

ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 89.03.03

ASSESSMENT REPORT 17282

MINING DIVISION: Skeena

PROPERTY: Crcl
LOCATION: LAT 53 34 22 LONG 132 17 23
UTM 08 5939189 679458
NTS 103F09W
CLAIM(S): Crcl 5
OPERATOR(S): City Res. (Can.)
AUTHOR(S): Borschneck, T.M.;Dunn, D.S.C.;Twyman, M.
REPORT YEAR: 1988, 21 Pages

GEOLOGICAL

SUMMARY: The area is underlain by Tertiary Masset Formation basalts and glassy lapilli tuffs.

WORK
DONE: Geological,Geochemical
GEOL 500.0 ha
Map(s) - 1; Scale(s) - 1:5000
SILT 1 sample(s) ;CU,PB,ZN,AG,AS,HG,SB,AU

LOG NO: 0419 RD.
FILE NO:

ASSESSMENT REPORT
ON THE
GEOLOGICAL MAPPING PROGRAM
ON THE
CRCL 5 (20 UNITS) CLAIM
LOCATED IN THE SKEENA MINING DIVISION
ON
NTS 103 F/9W
LATITUDE 53° 35'N LONGITUDE 132° 17'W

OWNED AND OPERATED BY
CITY RESOURCES (CANADA) LIMITED
#2000-666 BURRARD STREET
VANCOUVER, B.C.
V6C 2X8

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,282

SUB-RECORDER
RECEIVED
APR 15 1988
M.R. # \$
VANCOUVER, B.C.

By: Toni M. Borschneck, B.Sc.
David St. Clair Dunn, B.Sc., F.G.A.C.
Mike Twyman, B.Sc.

March 1988

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SUMMARY

Between February 7 and February 13, 1988, three geologists conducted geological reconnaissance of the CRCL 5 claim held by City Resources (Canada) Limited.

Geology, as exposed in road cuts and in stream gullies, was mapped at a scale of 1:5000. Glacial till of varying thickness was found to overly the entire claim unit and outcrop is very sparse.

Geology was found to consist of basalt flows and minor tuffs of the Masset Formation which appear to be flatlying to gently dipping towards the north west.

CONCLUSIONS AND RECOMMENDATIONS

Due to the nature of the overburden (up to 20m of glacial till) it is felt that a soil survey on this area would not be appropriate. Additionally a diamond drill hole adjacent to this claim (82-TP) intersected Masset Formation basalts overlying Honna Formation sediments which, when systematically sampled, did not return any encouraging gold values (Assessment Report #10931).

In light of the above, no further work is recommended at this time. Should further work still be contemplated, a reconnaissance VLF survey could be carried out in order to locate any possible structures that may be the host to potential mineralization.

INTRODUCTION

The twenty unit CRCL 5 Claim is situated 13 Km southwest of Port Clements on central Graham Island, Queen Charlotte Islands, B.C.

During the period February 7 to February 13, 1988 a 1:5000 scale geological mapping program was carried out on the CRCL 5 Claim. The results of this program are presented in the body of this report.

LOCATION AND ACCESS

The CRCL 5 Claim is located on central Graham Island in the Queen Charlotte Islands, 13 Km southwest of the town of Port Clements. The claim is situate on NTS map sheet 103 F/9W at latitude 53° 35'N and longitude 132°17'W (Fig. 1).

Access to the claims is easily obtained along MacMillan Bloedel logging roads approximately 17 road km southwest of Port Clements or 50 road km north of Queen Charlotte City. Logging roads cross the claim in the southern half of the block and along the northern claim boundary (Fig. 2).

TOPOGRAPHY AND PHYSIOGRAPHIC REGION

The CRCL 5 claim lies on the Skidegate Plateau-Queen Charlotte Lowland boundary along the strike extension of the Sandspit Fault.

Relief on the property is 50 m to 150 m above sea level. The majority of the claim area is flat and heavily forested with hemlock, cedar and fir. Portions of the claim have already been logged and second growth timber is extensive.

Project Location Map

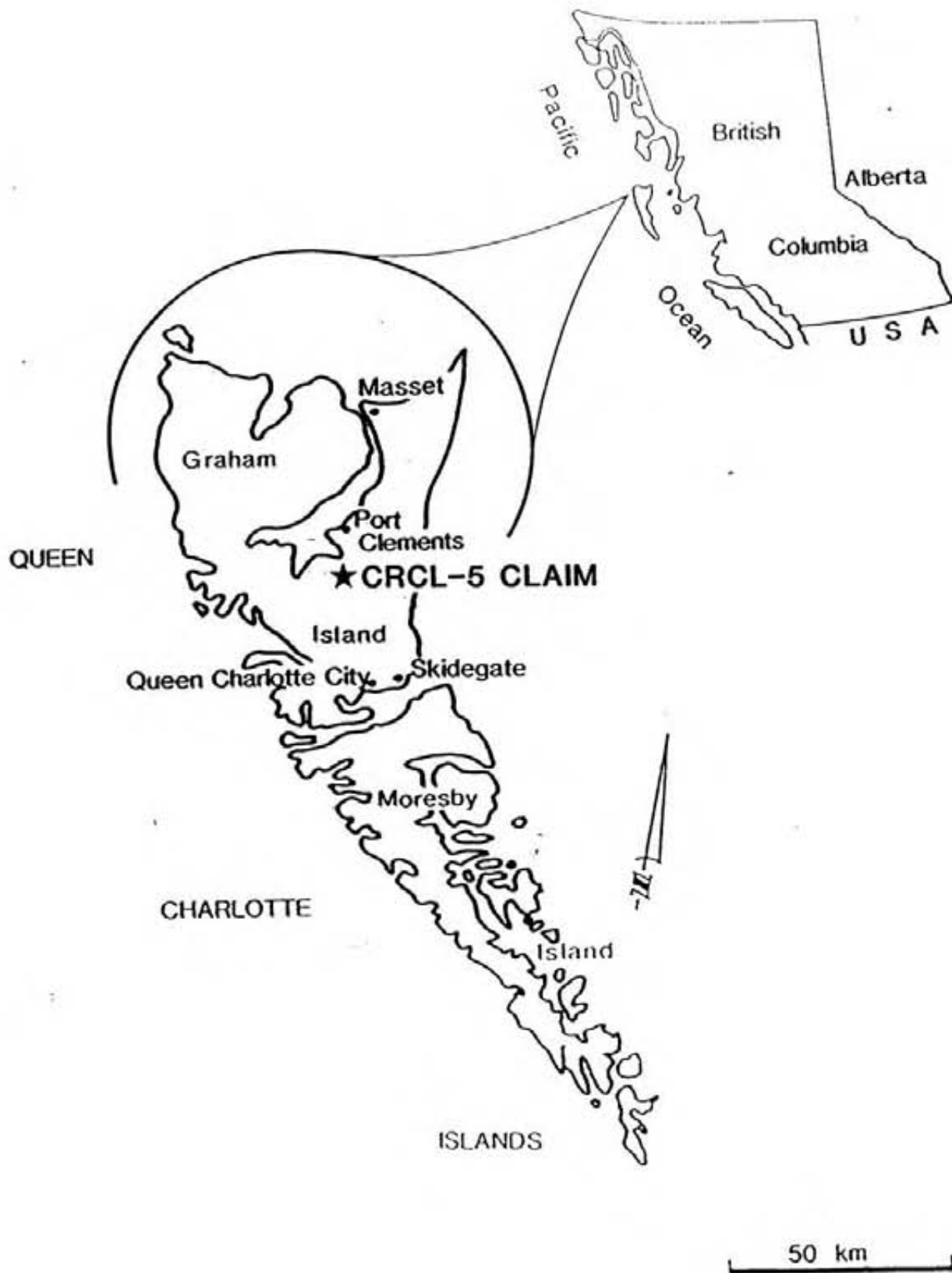


FIG. 1

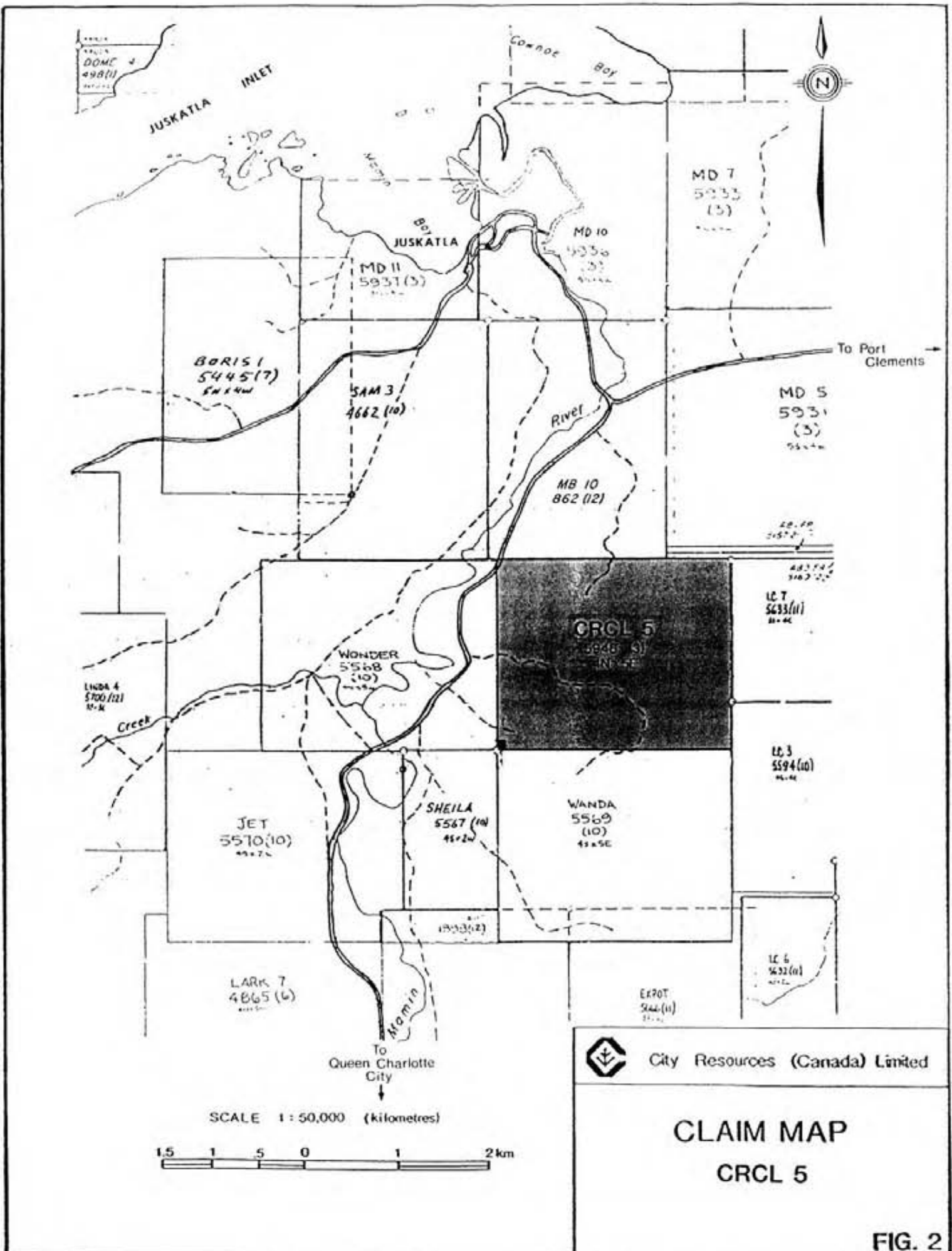


FIG. 2

CLAIM STATUS

The CRCL 5 claim, situated in the Skeena Mining Division, consists of 20 units staked for City Resources (Canada) Limited and recorded on March 6, 1987. The L.C.P was examined and found to be in accordance with the Mining Act.

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Record Date</u>	<u>Expiry Date</u>	<u>Owner</u>
CRCL 5	5948	20	Mar 6/87	Mar 6/88	City Resources (Canada) Ltd. B/S Mar. 27/87

HISTORY

The CRCL 5 Claim covers the former MB5 Claim then owned by Ventora Resources Ltd. In the fall of 1979 a reconnaissance geochemical soil survey was completed which resulted in several gold-arsenic-mercury anomalies (Assessment Report #7781). The claim was subsequently allowed to lapse and the CRCL 5 claim was staked for City Resources (Canada) Limited. The claim was recorded on March 6, 1987.

GEOLOGY

REGIONAL GEOLOGY

According to A. Sutherland-Brown (BCDM Bulletin #54-Geology of the Queen Charlotte Islands, B.C.) the CRCL 5 Claim is underlain by subaerial basalt flows and breccias, rhyolite ash flow and minor dacite of the Tertiary Masset Formation. The Sandspit Fault, or a splay off the Fault, is believed to cross through or near the eastern margin of the claim.

PROPERTY GEOLOGY

The CRCL 5 claim was mapped at a scale of 1:5000 on maps provided by MacMillan Bloedel (Fig. 3). The CRCL 5 Claim is almost entirely covered by glacial drift. The few exposures seen were in rock quarries used by MacMillan Bloedel for road materials.

No outcrop was seen on the northern half of the claims. Stream gullies and road cuts revealed glacial cover several metres thick (actual thickness of the overburden was not determined). One subcrop exposure of massive to vesicular basalt was seen in the northeast corner of the claims along logging road Branch 3.

Several quarries off logging road Branch 4 in the southern half of the claim expose glassy, welded lapilli tuffs and agglomerates of rhyolitic composition. Rounded chalcedonic pebbles to 5 mm and fragments of basalt and porphyritic rhyolite to several centimetres make up the majority of the clasts. Elongate lithophysae (to 5 cm) filled with calcite ± zeolites were also noted. The rhyolitic tuffs showed weak Fe-oxidation and chloritic alteration.

In the southwest corner of the claim, off logging Branch 8, one subcrop area of highly vesicular and amygdaloidal basalt was located. The basalt was weathered a pinkish-brown colour and the amygdales were filled with calcite and blue-white chacedonic quartz.

No evidence of mineralization or hydrothermal alteration was seen anywhere on the claim.

A single silt sample (C88CTBS-05) was taken from a main easterly flowing creek in the northern part of the claim.

Analysis of the sample returned no anomalous values in Au, Ag, Hg, As, Sb, Cu, Pb or Zn (Appendix 1). An attempt was made to collect heavy mineral concentrates but very little heavy fraction was found in the creek sediments and gravels. Most of the drainages on the claim are swampy, flowing slowly over glacial and organic material and sediment samples from these creeks would not accurately reflect the geologic environment.

BIBLIOGRAPHY

Roberts, A.F. (1980)
Assessment Report #7781

Sanders, K.G. (1983)
Assessment Report #10831

Sutherland-Brown, A. (1968)
Geology of the Queen Charltte Islands, B.C., BCDM Bulletin
#54

APPENDIX 1

ASSAY CERTIFICATE AND ANALYTICAL METHODS

Geochem Preparation for Soils and Silts:

Samples are dried at 80 C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.

Copper, Lead, Zinc, Silver ppm:

1.0 gm sample is digested with nitric - aqua regia for approximately 2 hours. The digested sample is cooled and made up to 25 mls with distilled water. The solution is mixed and solids are allowed to settle. Copper, lead, zinc and silver are determined by atomic absorption techniques. Silver and lead are corrected for background absorption.

Detection limit: Copper, Zinc - 1 ppm
Silver - 0.2 ppm
Lead - 2 ppm

Arsenic ppm:

A 1.0 gm sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with NaBH_4 and the arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm

Antimony ppm:

A 2.0 gm sample is digested with conc. HCl-KClO_3 at low heat. The iron is reduced to Fe^{+2} state and the Sb extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption.

Detection Limit: 0.2 +/- 0.2

Gold F.A.-A.A. Combo Method ppb:

For low grade samples and geochemical materials, 10 gram samples are fused in litharge, carbonate and siliceous flux with the addition of 10 mg of Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO₃ and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer.

Detection limit: 5 ppb

Mercury ppb: (Code 20)

The sample is digested with nitric acid plus a small amount of hydrochloric acid. Following digestion the resulting clear solution is transferred to a reaction flask connected to a closed system absorption cell. Stannous sulfate is rapidly added to reduce mercury to its elemental state. The mercury is then flushed out of the reaction vessel into the absorption cell where it is measured by cold vapour atomic absorption methods with a Varian Spectrophotometer. The absorbance of samples is compared with the absorbance of freshly prepared mercury standard solutions carried through the same procedure.

Detection limit: 5 ppb



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
111 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-1C1
PHONE (604) 984-0221

To: CITY RESOURCES (CANADA) LIMITED

2000 - 666 BARRARD ST.
VANCOUVER, BC
V6C 2X8

MAR 03 1988

Project: C

Comments: ATTN: J. DEIGHTON & D. DUNN CC: D. DUNN

CRU 5

Page No. : 1
Tot. Pages: 1
Date : 2-MAR-88
Invoice #: I-8811932
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8811932

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Au ppb FA+AA		
C88CTB-S05	217 --	8	1	86	0.1	9	180	0.1	< 5		

CERTIFICATION: Hunter Bechler

APPENDIX 2
STATEMENT OF COSTS

STATEMENT OF COSTS

Wages

Toni Borschneck, staff geologist 2 days Feb 8,12,13/88 (1/2 days Feb 8,12) @ 114.50/day	229.00
John Deighton, supervisor 1/2 day @ 172.00/day	86.00
David Dunn, contract geologist 1 day Feb 8,12/88 (1/2 days) @ 250.00/day	250.00
Malcolm Mackillop 10 hrs @ 17.33/hr	173.30
Mike Twyman, contract geologist 2 days Feb 8,12,13/88 (1/2 day Feb 8,12) @ 200.00/day	<u>400.00</u>
	1138.30

Assaying

Chemex Labs (1 silt sample)	<u>23.75</u>
	23.75

Transportation

Airfare Vancouver-Sandspit return	393.00
Truck rental 2 days @ 55.00/day	<u>110.00</u>
	503.00

Equipment and Supplies

Maps and Assessment Reports	166.54
Field Supplies	176.85
Room and Board 55.00/man day for 7 man days	<u>385.00</u>
	728.39

Report Preparation

800.00

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Total Expenditure	\$3,193.00
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APPENDIX 3
STATEMENT OF QUALIFICATIONS

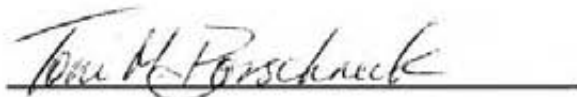
STATEMENT OF QUALIFICATIONS

=====

I, Toni M. Borschneck of #212 - 319 East 7th Avenue, Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology (1983).
2. I have practiced my profession as a Geologist since graduation.
3. I worked as a geological assistant for two seasons prior to graduation.
4. I am a member of the G.A.C. Cordilleran Section.
5. I am employed as a Geologist by City Resources (Canada) Limited.

March, 1988




Toni M. Borschneck, B. Sc.

STATEMENT OF QUALIFICATIONS

=====

I, David Saint Clair Dunn, of the Municipality of West Vancouver, in the Province of British Columbia, hereby certify as follows:

1. I am a Geologist residing at 2348 Palmerston Avenue, West Vancouver, B.C., V7V 2W1.
2. I am a Fellow of the Geological Association of Canada.
3. I am a graduate of the University of British Columbia with a B. Sc. - Geology (1980).
4. I have practiced my profession as a Geologist since graduation.
5. I have worked in the mineral exploration industry for eight seasons previous to graduation.
6. Geological mapping, rock sampling and geochemical surveying was carried out by experienced exploration personnel under my supervision.



March, 1988


David Saint Clair Dunn, F.G.A.C.

STATEMENT OF QUALIFICATIONS

=====

I, Michael P. Twyman of 4687 Tourney Road, North Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia with a Bachelor of Science in Geology (1984).
2. I have practiced my profession as a Geologist since graduation.
3. I have worked in the mineral industry for four seasons prior to graduation.
4. I have no interest direct or indirect in City Resources (Canada) Limited nor to expect to receive any.



Michael P. Twyman, B. Sc.




- LEGEND**
- Silt sample location
 - Limit of outcrop
 - Limit of subcrop
 - Bedding
 - Jointing

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,282

SCALE 1:5000
100m 0 100 200 300m

 City Resources (Canada) Limited

**GRAHAM ISLAND, B.C.
CRCL 5 CLAIM**

GEOLOGY MAP