21 pp.

LOG NO: 0125 RD.
ACTION:

FILE NO:

A REPORT ON THE GEOLOGICAL AND GEOCHEMICAL SURVEYS CONDUCTED ON THE YHWH CLAIM

CLINTON MINING DIVISION
92 O/4E
123° 40' LONGITUDE
51° 05' LATITUDE

BY

R.A. QUARTERMAIN, M.Sc.
CONSOLIDATED SILVER STANDARD MINES LIMITED
SUB-OPERATOR

FOR

LORD RIVER GOLD MINES LTD.
1100 - 1199 West Hastings Street
Vancouver, B.C.
V6E 3V4

JANUARY 15, 1988

ARIS SUMMARY SHEET

District Geologist, Prince George Off Confidential: 89.01.21

ASSESSMENT REPORT 16919 MINING DIVISION: Clinton

PROPERTY: YHWH
LOCATION: LAT 51 05 00 LONG 123 40 00
UTM 10 5659084 453302
NTS 092O04E
CLAIM(S): YHWH
OPERATOR(S): Lord River Gold Mines Cathedral Gold
AUTHOR(S): Quartermain, R.
REPORT YEAR: 1988, 21 Pages
COMMODITIES
SEARCHED FOR: Gold,Silver,Copper,Molybdenum/Molybdenite
GEOLOGICAL
SUMMARY: The claim is underlain by Late Cretaceous Coast Plutonic Complex granodiorite. An auriferous chalcopyrite and molybdenite-bearing shear 3 metres wide is exposed 160 metres along strike. Weakly anomalous gold values in soil samples were collected in the sheared area.

WORK
DONE: Geological,Geochemical
GEOL 120.0 ha
Map(s) - 1; Scale(s) - 1:5000
ROCK 5 sample(s) ;AU,AG
SILT 5 sample(s) ;CU,MO,AU,AG
SOIL 87 sample(s) ;CU,MO,AU,AG

TABLE OF CONTENTS

MAPS AND FIGURES

INTRODUCTION

This assessment report describes the reconnaissance mapping and silt, soil and rock geochemical sampling program conducted on the YHWH claim on behalf of the Lord River Gold Mines - Cathedral Gold Corporation Joint Venture. The work was carried out by a 3-man crew on September 26, 1987.

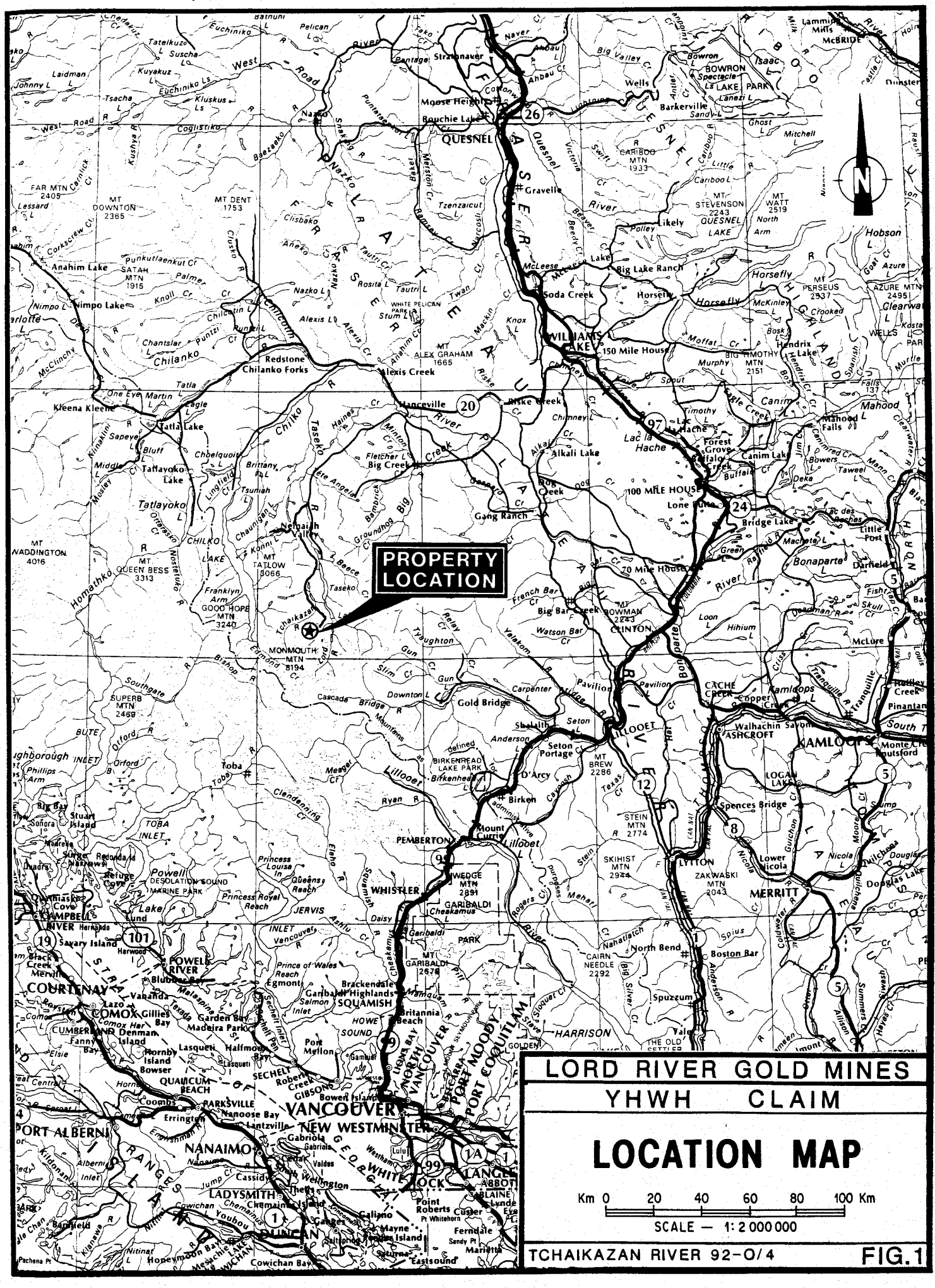
1.1 Location, Access, Physiography

The claim is located on the north side of Falls River between Beehive Peak and the river, in the Taseko Lakes Region of southwestern British Columbia (Figure 1). Vancouver is about 205 km to the south and Williams Lake lies 140 km northeast of the claim. Access to the property was by helicopter from Pemberton via the main camp at the Pellaire gold property about 4 km to the east.

The claim covers a steep sided hanging cirque and extends from 9500 feet to 5800 feet elevation. Below 7500 feet elevation is forested with jackpine and black spruce. Above that elevation only minor alpine vegetation is found. The cirque floor is covered with moraine and scree.

1.2 History

A short adit was found on the claim but there is no written record of who drove it. The only recorded work in the vicinity of the present claim was carried out in 1965 by Noranda Exploration Co. on the Zen claim. The Zen claim group appears to have been just south of the YHWH claim but may have overlapped the present YHWH claim. Noranda carried out geological mapping, trenching, stripping and sampling on mineralization reported to be chalcopyrite, pyrite and molybdenite in porphyry dykes within granodiorite.


PROPERTY LOCATION
LORD RIVER GOLD MINES
YHWH CLAIM
LOCATION MAP
Km 0 20 40 60 80 100 Km
SCALE — 1: 2 000 000
TCHAIKAZAN RIVER 92-O/4
FIG.1

The YHWH claim was staked in April 1987 following release of B.C. Ministry of Mines Open File 1986-6.

1.3 Claims (Figure 2)

The claim, located in the Clinton Mining Division, is held in the name of Lord River Gold Mines Ltd. and is subject to a 50:50 joint venture agreement with Cathedral Gold Corp.

Claim Name	Units	Record No.	Record Date	Expiry*
YHWH	15	2192	29 April	1990

* with credits for assessment work reported upon herein.

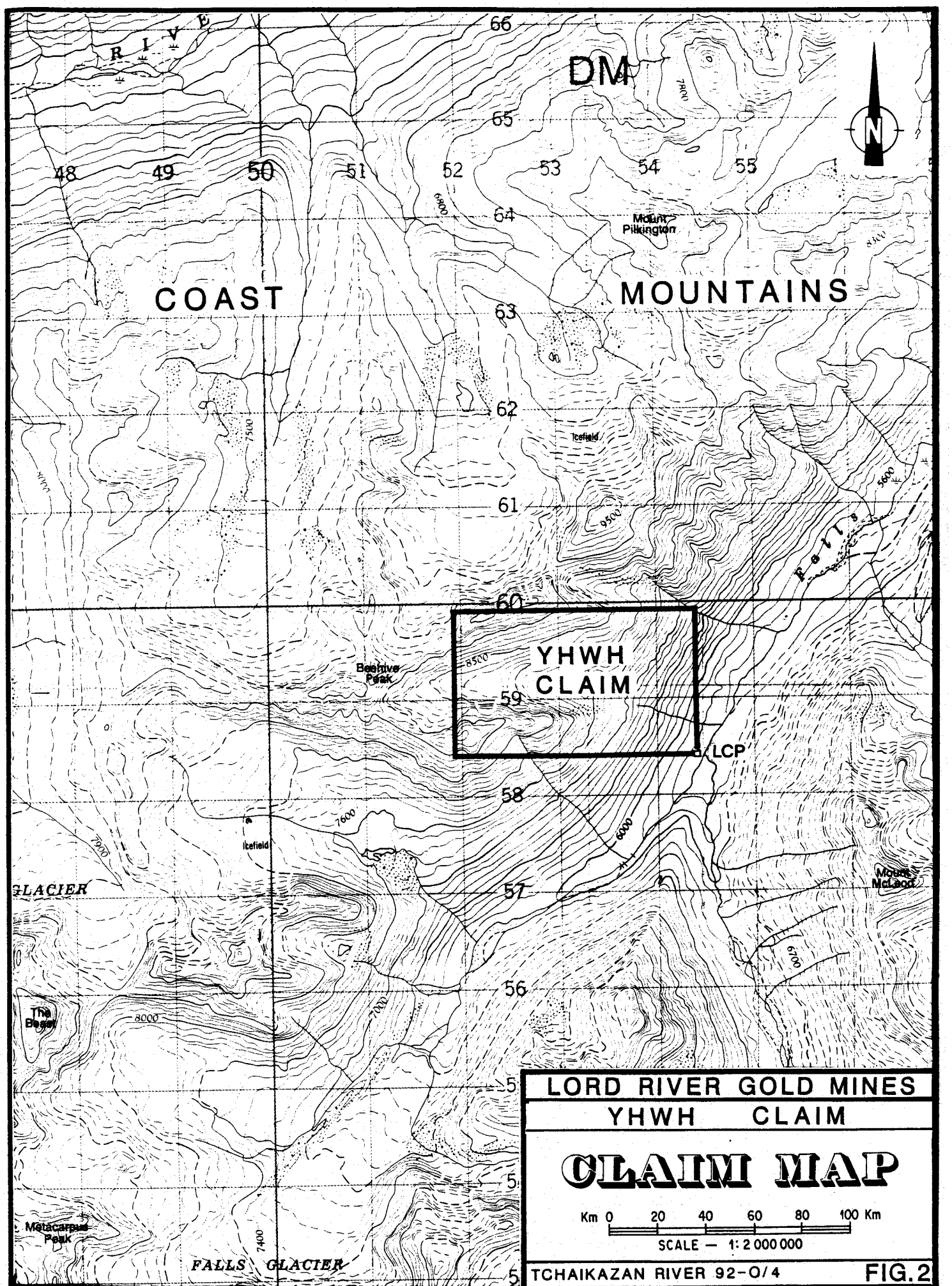
1.4 1987 Work Programme

The YHWH claim was examined on September 26, 1987 by the author and two assistants. The work programme consisted of reconnaissance mapping and silt, soil and rock-chip sampling. A total of 5 silt samples and 87 soil samples were collected and analysed for gold, silver, copper and molybdenum. Five rock-chip samples were analysed for gold and silver.

2. GEOLOGY

2.1 Regional Geology (Figure 3)

The region is underlain by a sequence of Middle Triassic to Upper Cretaceous volcanics and sediments and Late Cretaceous intrusives of the Coast Plutonic Complex. The northwest trending boundary between these units lies just to the northeast of the property with stratified rocks to the northeast and intrusives to the southwest.



LORD RIVER GOLD MINES

YHWH CLAIM

CLAIM MAP

TCHAIKAZAN RIVER 92-O/4

FIG. 2

Late Cretaceous Coast Plutonic rocks are predominantly granodiorite or quartz diorite with lesser diorite. In the vicinity of the property volcanic and sedimentary units are of the Early Cretaceous (Albain) Taylor Creek Group. Taylor Creek Group rocks were deposited in the Tyaughton Trough, dominantly a marine environment with lesser sub-aerial deposition.

While thrust faulting has taken place regionally, the dominant structural features in stratified rocks are numerous, northwesterly trending, right lateral transcurrent faults with displacements of up to 100 km or more.

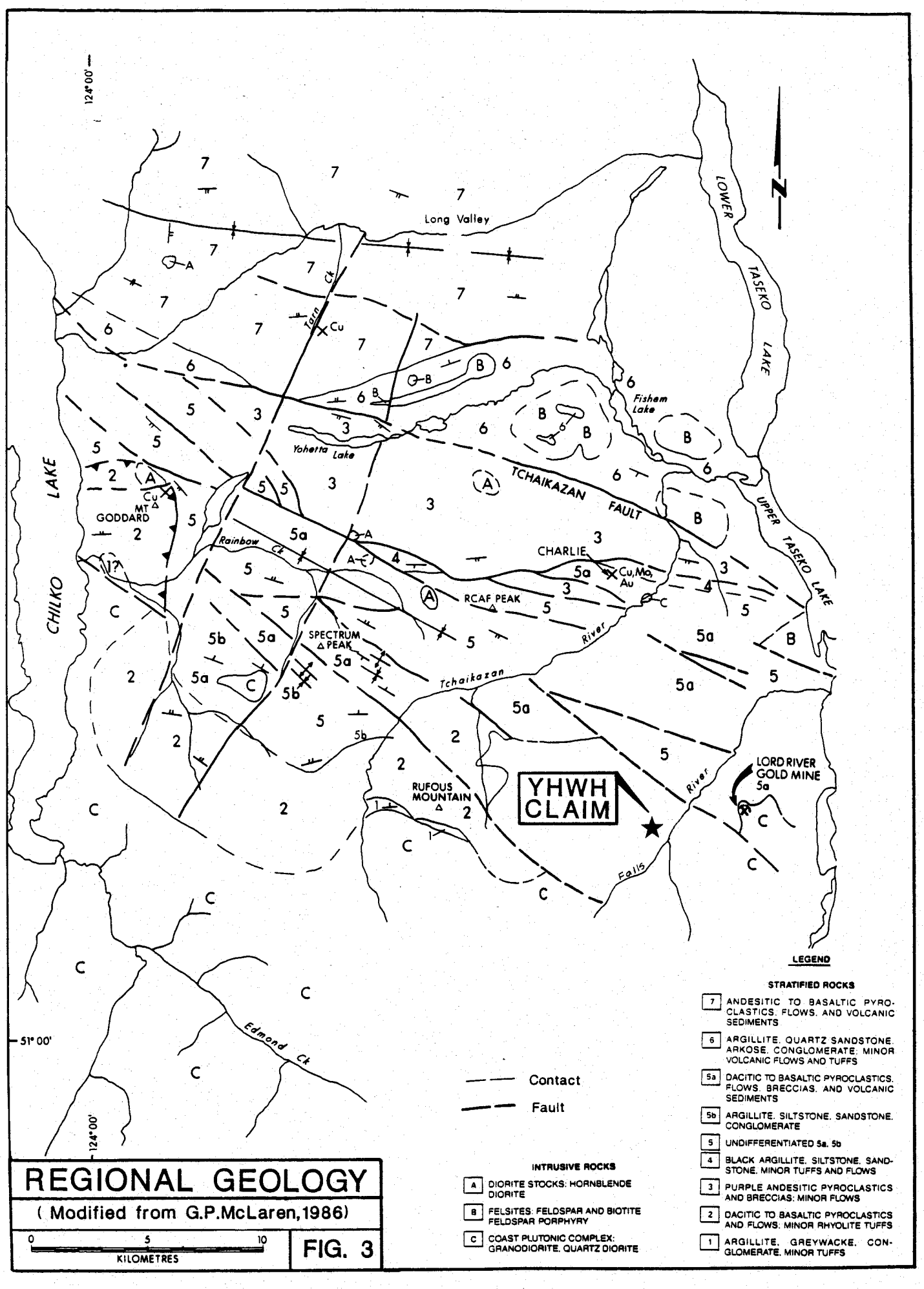
2.2 Property Geology (Figure 4)

The claim was found to be underlain by granodiorite of the Coast Plutonic Complex. The granodiorite is massive and holocrystalline with subhedral, 3 mm diameter quartz, feldspar, biotite and hornblende crystals. The unit is cut by a number of north striking vertical, lamprophyre dykes with 5 mm biotite lathes. The granodiorite has small zenolithic areas of more mafic material. North and east - striking fractures have cut the granodiorite into large angular blocks.

The only area of geological interest is located in the northeast corner of the claim. A shear zone up to 3 metres in width contains chalcopyrite and rosettes of molybdenite up to 3 cm in diameter. The shear is exposed for 160 metres.

3. GEOCHEMISTRY (Figure 4)

Sample numbers and analysis are shown in figure 4. Analysis certificates and analytical procedures are in Appendix 1. All analysis were carried out by Chemex Labs Ltd. of 212 Brooksbank Avenue, North Vancouver, B.C.


124° 00'
Long Valley
LOWER TASEKO LAKE
N
Fisham Lake
Yohetta Lake
CHILKO LAKE
TCHAIKAZAN FAULT
UPPER TASEKO LAKE
MT GODDARD
Cu
Rainbow Ck
CHARLIE
Cu, Mo, Au
RCAF PEAK
SPECTRUM PEAK
River
Tchaikazan
RUFOUS MOUNTAIN
YHWH CLAIM
LORD RIVER GOLD MINE
5a
Falls
Edmond Ck
51° 00'
124° 00'
LEGEND
STRATIFIED ROCKS
7 ANDESITIC TO BASALTIC PYROCLASTICS, FLOWS, AND VOLCANIC SEDIMENTS
6 ARGILLITE, QUARTZ SANDSTONE, ARKOSE, CONGLOMERATE; MINOR VOLCANIC FLOWS AND TUFFS
5a DACITIC TO BASALTIC PYROCLASTICS, FLOWS, BRECCIAS, AND VOLCANIC SEDIMENTS
5b ARGILLITE, SILTSTONE, SANDSTONE, CONGLOMERATE
5 UNDIFFERENTIATED 5a, 5b
4 BLACK ARGILLITE, SILTSTONE, SANDSTONE, MINOR TUFFS AND FLOWS
3 PURPLE ANDESITIC PYROCLASTICS AND BRECCIAS; MINOR FLOWS
2 DACITIC TO BASALTIC PYROCLASTICS AND FLOWS; MINOR RHYOLITE TUFFS
1 ARGILLITE, GREYWACKE, CONGLOMERATE, MINOR TUFFS
Contact
Fault
INTRUSIVE ROCKS
A DIORITE STOCKS: HORNBLENDE DIORITE
B FELSITES: FELDSPAR AND BIOTITE FELDSPAR PORPHYRY
C COAST PLUTONIC COMPLEX: GRANODIORITE, QUARTZ DIORITE
REGIONAL GEOLOGY
(Modified from G.P.McLaren, 1986)
0 5 10
KILOMETRES
FIG. 3

3.1 Silt Sampling

A total of 5 silt samples were collected from the stream draining the claim area. The samples were collected in kraft paper bags, numbered and sent to Chemex Labs Ltd. Silver, copper and molybdenum values were determined by atomic absorption and gold by fire assay with an atomic absoption finish.

Copper values range from 3 to 20 ppm, molybdenum was 1 ppm and silver 0.1 ppm in all samples and gold was <5 ppb except for one sample of 5 ppb and one of 10 ppb.

3.2 Soil Sampling

Two soil sampling lines were taken along the forested north slope of Falls River. Samples were taken at 25 m intervals, depths of 5 to 30 cm (averaging 20 cm), and the B-horizon was sampled. Copper values range from 6 to 58 ppm. Molybdenum was detected in only 5 samples, with 3 to 9 ppm. All samples were below the detection limit for silver. Twenty-five samples contained detectable gold values. Gold-in-soils values ranged from 5 to 155 ppb including one each of 100, 105 and 155 ppb. High gold values do not correlate with high copper values or detectable molybdenum values.

3.3 Rock Chip Sampling

Five rock chip and grab samples were collected from the property. The samples contain low values of gold and silver except one sample, 27270, collected from the shear zone.

		Au ppb	Ag ppm
27269:	Grab of typical granodiorite minor sulfide	5	0.1
27270:	Grab from east end of sulfide rich zone. Contains pyrite, chalcopyrite and molybdenite	835	>100.0
27271:	Grab 25 m west of 27270, from sulfide zone	25	13.5
27272:	Altered granodiorite	<5	2.7
27273:	Altered granodiorite	<5	0.5

Samples 27270 and 27271 indicate the mineralized shear zone contains anomalous gold and silver. The erratic and poddy nature of the sulfides and limited extent of the shear indicates it has limited economic potential.

4. CONCLUSIONS AND RECOMMENDATIONS

Although reconnaissance failed to locate any mineralization of economic significance, an auriferous sulfide-rich shear was located. The shear zone is limited in extent and a 5 metre deep adit was driven on it at one time. The shear zone is exposed for only 160 metres and then disappears under scree. It has a strike of 092° to 096° True. If one were to project this to the east it lines up with an area of copper and gold anomalies in soils.

Additional work on this property is given low priority. Trenching in the area of the anomalies would be the next step. Additional sampling of the adit could also be undertaken. A one-day follow-up from the Pellaire property will cost on the order of $2500.

5. COST STATEMENT

As a result of the 1987 programme assessment work recorded is:

Claim	Units	Assessment Years	Value of Assessment Work
YHWH	15	2	$3,000.00

Itemized Costs

R.A. Quartermain - Geologist Sept. 26 - 1 day @ $201/day	$ 201.00
W. Millar - Assistant Sept. 26 - 1 day @ $105/day	$ 105.00
P. Daubeny - Assistant Sept. 26 - 1 day @ $116/day	$ 116.00
Assays 92 soil and silt geochem Au, Ag, Cu, Mo @ $12.35/sample	$1,136.20
5 Au - Ag rock analyses @ $12.00/sample	$ 60.00
Helicopter 3.3 hours @ $522.42/hour	$1,724.00
Vehicle Rental - (Vancouver-Pemberton, return) 380 km @ 25¢/km	$ 95.00
Living Expenses 3 man-days @ $25/day	$ 75.00
Drafting and report preparation 8 hours drafting @ $23.00/hr ($184) Supplies ($100) Report Writing 1 day @ $201/day ($201)	$ 485.00
Total	$3,997.20

6. REFERENCES

1. McLaren, G.P.: Stream Sediment Geochemistry of the Chilko-Taseko Lakes Area, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1986-6.

2. McLaren, G.P.: Geology and Mineral Potential of the Chilko-Taseko Lakes Area, B.C. Ministry of Energy, Mines and Petroleum Resources Geological Fieldwork, Paper 1986-1, p.265.

3. McLaren, G.P.: Geology and Lithogeochemistry of the Chilko-Taseko Lakes Area, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1987-12.

4. B.C. Department of Mines Annual Report: 1965, p.143.

CERTIFICATE OF QUALIFICATIONS

R.A. QUARTERMAIN, M.Sc.

I, hereby certify that:

1. I am a graduate of the University of New Brunswick (B.Sc. [Honours] Geology - 1977) and Queens University (M.Sc. Geology - 1981).

2. I have worked since graduation as an exploration geologist in Canada and the United States.

3. The work described within was done under my direct supervision.

R.A. Quartermain, M.Sc.

January 15, 1988

Vancouver, British Columbia

APPENDIX I

CERTIFICATES OF ANALYSIS
AND
ANALYTICAL PROCEDURES

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: RD RIVER GOLD MINES INC.

1100 - 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 3V4

Project : L 1001
Comments: ATTN: R. QUARTERMAIN CC: M. HOLTBY

Date : 19-OCT-87
Invoice # : I-8723751
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723751

SAMPLE DESCRIPTION	PREP CODE		Cu ppm	Mo ppm	Ag ppm Aqua R	Au ppb FA+AA
001	202	--	21	1	0.1	< 5
002	202	--	34	1	0.1	< 5
003	202	--	28	1	0.1	< 5
004	202	--	52	1	0.1	< 5
005	202	--	23	1	0.1	< 5
006	202	--	26	1	0.1	< 5
007	202	--	31	1	0.1	< 5
008	202	--	32	1	0.1	< 5
009	202	--	58	1	0.1	25
010	202	--	32	1	0.1	< 5
011	202	--	20	1	0.1	< 5
012	202	--	14	1	0.1	< 5
013	202	--	17	1	0.1	10
014	202	--	14	1	0.1	< 5
015	202	--	16	1	0.1	< 5
016	202	--	6	1	0.1	< 5
017	202	--	6	1	0.1	< 5
018	202	--	9	1	0.1	< 5
019	202	--	15	4	0.1	< 5
020	202	--	11	1	0.1	< 5
021	202	--	26	1	0.1	15
022	202	--	29	1	0.1	< 5
023	202	--	40	1	0.1	5
024	202	--	27	1	0.1	< 5
025	202	--	30	1	0.1	< 5
026	202	--	20	1	0.1	< 5
027	202	--	9	1	0.1	< 5
028	202	--	23	1	0.1	< 5
029	202	--	20	1	0.1	< 5
030	202	--	24	1	0.1	45
031	202	--	26	1	0.1	< 5
032	202	--	29	1	0.1	5
033	202	--	28	1	0.1	< 5
034	202	--	27	1	0.1	< 5
035	202	--	27	1	0.1	< 5
036	202	--	15	4	0.1	< 5
037	202	--	22	1	0.1	20
038	202	--	17	1	0.1	5
039	202	--	34	1	0.1	20
040	202	--	38	1	0.1	< 5

CERTIFICATION : Stan Buchan

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: LORD RIVER GOLD MINES INC.
1100 - 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 3V4
Project : L 1001
Comments: ATTN: R. QUARTERMAIN CC: M. HOLTBY

Date : 19-OCT-87
Invoice # : I-8723751
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723751

SAMPLE DESCRIPTION	PREP CODE		Cu ppm	Mo ppm	Ag ppm Aqua R	Au ppb FA+AA
041	202	---	27	1	0.1	< 5
042	202	---	27	1	0.1	< 5
043	202	---	13	1	0.1	5
044	202	---	19	1	0.1	< 5
045	202	---	16	1	0.1	20
046	202	---	15	1	0.1	< 5
047	202	---	27	1	0.1	< 5
048	202	---	40	1	0.1	< 5
049	202	---	29	1	0.1	< 5
050	202	---	25	1	0.1	5
051	202	---	18	1	0.1	< 5
052	202	---	26	1	0.1	< 5
053	202	---	27	1	0.1	< 5
054	202	---	19	1	0.1	< 5
055	202	---	24	1	0.1	155
056	202	---	15	1	0.1	< 5
057	202	---	23	1	0.1	20
058	202	---	24	1	0.1	< 5
059	202	---	42	1	0.1	< 5
060	202	---	23	1	0.1	< 5
061	202	---	24	1	0.1	< 5
062	202	---	36	1	0.1	< 5
063	202	---	25	1	0.1	< 5
064	202	---	39	1	0.1	< 5
065	202	---	26	1	0.1	5
066	202	---	30	1	0.1	< 5
067	202	---	35	1	0.1	75
068	202	---	30	1	0.1	100
069	202	---	28	1	0.1	25
070	202	---	25	1	0.1	< 5
071	202	---	23	1	0.1	10
072	202	---	29	1	0.1	105
073	202	---	13	1	0.1	< 5
074	202	---	17	7	0.1	< 5
075	202	---	25	1	0.1	65
076	202	---	31	1	0.1	< 5
077	202	---	31	1	0.1	10
078	202	---	17	1	0.1	25
079	202	---	24	1	0.1	< 5
080	202	---	17	1	0.1	< 5

CERTIFICATION : Ian Bucher

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: ORD RIVER GOLD MINES INC.
1100 - 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 3V4
Project : L 1001
Comments: ATTN: R. QUARTERMAIN CC: M. HOLTBY

Date : 19-OCT-87
Invoice # : I-8723751
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723751

SAMPLE DESCRIPTION	PREP CODE		Cu ppm	Mo ppm	Ag ppm Aqua R	Au ppb FA+AA
081	202	--	14	1	0.1	10
082	202	--	18	9	0.1	10
083	202	--	16	1	0.1	< 5
084	202	--	13	3	0.1	< 5
085	202	--	11	1	0.1	< 5
086	202	--	14	1	0.1	< 5
087	202	--	18	1	0.1	5
SS01	202	--	5	1	0.1	10
SS02	202	--	20	1	0.1	< 5
SS03	202	--	4	1	0.1	5
SS04	202	--	3	1	0.1	< 5
SS05	202	--	3	1	0.1	< 5

CERTIFICATION : Ivan Bichler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: RD RIVER GOLD MINES INC.
1100 - 1199 W. HASTINGS ST.
VANCOUVER, BC
V6E 3V4

Project : L 1001
Comments: ATTN: R QUARTERMAIN CC: M. HOLTBY

Date :19-OCT-87
Invoice # :I-8723752
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723752

SAMPLE DESCRIPTION	PREP CODE		Ag ppm Aqua R	Au ppb FA+AA
27269	205	--	0.1	5
27270	205	--	>100.0	835
27271	205	--	13.5	25
27272	205	--	2.7	< 5
27273	205	--	0.5	< 5

CERTIFICATION : Ian Bichler

ASSAY PREPERATION

1.) Samples are sorted, then listed on assay sheets.
2.) The entire sample is crushed first in a primary jaw crusher, then in a secondary cone crusher.
3.) The crushed sample is reduced toa 200-400 gram sub-sample in a Jones Riffler, then dried.
4.) The dried material is pulverized to pass a 100 mesh screen, then rolled to homogenize.

ASSAY ANALYTICAL METHODS

1.) Cu (%)
A 2 gram sub-sample is digested in a hot perchloric-nitric acid mixture for two hours, cooled, then transfered into a 250 ml. volumetric flask. Aluminum Chloride is added as an ionization suppressant for Mo. The solutions are then analyzed on an atomic absorption instrument.

2.) Pb, Zn (%)
These elements are analyzed as above with the addition of nitric acid to the final sample and standard solutions.

3.) Ag, Au (oz/ton)
Silver and gold analyses are done by standard fire assay techniques. In the sample preperation stage the screens are checked for metallics which, if present, are assayed seperately and calculated into the results obtained from the pulp assay.

Geochem:

Copper, Lead, Zinc, Silver ppm:

1.0 gm sample is digested with perchloric-nitric acid ($HClO_4$-HNO_3) 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

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 HNO_3 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

Lead, Molybdenum, Copper:

An aliquot from an acid-preserved filtered sample is taken and digested to dryness with concentrated nitric acid. The residue is dissolved in warm perchloric acid and sufficient water is added to restore the sample to proper dilution. The concentration of each element is then determined by its atomic absorption with Varian AA-5 spectrophotometer calibrated with blanks and standard metal solutions prepared similarly. Background absorption corrections was applied to the measurement of lead. The detection limit for all elements by this method is 0.01 g/ml.

123°41'

123°40'

123°39'

51°05'

N

8500

8000

7500

6500

6000

CLAIM BOUNDARY

FALLS RIVER

LCP

27269

27271

27270

27272

27273

SS 02 20

SS 03 4,5

SS 04 3

SS 01 5,10

SS 05 3

Sample N° Cu, Au (Mo)

052 26 18 25 29 40 27 15 16,20 19 13,5 27 27 040 38 34,20 17,5 22,20 15 (4) 27 27 28 29,5 030 26 24,45 20 23 9 20 30 27 40,5 29 26,15 020 11 15 (4) 9 6 6 16 14 17,10 14 20 010 32 58,25 32 31 26 23 52 28 34 001 21

Sample N° Cu, Au (Mo)

053 27 19 24,155 15 23,20 24 42 060 23 24 36 25 39 26,5 30 35,75 30,100 28,25 070 25 23,10 29,105 13 17 (7) 125,65 31 31,10 17,25 24 080 17 14,10 18,10 (9) 6 13,3 11 14 087 18,5

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,919

LEGEND

SS 04 ▲ Silt Sample

053 ● Soil Sample

27270 ■ Rock Sample

SAMPLE RESULTS (soil & silt)

● 18, 10 (9)
Cu, Au (Mo)

Note: all Au <0.5 ppb except those plotted
: all Mo 1 ppm except those plotted
: all Ag 0.1 ppm

■ Rock
Au, Ag
ppb, ppm

GEOLOGY

3 Scree and moraine
Granodiorite

2 Lamprophyre

1 Granodiorite

Traverse

Shear

Jointing

Adit

LORD RIVER GOLD MINES LIMITED

YHWH CLAIM

GEOLOGY AND ROCK, SOIL AND SILT GEOCHEMISTRY - GOLD, SILVER COPPER AND MOLYBDENUM

Scale: 1:5000

0 100 200 300 400 500
METRES

Data: R.A.Q.	NTS: 92-O/4E	Date: Jan. 1988	FIG. 4