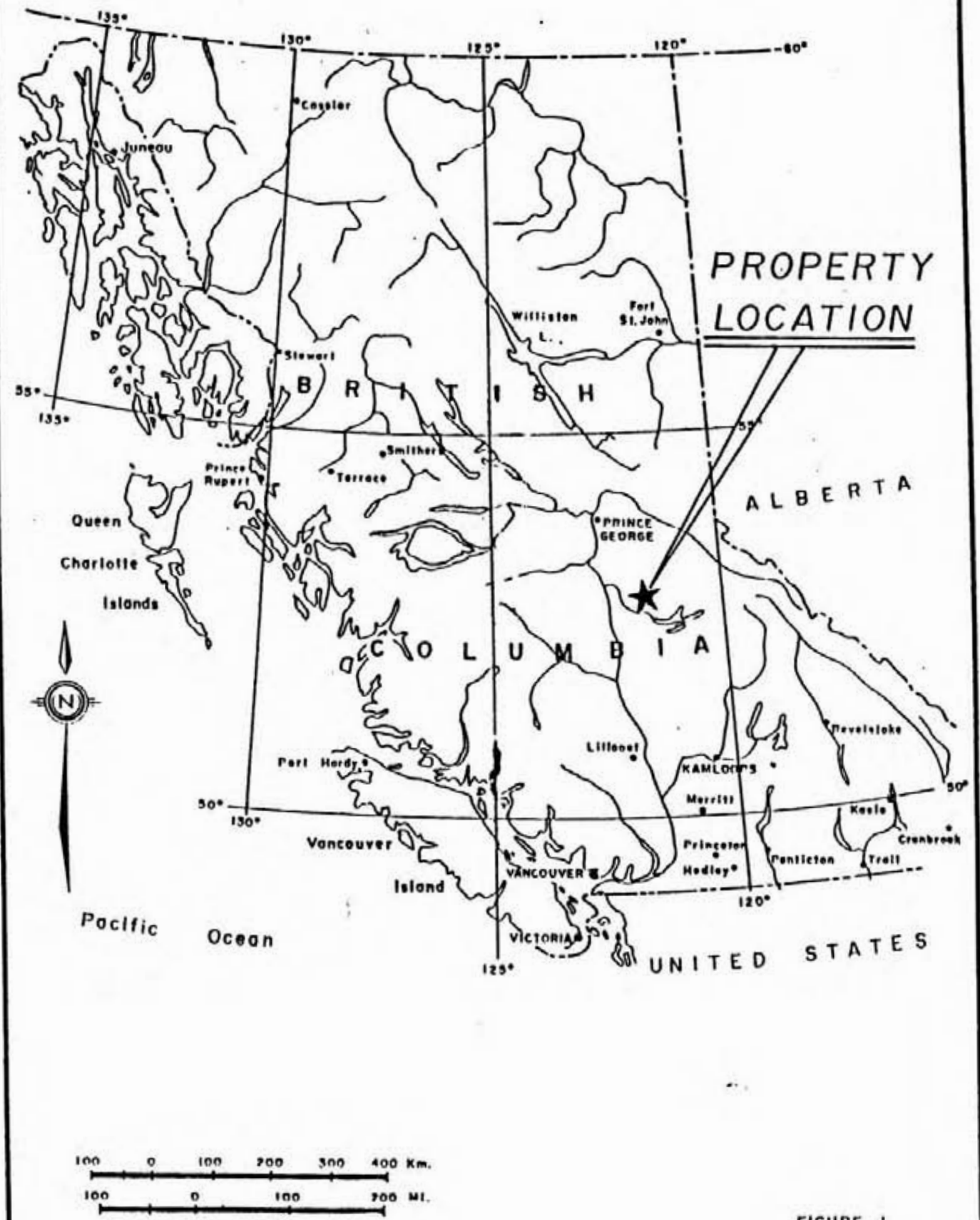
Cascadia Mines & Resources Ltd. has several mineral claims in the Keithley Creek area of the Cariboo Mining Division of British Columbia. During the past several years the company has carried out a considerable amount of diamond drilling on its claims; much of the drill core had not been split or assayed. It was decided to check four of the drill holes for possible gold mineralization in those parts of the core that contained sulphides.

Soil samples collected on three traverses were also prepared and sent for analysis.

### Location

The mineral claims are located in the Keithley Creek area to the north of Cariboo Lake approximately 90 air km. north-east of Williams Lake (see fig.1). Camp facilities, consisting of two trailers, are situated 1km. east of the junction of Snowshoe and Keithley Creeks and can be reached by an all weather gravel road from Likely, about 33 km. to the south.

Most of the mineral claims are accessible by four-wheel drive vehicles using the numerous logging roads. The average elevation of the area is approximately 1100 metres above sea level.



**PROPERTY  
LOCATION**

ALBERTA

B R I T I S H

C O L U M B I A

UNITED STATES

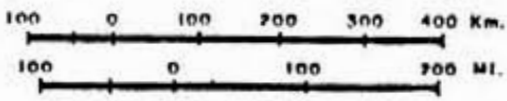


FIGURE 1  
BRAD'S DRAFTING SERVICES

### Mineral Claims

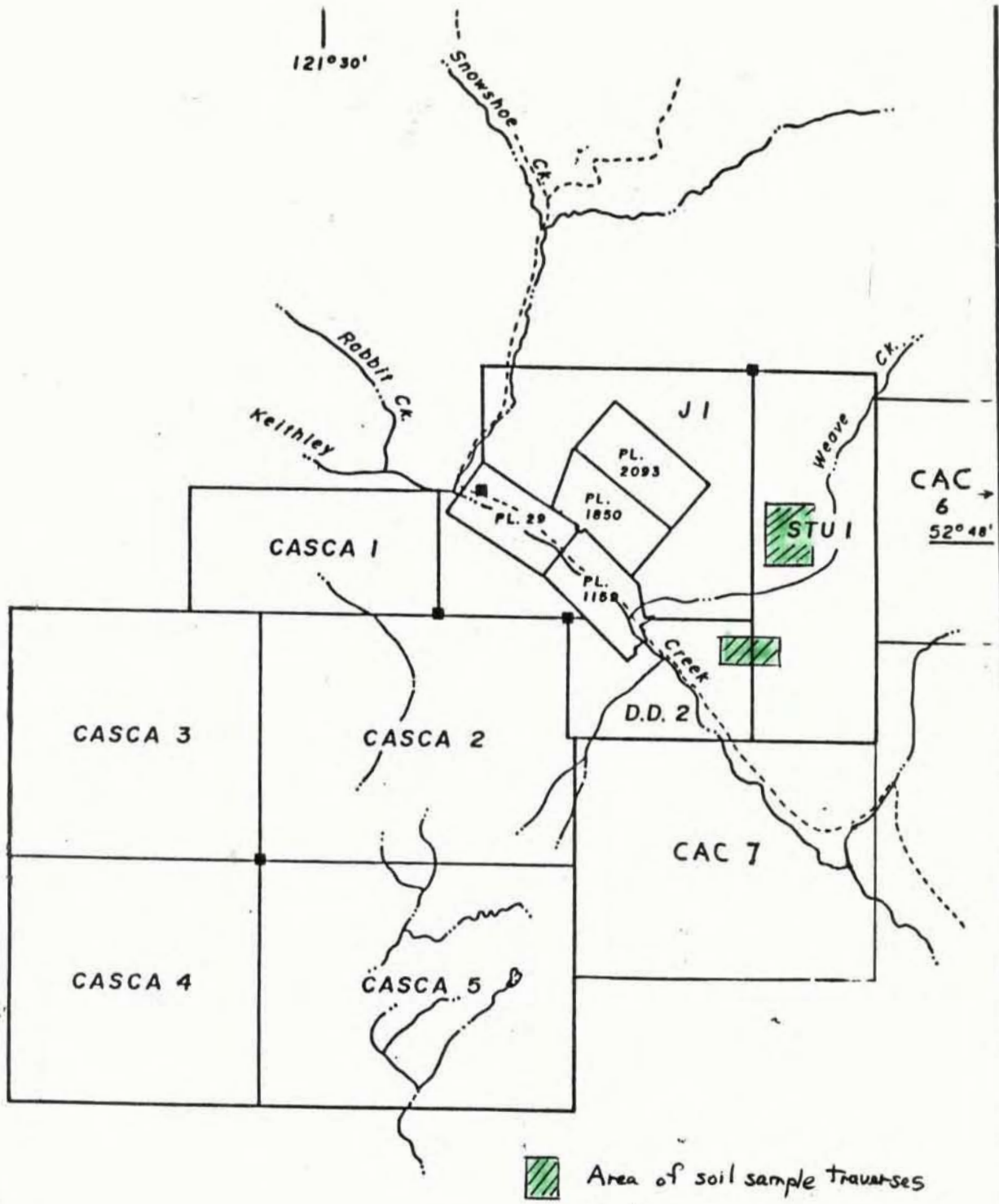
Cascadia Mines and Resources have the following 15 located mineral claims in the Keithley Creek area (see figs. 1 and 2).

Mineral Claim	Record Number	Number of Units
J1	865	20
<u>STU1</u>	1141	12
<u>DD2</u>	1142	6
CASCA1	2004	8
CASCA2	2005	20
CASCA3	2081	16
CASCA4	2082	16
CASCA5	2084	20
CAC1	4968	20
CAC2	4969	20
CAC3	7540	20
CAC4	7541	20
CAC5	7542	20
<u>CAC6</u>	7543	20
<u>CAC7</u>	7544	20

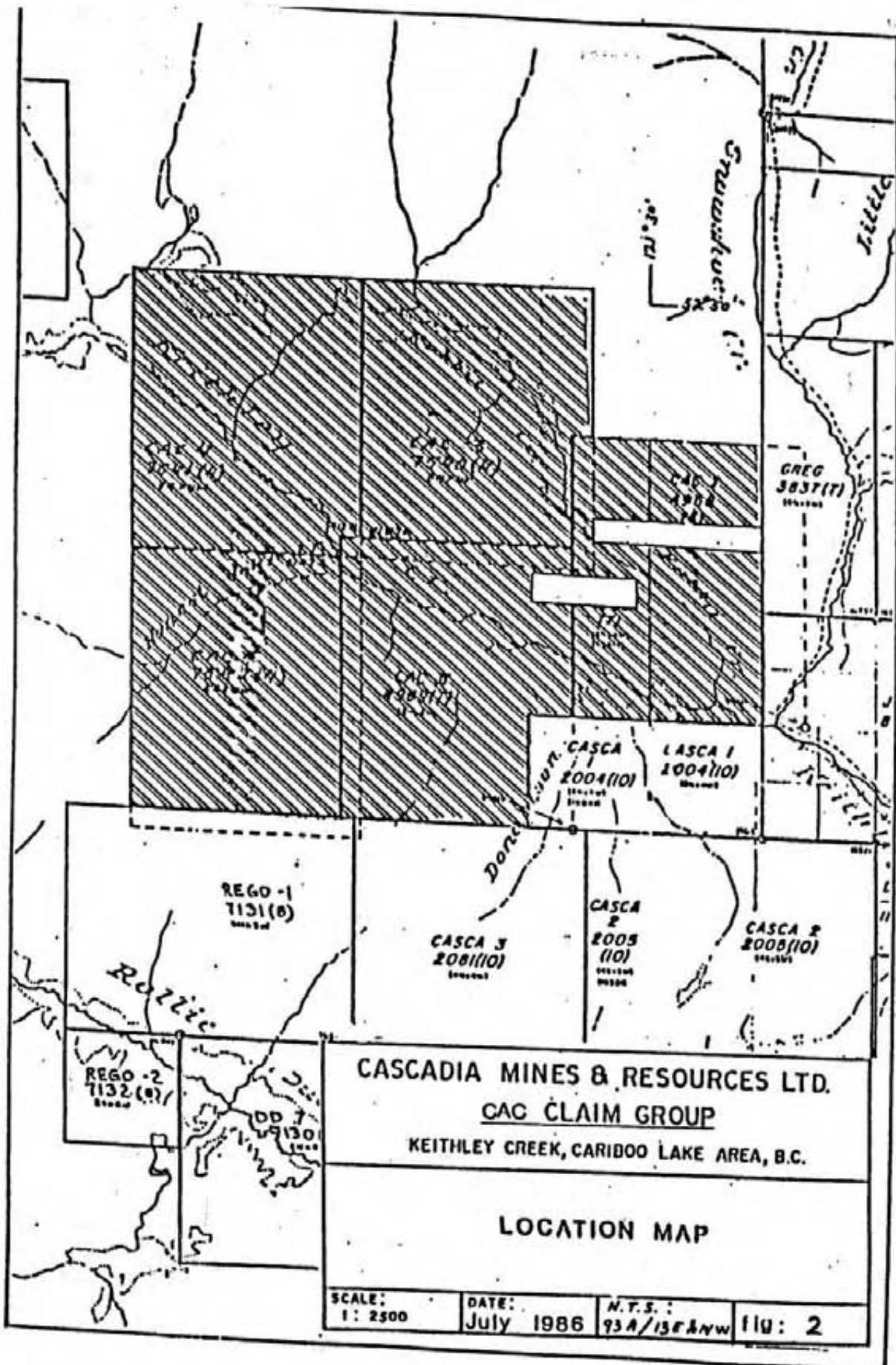
### 1 Topography and Vegetation

The mineral claims lie in an area of rolling hills cut by deep river valleys, particularly Keithley Creek. Elevation of the area varies between 1250 and 1400 metres.

Much of the area has been logged and is accessible but the area around Weaver Creek is heavily forested and movement on foot is difficult; fortunately logging roads provide basic access to most of the claims.



CASCADIA MINES & RESOURCES LTD.			
KEITHLEY CREEK, CARIBOO LAKE ARM CARIBOO M.D., B. C.			
CLAIM MAP			
SCALE: 1:50,000	DATE: DEC. 85	FIG. 1	N.T.S. 93 A/14 W, 13E



**CASCADIA MINES & RESOURCES LTD.**  
**CAC CLAIM GROUP**  
 KEITHLEY CREEK, CARIBOO LAKE AREA, B.C.

**LOCATION MAP**

SCALE: 1 : 2500	DATE: July 1986	N.T.S. : 93A/13E&NW	fig: 2
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## 2 History of the Area

As mentioned previously the Keithley Creek area was an important producer of placer gold in the past. However the gold-quartz veins that have been discovered in the area have never been developed to any great extent.

The first discovery occurred in 1862 when the Douglas Vein was found in the Little Snowshoe Creek area and considerable activity followed. Intermittent activity in the area has continued since then to the present day. Since 1979 Cascadia has been carrying out exploration on its claims and several other companies are actively exploring the surrounding claims.

## 3 Regional Geology

A full description of both the regional and local geology of the area has been included in many past reports for Cascadia; for detailed information it is recommended that reference to these be made (Timmins, Lorimer, Cochrane etc.). The following is a brief summary of the regional geology.

The Cariboo Mountain Belt has been subdivided into four distinct terranes, each one bounded by two major thrust faults. Cascadia's mineral claims are located within the Barkerville Terrane which is bounded to the east by the northeast dipping Pleasant Valley thrust and to the west by the southwest dipping Eureka thrust. The terrane is characterised by continental shelf clastics, carbonates and volcanics, more specifically grit with black quartz grains and black siltite. The rocks have been metamorphosed and vary from chlorite to sillimanite grade although in the vicinity of Cascadia's property, the rocks are of chlorite grade. The Cascadia property is underlain by metasedimentary rocks of the Cariboo group, principally the Snowshoe formation; the rocks are considered to range in age from Hydrinian to Palaeozoic. Named after the plateau between Yanks Peak and Roundtop Mountain, the

Snowshoe formation is the youngest known of the Cariboo Group. The formation is composed predominantly of clastic rocks with subsidiary limestone. Micaceous quartzites are the commonest type of arenaceous rock, while the argillaceous rocks are mostly phyllites with fine siltstones. The calcareous rocks of the Snowshoe formation are important because of gold-bearing pyritic replacement of certain beds.

The main fault of the area is the Keithley Creek thrust fault, which runs northwestwards from Shoals Bay on Quesnel Lake, up Keithley Creek and crosses Lightning Creek in the Wingdam area; the fault is post-metamorphism. A north-south fault, probably a continuation of the Antler Creek fault, extends southwards through Snowshoe and Rabbit Creeks to the Keithley Creek thrust fault. There is numerous secondary faulting and fracturing in the area.

#### 4 Gold Mineralisation

In the Cariboo area, gold mineralisation occurs as follows:

1. As auriferous pyrite in quartz veins.
2. As pyritic replacement ore in limestones.

The Barkerville Terrane is cut by several generations of quartz veins the majority of which are barren. It is reported that some mineralised veins carry up to 25% pyrite with up to 70 grammes per tonne of gold (Aldrick 1983).

The replacement ore consists of massive pyrite lenses, with the finest sulphides containing the highest gold values. Structural control would appear to be important as the lenses are localised in the crests or troughs of the minor folds, in steeply dipping limbs of the main folds and in flat lying tabular lenses where the limestones have flattened (Aldrick op.cit.). It has been suggested that the veins have developed outward from the replacement ore.

Lead isotope studies indicate that the veins have a similar age to that of the latest metamorphism, namely that occurring during the Middle Mesozoic Columbian orogeny. Andrew et al (1983), believe that the similarity in metamorphic and mineralisation ages suggest that the veins may be syn-metamorphic rather than magmatic in origin.

However, three phases of vein mineralisation have been recognised in the Cariboo Gold Quartz mine, although not all of them are gold bearing. A K/Ar date from a quartz-barite vein yielded a date corresponding to the age of post-tectonic, and therefore post metamorphic, granodiorite plutons southeast of the mine; this indicates that at least one set of quartz veins is related to magmatism. (Andrew op.cit.)

They also state that whether the gold mineralisation occurred by lateral secretion during metamorphism or by hydrothermal activity related to magmatism, the likely source for the lead and gold remains the host rocks.

No replacement-type gold deposits have been found in the Yanks Peak area and all known mineralisation occurs in structurally controlled quartz veins. (Timmins 1987)

The veins have been divided into 3 main classes:

- 1) Northerly striking veins
- 2) Northeasterly striking veins
- 3) Easterly striking veins

The northerly striking veins are the largest - up to 12 metres wide and 500 metres long, and dip steeply eastward.

Dipping steeply southeastward, the northeasterly veins occupy tension fractures that have little or no movement. The veins are small and narrow, generally occur in swarms and are associated with northerly striking faults with dextral movement.

Slightly longer than the northeasterly veins, the easterly striking veins are usually less than 1 metre wide and also occur in fractures.

Although no significant veins have been reported from the Cascadia claims, several veins have been reported from the general area namely on the ridge between Weaver and Fourmile Creeks and on the ridge between the forks of Fourmile Creek; other veins have also been reported from the Duck (Rollie) Creek area (Timmins 1987).

### 5 Previous Work

Since 1979 Cascadia has been carrying out exploration on its properties in the Keithley Creek area; understandably the emphasis has been to ready Placer Lease 29 for production. However, a considerable amount of money has been spent on exploring the mineral claims; exploration has included field geology, trenching, geochemical soil surveys, diamond drilling and geophysics. To date however, no significant mineralisation has been identified.

Three assessment reports were submitted between August 1986 and June 1987; these were:

- 1) CAC Claim group: the group consists of CAC1-5
- 2) STU Claim group: the group consists of STU1, DD2, CAC6 and CAC7
- 3) CASCA Claim group: the group consists of J1 and CASCA1-5

## 6. STU Claim Group

### 6.1 Diamond Drilling:

A programme of 685.5 metres (2,249 feet) of NQ diamond drilling in seven holes was carried out during July of 1986 on the STU 1 & DD 2 claims (see Timmins 1987).

- Results:
- a) The drilling intersected greywackes, quartzites, siltstones & mudstones; disseminations, veinlets, blebs & fracture coatings of pyrite (or limonite) were common throughout the core (for drill logs & location see appendix).
  - b) Only between 10% & 30% of the core was split and/or sent for assay.
  - c) No significant concentrations of gold & silver were detected in the assays.

Prior to my visit, it was known that much of the drill core, although not split contained considerable amounts of sulphide. It was felt that the core from drillholes STU 1 to STU 4 should be split & all sections of core containing sulphide and/or quartz veins should be analysed.

Consequently during my visit, I split the remainder of the core from the four STU drillholes. All sections of the core containing sulphides were sampled, & crushed in a core crusher; the crushed core was passed through a riffle-splitter & a representative sample then sent for analysis.

The total amount of core sent for analysis was as follows:

STU 1	-	76.75 metres	(40 samples)
STU 2	-	52.5 metres	(30 samples)
STU 3	-	79.9 metres	(36 samples)
STU 4	-	<u>36.3</u> metres	(20 samples)
Total:	-	245.45 metres	(126 samples)

As can be seen from the analyses, no significant concentrations of gold or silver were detected in the assays (see appendix).

It is interesting to note that barren sulphide minerals, mostly pyrite, are so common in the greywackes, quartzites, siltstones & mudstones that any future electrical geophysical surveys should be used only with extreme caution. Electromagnetic or Induced Polarization methods could indicate numerous anomalies unrelated to gold mineralisation.

#### 6.2 Soil Sampling:

During 1986 three reconnaissance soil sample traverses were carried out in a heavily timbered area in the STU 1 claim by W.G.T. Consultants. Because of the nature of the ground, the traverses were flagged with tape, and trees were blazed; accurate location of the traverses was not possible although the position of their ends at the road is known.

Soils were collected from the "B" horizon, and sieved to - 80 mesh. Precious metal content was then determined by Fire assay, while a range of both trace and major elements were determined by plasma emission spectroscopy.

a) A series of 78 soil samples (S1 to S77) were collected from two traverses in the Weaver Creek area. Five soils showed very interesting gold values:

Soil S4	- 3.23	grammes/tonne gold (c. 0.1 oz per tonne)
S5	- 0.38	"
S22	- 1.44	" <i>0.05</i>
S24	- 0.73	"
S40	- 1.32	" (c. 0.04 oz per tonne)

There are eight other samples with values greater or equal to 0.1 grammes per tonne gold; background appears to be c. 0.01 grammes per tonne ( see appendix ).

b) Twenty one soil samples (27687L - 10 to 32 ) were collected on a reconnaissance traverse in the Weaver Creek area. Again some samples showed interesting gold values e.g. 27687L - 26: 1.76 grammes per tonne (see appendix)

## 7. Recommendations

1. Until a definite target is found by a combination of geological, structural, geochemical and trenching methods no further drilling should be contemplated. If a drilling programme is decided upon, then no drilling of a second hole or third hole should be planned on the same structure until the results of the previous hole are known. Also programmes of four & five holes, at inclined depths of greater than 120 metres should only be considered if the expected target has a reasonable chance of proving economic. Junior mining companies should only drill for geological information under exceptional circumstances.

2. In the near future no geophysical surveys of the mineral claims should be contemplated for the following reasons:

- a) Geophysical surveys are expensive and without geological control can be very misleading. It is essential to know the structural, mineralogical & geological setting in order that an optimum geophysical method can be selected.

## REFERENCES

- Cochrane, D                      Geological Report on Placer Lease 29. Report to Cascadia June, 1978.
- Geotronics  
Surveys Ltd.                      Summary Report on a Seismic Refraction Survey on PL 29.
- Lorimer, M K                      1) Progress Report on the PML 29 Property, September 1980.  
   2) Progress Report on the PML 29 Property, November 1981.  
   3) Summary Report on the PL 29 Property, January 1982.
- Lang, A H                          Keithley Creek Map Area, Cariboo District, B.C. Geological Survey of Canada, Preliminary Report, Paper 36-15, 1936.
- Andrew, A  
Godwin, C I  
Sinclair, A J                      Age and genesis of Cariboo Gold mineralisation determined by isotope methods. B.C. Ministry of Energy, Mines and Petroleum Resources, Paper 1983-1, 1983.
- Aldrick, D J                      The Mosquito Creek Mine, Cariboo Gold Belt; as above.
- W.G.T.  
Consultants                      Summary Report - Geological and Geophysical Studies for Cascadia Mines and Resources Ltd. on Keithley Creek Gold Property, February 1986.
- Archambault, M                      1) Assesment Report - CAC Claim Group, August 1986.  
   2) Assesment Report - CASCA Claim Group, July 1987.
- Timmins, W G                      Assesment Report - STU Claim Group, June 1987.
- Manson, L                          Reports to Cascadia Mines by Canadian Geophysical Technologies Ltd., September 1987.

All the above references, apart from Lang, Aldrick and Andrew et al, are private reports for Cascadia Mines and Resources Ltd.



C O S T S U M M A R Y

Field: Geologist Time	14 days @ \$350.00 per day.	\$ 4,900.00	
Assistance Time	12 days @ \$100.00	\$ <u>1,200.00</u>	\$ 6,100.00
Analyses: Quanta Labs	STU 1 - STU 4 Diamond Drill Holes	\$ 5,706.50	
	78 - soils		
	22 - soils		\$ 5,507.00
Equipment Lease:	Core Crusher Riffle Splitter	\$ 585.00	\$ 585.00
Transportation Costs:	Crusher & etc. to & from site	\$ 486.00	\$ 486.00
"	Crushed Cores to Lab	\$ 237.00	\$ 237.00
Electrical Hook Ups:	For Crusher & equip. to do cores & etc.	\$ 676.00	\$ 676.00
S U B T O T A L:			<u>\$13,591.00</u>
Geological Report:	Preparation, Typing, Photo Copy & etc.	\$ 103.00	
	Report	\$ 1,000.00	\$ 1,103.00
T O T A L :			<u>\$14,694.00</u>

February 11, 1988

T,G, DAVENPORT, B.Sc. , M. Sc.  
Ph.D. , M.A.E.G. ,M.I.M.M. ,C.Eng.

AUTHOR'S QUALIFICATIONS

1. Trevor George Davenport, of the Haize, Alderney, Channel Islands, U.K. do hereby certify that:

1. I am a graduate of the University of Southampton, U.K. where I obtained a B.Sc (Hons) in Geology in 1963.

I also obtained a M.Sc. in Mining Geology and Mineral Exploration at the University of Leicester, U.K. in 1966. In 1970 I was awarded the Degree of Doctor of Philosophy in Applied Geology and Geochemistry at the University of Leicester.

2. I am a Member of The Institute of Mining and Metallurgy (U.K.), a Member of the Association of Exploration Geochemists; I am also a registered Chartered Engineer (U.K.).

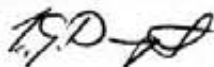
3. I have been practising my profession for 25 years.

4. I have no interest direct or indirect in the property or securities of Cascadia Mines and Resources Ltd., nor do I expect to receive any such interest.

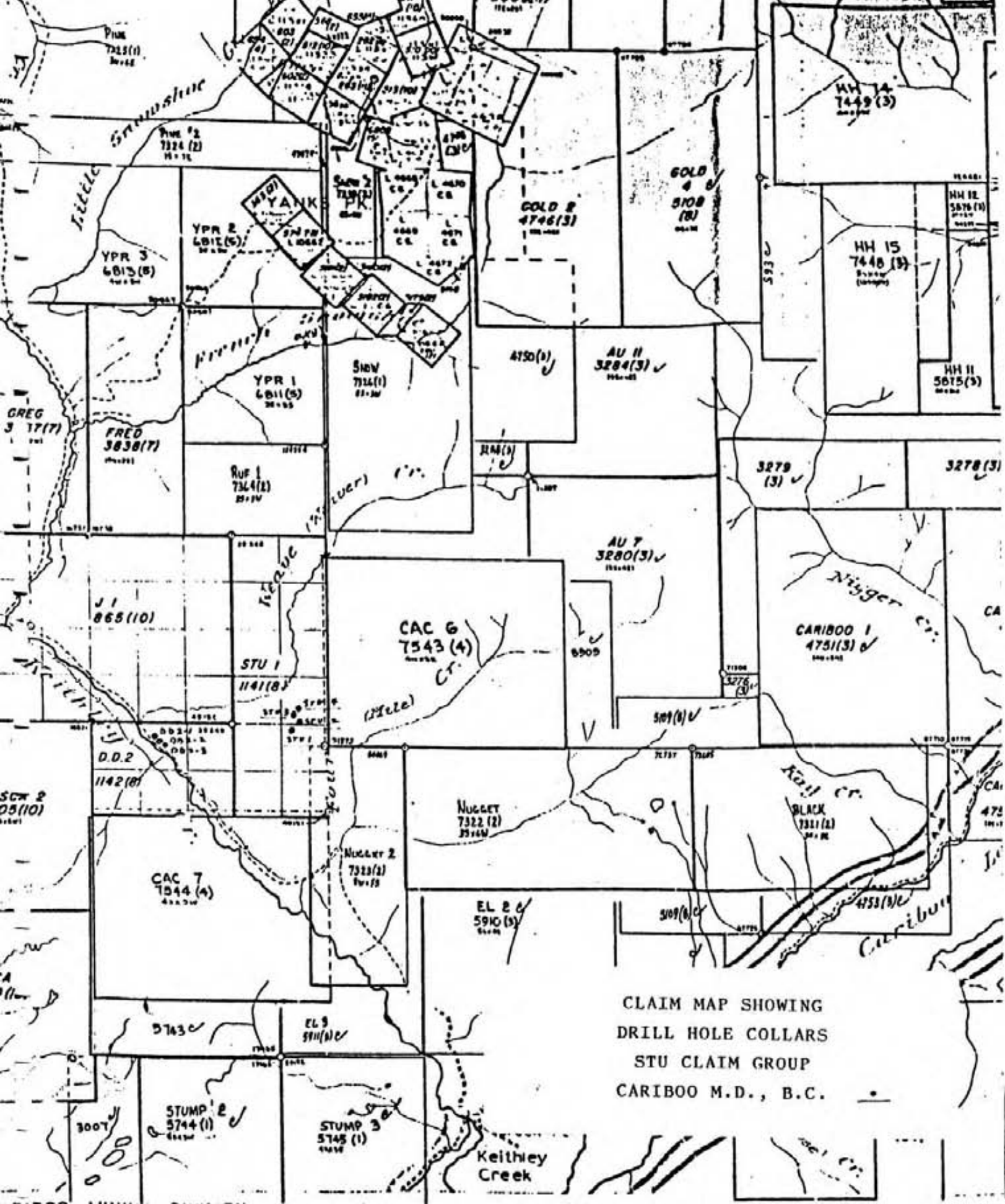
5. This report is based on facts resulting from personal investigations and from investigations carried out by previous Consulting Geologists.

Dated at Vancouver, British Columbia the 11th Day of February 1988

Respectfully Submitted,



Trevor G. Davenport, C.Eng.



CLAIM MAP SHOWING  
 DRILL HOLE COLLARS  
 STU CLAIM GROUP  
 CARIBOO M.D., B.C.

To: Cascadia Mines and Resources Ltd  
 #615 - 736 Granville Street  
 Vancouver, B.C.  
 V6Z 1G3

File: 7813

Date: 08-Oct-87

Attention: Dorothy Dennis

CERTIFICATE OF ANALYSIS

Sample Number	Gold ppm Au	Silver ppm Ag	From - To metres	Sample length metres	Remarks
1 STU 1 13051	0.005	0.2	1.22-3.17	1.95	disseminated
2 13052	0.005	0.2	3.9-4.9	1.0	pyrite
3 13053	0.005	0.2	10.6-11.6	1.0	..
4 13054	0.005	0.2	13.2-15.0	1.8	..
5 13055	0.005	0.2	16.5-18.3	1.8	..
6 13056	0.005	0.2	22.5-23.0	0.5	..
7 13057	0.005	0.2	23.5-25.5	2.0	some gte
8 13058	0.005	0.2	25.5-27.5	2.0	sulphides
9 13063	0.005	0.2	28.5-36.9	2.4	..
10 13064	0.005	0.2	39.9-42.2	2.3	..
11 13066	0.005	0.2	45.6-47.6	2.0	..
12 13069	0.005	0.2	51.6-53.6	2.0	..
13 13070	0.005	0.2	53.6-55.6	2.0	..
14 13071	0.005	0.2	55.6-57.6	2.0	..
15 13072	0.005	0.2	57.6-59.6	2.0	..
16 13073	0.005	0.2	59.6-61.6	2.0	..
17 13074	0.005	0.2	61.6-63.6	2.0	..
18 13075	0.005	0.2	63.6-65.6	2.0	..
19 13076	0.005	0.2	65.6-67.6	2.0	..
20 13078	0.005	0.2	69.6-72.8	3.2	..
21 13079	0.005	0.2	75.0-76.5	1.5	..
22 13080	0.005	0.2	78.0-80.0	2.0	..
23 13081	0.005	0.2	80.0-82.0	2.0	..
24 13082	0.005	0.2	82.0-84.0	2.0	..
25 13083	0.005	0.2	84.0-86.0	2.0	..
26 13084	0.005	0.2	86.0-88.0	2.0	..
27 13085	0.005	0.2	88.0-90.0	2.0	..
28 13086	0.005	0.2	90.0-92.0	2.0	..
29 13087	0.005	0.2	92.0-94.0	2.0	..
30 13088	0.005	0.2	94.0-96.0	2.0	..

Gold and Silver determined by AA

*K. Kline*  
 provincial assayer

**quanta trace laboratories inc.**

1401-3700 GILMORE WAY, BURNABY, B.C., CANADA, V5G 4M1 TEL: (604) 438-5226

Cascadia Mines and Resources Ltd  
 #615 - 736 Granville Street  
 Vancouver, B.C.  
 V6Z 1G3

File: 7813

Date: 08-Oct-87

Page 2

Attention: Dorothy Dennis

**CERTIFICATE OF ANALYSIS**

Sample Number	Gold ppm Au	Silver ppm Ag	From - to metres	Sample length metres	Remarks
1   STU 1   13089	0.005	0.2	96.0 - 98.0	2.0	disseminated
2     13090	0.005	0.2	98.0 - 100.0	2.0	pyrite
3     13091	0.005	0.2	100.0 - 102.0	2.0	..
4     13092	0.005	0.2	102.0 - 104.0	2.0	..
5     13093	0.005	0.2	104.0 - 106.0	2.0	..
6     13094	0.005	0.2	106.0 - 108.0	2.0	..
7     13095	0.005	0.2	108.5 - 111.0	2.5	..
8     13096	0.005	0.2	111.0 - 112.2	1.2	..
9     13097	0.005	0.2	113.2 - 117.3	2.1	..
10     13098	0.005	0.2	117.3 - 118.9	1.6	..
11   STU 3   13119	0.005	0.2	44.0 - 46.0	2.0	qtz vein
12     13120	0.005	0.2	46.0 - 48.0	2.0	"
13     13121	0.005	0.2	48.0 - 50.0	2.0	disseminated
14     13122	0.005	0.2	50.0 - 52.0	2.0	sulphides
15     13123	0.005	0.2	52.0 - 54.0	2.0	+ some quartz
16     13124	0.005	0.2	54.0 - 58.0	2.0	disseminated
17     13128	0.005	0.2	62.0 - 65.8	3.8	sulphides
18     13130	0.005	0.2	69.0 - 71.0	2.0	"
19     13131	0.005	0.2	71.0 - 73.0	2.0	"
20     13132	0.005	0.2	73.0 - 75.0	2.0	"
21     13133	0.005	0.2	75.0 - 77.0	2.0	..
22     13134	0.005	0.2	77.0 - 79.0	2.0	..
23     13135	0.005	0.2	79.0 - 81.7	2.7	..
24     13136	0.005	0.2	84.7 - 86.2	1.5	..
25     13137	0.005	0.2	87.8 - 90.2	2.4	..
26     13138	0.005	0.2	90.2 - 92.2	2.0	..
27     13139	0.005	0.2	92.2 - 95.0	2.8	..
28     13140	0.005	0.2	95.0 - 97.1	2.1	..
29     13141	0.005	0.2	97.1 - 99.7	2.6	..
30     13142	0.005	0.2	99.7 - 102.3	2.6	..

Gold and Silver determined by AA

*W. J. ...*  
 provincial assayer

**quanta trace laboratories inc.**

#401-3700 GILMORE WAY, BURNABY, B.C., CANADA, V5G 4M1 TEL: (604) 438-5226

Cascadia Mines and Resources Ltd  
 #615 - 736 Granville Street  
 Vancouver, B.C.  
 V6Z 1G3

File: 7813

Date: 08-Oct-87

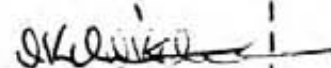
Page 3

Attention: Dorothy Dennis

**CERTIFICATE OF ANALYSIS**

Sample Number	Gold ppm Au	Silver ppm Ag	From - To metres	Sample length metres	Remarks
1 STU 3 13143	0.005	0.2	102.3 - 105.5	3.2	disseminated
2 13144	0.005	0.2	105.5 - 107.6	2.1	sulphides
3 13145	0.005	0.2	107.6 - 110.9	3.2	..
4 13146	0.005	0.2	110.8 - 113.0	2.2	..
5 13147	0.005	0.2	113.5 - 115.5	2.0	..
6 13148	0.005	0.2	115.5 - 116.5	2.0	..
7 13149	0.005	0.2	116.5 - 118.9	2.4	..
8 13150	0.005	0.2	119.9 - 122.0	3.1	..
9 13151	0.005	0.2	122.0 - 122.3	0.3	Quartz vein
10 13152	0.005	0.2	122.3 - 124.6	2.3	sulphides
11 13153	0.005	0.2	124.6 - 126.3	1.7	"
12 13154	0.005	0.2	126.3 - 128.3	2.0	"
13 13155	0.005	0.2	128.3 - 130.2	1.9	"
14 13156	0.005	0.2	130.2 - 132.2	2.0	"
15 13157	0.005	0.2	132.2 - 134.5	2.3	"
16 13158	0.005	0.2	134.5 - 137.2	2.7	"
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Gold and Silver determined by AA



provincial assayer

To: Cascadia Mines and Resources Ltd  
 #615 - 736 Granville Street  
 Vancouver, B.C.  
 V6Z 1G3

File: 7870

Date: 19 Oct 87

Attention: Dorothy Dennis

**CERTIFICATE OF ANALYSIS**

	Sample Number	Gold ppm Au	Silver ppm Ag	From - To metres	Sample length metres	Remarks
1	STU 2 13159	0.005	0.2	4.0 - 4.2	0.2	Qtz vein
2	13160	0.005	0.2	4.2 - 6.4	2.2	limonite abundant
3	13161	0.005	0.2	9.3 - 9.5	0.2	Qtz vein
4	13162	0.005	0.2	16.3 - 18.3	2.0	limonite abundant
5	13163	0.005	0.2	18.3 - 21.2	2.9	abundant
6	13164	0.005	0.2	21.3 - 22.9	2.6	"
7	13165	0.005	0.2	22.9 - 23.9	1.0	"
8	13166	0.005	0.2	27.7 - 30.0	2.3	"
9	13167	0.005	0.2	30.0 - 30.8	0.8	"
10	13168	0.005	0.2	30.8 - 33.3	3.5	"
11	13169	0.005	0.2	33.3 - 35.9	2.5	" + sulphides
12	13170	0.005	0.2	35.9 - 37.0	1.1	" "
13	13171	0.005	0.2	42.0 - 44.8	2.8	" "
14	13172	0.005	0.2	45.0 - 47.0	2.0	" "
15	13173	0.005	0.2	50.0 - 52.0	2.0	" "
16	13174	0.005	0.2	53.5 - 54.3	0.8	" "
17	13175	0.005	0.2	54.3 - 56.0	1.7	limonite
18	13176	0.005	0.2	64.0 - 64.5	0.5	Qtz vein
19	13177	0.005	0.2	73.5 - 75.6	2.1	limonite
20	13178	0.005	0.2	78.0 - 80.0	2.0	disseminated sulphides
21	13179	0.005	0.2	80.0 - 81.8	1.8	"
22	13180	0.005	0.2	81.8 - 83.7	1.9	"
23	13181	0.005	0.2	84.7 - 87.4	2.7	"
24	13182	0.005	0.2	102.0 - 104.5	2.5	"
25	13183	0.005	0.2	106.1 - 108.2	2.1	"
26	13184	0.005	0.2	114.0 - 115.0	1.0	"
27	13185	0.005	0.2	117.0 - 118.5	1.5	"
28	13186	0.005	0.2	123.2 - 124.3	1.1	Qtz vein
29	13187	0.005	0.2	125.5 - 127.0	1.5	sulphides
30	13188	0.005	0.2	128.0 - 129.2	1.2	"

Gold and Silver determined by AA.

SKL  
 provincial assayer

To: Cascadia Mines and Resources Ltd  
 #615 - 736 Granville Street  
 Vancouver, B.C.  
 V6Z 1G3

File: 7870

Date: 19 Oct 87

Page 2

Attention: Dorothy Dennis

CERTIFICATE OF ANALYSIS

	Sample Number	Gold ppm Au	Silver ppm Ag	From - To metres	Sample length metres	Remarks
1	STU 4 13189	0.005	0.2	70 - 80	1.0	limonite
2	13190	0.005	0.2	12.0 - 13.0	1.0	"
3	13191	0.005	0.2	16.2 - 17.0	0.8	"
4	13192	0.005	0.2	34.0 - 36.0	2.0	"
5	13193	0.005	0.2	36.0 - 38.0	2.0	"
6	13194	0.005	0.2	38.4 - 41.0	2.6	sulphides +
7	13195	0.005	0.2	41.0 - 43.0	2.0	limonite
8	13196	0.005	0.2	58.0 - 60.0	2.0	sulphides
9	13197	0.005	0.2	63.0 - 65.0	2.0	"
10	13198	0.005	0.2	67.9 - 68.2	0.3	Qtz vein
11	13199	0.005	0.2	69.0 - 71.0	2.0	dissm. sulphides
12	13200	0.005	0.2	71.0 - 73.0	2.0	"
13	13201	0.005	0.2	73.0 - 75.2	2.2	"
14	13202	0.005	0.2	75.2 - 77.2	2.0	"
15	13203	0.005	0.2	77.2 - 80.0	2.8	"
16	13204	0.005	0.2	84.8 - 87.0	2.2	"
17	13205	0.005	0.2	91.0 - 93.0	2.0	"
18	13206	0.005	0.2	93.0 - 94.5	1.5	"
19	13207	0.005	0.2	95.5 - 97.3	1.8	"
20	13208	0.005	0.2	102.0 - 104.3	2.3	"
Fire Assay						
21	Rock OH-1	0.005	0.2	0.01		
22	OH-2	10.0	4.6	9.73		
23	OH-3	0.030	0.2	0.04		
24	OH-4	0.22	0.2	0.25		
25	OH-5	0.005	0.2	0.01		
26	OH-6	0.030	0.2	0.11		
27	OH-7	0.015	0.2	0.03		
28	OH-8	0.030	0.2	0.04		
29	OH-9	0.005	0.2	0.01		
30	OH-10	0.010	0.2	0.02		

Gold and Silver determined by AA.  
 Anomalies confirmed by Fire Assay

*[Signature]*  
 provincial assayer



quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

Client: Cascadia Mines and Resources Ltd

W/O: 7390 Page 2

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-1	S-2	S-3	S-4	S-5
Lab Reference #	7390-001	7390-002	7390-003	7390-004	7390-005
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co < 20	< 20	< 20	< 20	< 20
Chromium	Cr 111.	130.	91.	129.	134.
Copper	Cu 30	40	60	30	20
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 50	90	40	80	110
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 108.	120.	121.	122.	119.
Zinc	Zn 80	80	20	70	70
Major Elements					
Aluminum	Al 75300	82500	73600	88200	83600
Barium	Ba 810	890	850	880	790
Calcium	Ca 3700	4600	3600	4200	3400
Iron	Fe 35700	37500	14200	35900	34100
Potassium	K 22400	23800	23500	25600	24900
Magnesium	Mg 8400	7200	4400	9100	8600
Manganese	Mn 440	910	190	460	440
Sodium	Na 6400	6000	7000	6500	7000
Phosphorus	P 300	600	200	400	300
Silicon	Si 316000	316000	317000	304000	309000
Strontium	Sr 70	80	80	80	80
Titanium	Ti 5730	4710	5900	4770	4980
Zirconium	Zr 140	110	120	130	120
Precious Metals by Fire Assay					
Silver	Ag 0.6	1.2	0.6	0.8	0.6
Gold	Au 0.14	0.10	0.10	3.23	0.38
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt < 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

78 soil samples  
from Weaver Creek Area

0.102/tonne

**quanta trace laboratories inc.**

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

Client: Cascadia Mines and Resources Ltd

W/O: 7390 Page 3

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-6	S-7	S-8	S-9	S-10
Lab Reference #	7390-006	7390-007	7390-008	7390-009	7390-010
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co < 20	< 20	< 20	< 20	< 20
Chromium	Cr 129.	145.	95.	118.	141.
Copper	Cu 40	30	30	30	330
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 70	200	70	80	210
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 114.	108.	71.	97.	84.
Zinc	Zn 70	70	50	50	70
Major Elements					
Aluminum	Al 86900	80700	66700	84400	76500
Barium	Ba 780	720	440	710	620
Calcium	Ca 4200	5200	6000	3500	3700
Iron	Fe 39800	39300	31900	37000	36200
Potassium	K 26500	23600	18700	26200	25300
Magnesium	Mg 9300	8800	9600	9600	9300
Manganese	Mn 510	550	340	360	440
Sodium	Na 7200	6900	10100	7500	7700
Phosphorus	P 300	300	300	300	310
Silicon	Si 298000	301000	317000	295000	296000
Strontium	Sr 80	80	90	80	70
Titanium	Ti 4740	4800	6570	4650	4640
Zirconium	Zr 110	130	140	100	120
Precious Metals by Fire Assay					
Silver	Ag 0.6	0.6	0.2	0.2	0.4
Gold	Au 0.15	0.03	0.04	0.01	0.03
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt < 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

W/O: 7390 Page 4

Sample type		Soil	Soil	Soil	Soil	Soil
Identification		S-11	S-12	S-13	S-14	S-15
Lab Reference #		7390-011	7390-012	7390-013	7390-014	7390-015
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	< 20	< 20	< 20
Chromium	Cr	128.	117.	147.	128.	124.
Copper	Cu	20	20	60	100	40
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	110	70	140	130	100
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	90.	108.	140.	118.	123.
Zinc	Zn	50	90	120	90	110
Major Elements						
Aluminum	Al	82400	81700	90600	90000	92500
Barium	Ba	740	880	1060	920	990
Calcium	Ca	3900	2700	2000	3900	2500
Iron	Fe	32400	38500	48800	37000	43900
Potassium	K	25300	27400	30600	27400	29500
Magnesium	Mg	9600	8600	9900	9100	9900
Manganese	Mn	880	450	200	510	590
Sodium	Na	7900	7300	6200	6600	6500
Phosphorus	P	300	< 200	500	400	< 200
Silicon	Si	306000	312000	286000	299000	306000
Strontium	Sr	70	70	70	70	80
Titanium	Ti	4740	5320	4660	4770	5070
Zirconium	Zr	90	120	80	80	110
Precious Metals by Fire Assay						
Silver	Ag	0.6	0.4	0.8	1.4	0.2
Gold	Au	0.05	0.01	0.03	0.16	0.10
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	< 0.02	< 0.02	< 0.02	0.03	0.03
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

W/O: 7390 Page 5

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-16	S-17	S-18	S-19	S-20
Lab Reference #	7390-016	7390-017	7390-018	7390-019	7390-020
Method Used	Analyzed by Plasma Emission Spectroscopy (ICAP) fusion				
<b>Trace Elements</b>					
Beryllium	Be	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	< 20	< 20
Chromium	Cr	109.	120.	113.	107.
Copper	Cu	50	70	100	100
Molybdenum	Mo	< 30	< 30	< 30	< 30
Nickel	Ni	100	90	70	70
Uranium	U	< 300	< 300	< 300	< 300
Vanadium	V	107.	140.	155.	114.
Zinc	Zn	80	70	60	70
<b>Major Elements</b>					
Aluminum	Al	79600	91000	88700	83700
Barium	Ba	880	1050	1220	950
Calcium	Ca	2000	1900	2000	3300
Iron	Fe	35300	41200	32900	36700
Potassium	K	24800	29100	30100	24800
Magnesium	Mg	7200	7700	7400	8300
Manganese	Mn	310	530	340	640
Sodium	Na	6700	5800	5400	6100
Phosphorus	P	300	800	500	600
Silicon	Si	327000	305000	318000	315000
Strontium	Sr	70	70	80	80
Titanium	Ti	5310	4940	5370	5080
Zirconium	Zr	140	90	70	110
<b>Precious Metals by Fire Assay</b>					
Silver	Ag	0.4	0.6	0.4	0.6
Gold	Au	< 0.01	0.13	0.18	< 0.01
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.03	0.02	0.02	0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

to: Cascadia Mines and Resources Ltd

W/D: 7390 Page 6

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-21	S-22	S-23	S-24	S-25
Lab Reference #	7390-021	7390-022	7390-023	7390-024	7390-025
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co < 20	< 20	< 20	< 20	< 20
Chromium	Cr 107.	110.	128.	130.	142.
Copper	Cu 30	60	90	70	70
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 90	90	90	100	150
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 88.	112.	111.	159.	151.
Zinc	Zn 50	60	100	80	90
Major Elements					
Aluminum	Al 74800	76700	83300	98200	90300
Barium	Ba 650	870	900	1290	1140
Calcium	Ca 3300	2100	1600	1800	1900
Iron	Fe 34600	36400	38000	42900	40500
Potassium	K 22300	23300	27100	32200	29300
Magnesium	Mg 9200	7000	7800	7800	7800
Manganese	Mn 400	400	430	350	290
Sodium	Na 7500	6100	6800	5100	5800
Phosphorus	P < 200	200	< 200	300	400
Silicon	Si 318000	321000	323000	297000	310000
Strontium	Sr 70	70	70	80	70
Titanium	Ti 5480	5300	5320	4980	5070
Zirconium	Zr 140	110	160	100	160
Precious Metals by Fire Assay					
Silver	Ag 0.2	0.4	0.2	0.2	0.6
Gold	Au < 0.01	1.44	< 0.01	0.73	< 0.01
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt 0.03	0.02	0.02	0.03	< 0.02
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

0.05 oz/tonne

0.02 o/t

17...

**quanta trace laboratories inc.**

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

W/O: 7390 Page 7

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-26	S-27	S-28	S-29	S-30
Lab Reference #	7390-026	7390-027	7390-028	7390-029	7390-030
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	20	20	20	20
Chromium	Cr	140.	136.	120.	134
Copper	Cu	130	110	80	70
Molybdenum	Mo	< 30	< 30	< 30	< 30
Nickel	Ni	150	120	140	130
Uranium	U	< 300	< 300	< 300	< 300
Vanadium	V	144.	153.	130.	137
Zinc	Zn	200	110	100	110
Major Elements					
Aluminum	Al	88300	92400	82000	85600
Barium	Ba	1100	1160	1040	1090
Calcium	Ca	2200	2200	2500	3200
Iron	Fe	39400	41800	38000	35500
Potassium	K	27400	29700	25600	27200
Magnesium	Mg	8200	8300	8400	77800
Manganese	Mn	480	380	400	480
Sodium	Na	6000	5800	5900	6100
Phosphorus	P	500	500	300	400
Silicon	Si	315000	299000	325000	330000
Strontium	Sr	70	80	70	80
Titanium	Ti	5210	5010	5610	5840
Zirconium	Zr	150	130	160	160
Precious Metals by Fire Assay					
Silver	Ag	0.4	0.4	0.4	0.4
Gold	Au	< 0.01	< 0.01	< 0.01	< 0.01
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	< 0.02	0.03	0.03	< 0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm

**quanta trace laboratories inc.**

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5111

to: Cascadia Mines and Resources Ltd

W/O: 7390 Page

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-31	S-32	S-33	S-34	S-35
Lab Reference #	7390-031	7390-032	7390-033	7390-034	7390-035
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
<b>Trace Elements</b>					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co < 20	< 20	< 20	< 20	< 20
Chromium	Cr 141.	110.	139.	115.	129.
Copper	Cu 90	40	30	50	60
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 200	70	160	150	150
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 136.	138.	160.	112.	144.
Zinc	Zn 90	80	130	100	110
<b>Major Elements</b>					
Aluminum	Al 79300	80700	94700	74500	85900
Barium	Ba 960	1150	1290	890	1160
Calcium	Ca 2100	2700	4700	3300	2800
Iron	Fe 36900	40500	43000	34900	37700
Potassium	K 24700	27200	33100	26000	31300
Magnesium	Mg 8000	7600	9100	7700	8300
Manganese	Mn 260	230	650	480	560
Sodium	Na 5700	5400	6400	7500	7100
Phosphorus	P 500	1200	900	700	700
Silicon	Si 310000	315000	286000	340000	313000
Strontium	Sr 70	80	90	80	80
Titanium	Ti 5340	3610	5120	5650	5310
Zirconium	Zr 150	60	160	240	250
<b>Precious Metals by Fire Assay</b>					
Silver	Ag 0.4	0.4	0.4	0.2	0.2
Gold	Au < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt 0.02	0.02	0.02	< 0.02	0.03
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

W/O: 7390 Page 9

Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-36	S-37	S-38	S-39	S-40
Lab Reference #	7390-036	7390-037	7390-038	7390-039	7390-040
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	< 20	< 20
Chromium	Cr	117.	116.	120.	113.
Copper	Cu	90	70	60	70
Molybdenum	Mo	< 30	< 30	< 30	< 30
Nickel	Ni	130	110	110	100
Uranium	U	< 300	< 300	< 300	< 300
Vanadium	V	136.	144.	152.	144.
Zinc	Zn	110	100	120	90
Major Elements					
Aluminum	Al	83400	89000	86200	91300
Barium	Ba	1100	1270	1300	1370
Calcium	Ca	2800	2400	3200	2900
Iron	Fe	38200	39900	40700	38100
Potassium	K	29700	33600	30600	37400
Magnesium	Mg	7600	8300	8500	8700
Manganese	Mn	470	510	650	340
Sodium	Na	6900	6700	6300	7900
Phosphorus	P	800	1000	1100	1100
Silicon	Si	303000	294000	305000	291000
Strontium	Sr	80	80	80	80
Titanium	Ti	5170	4870	4880	4920
Zirconium	Zr	220	200	220	230
Precious Metals by Fire Assay					
Silver	Ag	0.4	0.4	0.8	0.6
Gold	Au	< 0.01	< 0.01	< 0.01	< 0.01
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.03	0.03	0.04	0.03
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm

0.04 oz/t



**quanta trace laboratories inc.**

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

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Sample type		Soil	Soil	Soil	Soil	Soil
Identification		S-41	S-42	S-43	S-44	S-45
Lab Reference #		7390-041	7390-042	7390-043	7390-044	7390-045
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
<b>Trace Elements</b>						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	20	< 20	< 20	< 20	30
Chromium	Cr	136.	106.	123.	122.	127.
Cooper	Cu	20	20	20	20	70
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	150	110	130	130	180
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	147.	121.	135.	133.	128.
Zinc	Zn	90	70	80	100	130
<b>Major Elements</b>						
Aluminum	Al	80800	71200	78600	77100	78400
Barium	Ba	1150	870	930	970	900
Calcium	Ca	2300	2400	2000	3300	3800
Iron	Fe	32500	32900	34400	38200	32300
Potassium	K	32000	28600	34600	34900	32100
Magnesium	Mg	6800	5400	6300	6400	8200
Manganese	Mn	260	220	230	310	370
Sodium	Na	6900	7300	8100	7600	9600
Phosphorus	P	700	700	500	800	500
Silicon	Si	1309000	1317000	1302000	1315000	1314000
Strontium	Sr	80	80	70	70	90
Titanium	Ti	5130	5340	5220	4830	5230
Zirconium	Zr	200	170	180	130	170
<b>Precious Metals by Fire Assay</b>						
Silver	Ag	0.2	0.2	0.2	0.6	0.4
Gold	Au	0.08	< 0.01	0.07	0.19	0.20
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.02	0.02	0.03	0.04	0.04
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

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#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5226

To: Cascadia Mines and Resources Ltd

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Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-46	S-47	S-48	S-49	S-50
Lab Reference #	7390-046	7390-047	7390-048	7390-049	7390-050
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co 30	30	30	30	20
Chromium	Cr 125.	126.	130.	122.	129.
Copper	Cu 40	30	30	20	20
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 140	190	200	130	170
Lead	Pb 60	70	70	70	50
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 132.	126.	116.	114.	113.
Zinc	Zn 110	100	90	90	70
Major Elements					
Aluminum	Al 84700	75200	73300	77300	72700
Barium	Ba 1050	890	790	830	730
Calcium	Ca 2800	3200	4100	3600	2900
Iron	Fe 38400	37200	36200	37200	30800
Potassium	K 38100	33600	31000	33000	32700
Magnesium	Mg 8200	7700	8900	8700	7300
Manganese	Mn 610	440	400	430	270
Sodium	Na 9500	9800	10200	10000	10800
Phosphorus	P 600	500	500	600	400
Silicon	Si 291000	306000	304000	296000	305000
Strontium	Sr 80	80	90	80	80
Titanium	Ti 4690	5850	5830	5150	5430
Zirconium	Zr 110	170	160	130	160
Precious Metals by Fire Assay					
Silver	Ag 0.4	0.4	0.2	0.2	0.2
Gold	Au 0.07	0.02	< 0.01	< 0.01	< 0.01
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt 0.05*	0.03	0.04	0.03	0.03
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

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Sample type		Soil	Soil	Soil	Soil	Soil
Identification		S-51	S-52	S-53	S-54	S-55
Lab Reference #		7390-051	7390-052	7390-053	7390-054	7390-055
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	20	30	20
Chromium	Cr	111.	112.	120.	131.	126.
Copper	Cu	20	20	20	30	90
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	130	130	120	150	170
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	109.	111.	127.	132.	127.
Zinc	Zn	100	60	80	90	110
Major Elements						
Aluminum	Al	76600	68200	78100	83400	80100
Barium	Ba	800	690	830	920	890
Calcium	Ca	3500	2300	3900	3500	3200
Iron	Fe	37100	37300	33300	35600	32900
Potassium	K	34000	29400	34800	39900	40300
Magnesium	Mg	7300	5700	6700	7200	6800
Manganese	Mn	680	140	320	470	330
Sodium	Na	9400	8800	10100	10000	10900
Phosphorus	P	700	600	600	500	400
Silicon	Si	296000	309000	300000	294000	295000
Strontium	Sr	80	70	90	90	80
Titanium	Ti	4390	5360	5310	4830	4980
Zirconium	Zr	180	180	180	170	110
Precious Metals by Fire Assay						
Silver	Ag	0.4	0.4	0.8	0.6	0.2
Gold	Au	< 0.01	< 0.01	< 0.01	< 0.01	0.05
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.04	0.03	0.02	0.03	0.04
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

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Sample type		Soil	Soil	Soil	Soil	Soil
Identification		S-56	S-57	S-58	S-59	S-60
Lab Reference #		7390-056	7390-057	7390-058	7390-059	7390-060
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	20	30	30	< 20	< 20
Chromium	Cr	102.	108.	103.	98.	97.
Copper	Cu	130	90	280	130	50
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	140	260	100	100	120
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	123.	141.	146.	129.	130.
Zinc	Zn	90	180	120	100	80
Major Elements						
Aluminum	Al	75700	80600	80200	82200	75700
Barium	Ba	780	960	1020	960	940
Calcium	Ca	2000	2400	3400	2900	3000
Iron	Fe	31400	36000	32100	32900	28800
Potassium	K	36300	25000	21600	22700	22300
Magnesium	Mg	6200	7200	7000	7300	6700
Manganese	Mn	230	460	1070	350	370
Sodium	Na	10400	6500	5200	5400	5700
Phosphorus	P	300	800	900	1000	700
Silicon	Si	299000	319000	317000	306000	319000
Strontium	Sr	70	80	80	80	80
Titanium	Ti	4870	5080	4810	4790	4970
Zirconium	Zr	110	180	180	110	160
Precious Metals by Fire Assay						
Silver	Ag	0.2	0.2	0.8	0.6	0.4
Gold	Au	0.02	< 0.01	< 0.01	< 0.01	0.02
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.02	0.03	0.02	0.02	< 0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

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Sample type		Soil	Soil	Soil	Soil	Soil
Identification		S-61	S-62	S-63	S-64	S-65
Lab Reference #		7390-061	7390-062	7390-063	7390-064	7390-065
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cadmium	Cd	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	< 20	< 20	20
Chromium	Cr	109.	109.	121.	76.	104.
Copper	Cu	90	80	60	70	50
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	190	100	210	80	90
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	133.	130.	143.	109.	128.
Zinc	Zn	70	90	100	50	90
Major Elements						
Aluminum	Al	79300	81000	83900	78500	81600
Barium	Ba	940	980	1140	760	950
Calcium	Ca	2600	3300	2200	3700	3100
Iron	Fe	31000	45300	38400	23000	34200
Potassium	K	22900	25300	27300	21100	25400
Magnesium	Mg	6400	9500	8400	4700	7100
Manganese	Mn	250	320	400	380	1130
Sodium	Na	5800	6000	6100	7200	6200
Phosphorus	P	500	800	400	500	900
Silicon	Si	311000	306000	325000	344000	303000
Strontium	Sr	80	80	80	90	80
Titanium	Ti	5130	5630	5560	6380	4880
Zirconium	Zr	130	150	160	170	110
Precious Metals by Fire Assay						
Silver	Ag	0.6	0.2	0.2	0.4	1.0
Gold	Au	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.02	0.02	< 0.02	< 0.02	< 0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

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Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-66	S-67A	S-67B	S-68	S-69
Lab Reference #	7390-066	7390-067A	7390-067B	7390-068	7390-069
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
<b>Trace Elements</b>					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co < 20	20	< 20	20	< 20
Chromium	Cr 105.	108.	105.	111.	86.
Cooper	Cu 90	100	90	90	100
Molybdenum	Mo < 30	< 30	< 30	< 30	< 30
Nickel	Ni 140	100	120	110	90
Uranium	U < 300	< 300	< 300	< 300	< 300
Vanadium	V 121.	128.	117.	140.	115.
Zinc	Zn 90	100	80	90	90
<b>Major Elements</b>					
Aluminum	Al 77900	77800	76100	83000	74000
Barium	Ba 910	900	750	970	930
Calcium	Ca 3600	4300	4100	3700	3700
Iron	Fe 29800	31300	33600	36800	30400
Potassium	K 25200	24300	22100	25900	24000
Magnesium	Mg 7000	6700	7900	7500	6700
Manganese	Mn 560	850	420	630	560
Sodium	Na 5900	5900	6600	6100	5900
Phosphorus	P 900	1100	700	900	700
Silicon	Si 312000	312000	326000	309000	319000
Strontium	Sr 80	90	100	90	80
Titanium	Ti 4600	4740	5930	5310	5380
Zirconium	Zr 120	160	170	140	130
<b>Precious Metals by Fire Assay</b>					
Silver	Ag 1.0	0.4	0.4	0.6	0.4
Gold	Au < 0.01	< 0.01	0.05	< 0.01	0.01
Palladium	Pd < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt < 0.02	0.03	0.03	0.02	< 0.02
Rhodium	Rh < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

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Sample type	Soil	Soil	Soil	Soil	Soil
Identification	S-70	S-71	S-72	S-73	S-74
Lab Reference #	7390-070	7390-071	7390-072	7390-073	7390-074
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
<b>Trace Elements</b>					
Beryllium	Be   < 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co   < 20	< 20	< 20	< 20	< 20
Chromium	Cr   107.	92.	98.	103.	128.
Copper	Cu   70	60	60	70	60
Molybdenum	Mo   < 30	< 30	< 30	< 30	< 30
Nickel	Ni   150	90	90	120	90
Uranium	U   < 300	< 300	< 300	< 300	< 300
Vanadium	V   127.	120.	125.	132.	182.
Zinc	Zn   100	70	80	90	80
<b>Major Elements</b>					
Aluminum	Al   77000	75700	75700	81000	91200
Barium	Ba   950	930	920	1000	1180
Calcium	Ca   3000	2900	2500	2100	2100
Iron	Fe   42600	34700	36600	35300	45000
Potassium	K   24900	23600	23800	26000	31100
Magnesium	Mg   7800	6800	7500	7300	6700
Manganese	Mn   320	390	360	430	310
Sodium	Na   5600	6000	6000	6300	4500
Phosphorus	P   1300	1000	900	500	1400
Silicon	Si   317000	327000	330000	327000	302000
Strontium	Sr   70	80	70	80	80
Titanium	Ti   5560	5750	5770	5390	3690
Zirconium	Zr   150	140	180	200	80
<b>Precious Metals by Fire Assay</b>					
Silver	Ag   0.6	0.6	0.4	0.2	1.6
Gold	Au   < 0.01	< 0.01	< 0.01	< 0.01	0.02
Palladium	Pd   < 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt   0.02	< 0.02	< 0.02	< 0.02	0.03
Rhodium	Rh   < 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in	ppm	ppm	ppm	ppm	ppm

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To: Cascadia Mines and Resources Ltd

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Sample type	Soil	Soil	Soil	Rock UM-1	Rock UM-1
Identification	S-75	S-76	S-77		Certified
Lab Reference #	7390-075	7390-076	7390-077	7390-078	7390-079
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be < 5.	< 5.	< 5.	< 5.	-
Cobalt	Co < 20	30	30	356	362
Chromium	Cr 90.	130.	121.	2980.	3100
Copper	Cu 60	30	30	4010	4100
Molybdenum	Mo < 30	30	< 30	< 30	-
Nickel	Ni 100	380	140	9410	9600
Uranium	U < 300	400	400	< 300	-
Vanadium	V 125.	151.	145.	16.	-
Zinc	Zn 60	90	90	100	97
Major Elements					
Aluminum	Al 77400	79800	81400	4980	5300
Barium	Ba 960	1000	1010	20	-
Calcium	Ca 2300	1300	2100	16100	16700
Iron	Fe 30100	44200	38300	138000	133600
Potassium	K 25000	26000	25800	< 500	300
Magnesium	Mg 5700	6400	6300	224000	217200
Manganese	Mn 460	270	320	1210	1240
Sodium	Na 6100	5300	6000	600	600
Phosphorus	P 600	500	800	< 200	< 50
Silicon	Si 314000	308000	302000	180000	175700
Strontium	Sr 80	60	70	10	-
Titanium	Ti 5300	5090	5290	570	599
Zirconium	Zr 150	220	200	50	-
Precious Metals by Fire Assay					
Silver	Ag 0.2	0.2	0.2	-	-
Gold	Au < 0.01	< 0.01	< 0.01	-	-
Palladium	Pd < 0.01	< 0.01	< 0.01	-	-
Platinum	Pt < 0.02	0.03	0.02	-	-
Rhodium	Rh < 0.03	< 0.03	< 0.03	-	-
Results in	oom	oom	oom	oom	oom



quanta trace laboratories inc.

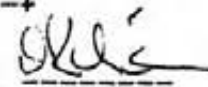
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To: Cascadia Mines and Resources Ltd

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Sample type	Rock UM-4	Rock UM-4	Soil GXR3	Soil GXR3
Identification		Certified		Certified
Lab Reference #	7390-080	7390-081	7390-082	7390-083
Analyzed by Plasma Emission Spectroscopy (ICAP)				
Method Used	fusion	fusion	fusion	fusion
Trace Elements				
Beryllium	Be   < 5.	-	26.	26.
Cobalt	Co   120	108	50	48
Chromium	Cr   16400.	17700	22	19.
Copper	Cu   590	580	17	11
Molybdenum	Mo   < 30	-	< 30	< 6
Nickel	Ni   2340	2500	52	55
Uranium	U   < 300	-	< 300	3.1
Vanadium	V   163.	-	33.	39.
Zinc	Zn   60	63	210	220
Major Elements				
Aluminum	Al   46500	47500	65700	65100
Barium	Ba   20	-	4630	4696
Calcium	Ca   43200	44800	140000	140700
Iron	Fe   21700	99400	187000	180600
Potassium	K   1300	1500	7300	6700
Magnesium	Mg   135000	135500	6200	6400
Manganese	Mn   1050	1160	22700	22300
Sodium	Na   3300	3300	7700	7800
Phosphorus	P   < 200	87	1400	-
Silicon	Si   184000	183900	60600	61200
Strontium	Sr   10	-	1130	1135
Titanium	Ti   1980	2100	1190	1000
Zirconium	Zr   < 10	-	177	< 200
Precious Metals by Fire Assay				
Silver	Ag   -	-	-	-
Gold	Au   -	-	-	-
Palladium	Pd   -	-	-	-
Platinum	Pt   -	-	-	-
Rhodium	Rh   -	-	-	-
Results in	oom	oom	oom	oom

Analyst: 

To: Cascadia Mines and Resources Ltd

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Sample type		Soil	Soil	Soil	Soil	Soil
Identification		27687L-10	27687L-11	27687L-12	27687L-13	27687L-14
Lab Reference #		7389-001	7389-002	7389-003	7389-004	7389-005
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	< 20	< 20	< 20
Chromium	Cr	114.	133.	153.	139.	157.
Copper	Cu	50	170	90	90	170
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	35	40	130	80	110
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	137.	135.	128.	140.	141.
Zinc	Zn	80	100	120	120	130
Major Elements						
Aluminum	Al	66900	69300	73800	81000	79200
Barium	Ba	737.	824.	799.	900.	967.
Calcium	Ca	1900	1200	1600	2600	2500
Iron	Fe	35500	49200	40100	41900	42900
Potassium	K	24300	26100	28100	31800	31100
Magnesium	Mg	5300	7400	7100	8400	9100
Manganese	Mn	385.	327.	321.	430.	623.
Sodium	Na	6100	5700	6100	6500	6300
Phosphorus	P	800	700	1000	600	500
Silicon	Si	295000	299000	288000	276000	286000
Strontium	Sr	70.	60.	68.	84.	79.
Titanium	Ti	6290	5160	5540	5380	5000
Zirconium	Zr	150	140	140	150	120
Precious Metals by Fire Assay						
Silver	Ag	0.4	0.4	0.6	0.4	0.2
Gold	Au	0.06	0.07	0.07	0.06	0.05
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.02	0.02	0.02	0.02	0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

21 Soil Samples

Traverse from Weaver Creek area

**quanta trace laboratories inc.**

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-52

To: Cascadia Mines and Resources Ltd

W/O: 7389 Page

Sample type		Soil	Soil	Soil	Soil	Soil
Identification		27687L-15	27687L-16	27687L-17	27687L-18	27687L-19
Lab Reference #		7389-006	7389-007	7389-008	7389-009	7389-010
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	40	20	20	20	20
Chromium	Cr	250.	146.	141.	153.	136.
Copper	Cu	280	150	70	150	240
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	720	80	70	70	60
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	176.	139.	143.	130.	124.
Zinc	Zn	140	130	120	100	120
Major Elements						
Aluminum	Al	91200	83600	77700	79600	81500
Barium	Ba	1090	959.	930.	946.	891.
Calcium	Ca	3300	1900	2900	1600	2700
Iron	Fe	51700	49200	45800	42800	46000
Potassium	K	32600	32800	28800	32300	31600
Magnesium	Mg	8400	8900	6800	9000	7700
Manganese	Mn	2160	683.	851.	591.	714.
Sodium	Na	4800	5600	5500	6300	6400
Phosphorus	P	1100	700	900	500	900
Silicon	Si	272000	301000	298000	300000	289000
Strontium	Sr	85.	72.	80.	70.	86.
Titanium	Ti	3850	5020	4720	5540	5090
Zirconium	Zr	70	150	130	190	50
Precious Metals by Fire Assay						
Silver	Ag	0.8	0.4	0.6	0.2	0.4
Gold	Au	0.10	0.06	0.08	0.10	0.76
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.03	0.02	0.02	0.02	0.03
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-52

To: Cascadia Mines and Resources Ltd

W/O: 7389 Page

Sample type		Soil	Soil	Soil	Soil	Soil
Identification		27687L-22	27687L-23	27687L-24	27687L-25	27687L-26
Lab Reference #		7389-011	7389-012	7389-013	7389-014	7389-015
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	30	< 20	30	< 20
Chromium	Cr	152.	163.	156.	163.	144.
Copper	Cu	230	180	110	290	190
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	90	110	60	180	80
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	129.	140.	142.	137.	115.
Zinc	Zn	120	140	120	190	130
Major Elements						
Aluminum	Al	84600	88800	89400	82500	85700
Barium	Ba	906.	991.	1000	896.	979.
Calcium	Ca	2500	3500	2800	4500	2200
Iron	Fe	45700	53100	48700	47600	46600
Potassium	K	32900	33100	35000	30900	34400
Magnesium	Mg	9100	9100	9500	8500	9300
Manganese	Mn	901.	1570	755.	1310	834.
Sodium	Na	6100	4900	5600	5200	6200
Phosphorus	P	900	1000	1000	1000	600
Silicon	Si	291000	285000	298000	299000	299000
Strontium	Sr	80.	86.	83.	90.	82.
Titanium	Ti	4940	3770	4480	4310	5160
Zirconium	Zr	70	20	40	10	120
Precious Metals by Fire Assay						
Silver	Ag	0.4	0.6	0.6	0.8	0.2
Gold	Au	0.09	0.01	0.12	0.07	1.76
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.06	0.03	0.04	0.02	0.03
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5221

To: Cascadia Mines and Resources Ltd

W/D: 7389 Page :

Sample type		Soil	Soil	Soil	Soil	Soil
Identification		27687L-27	27687L-28	27687L-29	27687L-30	27687L-31
Lab Reference #		7389-016	7389-017	7389-018	7389-019	7389-020
Analyzed by Plasma Emission Spectroscopy (ICAP)						
Method Used		fusion	fusion	fusion	fusion	fusion
Trace Elements						
Beryllium	Be	< 5.	< 5.	< 5.	< 5.	< 5.
Cobalt	Co	< 20	< 20	20	< 20	< 20
Chromium	Cr	209.	142.	135.	160.	140.
Copper	Cu	30	110	120	130	140
Molybdenum	Mo	< 30	< 30	< 30	< 30	< 30
Nickel	Ni	710	35	110	170	110
Uranium	U	< 300	< 300	< 300	< 300	< 300
Vanadium	V	91.	127.	126.	119.	130.
Zinc	Zn	80	100	110	80	120
Major Elements						
Aluminum	Al	79000	82100	70500	74500	73400
Barium	Ba	818.	945.	848.	827.	1000
Calcium	Ca	1600	1400	2000	1200	1200
Iron	Fe	38200	40700	36700	45700	35000
Potassium	K	31500	35800	26200	29900	30100
Magnesium	Mg	9000	8900	6200	7300	7000
Manganese	Mn	353.	359.	534.	348.	318.
Sodium	Na	6600	6500	6500	6200	6600
Phosphorus	P	700	500	500	900	500
Silicon	Si	1316000	1308000	1309000	1308000	1321000
Strontium	Sr	70.	71.	71.	64.	61.
Titanium	Ti	5780	5310	4850	5540	5570
Zirconium	Zr	140	170	150	180	220
Precious Metals by Fire Assay						
Silver	Ag	0.4	0.2	0.4	0.2	0.2
Gold	Au	0.07	0.07	0.31	0.23	0.17
Palladium	Pd	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Platinum	Pt	0.03	0.02	0.02	0.02	0.02
Rhodium	Rh	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Results in		ppm	ppm	ppm	ppm	ppm

quanta trace laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1

Tel: (604) 438-5200

To: Cascadia Mines and Resources Ltd

W/O: 7389 Page

Sample type	Soil	Rock	Rock	Rock	Rock
Identification	27687L-32	UM-1	Certified	GXR-3	Certified
Lab Reference #	7389-021	7389-022	7389-022	7389-024	7389-024
Analyzed by Plasma Emission Spectroscopy (ICAP)					
Method Used	fusion	fusion	fusion	fusion	fusion
Trace Elements					
Beryllium	Be   < 5.	< 5.	-	24.	26.
Cobalt	Co   < 20	340	362	50	48
Chromium	Cr   156.	2920	3100	40	19.
Copper	Cu   140	4020	4100	210	11
Molybdenum	Mo   < 30	< 30	-	< 30	< 6
Nickel	Ni   70	9300	9600	70	55
Uranium	U   < 300	< 300	-	< 300	3.1
Vanadium	V   119.	12.	-	34.	39.
Zinc	Zn   120	100	97	200	220
Major Elements					
Aluminum	Al   74800	5110	5300	66300	65100
Barium	Ba   800.	10.	-	4680	4696
Calcium	Ca   1600	15700	16700	140000	140700
Iron	Fe   45200	1133000	1133600	183000	180600
Potassium	K   27000	< 500	300	7000	6700
Magnesium	Mg   7000	1206000	1217200	6400	6400
Manganese	Mn   273.	1200	1240	21700	22300
Sodium	Na   5800	400	600	7700	7800
Phosphorus	P   900	< 200	< 50	900	-
Silicon	Si   297000	176000	175700	59800	61200
Strontium	Sr   59.	9.	-	1020	1135
Titanium	Ti   5170	413.	599	970	1000
Zirconium	Zr   130	< 10	-	110	< 200
Precious Metals by Fire Assay					
Silver	Ag   0.4	-	-	-	-
Gold	Au   0.31	-	-	-	-
Palladium	Pd   < 0.01	-	-	-	-
Platinum	Pt   0.03	-	-	-	-
Rhodium	Rh   < 0.03	-	-	-	-
Results in	ppm	ppm	ppm	ppm	ppm

Analyst: G.L.L.



DRILL LOG

PAGE 2 OF 5

LENGTH 118.9 m

DRILL BOYLES 37A CORE NQ

HOLE STU-1

STARTING DATE \_\_\_\_\_

CONTRACTOR L. Spence

LOCATION 0+03S - 0+70W

COMPLETION DATE \_\_\_\_\_

DATE LOGGED \_\_\_\_\_

ORIENTATION 320°

SCALE \_\_\_\_\_

LOGGED BY M. Archambault

INCLINATION -60°

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
25.0					chloritic matrix		25.2 congl. 25 cm wide dark green to dark grey gradational gr. size variation from med. gr. (avg. .5mm) to coarse gr. (avg. 1mm) to conglomeratic sandstone with some grains up to 5 mm in diameter	
27.5			Greywacke	slightly foliated 50° to c.a.	limonite stains on some fracture surfaces		27.8 congl. 40 cm wide siltst. 20 cm wide	
30.0								
32.5								
35.0							33.0 congl. 40 cm wide 34.2-34.6 congl. 35 cm wide	
36.9			siltst-schis				36.3 siltstone 10 cm wide	
37.5						qtz pocket at contact flattened py blebs along fractures	fine to med grained, grains generally less than .5 mm	
40.0					chlorite			
42.5			Greywacke with minor siltstone	slightly foliated 40° to c.a.	minor limonite on fracture surfaces	py blebs on fractures (trace)		
45.0							43.8 gradational contact between coarse and med. grained greywacke minor siltstone	
47.5								
50.0							49 to 49.6 conglomerate greywacke	



DRILL LOG

PAGE 3 OF 5

LENGTH 118.9 m

DRILL BOYLES 37A CORE NQ

HOLE SIU-1

STARTING DATE \_\_\_\_\_

CONTRACTOR L. Spence

LOCATION 0+03S - 0+70W

COMPLETION DATE \_\_\_\_\_

DATE LOGGED \_\_\_\_\_

ORIENTATION 320°

SCALE \_\_\_\_\_

LOGGED BY M. Archambault

INCLINATION -60°

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
50.0			greywacke 51.6				50.2-51.3 congl.	
52.5			siltst. with minor greywacke 52.5	foliated 75° to c.a.	limonite on fractures			
55.1			53.75 greywacke	foliated 65° to c.a.			fine gr. less than .5 mm, med. grey	
57.5			mudst. and siltst. phyllite	isoclinally folded schistosity 50° to c.a. convoluted folding	chloritic - green and black bands	qtz veinlets 2-3 mm wide with tr. of pyrite		
60.0								
61.5				schistosity 60° to c.a.				
65.0			62.7 Greywacke		limonite on fractures		fine grained less than .5 mm dark grey, massive	
67.5							various grains, black, grey and blue	
70.0					chloritic matrix		coarse grained	
72.5							fine grained	
75.0			72.7 interbanded siltst. mudst. & fine gr. greywacke	slightly foliated 50° to c.a. small white frag. in greywacke show	chloritic	flattened py. blebs on schistosity planes	74.2-74.5 coarse gr. greywacke	

DRILL LOG

PAGE 4 OF 5  
 HOLE STU-1  
 LOCATION 0+03S - 0+70W  
 ORIENTATION 320°  
 INCLINATION -60°

LENGTH 118.9 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
75.0			76.2 -phyllite	flattening fault gouge mud, graphitic		py flattened along fractures		
77.5				78.6 slickn'side // to c.a.	chloritic matrix and chloritic mudst.	py veinlet 1 mm wide at 76.4-35° to c.a.	fine gr. less than .5 mm, dark grey grains of various colour and composition minor siltst. intervals	
80.0			Greywack	slightly foliated 50° to c.a.				
82.5							gradational contact to med. gr. greywacke	
85.0					chloritic at qtz contact	grey qtz.pocket, irregular		
87.5				86.5 slickn'side 10° to c.a.	chloritic at contact	87.0-87.1 irregular pocket of barren grey qtz.	coarse grained	
90.0			88.1 Greywacke & siltst. interbanded 89.0	foliated 55° to c.a.	chloritic at contact	89.4-89.6 barren pocket of grey qtz.	broken	12793
92.5							minor siltst.	
95.0			94.3 siltstone	isoclinally folded	chloritic bands or laminations			
97.5			minor greywacke 96.85	slightly slaty 60° to c.a.				
100.0			greywacke	98.1 fault gouge-5cm wide slickn'side 40° to c.a.	chloritic matrix	tr. of py. along fractures	med. to fine gr. max .5 mm in diameter blue, grey qtz., black and greenish rock fragments, clayey matrix?	



DRILL LOG

PAGE 1 OF 6  
 HOLE STU-2  
 LOCATION BL 0+00 - 0+06E  
 ORIENTATION 325°  
 INCLINATION -60°

LENGTH 131.9 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
0			overburden					
2.5			1.5				med gr 2-5 mm in diameter	
5			quartzwacke with minor siltst and	foliated 25°-40° to c.a.	3.45-4.2 chlorite at qtz vein contact	qtz veins-bluish grey	dark matrix in some sections grains up to 3 mm in diameter	
7.5			minor conglomerate		bleaching brown staining		qtz grains are blue, black and grey matrix in chlorite	
10.0					limonite on fractures	2 small bluish grey qtz veinlets		
12.5						rusty diss. grains rusty hairline fractures of various orientation		
15.0								
17.5								
20.0								
22.5								
25.0		24		chevron folds			23.1-23.6 interbanded congl. and siltst. sericitic-chlorite phyllites & quartzites	

DRILL LOG

PAGE 2 OF 6  
 HOLE STU-2  
 LOCATION BL 0+00-0+06E  
 ORIENTATION 325°  
 INCLINATION -60°

LENGTH 131.9 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
25.0			quartzwacke	foliated 45° to c.a.	bleached to a greenish colour		minor silty bands 1 cm wide	
27.5					limonite on fractures and pervasive through some of the sandst.		grains from .1 to .5 mm in diameter	
30.0			quartzite		manganese oxide on fracture surfaces			
32.5					manganese oxide on fracture surfaces		blue, white, grey qtz grains, rare black argillite grain	
35.0							grains up to 2 mm in diameter	
37.5				36.0-36.5 Fault gouge-broken		some qtz fragments		
40.0				39.8 slip surface	chloritic	qtz veins and pods 10 cm wide		
42.5			42.0 mudstone	fault gouge, 5 cm wide, broken crenulated	minor limonite on fractures	= grey qtz		
45.0			minor fine gr. quartzwacke	laminations 55° to 70° to c.a.				
47.5								
50.0			48.5 Greywacke					

DRILL LOG

AGE 3 OF 6  
 HOLE STU-2  
 LOCATION BL 0+00 - 0+60E  
 ORIENTATION 325°  
 INCLINATION -60°

LENGTH 131.9 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
50.0			greywacke- quartzwacke	slightly crenulated			interlaminated fine gr. greywacke and siltst.	
52.5								
55.0			with minor siltstone intervals	foliated 40° to c.a.	chloritic matrix bleaching along fractures		sand grains vary from .5 mm up to 2 mm in diameter	
57.5								
60.0								
62.5			60.3		chloritic alt. limonite in fractures at contacts	barren qtz. veins	fine grained .5 mm, pale green with qtz. grains, equigranular, massive white quartz veins close to contacts.	
65.0			Diorite? 64.55					
67.5			Quartzwacke	strongly foliated 10° to c.a.	chloritic alt. of the matrix		med. to coarse grained grain size variation is gradational	
70.0			minor mudst 69.95					
72.5			70.4 Diorite dyke	foliated  foliated 40° to c.a.	chlorite  chloritic matrix		white, blue, grey qtz. grains up to 3 mm in diameter	
75.0			med. to coarse grained				med. gr., avg. .5 mm up to 1 mm in diameter	



DRILL LOG

PAGE 5 OF 6  
 HOLE STU-2  
 LOCATION BL 0+00 - 0+06E  
 ORIENTATION 325°  
 INCLINATION -60°

LENGTH 131.9 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
100.0			Quartzwacke (cont.)					
102.5								
105.0								
107.5			106.1 Interbanded siltst and fine gr. qtzwacke	deformed  schistosity 35° to c.a.	chloritic matrix chloritic "patches"	107.2-108.0 qtz pods minor veining (quartz) trace of ankerite at vein contact py blebs on fractures		
110.0							fine gr. greywacke .5 mm with blue qtz. up to 1 mm in diameter	
112.5							siltst=dark grey to greenish black	
115.0				112.6-113.6 fault zone slickn'side several different orientation 113.7				
117.5			Greywacke	more massive than previous greywacke intervals			grains of various colour and composition blue qtz grains up to 1 mm in diameter	
120.0			to Quartzwacke	118.3 slickn'side 45° to c.a.		py blebs on fractures 118 qtz & clay (yellow) veinlets 1 mm wide	avg grain size .5mm	
122.5				slightly foliated 50° to c.a.	clayey matrix		120.6 start of a cycle ie. fine gr coarsening to med grained downward grain size variations are gradational	
125.0						124.0 narrow white qtz veins 10° to c.a.		













DRILL LOG

PAGE 5 OF 6  
 HOLE STU-3  
 LOCATION 0+13W.-0+80N.  
 ORIENTATION 320°  
 INCLINATION -60°

LENGTH 137.1 m  
 STARTING DATE \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
100.0			quartzwacke			py blebs on fractures	massive to foliated qtz and clay? veinlets (1per meter)	
102.5								
105.0								
107.5								
110.0						a few py veinlets	abundant quartz with fushite?	
110.5								
112.5			Sericite schist (siltst)	fault gänge-slightly graphitic		py blebs along schistosity		
113.8								
115.0				schistosity 50° to c.a.			one qtzwacke fragment (?) or band is // to schistosity 2 cm wide	
117.5			quartzwacke	slickn side 35° to c.a.		trace of py cubes throughout up to 3 mm in diameter	blue and black quartz veins First meter in brecciated and the fragments are oriented to the schistosity	
118.9								
120.0			sericitic-chlorite	schistosity 50° to ca		tr of py cubes up to 3 mm in diameter		
120.7			schist (siltst)					
122.5			fine gr qtzwacke				121.9-122.2 qtz, white - milky,	
123.4				gouge mud 5 cm wide 50° to c.a.				
125.0			Granitic dyke	foliated 65° to c.a. & qtz.			minor qtz, 2 feldspars one is fresh one is altered to yellow clay?	







DRILL LOG

PAGE 2 OF 5  
 HOLE STU-4  
 LOCATION 1+23N - 0+02W  
 ORIENTATION 323°  
 INCLINATION -70°

LENGTH 122.2 m  
 STARTING DATE June 14, 1986  
 COMPLETION DATE June 17, 1986  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
25.0					bleached & altered to chlorite	few qtz veinlets are present up to 5 mm - 80° to c.a.	matrix to extremely fine and dark green	
27.5								
30.0			28 siltst. & schist 29.2				28.9-29.2 broken poor recovery	
32.5			fine grained quartzwacke with some coarse intervals		limonite on fractures		mostly fine grained with rounded frag. of different composition: blue qtz., white qtz. and minor rock frag. black	
35.0					pervasive limonite staining around 33 m	diss. fine gr. py. (trace)	in minor veinlets of qtz. up to 5 mm wide	
37.5			36.8 siltst-schist	36.3-36.8 more fractured	36.3-36.8 bleached & limonite  some intervals are slightly bleached	qtz. veinlets	with diss. fine gr. py. (trace) 80° to c.a. and 25° to c.a. pale grey to black, banded and deformed	
40.0			grading to a more massive phyllite	schistosity of various orientation-crenulated at 37.5 slip planes 15° & 90° to c.a.		py along fractures & slip planes py along some of the schistosity	38.4 large qtz fragments	
42.5			37.4 20 cm of coarse gr. quartzwacke 41.5					
45.0			fine gr. quartzwacke		limonite on fractures		moderately broken massive	
47.5								
50.0			49.4		fractures at 30° & 90° to c.a. 49.4-49.9 strongly silicified pervasive limonite	tr. of py on fractures	48.3 20 cm of coarse gr. quartzwacke	

DRILL LOG

PAGE 3 OF 5  
 HOLE STU-4  
 LOCATION 1+23N - 0+02W  
 ORIENTATION 323°  
 INCLINATION -70°

LENGTH 122.2 m  
 STARTING DATE June 14, 1986  
 COMPLETION DATE June 17, 1986  
 SCALE \_\_\_\_\_

DRILL BOYLES 37A CORE NQ  
 CONTRACTOR L. Spence  
 DATE LOGGED \_\_\_\_\_  
 LOGGED BY M. Archambault

METER I-AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
50.0			coarse gr. quartzwacke to congl.	50.7 slip surface 15°	unaltered limonite on fractures	trace of py on fractures		
52.5								
55.0				54.2 slip surface 20° to c.a.				
57.5				56.5 slip surface 35° to c.a.	chlorite throughout minor limonite	qtz. veins (20%)		
60.0			Graphitic gouge 57.9 sericitic-chlorite schist 59.6	fault gouge schistosity <sup>+</sup> ⊥ to c.a.	chlorite alt assoc. with quartz veins	flattened by clots on schistosity planes and on fractures	numerous qtz veins (20%) of irregular shape	
62.5			med. to coarse gr. qtzwacke minor congl.		broken and bleached down to 6 cm limonite on fractures	py blots on some fractures	massive	
65.0			62.8 sericitic-chlorite 64.4 schist	isoclinal folding, schistosity is variable but generally 80° to ca		qtz-irregular veins		
67.5			65 med gr. qtzwacke 66.1 gouge alt. qtzwacke 67.3			py veinlets qtz. veins & pods	graphitic, qtz. fragments, poor recovery several qtz. veins (20%) and pods up to 5 cm wide	
70.0			chlorite schist	68.1 fault gouge 2 cm wide 20° to c.a. schistosity approx. 80° to c.a.		py clots on some fractures or schistosity planes	a few narrow to 5 cm wide qtz. veins occur throughout, approx 1 vein/m	
72.5			with possible minor dyke intervals	some crenulations			graphitic	
75.0							74.7-75.3 several qtz. veins up to 5 cm wide minor fuchite?	

DRILL LOG

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LENGTH 122.2 m

DRILL BOYLES 37A CORE NO

HOLE STU-4

STARTING DATE June 14, 1986

CONTRACTOR L. Spence

LOCATION 1+23N - 0+02W

COMPLETION DATE June 17, 1986

DATE LOGGED \_\_\_\_\_

ORIENTATION 323°

SCALE \_\_\_\_\_

LOGGED BY M. Archambault

METER -AGE	CORE LGTH	% REC	ROCK TYPE	STRUCTURE	ALTERATION	MINERALIZATION	NOTES	NO.
75.0				76.3 gouge mud 2 cm thick				
77.5								
80.0			78.3 fine gr. greywacke	fine banding // to schistosity 50° to ca			qtz and clay veinlets 2 mm wide occur at 15° to c.a. and are displaced on echelon	
82.5			80.8 siltstone with minor coarse gr.	schistosity 60° to c.a.		py. stringers along schistosity at 82.3	approx. 2 to 4 mm slightly graphitic	
85.0			quartzwacke			py. blebs on fract.		
87.5			85.3 fine gr. qtzwacke	variable		85.9 large qtz. vein // to c.a. with tr. of galena and py.	qtz. is white to grey	
90.0			siltstone-schist	variable schistosity crenulated	chloritic	py stringers along fractures py. clots along schistosity	colour banding less than 2 mm and up to 5 mm wide	
92.5						planes less than 1%		
95.0			93.7 med. to coarse				hairline tension gashes filled with qtz.	
97.5			grained quartzwacke	foliated to various degree generally 60° to c.a.		diss. euhedral py. grains	broken up qtz. in broken fragments	
100.0			98.9 sericitic chlorite schist					

