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FIELD
COPY

SALMON RIVER - M468

REPORT COVERING FOLLOW-UP OF 1977 STREAM DETRITUS SAMPLING IN THE SALMON RIVER AREA

January to May 1978 Inclusive

NTS 92F/13 92K/4 92K/3

NANAIMO MINING DIVISION

by

G. W. Laforme
Geologist

for

Chevron Standard Limited
Minerals Staff
901-355 Burrard Street
Vancouver, B.C. V6C2G8

May 1978

INTRODUCTION

In October 1977, 20 bulk samples of stream detritus were collected, each separated into 19 fractions, and analyzed for Cu, Pb, Zn and Mo. A microscopic examination of one or more fractions from each sample was carried out.

A preliminary evaluation of the results obtained, indicated sample sites V7 and V8 were highly anomalous in Cu, Pb and Zn; V16 anomalous in Cu; V1 in Cu and Pb. Scheelite was noted in sample V1 as well.

This survey was an initial attempt to determine the reason for the anomalies produced by the above sampling program.

SUMMARY

April 14 - 18 with Jim Chapman

			Samples Collected		
			Bulk	Panned	Rock
Field checking	Greenstone Cr.	Fig. 1	GL-78-B15	GL-78-P15	
"	V7 Cr.	Fig. 2	GL-78-B16	GL-78-P16	
"	North Memekay R.	Fig. 2	GL-78-B17	Gl-78-P17	(R 7 (R10
"	V8 Cr.	Fig. 2		GL-78-P18	R 8

RECOMMENDATIONS

Further prospecting should be carried out on:

(1) V8 Creek

(2) The North Memekay River

(3) V1 Creek Fig. 3

(4) Greenstone Creek Upstream from Crown Grants L1215, L1216

FIELD METHODS

(Fig. 2) Site V7 Creek was sampled and prospected over a length of some 2 miles (3.2 km). The creek cuts through the Parsons Bay Formation (limy argillite member) for the lower ¼ mile (0.4 km) of its length. Fractures in the argillite are calcite filled with minor sphalerite, galena, and chalcopyrite in isolated instances.

(Fig. 2) Site V8 Creek was sampled and prospected for the lower mile (1.6 km) which flows along the Parsons Bay Formation. A fossiliferous bed in the argillite is exposed just above the logging road bridge. A specimen was obtained, monotis subcircularis?, and sent to the Geological Survey of Canada for positive identification.

Visible sphalerite was found in a calcite filled fracture in porphyritic andesite float (GL-78-R8). Minor calcite filled fractures in argillite were noted with traces of galena and sphalerite. Coarse breccia float was observed approximately 1 mile (1.6 km) upstream from V8 creek's confluence with the White River.

Site V12 North Memekay River was prospected and sampled for 1.25 miles (2.0 km). Two very fine gold nuggets were found in a panned sample. Sphalerite, 0.25 inches (6 mm) thick, was found in a rusty coloured fracture in a grey weathered, brecciated cobble some 5 inches (125 mm) in diameter, composed of very fine grained andesitic fragments $\leq$ 1 inch (25 mm) with a coarser grained dioritic matrix.

A pyritized ammonite fossil, found on a logging road 70 feet (21 meters) above the stream surface, was sent to the Geological Survey of Canada for identification.

(Fig. 1) Site V16 Greenstone Creek was sampled near the upstream boundary of Crown Grant #1215.

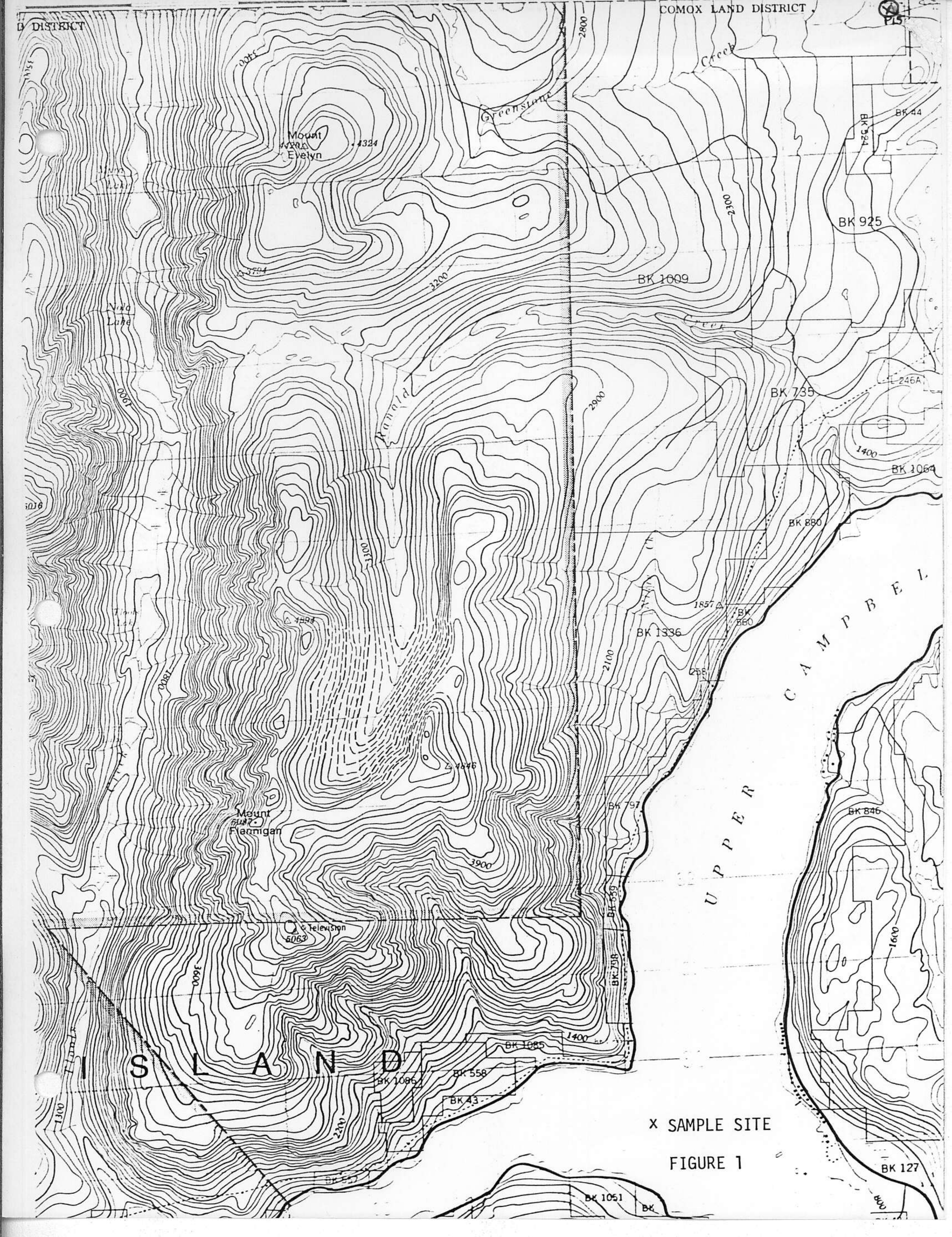
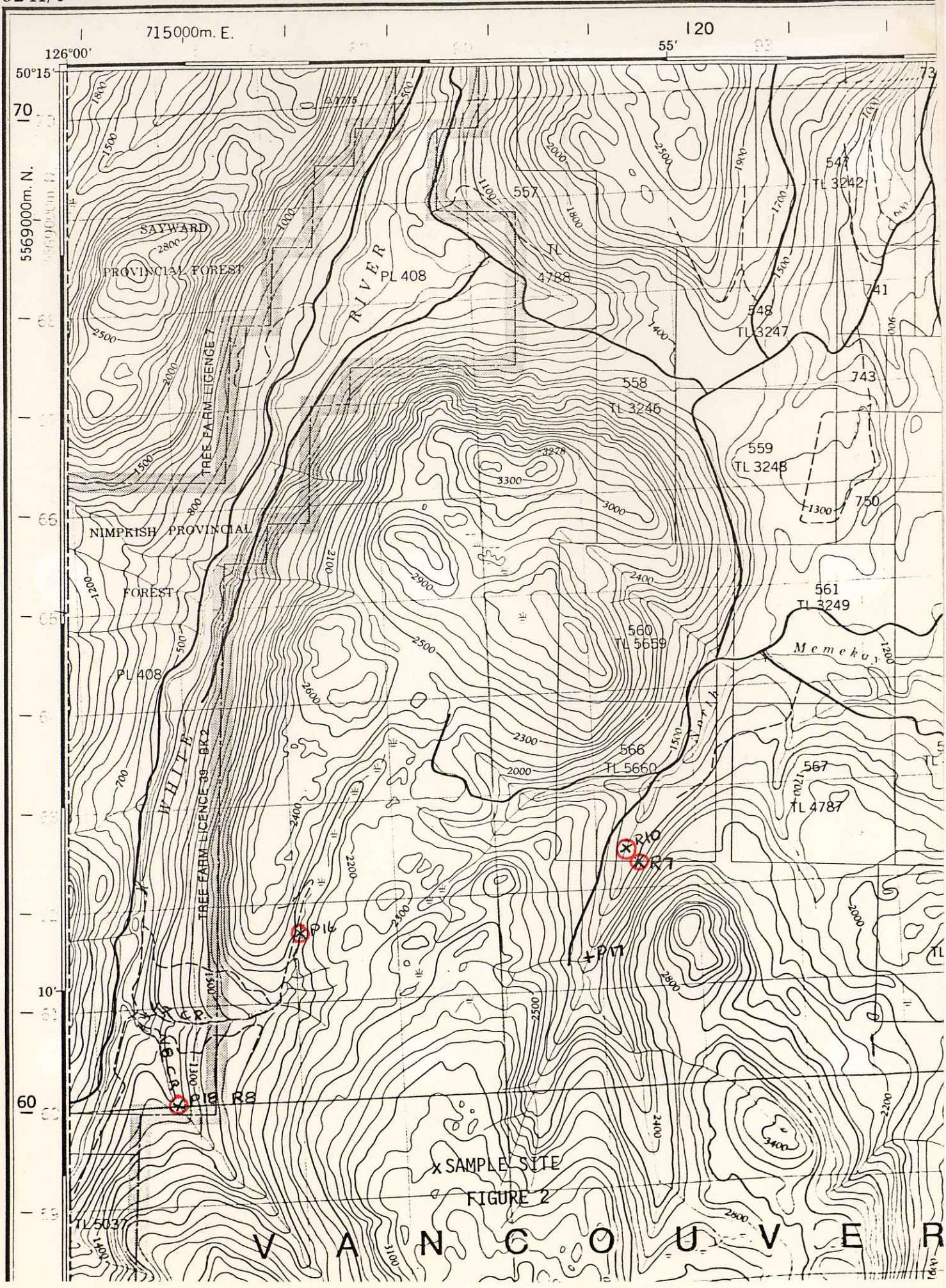
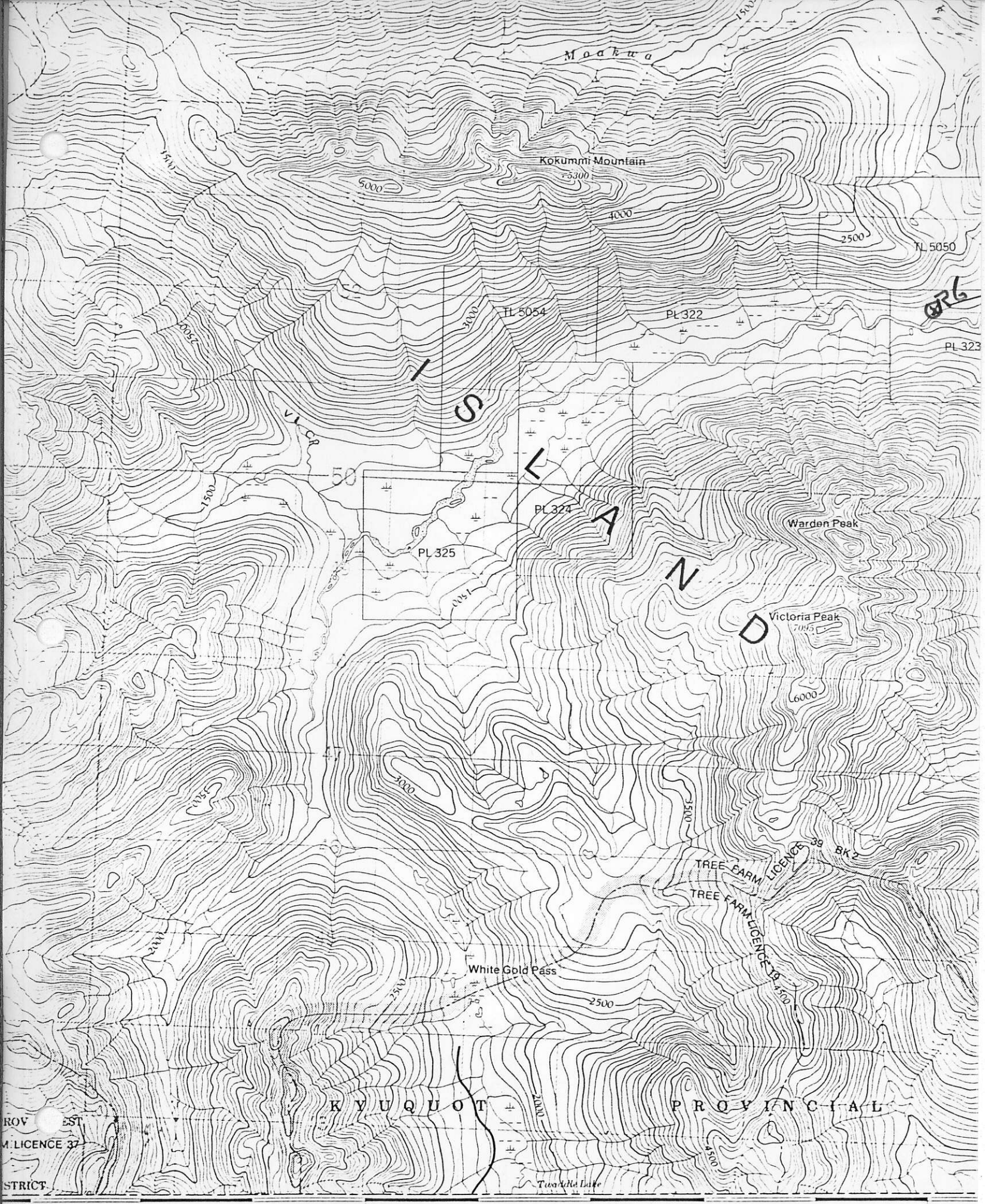

COMOX LAND DISTRICT
D DISTRICT
Mount Evelyn
4324
Greenstone Creek
BK 44
BK 524
BK 925
BK 1009
3200
2300
2800
2900
BK 735
246A
1400
BK 1064
BK 880
3100
BK 1336
1857
BK 860
2100
UPPER CAMPBELL
4646
BK 797
Mount Flannigan
3900
BK 559
BK 846
Television
5063
3600
BK 798
1600
1400
BK 1085
ISLAND
BK 1086
BK 558
BK 43
2200
1300
BK 552
BK 1051
BK 127
X SAMPLE SITE

FIGURE 1

92 K/4


715000m. E.
120
55'
126°00'
50°15'
70
10'
60
5569000m. N.
SAYWARD
PROVINCIAL FOREST
NIMPKISH PROVINCIAL
FOREST
TREE FARM LICENCE 7
TREE FARM LICENCE 39 BK2
RIVER
WHITE
PL 408
557
TL 4788
547
TL 3242
548
TL 3247
741
743
558
TL 3246
559
TL 3248
750
561
TL 3249
560
TL 5659
Memekay
566
TL 5660
567
TL 4787
R10
R7
P16
P17
R18
R8
TL 5037
x SAMPLE SITE
FIGURE 2
V A N C O U V E R



DISTRICT

10′ 05′

170 x SAMPLE SITE FIGURE 3

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 3N5 PHONE: 237-3110

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PROJECT: M 468

SEMI-QUANTITATIVE ANALYSIS

No: 28 - 131

Sample No. GL-78 - R7 From: Chevron Standard Ltd.

Method: X R F Date: May 1, 19 78

No. of Elements: 32 Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3								X		
Total Fe (Fe_2O_3)									X	
MgO							X			
CaO									X	
Na_2O					X					
K_2O				X						
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr		X								
Mn					X					
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr			X							
Y	X									
Zr	X									
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba		X								
La	X									
Ce	X									
W	X									
Pb		X								
Bi	X									
Th	X									
U	X									

Salmon River

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Geochemical Lab Report

Extraction Hot AquaRegia — Report No. 28 - 143 PROJECTS: M 467 & 468

Method Atomic Absorption — From Chevron Standard Ltd.

Fraction Used — Date April 26, 19 78

SAMPLE NO.	Cd ppm	IN PPM	ZN/CD		Pb	PB/CD		REMARKS
GL - 78 - R 5	2.2	166	75		128	58		
P15	0.2	89	445		<2	10		CONTROL
P18	1.0	245	245		8	31		

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VANCOUVER OFF.

Geochemical Lab Report

Extraction: Cu,Pb,Zn,Ag; Hot Aqua Regia
Au; Fire Assay & Hot Aqua Regia

Report No. 28 - 131 PROJECT: M 468

Method: Atomic Absorption

From: Chevron Standard Ltd.

Fraction Used:

Date: April 21 19 78

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb			REMARKS
GL - 78 - R6	-	-	-	1.2	155			
GL - 78 - R7	-	-	-	0.8	60			
GL - 78 - R8	24	42	124	-	-			
								Spec to follow

BONDAR-CLEGG & COMPANY LTD.

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Geochemical Lab Report

Extraction: Ag; Hot Aqua Regia W; Basic Fusion
Au; Fire Assay & Hot Aqua Regia
W; Colorimetric

Method: Ag,Au; Atomic Absorption

Fraction Used:

Report No. 28 - 262 PROJECT: M 467

From: Chevron Standard Ltd.

Date: June 5 19 78

SAMPLE NO.	Ag ppm	W ppm	Au ppb		SAMPLE NO.				
GL-78-R10	2.9	3	55						

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VANCOUVER OFFICE

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1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction: Cu,Pb,Zn,Mo,Ag; Hot Aqua Regia
Au; Fire Assay & Hot Aqua Regia

Report No. 28 - 134 PROJECT: M 468

Method: Atomic Absorption

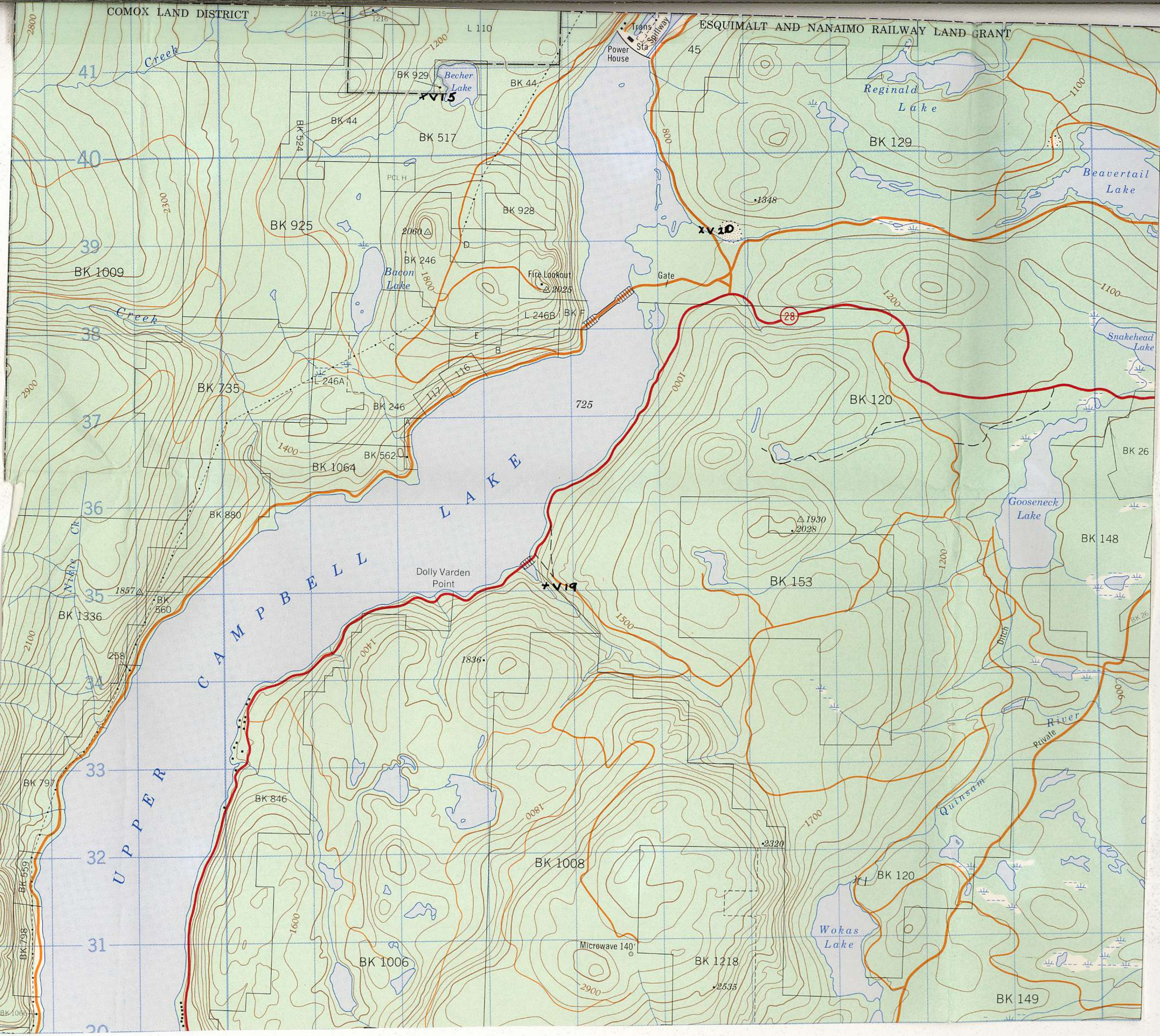
From: Chevron Standard Ltd.

Fraction Used:

Date: April 25 19 78

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Au ppb		REMARKS
GL - 78 - R 9	10	-	-	-	0.3	10		
P 15	102	< 2	89	1	-	-		
P 16	58	6	72	1	-	-		
P 17	44	6	145	1	-	-		
P 18	123	8	245	2	-	-		

D-15



COMOX LAND DISTRICT
ESQUIMALT AND NANAIMO RAILWAY LAND GRANT
Power House
Trans Sta
Spillway
Becher Lake
Reginald Lake
Beavertail Lake
Snakehead Lake
Gooseneck Lake
Bacon Lake
Wokas Lake
UPPER CAMPBELL LAKE
Dolly Varden Point
Fire Lookout
Gate
Microwave 140'
Creek
Nikie Ck
Quinsam River
Private
Ditch
BK 929
BK 44
BK 517
BK 524
BK 129
BK 925
BK 928
BK 246
BK 1009
BK 735
BK 1064
BK 562
BK 880
BK 1336
BK 560
BK 797
BK 846
BK 1008
BK 1006
BK 1218
BK 120
BK 153
BK 148
BK 149
BK 26
BK 559
BK 798
L 110
L 246A
L 246B
BK F
PCLH
28
725
1348
2060
2025
1930
2028
1836
1857
258
2320
2535
XV15
XV20
XV19

COMOX LAND DISTRICT

ESQUIMALT AND NANAIMO RAILWAY LAND GRANT

L 110

BK 929

Becher Lake

BK 44

BK 524

BK 517

PCL H

BK 928

BK 925

2060△

BK 246

Bacon Lake

Fire Lookout △2025

L 246B

BK F

Gate

BK 1009

Creek

L 246A

BK 735

BK 246

BK 562

BK 1064

725

BK 880

Power House

Trans Sta

Spillway

45

Reginald Lake

BK 129

•1348

Beavertail Lake

28

Snakehead Lake

BK 120

BK 26

Gooseneck Lake

△1930

•2028

BK 148

BK 153

Ditch

River

Private

Quinsam

Wokas Lake

BK 149

BK 1008

BK 1218

•2535

•2320

Microwave 140'

BK 1006

BK 846

BK 797

BK 559

BK 798

BK 1336

BK 560

1857△

258

Dolly Varden Point

1836•

UPPER CAMPBELL

LAKE

Creek

Ck

41

40

39

38

37

36

35

34

33

32

31

30

1215

1216

1200

2800

2300

1800

2900

1400

2100

1500

1700

1600

1100

1000

800

116

117

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

centimetres

0 1 2

inches

0 1

BRITISH COLUMBIA GEOGRAPHICAL SURVEY

EDITION 4 | 1:50,000 | CANADA | EDITION 2 | 92 K/4

BREWSTER LAKE

BRITISH COLUMBIA

Scale 1:50,000 Echelle

Miles 1 0 1 2 3 3 Miles

Metres 1000 0 1000 2000 3000 4000 Mètres

Yards 1000 0 1000 2000 3000 4000 Verges

CONTOUR INTERVAL 100 FEET
Elevations in feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

EQUIDISTANCE DES COURBES 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Système de référence géodésique nord-américain, 1927
Projection transverse de Mercator

Military users, refer to this map as: / Référence de cette carte pour usage militaire: SERIES A721 SERIE; MAP 92 K/4 CARTE; EDITION 2 MCE EDITION

COMPARISON OF MAGNETIC AND GRID NORTH
COMPARAISON DES DIRECTIONS DU NORD MAGNÉTIQUE ET DU NORD DES CANEVAS

Grid North 16 mils W
Grille Nord 16 mils O

Magnetic North 15°45' (1975) 26 Mils
Nord magnétique 15°45' (1975) 26 mils O

Declination decreasing 17 minutes annually
Déclinaison diminuant de 17 minutes par année

Diagram not to scale / Diagramme non à l'échelle

Use diagram only to obtain numerical values APPROXIMATE MAGNETIC DECLINATION 1975 FOR CENTRE OF MAP
Annual change: decreasing 17'

N'utiliser le diagramme que pour obtenir les valeurs numériques DECLINAISON MAGNETIQUE APPROXIMATIVE AU CENTRE DE LA CARTE EN 1975
Variation annuelle: décroissante 17'

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 10
QUADRILLAGE DE MILLE MÈTRES
TRANSVERSE UNIVERSELLE DE MERCATOR

GRID ZONE DESIGNATION / DÉSIGNATION DE LA ZONE DU QUADRILLAGE: 10U

100,000 M SQUARE IDENTIFICATION / IDENTIFICATION DU CARRÉ DE 100,000 M: BL CL

EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES
EXEMPLE DE LA METHODE EMPLOYÉE POUR DONNER DES REPÈRES À 100 MÈTRES PRÈS

95 96 97 98
95 96 97

REFERENCE POINT / POINT DE REPÈRE: CHURCH - ÉGLISE (as shown / tel qu'indiqué)

EASTING: Read number on grid line immediately left of point
LONGITUDE (E): Note la cifre de la ligne de quadrillage immédiatement à gauche du repère: 97
Estimate tenths of a square from this line eastward to point.
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est: 5
975

NORTHING: Read number on grid line immediately below point
LATITUDE NORD: Note la cifre de la ligne de quadrillage immédiatement au dessous du repère: 98
Estimate tenths of a square from this line northward to point.
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction nord: 4
GRID REFERENCE / RÉFÉRENCE DU QUADRILLAGE: 975984

Nearest vertical grid reference 100,000 metres east / Ligne verticale du quadrillage 100 kilomètres vers l'est la plus rapprochée
Nearest horizontal grid reference 5,500,000 metres north / Ligne horizontale du quadrillage 5 500 000 mètres vers le nord la plus rapprochée

BROWN NUMBERED TICKS INDICATE THE 1000 METRE U.T.M. GRID ZONE 9
LES TRAITS NUMÉROTÉS EN BRUN INDIQUENT LE QUADRILLAGE DE 1000 MÈTRES U.T.M.

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

92 J/8	92 K/5	92 K/6
92 J/5	92 K/4	92 K/3
92 J/2	92 K/1	92 K/2

INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM

BREWSTER LAKE
92 K/4
EDITION 2

M 468
SAMPLE SITES
1977
J.A.I.

VI BULK SAMPLE SITE ● XIV SAMPLE SITE
GL-77-21 XIV SAMPLE SITE 1977
PROJECT M 468
1977

Roads: hard surface, all weather ..... paved, toute saison
hard surface, all weather ..... paved, toute saison
loose or stabilized surface, all weather ..... gravel, aggloméré, toute saison
loose surface, dry weather and winter trail ..... de gravier, temps sec et sentier d'hiver
cut track ..... sentier, percée ou portage
trail, cut line or portage ..... sentier, percée ou portage

Routes: dual highway, double chaussée, 2 roadways separated / chaussées séparées; divided highway, route à chaussées séparées; all other roads, tous autres chemins; motorway, route à accès limité; interchange, échangeur; under construction, en construction; more than 2 lanes, plus de 2 voies

FOR COMPLETE REFERENCE SEE REVERSE SIDE — POUR UNE LISTE COMPLÈTE DES SIGNES, VOIR AU VERSO

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