

ASSESSMENT REPORT ON THE
KING MINERAL CLAIMS
LIARD M. D.

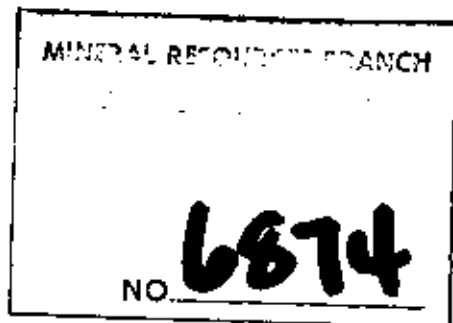
GEOCHEMICAL SURVEYS

Lat. $58^{\circ}24'30''$
Long. $128^{\circ}56'0''$

N.T.S. 104-1-7W

September 16, 1977 and July 11 - 13, 1978

Owner: Wesfrob Mines Limited



Vancouver, B. C.
September 7, 1978

J. Wilson
J. J. McDougall

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
GENERAL GEOLOGY	3
GEOCHEMICAL SURVEY	3
INTERPRETATION AND CONCLUSIONS	6
APPENDIX A Statement of Expenditures	7
APPENDIX B Statement of Qualifications	9
APPENDIX C Methods of Analyses	10
FIGURE 1 Location map	2
FIGURE 2 Soils Geochemistry	4
FIGURE 3 Assays	5

ASSESSMENT REPORT ON THE
KING MINERAL CLAIMS

INTRODUCTION

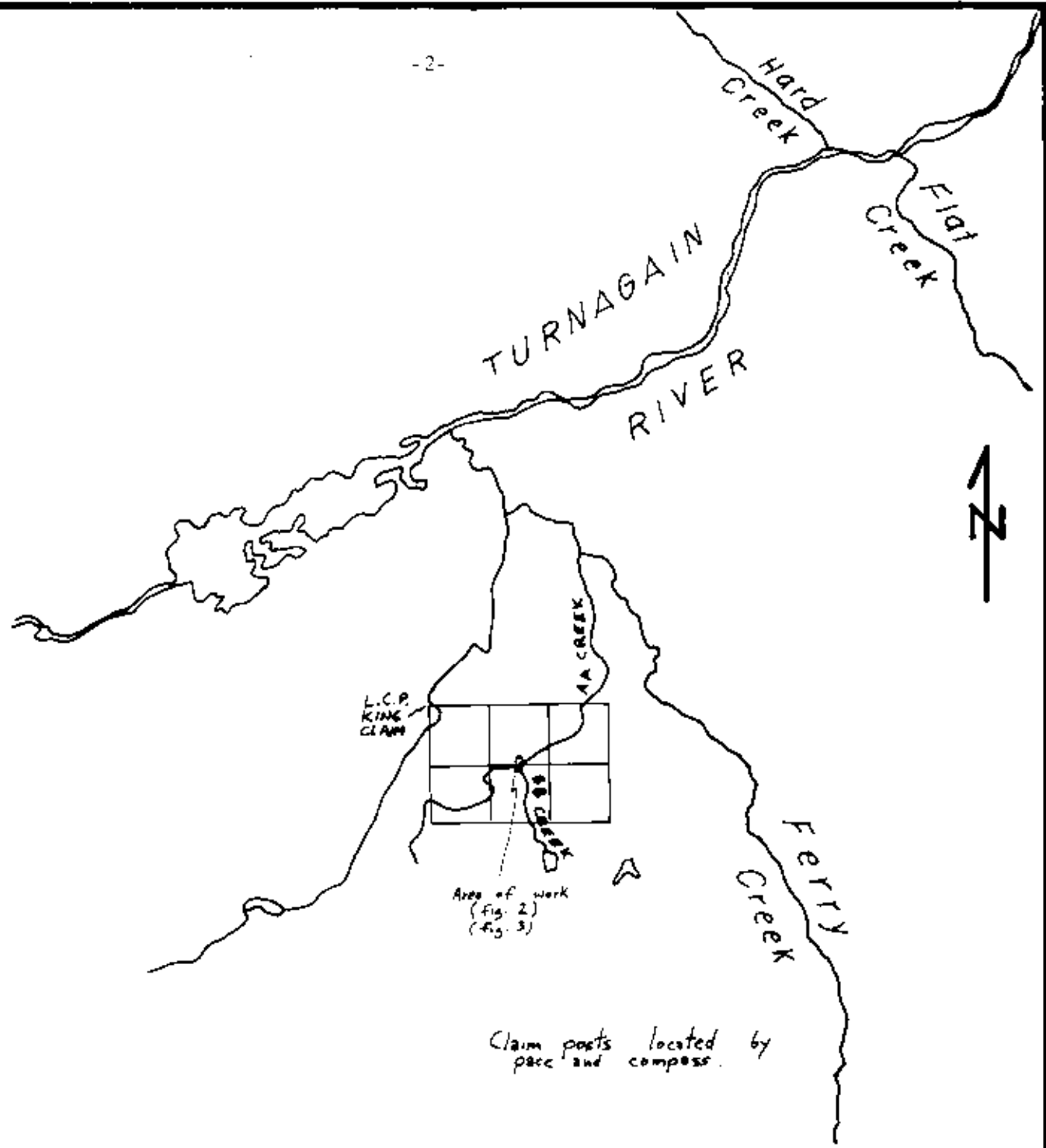
The King mineral claim is located at Lat. $58^{\circ}24'30''$ North, Long. $128^{\circ}56'$ West. It is approximately 2400 metres south of the junction of Ferry Creek and Turnagain River (Fig. 1). The N.T.S. reference is 104-I-7W. The property is reached by a 64 km. helicopter flight from Dease Lake, B. C.

The claim (6 units) was staked by Wesfrob Mines (current owner) on 15 Sept., 1977 after the discovery of a 2 metre wide massive pyrite-pyrrhotite band. The sulphide zone was found while prospecting a serpentine-peridotite area. As the discovery was late in the field season only a quick survey (3 chip samples) was made to test the zone.

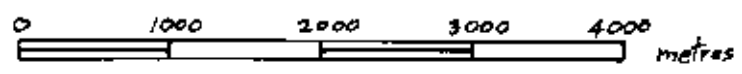
In 1978 the same sulphide outcrop was blasted to expose fresher rock and the showing was again tested (4 chip samples).

A soil survey (27 samples) was made immediately along strike from the sulphide zone.

All work was within the claim boundary.



Claim posts located by
pace and compass.



KING CLAIM INDEX MAP	
JULY, 1978	SCALE - 1:50,000
NTS 104-I-7W	FIG. 1

GENERAL GEOLOGY

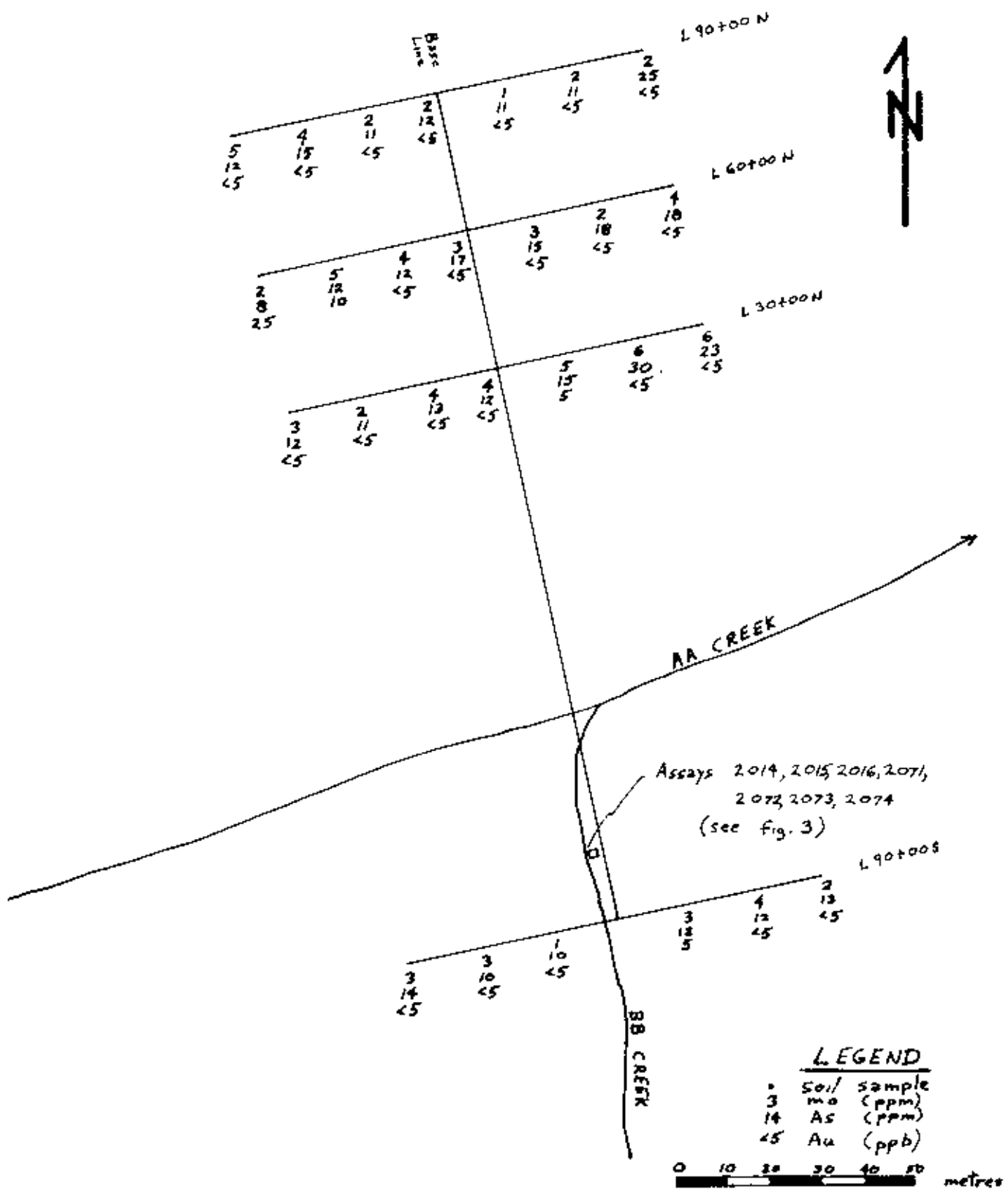
The claims are underlain by Cache Creek serpentized peridotites and minor argillaceous quartzites. Outcrops are scarce throughout the area which is characterized by hummocky ground and slow moving creeks. The 2 metre wide pyrite-pyrrhotite band is vertically dipping and strikes 348° . It consists of a 20 cm pyrite-pyrrhotite vein and similarly mineralized peridotite wallrock. Beyond this the peridotites are not mineralized ~~or~~ apparently altered.

GEOCHEMICAL SURVEYS

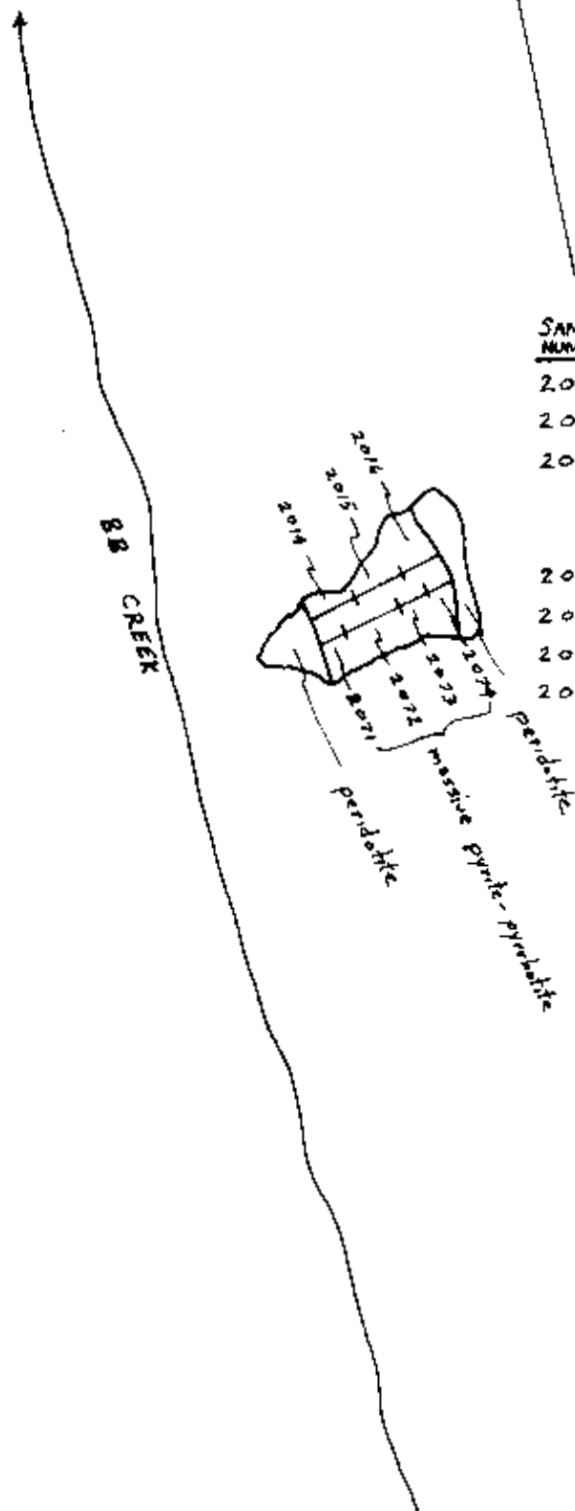
In 1977 the sulphide zone was sampled to determine its economic potential. Three chip samples were taken across the width of the band (figure 3). Because results were very low it was thought that excess weathered material was included for analysis.

In 1978 the zone was trenched by blasting and hand excavation and the fresher rock was chip-sampled across the width of the sulphide zone (four samples - figure 3).

A soils survey (27 samples) tested the ground along stike from the trench (figure 2). A 348° base line (180 metres long) and



KING CLAIM	
SOILS GEOCHEMISTRY	
JULY, 1970	SCALE- 1:1200
NTS 104-I-7W	FIG. 2



1977 SAMPLING

SAMPLE NUMBER	WIDTH	oz. Au	oz. Ag	%Cu	%Mo	%Pb.	%Zn	%Ni
2014	70cm	<0.002	0.18	0.02	0.009			0.01
2015	70cm	0.005	0.02	0.02	0.003		0.02	0.01
2016	60cm	<0.002	0.08	0.04	0.017	0.01	0.09	0.04

1978 SAMPLING

2071	40cm	<0.002	0.16		0.008			0.01
2072	80cm	<0.002	0.25		0.017			0.02
2073	40cm	<0.002	0.09	0.02	0.001			0.01
2074	40cm	<0.002	0.04		0.001			0.01

0 1 2 3 4 5 metres

KING CLAIM

ASSAYS

SEPT., 1977; JULY, 1978

SCALE - 1:100

NTS 104-I-7W

FIG. 3

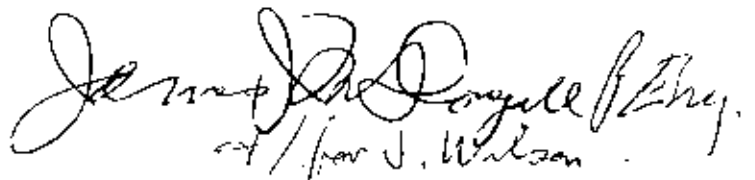
four perpendicular cross lines (each 90 metres long) were located by pace and compass and marked by surveyor's tape. Soil samples were taken at 15 metre intervals on the cross lines. Only B-horizon material was taken at depths of 8 to 15 cm.

Rock samples were collected in plastic bags and soils in Kraft paper envelopes. J. Wilson conducted the sampling in both years, assisted in 1978 by K. Ulmer, and under the direction of J. J. McDougall. In both years samples were analyzed by Bondar - Clegg and Company Limited. The mesh size fraction of soil that was analyzed was -80. Refer to Appendix C for a description of the methods of analyses.

INTERPRETATION AND CONCLUSIONS

Low values from both series of chip sampling confirm the lack of economic potential in the massive pyrite-pyrrhotite zone. No further work is needed at this site.

The soils survey produced two adjacent gold anomalies (25 and 10 ppb) that should be further examined by more soil samples and trenching. Arsenic and molybdenum values all represent background amounts for the underlying peridotites and therefore needn't be considered for further work.

A handwritten signature in cursive script, appearing to read "J. J. McDougall". Below the signature, there is a smaller handwritten note that says "for J. Wilson".

J. J. McDougall

J. Wilson

APPENDIX A

STATEMENT OF EXPENDITURES

Sept. 16, 1977	Sampling Survey	
One day wages (J. Wilson)	\$56.00/day	56.00
One day board;	\$12.50/man/day	12.50
Helicopter transport (128 km)	\$260/hr	208.00
3 Rock samples assayed as follows:		
3 for Au @ \$5.00	\$15.00	
Ag @ 5.00	15.00	
Cu 4.50	13.50	
Mo 6.00	18.00	
Pb 5.50	16.50	
Zn 5.50	16.50	
Ni 6.00	18.00	
4 sample preparation		
@ 35¢	<u>1.40</u>	113.90
		<u>390.40</u>
July 11-13, 1978	Sampling Survey	
3 days wages (J. Wilson)	\$56.00/day	168.00
3 days wages (K. Ulmer)	30.00/day	90.00
3 days board X 2 men;	\$12.50/man/day	75.00
Helicopter transport (Dease-Claim-Dease on July 11, and Dease-Claim-Dease on July 13) (256 km);	\$175/hr (2.2 hrs)	385.00
4 rock samples assayed as follows		
4 for Au @ \$5.00	\$20.00	
4 for Ag @ 5.00	20.00	
1 for Cu @ 4.50	4.50	
4 for Mo @ 6.00	24.00	
4 for Ni @ 6.00	24.00	
4 sample prep. @ 35¢	<u>1.40</u>	93.90
27 soil samples assayed for		
Au @ \$5.00	135.00	
As 9.50	256.50	
Mo 6.00	<u>162.00</u>	553.50
27 soil samples for Prep.		
@ 35¢		<u>9.45</u>
		<u>1374.85</u>

Report Preparation

Drafting (½ day)	\$25.00
Writing, typing, reproduction	<u>100.00</u>
	125.00

GRAND TOTAL

\$1890.25



WESFROB MINES LIMITED

(A wholly owned subsidiary of Falconbridge Nickel Mines Limited)

Suite 700 112 West Pender Street
Vancouver 1, B.C., Canada

Tel. (604) 682-6242

Telex 04-53245

September 7, 1978

The Chief Mining Recorder
Liard Mining Division
Victoria, B. C.

Dear Sir:

This is to certify that the sampling claimed as work in this assessment report was completed by John Wilson, a project geologist with Falconbridge Nickel Mines. He is a graduate of the University of B. C. (BSc. Geology).

Assistance was provided in 1978 by K. Ulmer, a summer employee for the past two years who has been trained in sampling procedures.

Samples were analyzed by Bondar - Clegg and Company Ltd.

I, J. J. McDougall, P. Eng., am a graduate of the University of British Columbia and a member in good standing of the Association of Professional Engineers of B. C.

Yours truly,

J. J. McDougall

JJM:ik

APPENDIX C

METHOD OF SAMPLE ANALYSIS

The samples were prepared and analyzed at the Bondar - Clegg Laboratories, Vancouver.

Method of determination for Cu, Pb, Zn, Ag, Mo, Ni, Co, Fe, and Mn (semi-quant.).

Samples are:

1. Dried in infra - red driers
2. Sieved to -80 mesh
3. Weighed on 0.5 gm.
4. Digested in LeFort aqua regia for three hours
5. Bulked to 20% acid concentration and homogenized.
6. Allowed one hour setting time
7. Analyzed by atomic absorption in constant comparison with both synthetic and matrix standards
8. Permanently recorded on chart paper.
9. Pb and Ag corrected for background interference.