Searchlight Resources Inc.

87-403-16139

218-744 West Hastings Street, Vancouver, British Columbia, Canada, V6C 1A5
Phone: (604)684-2361 or (604)271-6556

4/88

LITHOGEOCHEMICAL ASSESSMENT REPORT

on the

WANOKANA PROPERTY

NANAIMO MINING DIVISION

BRITISH COLUMBIA

Latitude: 50°67N 37'18"

Longitude: 127°45W 43'

N.T.S. 92L/12E & 12W

for

Operator: ROCHESTER MINERALS INC.
711-850 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 1E1

Daner: M. J. Pearson

by

PETER G. DASLER, M.Sc.
APRIL 25, 1987

ASSESSMENT REPORT

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SUMMARY

The Wanokana Property appears to be underlain by an intrusive rock mass showing porphyry copper affinity. A series of siliceous knobs of the property are paleo hot-spring deposits, and these may host gold mineralization at depth.

This lithogeochemical survey was completed to attempt to identify areas of epithermal style mineralization that may be shedding gold to stream catchments.

Significant gold values were obtained from stream sediments in four of the eleven sampled drainages. Elevated gold values were obtained from pyrite veinlets in a siliceous zone which adjoins an area of intense argillic alteration.

INTRODUCTION

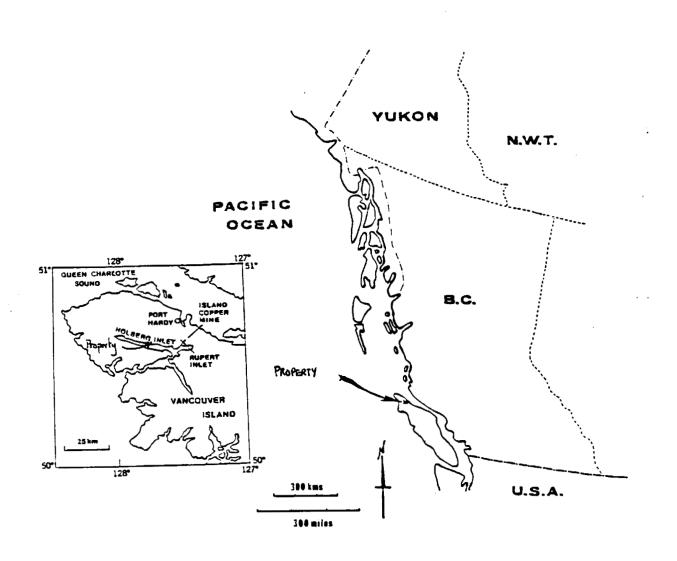
The Wanokana Property was recently optioned from Western Poccasset Resources by Rochester Minerals Inc.

This report is an addendum to the report filed March 14 1987 by Mr. B.D.Pearson, and represents a preliminary review by Rochester minerals of the potential of the claims to host economic gold mineralization.

The survey was conducted in two phases, the first in late January, by F.M. Smith, P.Eng, and the second by the author and S.D. Coombes, B.Sc. The primary method of evaluation was the detection of trace levels of gold mineralization in the heavy minerals suite of samples taken from the areas stream catchments.

PROPERTY LOCATION AND PHYSIOGRAPHY

The property is on the northern side of Holberg Inlet, Northern Vancouver Island, nine kilometers west of Coal Harbour. The coastal half of the property is a generally flat plateau at about 100meters asl., and the Northern half rises steeply to over 500 meters.



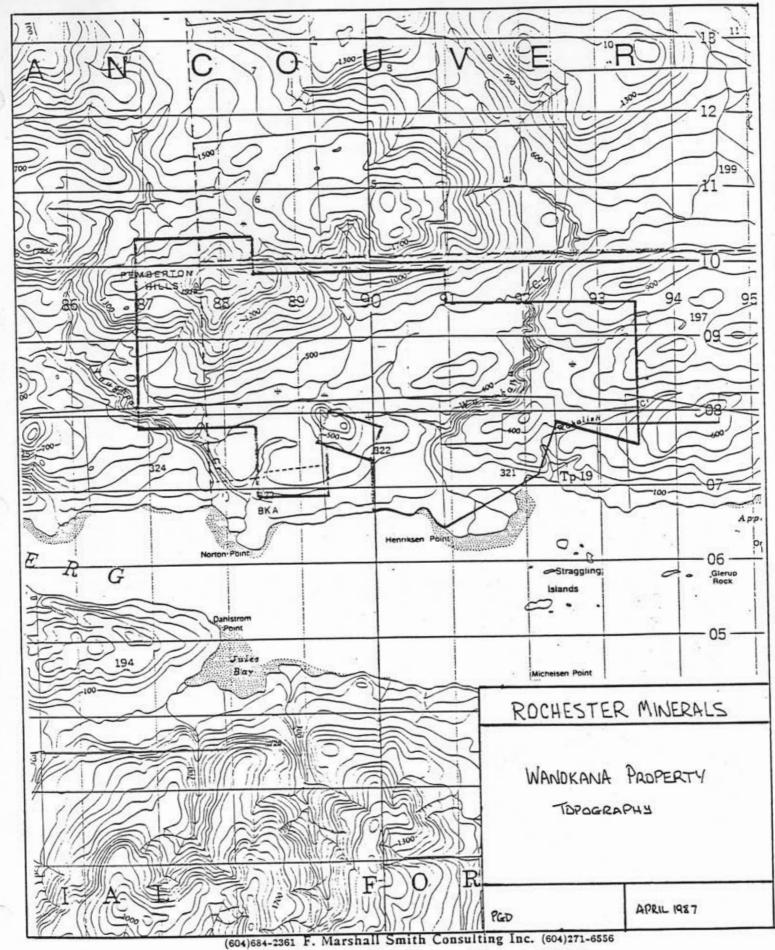
ROCHESTER MINERALS

LOCATION MAP

WANOKANA PROPERTY

PGD

APRIL 1987



)684-2361 F. Marshall Smith Consulting Inc. (604)271-65 218-744 West Hastings Street, Vancouver, B.C., Canada, V6C 1A5

The area nearer the coast is thickly forested with second growth fir, hemlock and cedar, and the higher portions of the claims are presently being logged. There is an area of swamp development in the center of the property, and two large streams, Youpan Ck. and Wanokana Ck. drain the area.

PROPERTY

The property consists of two 20 unit claims, one 15 unit claim, and 15 single unit claims. All claims have assessment work applied until at least 1990. The claims are listed in table 1.

HISTORY

The property was prospect by Utah Mines in the early 1970's, when it was part of the EXPO group. In the late 1970's the claims lapsed and Mr Pearson, an ex-Utah employee staked the ground. He has maintained the ground by limited geological prospecting of the areas surrounding the anomalies found by Utah Mines.

REGIONAL GEOLOGY

The property is in the copper belt of Northern Vancouver Island. The surrounding ground is poorly exposed, but is characterized geophysically by a series of aeromagnetic anomalies which reflect porphyry intrusive centers in Bonanza Series Volcanics, or skarn development within the Quatsino limestone.

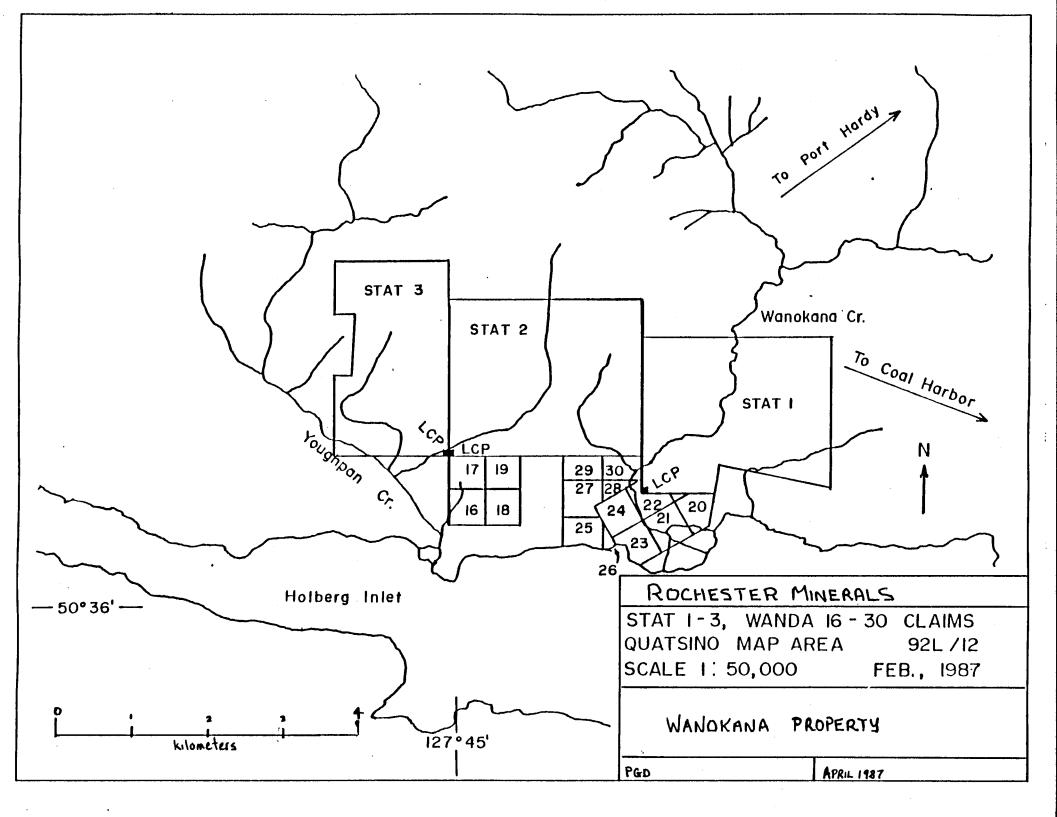
The porphyry copper mine SE of Coal Harbour operated by Utah Mines, is the major deposit of the district, however a series of skarn deposits have been worked in the past. Two small porphyry copper deposits have been outlined by Utah Mines in areas to the north of the Wanokana Property.

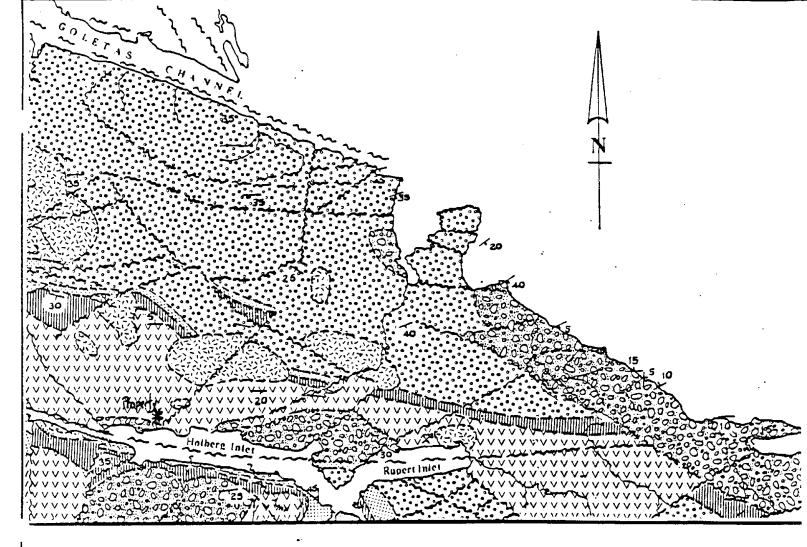
PROPERTY GEOLOGY

The property has not been adequately mapped at this stage because of the thick forest cover and lack of outcrop. Utah mines did define a large intrusive within the centre of the claims, with peripheral porphyry copper style alteration, but only drilled two holes. These holes were drilled totally within the argillically altered zone.

Table 1 Claim Record

Claim Name and number	Record number	Number of units	Owner
Wanda 16 Wanda 17 Wanda 18 Wanda 19 Wanda 20 Wanda 21 Wanda 22 Wanda 23 Wanda 24 Wanda 25 Wanda 25 Wanda 26 Wanda 27 Wanda 28 Wanda 29	1094(3) 1095(3) 1096(3) 1097(3) 1473(6) 1474(6) 1475(6) 1476(6) 1477(6) 1478(6) 1479(6) 1480(6) 1481(6)	1 1 1 1 1 1 1 1 1 1	B.D.Pearson B.D.Pearson B.D.Pearson B.D.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson M.J.Pearson B.D.Pearson B.D.Pearson
Wanda 30 Stat 1 Stat 2 Stat 3	1483(6) 2322(4) 2323(4) 2324(4)	1 20 20 15	B.D.Pearson M.J.Pearson M.J.Pearson M.J.Pearson





CRETACEOUS

Cretaceous Sediments

JURASSIC and CRETACEOUS

Island Intrusion

LOWER JURASSIC

Bonanza Volcanics

UPPER TRIASSIC

Parsons Bay Formation

Quatsino Formation

Karmutsen Formation

🛠 - Islana Copper Mine

Contact (approximate position)

Fault, (inferred)

Bedding showing dip

ROCHESTER MINERALS

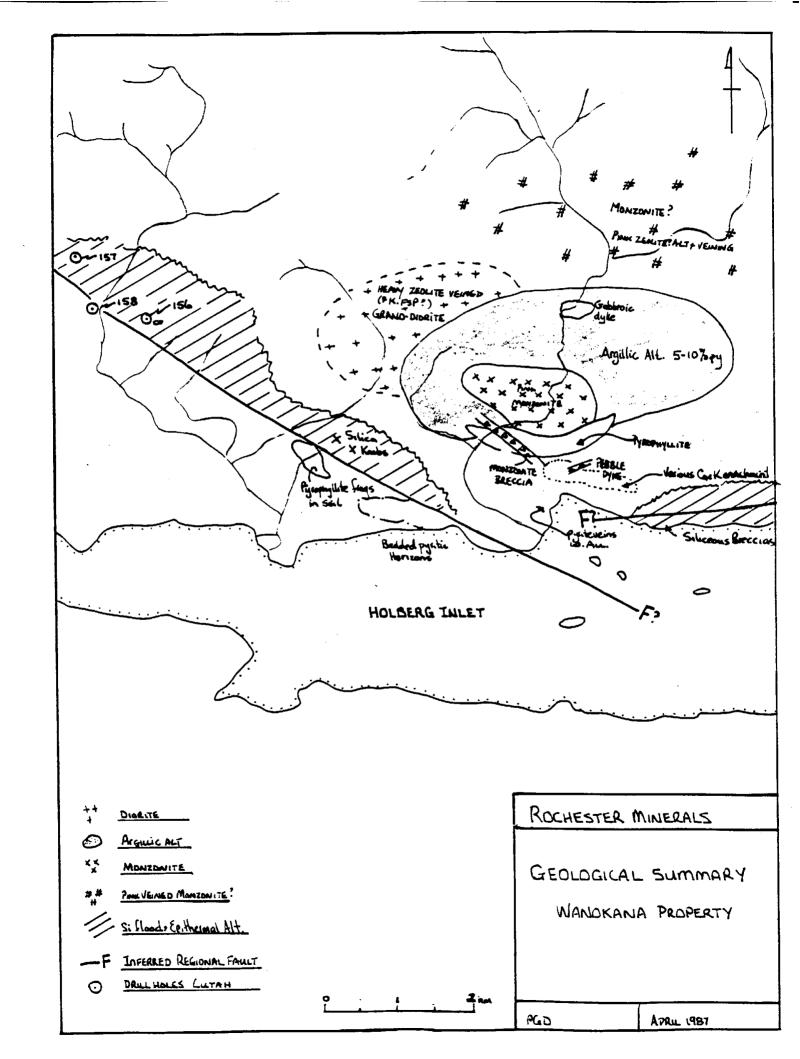
REGIONAL GEOLOGY

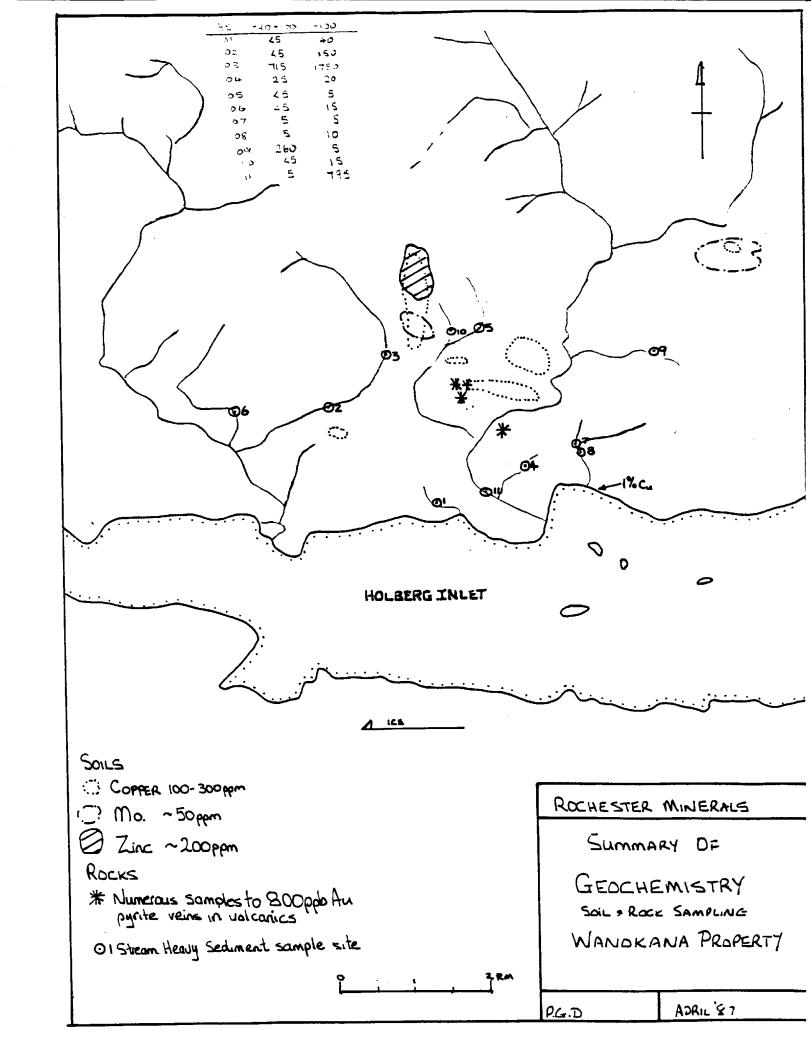
5 m i.

WANDKANA PROPERTY
(Map Modified After Muller
et al., 1973)

PGD

APRIL 1987





The "porphyry" area is largely overlain by swamp, but to the southwest a series of paleohot spring deposits are defined by resistant silica knobs.

The swampy areas of the property were the scene of mining operations for bog-iron pre-1900.

LITHOGEOCHEMICAL SURVEY

A stream sediment survey was completed to identify ares of epithermal style mineralization which may be shedding gold. In the course of the survey, eleven heavy sediment samples were taken using a suction pump and riffle concentrator. Each of the original samples of approximately one cubic meter were reduced in the field to samples of concentrate of two kilograms each.

The samples were analyzed by Chemex Labs, first by sieving at 20 and 100 mesh, then by A.A. analysis of the -100mesh fraction for gold &/ silver. The -20, +100mesh fraction was separated at SG 2.9 using heavy liquids, and the heavy concentrate analyzed by A.A. also. Values exceeding 100ppb gold are anomalous, and values exceeding 500ppb are significant.

Rock samples from the property were analyzed by standard fire assay for gold &/ silver, copper lead & zinc.

Three sediment samples showed anomalous gold values, from separate drainages, across the property. results are listed below:

	table 2					
	Heavy Mineral Samples					
sample no	-20+100 mesh Au	-100mesh Au				
Hs01	<5	40				
Hs02	<5	150				
H ₈ O3	715	1750				
Hs04	25	20				
Hs05	<5	5				
Hs06	<5	15				
Hs07	5	15				
Hs08	5	10				
Hs09	2 60	5				
Hs10	<5	15				
Hs11	5	795				

The sample locations are shown on the attached geochemistry map, and the assay sheets are attached to this report.

CONCLUSIONS

The heavy sediment samples produced three significant gold results.

The rock samples indicated low gold concentrations in pyrite veins to the east of Wanokana creek.

The author's observations of the rock alteration patterns indicate three obvious targets for gold and/or copper mineralization, these have shown mildly anomalous geochemical response, and are on, or adjacent to, geophysical anomalies.

Target 1: GOLD - deposition of gold within the boiling zone of the hot spring deposits. Clay alteration of the volcanic host rocks is evident along the northwest side of the prominent silica knobs, in the southwestern corner of the Stat 2 claim block. There are only trace gold values in the surface outcrops, as is normal in a hot spring system, however the large low lying area to the northwest may overly the boiling zone of the deposit, and hence requires geophysical investigation and possible drilling.

Target 2: GOLD - late stage auriferous pyrite veins at the rock pit on the Wanokana 1000 forest road. Mr Pearson had indicated values to 800ppb gold from these veins, and our samples showed values to 490ppb. These veins are near vertical and are up to 10cm in width. It is proposed that these veinlets are epithermal remobilization features, and the future work should concentrate on determining the paragenesis of the veins, and testing their depth extension. Intense siliceous alteration is shown to the southeast of this area, with geochemical prospecting showing zones of sodium and potassium enrichment. There are several old drill holes in this altered area but these were not analyzed for gold.

Target 3: COPPER\GOLD - the airborne and ground magnetic anomaly maps both show two zones of high intensity in the center and to the northwestern edge of the property. The anomalies are of similar magnitude and size to those adjacent to the Island Copper Mine at Coal harbour, 17 km to the southeast. A zone of pink monzonite was mapped by Cloutier (1971) in the bed of Wanokana creek in the center of the eastern mag, anomaly during the survey by Utah Mines Ltd., with peripheral pyrite, and in one case chalcopyrite and molybdenite mineralization. A brecciated monzonite dyke is mapped downstream, and upstream a gabbroic hornblende porphyry is near to the copper\moly mineralization. There is a distinct zone of propylitic alteration on the south and east boundary of the main stock with a gradation outwards, especially to the northeast, of argillic alteration in the volcanics. Epidote alteration is noted in a diorite to the northwest, and in volcanics to the southeast. There are two strong IP responses associated with this intrusive, and these flank the magnetic high to the northeast and southwest. The topographic high on the mid western side of the Stat 1 claim is centered over the core of the intrusive.

EXPENSES

The following is the cost of carrying out the programme on the Wanokana property.

Salaries and wages

P. G. Dasler, .4 Days @ \$265.00 P. G. Dasler, 4.94 Days @ \$265.00 S. D. Coombes, 4.0 days @ \$225.00	\$90.00 \$1309.10 \$900.00
Truck Rental and Transportation	\$997.43
Accomodation	\$194.06
Board	\$275.59
Supplies	\$76.56
Telephone	\$19.97
Assays (as detailed in appendix)	\$537.66
Report and Maps	\$128.82
Equipment Rental	\$100.00
Total	\$4,629.19

Peter G. Dasler, M.Sc.

April 25, 1987.

CERTIFICATE OF QUALIFICATIONS

I, Peter G. Dasler, do hereby certify that:

1. I am a contract geologist for Searchlight Resources Inc. which has offices at 218-744

West Hastings Street, Vancouver, British Columbia.

2. I am a graduate at the University of Canterbury, Christchurch, New Zealand with a

degree of M.Sc., Geology.

3. I am a Fellow of the Geological Association of Canada, an Associate Member in good

standing of the Australasian Institute of Mining and Metallurgy, and a Member of the

Geological Society of New Zealand.

4. I have practiced my profession continuously since 1975.

5. This report is based on information received from a personal field survey and reports

by Professional Engineers and others working for the previous owners and operators of

the property.

6. I have no interest in the property or shares of Rochester Minerals Inc., nor in any of

the companies with contiguous property to the Wanokana Project claims.

Peter G. Dasler, M.Sc.

April 25, 1987.

APPENDIX

SAMPLE RESULTS-ASSAY SHEETS-METHODS



212 Brooksbank Ave. North Vancouver, B.C.

Canada

V7J 2C1

(604) 984-0221 Phone:

043-52597 Telex:

Analytical Chemists

Geochemists

• Registered Assayers

*** INVOICE ***

To : SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST.

VANCOUVER, B.C.

V6C 1A5

Invoice # : 18710712

: 9-FEB-87

P.O. # Project

: NONE - Rolliter

Invoice for	analytical work	reported on	certificate(s)	A8710712-001
	Analysed for		unit	

ř	A I I CA	1,500 101		Gill 1 C	
Quantity	code	descript	tion	price	amount
2	100 -	Au ppb	FA+AA	6.50	13.0C

Sample preparation and other charges:

2	20280	mesh. save	reject	1.25	2.50
2	24010	mesh sieve	surcharge	0.85	1.70

TOTAL 5 17.20

Please pay this amount ---> \$ 17.20

TERMS -- NET 30 DAYS

•5 % per month (18 % per annum) charged on overdue accounts



Geochemists

212 Brooksbank Ave. North Vancouver, B.C.

Canada

V7J 2C1

(604) 984-0221 Phone:

Telex: 043-52597

*** INVOICE ***

To : SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST.

Analytical Chemists

VANCOUVER, B.C.

V6C 1A5

Invoice # : 18710709

Registered Assayers

: 7-FEB-87

P.O. #

: NONE

Project WANDKANA

Invoice for analytical work reported on certificate(s) A8710709-001 Analysed for

1	Alla	13260 101		unt	
Quantity	code	descript	ion	price	amount
1	006 -	Ag ppm	Aqua R		
	100 -	Au ppb	FA+AA	8.60	8.60
5	002 -	Cu	ppm		
	004 -	Pb	mqq		
	005 -	Zn	ppm		
	006 -	Ag ppm	Aqua R		
	100 -	Au ppb	FA+AA	11.30	56.50

Sample preparation and other charges:

205 - Rock geochem - RING

2.75

16.50

TOTAL \$ 81.60

Please pay this amount ---> \$

=======

TERMS -- NET 30 DAYS

1.5 % per month (18 % per annum) charged on overdue accounts

V01 REV 5/86



212 BROOKSBANK AVE., NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2C1 PHONE (604) 984-0221 * INVOICE 18713545

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

CHEMEX	ANALYSIS DESCRIPTION	SAMPLES ANALYZEI	UNIT PRICE	AMOUNT
100 -	Au ppb FA+A	9	6.75	60.75
Sample p	reparation and ot	r charges :		
201 -	Soil + sediment	0 mesh 9	1.00	9.00
		1	Total Cost	\$ 69.75
		тоти	AL PAYABLE	\$ 69.75

B	I	L	L	I	N	G		I	N	F	0	R	M	A	T	Ι	0	N	
		_		_			_			_				_					

Date : 22-APR-87
Project : WANOKANA
P.O. # : NONE
Account : DEU

Billing: For analysis performed on

Certificate A8713545

Terms: Net payment in 30 Days

1.5% per month (18% per annum) charged on overdue accounts.

Please remit payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2Cl





-1

Chemex Labs Ltd

212 BROOKSBANK AVE. NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2C1 PHONE (604) 984-0221 To: SEARCHLIGHT RESOURCES INC

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

INVOICE

CHEMEX Analysis Code Description	Samples Analyzed	Unit Price	Amount
100 - Au ppb FA+AA	2	6.50	13.00
Sample preparation and other cha	irges :		
205 - Rock geochem - RING	2	2.75	5.50
	Т	otal Cost	18.50
	AMOUN	T PAYABLE	18.50

Date : 23-MAR-87 Project :

P.O. # : NONE

Client: Code (DEU)

Billing: For Analysis Performed on

I 8 7 1 2 4 0 9

Certificate A8712409

Terms: Net Payment in 30 Days

1.5% per month (18% per annum) charged on overdue accounts.

Please remit payments to:
CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1





Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2C1 PHONE (604) 984-0221 * INVOICE 18713472

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

CHEMEX	ANALYSIS DESCRIPTION	SAMPLES ANALYZED	UNIT PRICE	AMOUNT
100 -	Au ppb FA+AA	9	6.75	60.75
Sample p	reparation and other charges	: :		
213 -	Heavy min sep SG 2.96	9	15.00	135.00
		То	tal Cost \$	195.75
		TOTAL	PAYABLE \$	195.75

BILLING INFORMATION

Date : 23-APR-87
Project : WANOKANA
P.O. # : NONE
Account : DEU

Billing: For analysis performed on

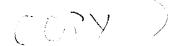
Certificate A8713472

Terms: Net payment in 30 Days

1.5% per month (18% per annum) charged on overdue accounts.

Please remit payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1





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

PHONE (604) 984-0221

* INVOICE 18713471

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

CHEMEX	ANALYSIS DESCRIPTION	SAMPLES ANALYZED	UNIT PRICE	AMOUNT
6 - 100 -	Ag ppm Aqua R Au ppb FA+AA	3	9.00	27.00
100 -	Au ppb FA+AA	3	6.75	20.25
Sample	preparation and other	charges :		
205 -	Rock/Core - RING	6	3.00	18.00
		То	tal Cost \$	65.25
		TOTAL	PAYABLE \$	65.25

BILLING INFORMATION

Date : 16-APR-87
Project : WANOKANA
P.O. # : NONE
Account : DEU

Billing: For analysis performed on

Certificate A8713471

Terms: Net payment in 30 Days

1.5% per month (18% per annum) charged on overdue accounts.

Please remit payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CON



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

PHONE (604) 984-0221

CERTIFICATE OF ANALYSIS A8713545

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C.

V6C 1A5

Project : WANOKANA

Comments:

Page No. : 1 Tot. Pages: 1

Date : 22-APR-87 Invoice #: I-8713545

P.O. # : NONE

SAMPLE DESCRIPTION	PRE		Au ppb FA+AA						
HS 003 -100 HS 004 -100 HS 005 -100 HS 006 -100 HS 007 -100	201 201 201 201 201		1750 20 5 15						
HS 008 -100 HS 009 -100 HS 010 -100 HS 011 -100	201 201 201 201 201	==	10 5 15 795	/					
									-
						,			

CERTIFICATION : Start Buchler



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

PHONE (604) 984-0221

CERTIFICATE OF ANALYSIS A8713472

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

Page No. :1
Tot. Pages:1
Date :23-APR-87
Invoice #:I-8713472
P.O. #:NONE

Project : WANOKANA

Comments:

SAMPLE PREP DESCRIPTION CODE	Au ppb FA+AA		
HS 003 -20+100 213 HS 004 -20+100 213 HS 005 -20+100 213 HS 006 -20+100 213 HS 007 -20+100 213	715 25 < 5 < 5		
HS 008 -20+100 HS 009 -20+100 HS 010 -20+100 HS 011 -20+100 213 213 213	2 6 0 < 5 5		

CERTIFICATION: Suchler



212 BROOKSBANK AVE., NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2CI PHONE (604) 984-0221

A8710709 CERTIFICATE OF ANALYSIS

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C.

V6C IAS

:07-FEB-87 Date Invoice # : I-8710709

P.O. I :NONE

Page No. : 1 Tot. Pages: 1

Project : WANOKANA

Comments:

SAMPLE DESCRIPTION	PRE	Cu ppm	Pb ppm		Ag ppm . Aqua R	Au ppb FA+AA			
8518 D 8520 D 8521 D 8522 D 8523 D	205 205 205 205 205 205	 2 1 2 2 4 4 1 4	1 3 9 8 5	7 4 1 2 3 8	0 . 1 0 . 1 0 . 1 0 . 1 0 . 1	<pre>< 5 < 5 < 5 < 5 < 5 </pre>			
8524 D	205	 7	9	18	0.1	< 5	1		
		·							
									·

CERTIFICATION : __



111 BROOKSBANK AVE., NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2CI

PHONE (604) 984-0221

CERTIFICATE OF ANALYSIS A8713471

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

Page No. : 1 Tot. Pages: 1 Date : 15-APR-87 Invoice #: I-8713471

P.O. # :NONE

Project : WANOKANA

Comments:

SAMPLE DESCRIPTION	PRE		Au ppb FA+AA				
54151 G 54152 G 54153 G 54154 G 54155 G	205 205 205 205 205 205	 4 . 8 1 . 8 3 . 7	490 70 65 5				
54156 G	205	 	5				

		ctr. tr	Sichles
CERTIFICATION	:	10001	- crose



Analytical Chemists * Geochemists * Registered Assayers 212 BROOKSBANK AVE., NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

CERTIFICATE OF ANALYSIS A8712409

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C. V6C 1A5

Project : WANDKANA

Comments:

Page No. : 1 Tot. Pages: 1 Date : • +--- + • Invoice #: I-8712409

P.O. # :NONE

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA					
8519D +80 H501 8525D +80 H502	205	< 5 < 5					
-				-			
					·		-
				·			

tout Bichler CERTIFICATION:



Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

CERTIFICATE OF ANALYSIS A8710712

To: SEARCHLIGHT RESOURCES INC.

218 - 744 W. HASTINGS ST. VANCOUVER, B.C.

V6C 1A5

Project : Comments: Page No. : 1
Tot. Pages: 1
Date : 07-FEB-87

Invoice #: I-8710712 P.O. #:NONE

SAMPLE PREP DESCRIPTION CODE	Au ppb FA+AA		
8519 D #5 01 -100 202 8525 D #502 -100 202	40 150		

CERTIFICATION : ___

Hart Bichler