OFFICE OF THE CHIEF ANALYST AND ASSA

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

888337
Surf Inlet

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM T. SCHROETER

ADDRESS P. O. Box 877, Smithers, B. C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
17503M	SI 1	Au - 33 ppm Ag - 25 ppm Cu - 1.12%

DATE May 3, 1977

W. M. Johnson
CHIEF ANALYST AND ASSAYER.

OFFICE OF THE CHIEF ANALYST AND ASSAYER

THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

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ADDRESS P.O. Box 877, Smithers, B.C.

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSIS

Laboratory No.	17503M						
Submitter's No.	SI -1						
Si	ADDED						
Mn	0.02						
Al	5.0						
Mg	T						
Pb	–						
Ca	–						
Fe	>20.0						
V	T						
Cu	1.5						
Ag	T+						
Zn	–						
Na	–						
K	–						
Ti	T						
Zr	T						
Ni	T						
Co	0.02						
Sr							
Cr	T						
Ba	T						
Traces:	Mo						

DATE May 3, 1977

W. Johnson
CHIEF ANALYST AND ASSAYER

LAB SERVICES

SUBMITTER Tom SCHROETER DATE SUBMITTED Apr. 19/77

Area/property Burtdale - Surf Inlet Min. NTS 103 H/1

Field Number(s) SI-1

Lab Number(s)

WORK REQUESTED

- ☐ Major oxide analysis ☐ complete ☐ partial
- ☐ Trace element analysis ☐ quant. ☐ semi-quant.
- ☐ Assay
- ☐ Soil/silt analysis
- ☐ X-ray analysis ☐ dA requested
- ☐ Arc fusion ☐ quartz
- ☐ Mineral separation

Bulletin ☐ GEM ☐ Talk ☐

Other ☐ Prep Exam.

Date Required ASAP

Special Instructions and Comments

Nature of sample(s)

Massive pyrite with quartz gangue.

☒ Assay (x) for elements desired

☐ Trace element Analysis (ppm) (✓) for elements desired

☐ Quantitative ☐ Semi-Quant.

☒ Cu	☐ Cu oxide	☐ Fe	☐ Ba
☐ Pb		☐ Mn	☐ Zr
☐ Zn		☐ V	☐ Ga
☐ Mo	☐ MoS_2 ☐ Mo oxide	☐ Ti	☐ Sn
☒ Au		☐ Ni	☐ Cr
☒ Ag		☐ Co	☐ W
☐ Si		☐ Na	☐ F
☐ Al		☐ K	☐ Cl
☐ Mg		☐ Sr	☐
☐ Ca		☐ Rb	☐

OXIDE ANALYSIS

☐ Partial ☐ Complete

(check off oxides desired)

☐ SiO_2	☐ H_2O+
☐ TiO_2	☐ H_2O-
☐ Al_2O_3	☐ CO_2
☐ Fe_2O_3	☐ SO_3
☐ FeO	☐ P_2O_5
☐ MnO	☐
☐ MgO	☐
☐ CaO	☐
☐ Na_2O	☐
☐ K_2O	☐

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

ANALYTICAL SERVICES REQUEST

Submitter: TOM SCHROETER
Number of samples: 6
Special instructions:
Project: PRINCESS ROYAL IS.
Area: SURF INLET
Air photo:
Card: 1 of 1
Date submitted: JAN. 23/85
Date required:
Priority:
Date started: Jan 24/85
Date reported: 4 MARCH 1985 - Specs to follow.
16 APRIL 1985 - Specs
Chief Analyst: W m Johnson
PRINT CLEARLY (use dark pen or pencil)

	NTS	FLD NO	ZN	UTM E	UTM N	RXTYAG	PROPERTY	COMMENTS
1	103H2W	SURF 851	10	128°56'	53°03'	MRL 7421	3 SURF INLET	
2	103H2W	SURF 852	10	128°50'	53°03'	MRL 7421	4 SURF INLET	
3	103H2W	SURF 853	10	128°50'	53°03'	MRL 7421	4 SURF INLET	
4	103H2W	SURF 854	10	128°50'	53°03'	MRL 7421	3 SURF INLET	
5	103H2W	SURF 855	10	128°50'	53°03'	MRL 7421	3 SURF INLET	
6	103H2W	SURF 856	10	128°56'	53°03'	MRL 7421	3 SURF INLET	

	LAB NO	OXIDE	SPEC	XRD	MIN	PRP	Au	Ag	Cu	Pb	Zn	Co	Ni	Mo	Cr	Hg	As	Sb	Ba	Sr
1	29630		C	P	SQ	Q	SEP		62	8	0.109	<0.005	<0.003							
2	29631		C	P	SQ	Q	SEP		29.8	31	0.71	<0.005	0.004							
3	29632		C	P	SQ	Q	SEP		4.1	9	1.15	<0.005	0.003							
4	29633		C	P	SQ	Q	SEP		89.6	19	1.09	<0.005	0.002							
5	29634		C	P	SQ	Q	SEP		5.8	<5	0.74	<0.005	<0.002							
6	29635		C	P	SQ	Q	SEP		8.2	7	0.32	<0.005	0.002							

SPECTROGRAPHIC REPORT

1 Si≥10.0 Al3.0 Mg2.6 Ca≥10.0 Fe≥10.0
Pb T Cu1.2 Zn — Mn0.6 Ag T V T Ti0.06 Ni T
Co0.01 Na0.5 K≤0.3 W —, Sr0.01, Ba0.02
TRACE:- As, Bi, Mo, Zr, Cr, Y, Yb, Au

2 Si≥10.0 Al≤0.1 Mg≤0.1 Ca≤0.1 Fe≥10.0
Pb — Cu0.8 Zn T Mn0.02 Ag T V — Ti T Ni T
Co T Na≤0.3 K≤0.3 W —
TRACE:- Zr, Ba, Yb

3 Si≥10.0 Al0.4 Mg≤0.1 Ca≤0.1 Fe≥10.0
Pb — Cu1.3 Zn T Mn0.03 Ag T↓ V — Ti T Ni T
Co0.12 Na≤0.3 K≤0.3 W —, Mo 0.01
TRACE:- As, Ba, Yb

4 Si≥10.0 Al0.3 Mg0.15 Ca≤0.1 Fe10.0
Pb — Cu1.1 Zn T Mn0.09 Ag T V — Ti0.02 Ni T
Co T Na≤0.3 K≤0.3 W —
TRACE:- As, Mo, Zr, Ba, Cr, Au↑

5 Si≥10.0 Al0.1 Mg≤0.1 Ca≤0.1 Fe≥10.0
Pb — Cu0.8 Zn T Mn0.08 Ag T↓ V — Ti T Ni T
Co T Na≤0.3 K≤0.3 W —
TRACE:- As, Mo, Zr, Ba, Cr, Yb

6 Si≥10.0 Al0.1 Mg≤0.1 Ca≤0.1 Fe≥10.0
Pb — Cu0.4 Zn T Mn0.06 Ag T↓ V — Ti T Ni T
Co T↑ Na≤0.3 K≤0.3 W —
TRACE:- As, Mo, Ba, Cr, Yb

X–RAY DIFFRACTION REPORT AND COMMENTS

KEY

COLUMNS 28–31

UMFC	ultramafic	GRNS	greenstone	TRCT	trachyte	SKRN	skarn	SNDS	sandstone
ANDS	andesite	MNZN	monzonite	TUFF	tuff	GOUG	gouge	SHLE	shale
BSLT	basalt	OBSD	obsidian	AMPB	amphibolite	ARGL	argillite	SLSN	siltstone
CRBN	carbonatite	PNLT	phonolite	CLCC	calc-silicate	CHRT	chert	MRLZ	mineralization
DCIT	dacite	QZPP	quartz porphyry	GNSS	gneiss	COAL	coal	MVSP	massive sulphide
DORT	diorite	RYLT	rhyolite	MRBL	marble	DLMT	dolomite	DISS	disseminated
GBBR	gabbro	SRPN	serpentinite	PLLT	phyllite	LMSN	limestone	SCKK	stockwork
GRNT	granite	SNKN	shonkinite	SCST	schist	MARL	marl	VEIN	vein
GRDR	granodiorite	SYNT	syenite	HRFL	hornfels	QRTZ	quartzite	ALRZ	alteration

COLUMNS 32 – 33

04	Proterozoic	12	Cambrian	21	Mississippian	34	Jurassic
05	Helikian	14	Ordovician	22	Pennsylvanian	36	Cretaceous
06	Hadrynian	16	Silurian	24	Permian	40	Cenozoic
10	Paleozoic	18	Devonian	30	Mesozoic	42	Tertiary
11	Prot.–Paleozoic	20	Carboniferous	32	Triassic	44	Quaternary
						50	Unknown

COLUMN 34 SAMPLE TYPE

1	Single grab sample
2	Channel/chip
3	Composite sample
4	Drill core
5	Talus or transported
6	Soil
7	Silt
8	Other

COLUMN 35 % SULPHIDE

0	<0.5
1	0.5–1
2	1–10
3	10–50
4	>50

COLUMNS 36 – 43

Mineral Inventory Number or property name

COLUMNS 44 – 80

Comments

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMMISSION SPEC
XR	X–RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC
S	STEEL

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

MINISTRY OF ENERGY, MINES & PETROLEUM RESOURCES
Rec'd MAR 8 1985
SMITHERS, B.C.

ANALYTICAL SERVICES REQUEST

Submitter TOM SCHROETER
Number of samples 6
Special instructions
Project PRINCESS ROYAL I.S.
Air photo
Date submitted JAN. 23/85
Date required
Area SURF INLET
Card 1 of 1
Priority
Date started Jan 28/85
Date reported 4 MARCH 1985
Chief Analyst W M Johnson
PRINT CLEARLY (use dark pen or pencil)

	NTS	FLD	NOZ	NUTM E	UTM N	RXT	YAG	ST	SPROPERTY	COMMENTS
1	103H2W	SURF851	128°56'	53°03'		MRL	2	42	13	SURF INLET
2	103H2W	SURF852	128°50'	53°03'		MRL	2	42	14	SURF INLET
3	103H2W	SURF853	128°50'	53°03'		MRL	2	42	24	SURF INLET
4	103H2W	SURF854	128°50'	53°03'		MRL	2	42	13	SURF INLET
5	103H2W	SURF855	128°50'	53°03'		MRL	2	42	13	SURF INLET
6	103H2W	SURF856	128°50'	53°03'		MRL	2	42	13	SURF INLET

	LAB	NO	OXIDE	SPEC	XRD	MINPR	PAu	Ag	Cu	Pb	Zn	Co	Ni	Mo	Cr	Hg	As	Sb	Ba	Sr
1	28630		C	P	SQ	Q	SEP	62	8	0.109	<.005	<.003								
								(1.81)	(.23)											
2	28631		C	P	SQ	Q	SEP	29.8	31	0.71	<.005	0.004								
								(.87)	(.90)											
3	28632		C	P	SQ	Q	SEP	4.1	9	1.15	<.005	0.003								
								(.12)	(.26)											
4	28633		C	P	SQ	Q	SEP	89.6	19	1.09	<.005	0.002								
								(2.614)	(.55)											
5	28634		C	P	SQ	Q	SEP	5.8	<5	0.74	<.005	<.002								
								(.17)												
6	28635		C	P	SQ	Q	SEP	8.2	7	0.32	<.005	0.002								
								(.24)	(.20)											

SPECTROGRAPHIC REPORT

1 Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**2** Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**3** Si___ Al___ Mg___ Ca___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Co___ Na___ K___ W___
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DCIT	dacite	QZPP	quartz porphyry	GNSS	gneiss	COAL	coal	MVSP	massive sulphide
DORT	diorite	RYLT	rhyolite	MRBL	marble	DLMT	dolomite	DISS	disseminated
GBBR	gabbro	SRPN	serpentinite	PLLT	phyllite	LMSN	limestone	SCKK	stockwork
GRNT	granite	SNKN	shonkinite	SCST	schist	MARL	marl	VEIN	vein
GRDR	granodiorite	SYNT	syenite	HRFL	hornfels	QRTZ	quartzite	ALRZ	alteration

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