

ARIS SUMMARY SHEET

District Geologist, Vancouver

Off Confidential: 94.12.21

ASSESSMENT REPORT 23341

MINING DIVISION: Vancouver

PROPERTY: MB

LOCATION: LAT 49 30 00 LONG 123 22 00
UTM 10 5482886 473449
NTS 092G11W

CLAIM(S): MB 11

OPERATOR(S): Durfeld, R.M. McGoran, J.P.

AUTHOR(S): McGoran, J.P.

REPORT YEAR: 1994, 26 Pages

COMMODITIES

SEARCHED FOR: Copper, Molybdenum/Molybdenite

KEYWORDS: Cretaceous, Gambier Group, Argillites, Wackes, Andesites
Quartz porphyry, Diorites

WORK

DONE: Geochemical

ROCK 13 sample(s) ;ME

SOIL 28 sample(s) ;ME

RELATED

REPORTS: 03087, 03724, 07126, 07730, 07741, 08633, 21185

MINFILE: 092GNW025

LOG NO:	APR 21 1994	RD.
ACTION:		
FILE NO:		

REPORT ON THE GAMBIER PROPERTY
VANCOUVER MINING DIVISION, BRITISH COLUMBIA

NTS 92G/11
49 30' NORTH LATITUDE
123 21' WEST LONGITUDE

BY

J.P. MCGORAN, B.Sc., P. Geo.

MARCH 1994

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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INTRODUCTION

1. Location

The Gambier Property, comprised of the MB mineral claim group in the Vancouver Mining Division, is located on the northeast side of Gambier Island, 30 kilometres northwest of the city of Vancouver (Figure 1). More precisely, it is located at 49 degrees and 30 minutes north latitude and 123 degrees and 21 minutes west longitude. (National Topographic System Map 92G/11)

2. Access and Physiography

Access to the property is best achieved from Horseshoe Bay by water taxi to Douglas Bay on the east side of Gambier Island. The area is centred 16 kilometres north of Horseshoe Bay. Old skid trails, originating from the beach in Douglas Bay provide walking access to the area. Recent logging on lot 2979 has left a fair amount of slash, resulting in reduced mobility. There are many areas of timber 'blowdown' throughout other parts of the MB claims, making access by foot difficult.

The terrain of the property is characterized by slopes that range from sea level on the coast to 450 metres (1500 feet) in the claim area. The work discussed in this report was undertaken at the centre of the claim group of the property in an area that ranged from 100 metres to 200 metres above sea level.

The vegetation in the grid area is characterized as second growth coastal forest of cedar, spruce and fir, with overmature cottonwoods and alders in the poorly drained valley bottoms. Undergrowth consists of variable salal, devil's club, alder and abundant moss.

3. Ownership

The Gambier property, as the MB mineral claim group, consists of four modified grid mineral claims, totalling 37 units and covering 925 hectares. The status of these claims is summarized below and the relative claim locations are plotted in Figure 2.

CLAIM NAME	NUMBER OF UNITS	TENURE NUMBER	RECORD DATE
MB 1	8	258252	JANUARY 3
MB 10	8	258264	MARCH 29
MB 11	9	258265	MARCH 29
MB 18	12	258266	MARCH 29

Messrs J.P. McGoran and R.M. Durfeld are the registered owners of the MB mineral claims.

4. History and Previous Work

The first claim staking on Gambier Island in 1905 would have coincided with the exploration and development of the Britannia Mine. The location of this staking is not known.

A 1929 report by H.J. Airey refers to copper mineralization in the vicinity of Gambier Creek.

A report by W. Reed in 1966 refers to mineralization in the vicinity of Copper Cove.

The next documented work was in the early 1970s, by Gaylord Mines, who staked the northeast section of Gambier Island to cover old known copper showings. Gaylord Mines conducted soil sampling, EM 16 and magnetometer surveys over the northeast section of Gambier Island. This work defined anomalies "A", which is centred in the area of Copper Cove and "C", which is just south of Gambier Creek at a point approximately 1 kilometre inland from Douglas Bay. Anomaly "A" was tested by a single diamond drill hole that was cored at -45.5 for 815 feet (248 metres) and was reported to have assayed 0.117% copper over its entire length. Anomaly "C" was not tested by diamond drilling at that time. Gaylord Mines allowed the property to lapse.

The property was again staked in February 1978 by 20th Century Energy Corporation. During the period 1978 to 1981, 20th Century conducted extensive exploration in the area of anomaly "C" that was comprised of a geochemical soil sampling and induced polarization surveys, followed by 5,558 metres of diamond drilling. This work defined a 'Porphyry Copper-Molybdenum Deposit' with estimated reserves of:

- 198 million tonnes of 0.24% Cu and 0.015% MoS , with a 0.20% copper equivalent cutoff.
- or - 56 million tonnes of 0.36% Cu and 0.021% MoS , with a 0.40% copper equivalent cutoff.

In December 1984 and March 1985, the MB 1, MB 10, MB 11 and MB 18 mineral claims were forfeited and relocated by Messrs. J.P. McGoran and R.M. Durfeld.

Work conducted since 1985, on behalf of Durfeld and McGoran, has consisted of geochemical (soil, silt and rock sampling) and geological mapping surveys peripheral to anomaly "C" and covering much of the present claim group.

5. Work Program

The objectives of this program were to locate the east and south-east extent of the Gambier deposit by soil and rock geochemistry using ICP analysis for copper, molybdenum, gold, silver and other elements, as shown in Appendix I. The work was conducted at the south east margin of the Gambier deposit ('c' zone).

During December, 1993, J.P. McGoran assisted by C.M. McGoran sampled the MB 11 claim, using previous grids and 'hip chain' for control. The description of these samples is noted in Table 1 and the location plotted on Map 1.

Thirteen mineralized surface samples of 0.5 to 1.5 Kg were collected in plastic sample bags and marked as to sample location. Flagging with the same sample number was attached at the sample location. These samples were analysed at Acme Analytical Laboratories for 30 element ICP plus gold. The procedure is outlined in Appendix III. The description of these samples is noted in Table 2 and the location plotted on Map 1.

Twenty-eight soil samples were collected from the top of the B horizon, at 30 metre intervals, with the aid of a grab-hoe and placed in kraft sample bags marked with grid co-ordinates. The soils were generally coarse and well drained and, as such, would be classed as Dystric Brunisols. Steep areas of outcrop lacked well developed soil horizons, resulting in missed samples. These samples were also analysed at Acme Analytical Laboratories for 30 element ICP plus gold.

DISCUSSION

As with previous soil results there is a positive correlation between copper, molybdenum, silver and gold.

The only observed lithology is the grandiorite described by J.A. Roddick in memoir 335 and open file 661.

GEOLOGY

1. Regional Geology

The regional geology of Gambier Island is mapped by J.A. Roddick of the Geological Survey of Canada and is published as Memoir 335 and Open File 611. This mapping shows the southern and western portions of Gambier Island to be underlain by intrusive rocks of granodiorite composition. Younger volcanic and clastic rocks of the Jurassic to Cretaceous Age Gambier Group underlie the northern portion of Gambier Island. The Gambier Group rocks have a north to northwest strike and steep easterly to northeasterly dips. Ramilles Channel through McNab Creek to the north shows a strong northerly trending regional structure on the east side of Gambier Island.

2. Lithology

Rocks of Jurassic to Cretaceous Gambier Group were the oldest and most dominant lithology in the Copper Cove area. This mapping divided the Gambier Group into:

- i. volcanic sediment and pyroclastic rocks, comprised of:
 - a) feldspar porphyry
 - b) feldspar-hornblende pophyry
 - c) volcanic breccia
 - d) chert
- ii. massive medium grained andesite.

During Upper Cretaceous to Tertiary time the Gambier Group rocks were intruded by massive medium grained diorite and quartz porphyry to quartz feldspar porphyry as dykes and small stocks.

Only one highly altered and silicified outcrop of diorite was identified on the north side of the central creek, although diorite float was found on the northern grid boundary.

3. Structure

Regionally the prominent structural directions on Gambier Island are west-northwest and north-south. Mapping in the Copper Cove area shows strong jointing and minor faulting with two most dominant trends being 035\75NW and 092\vertical.

4. Mineralization

Due to the heavy rainfall sulphide mineralization is absent from most outcrop exposures and only noted on freshly broken surfaces. Pyrite, occurring as disseminations and blebs in the matrix and on fractures and veins, was noted in all lithologies and commonly accompanied by lesser chalcopyrite and malachite.

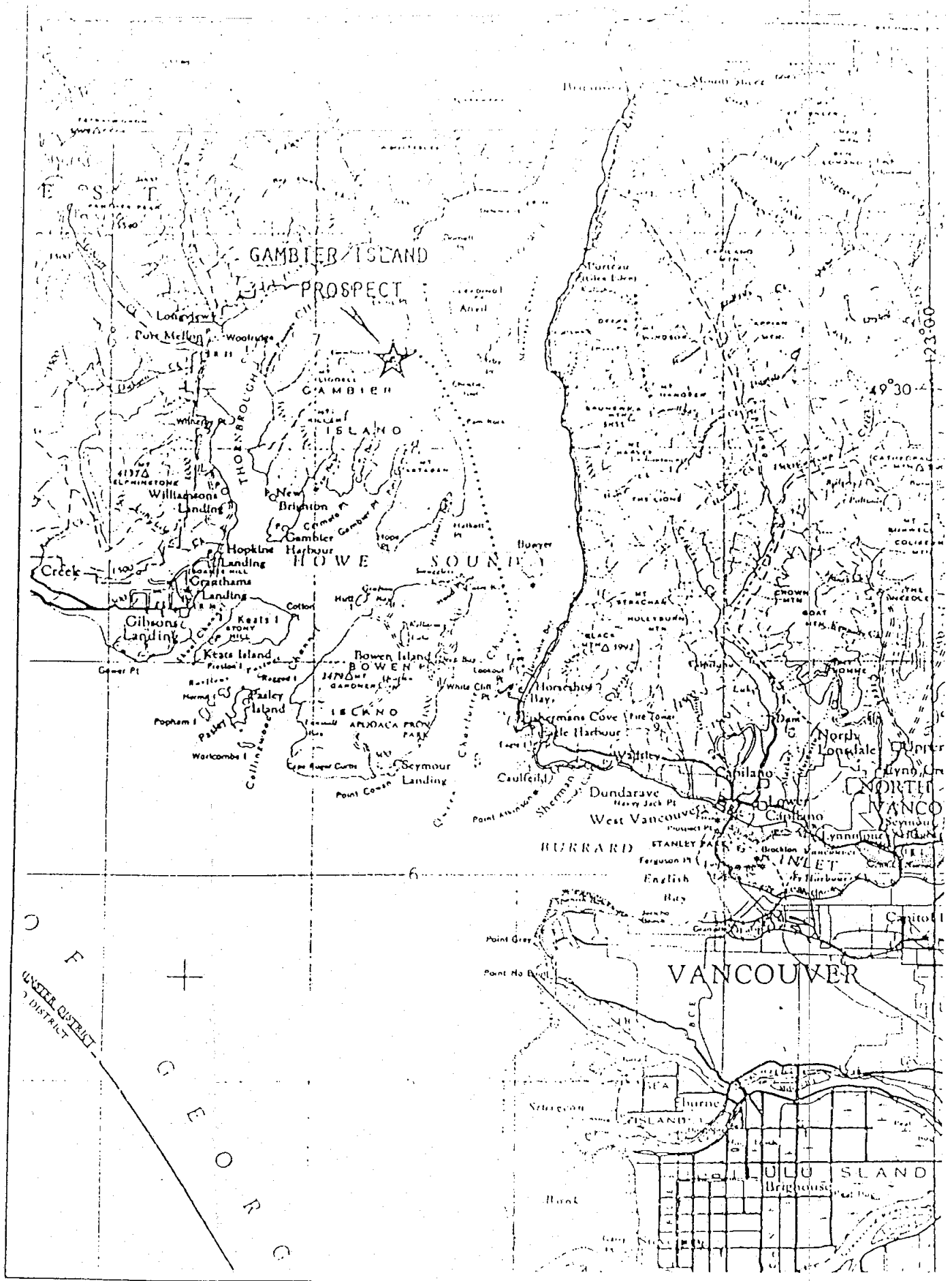
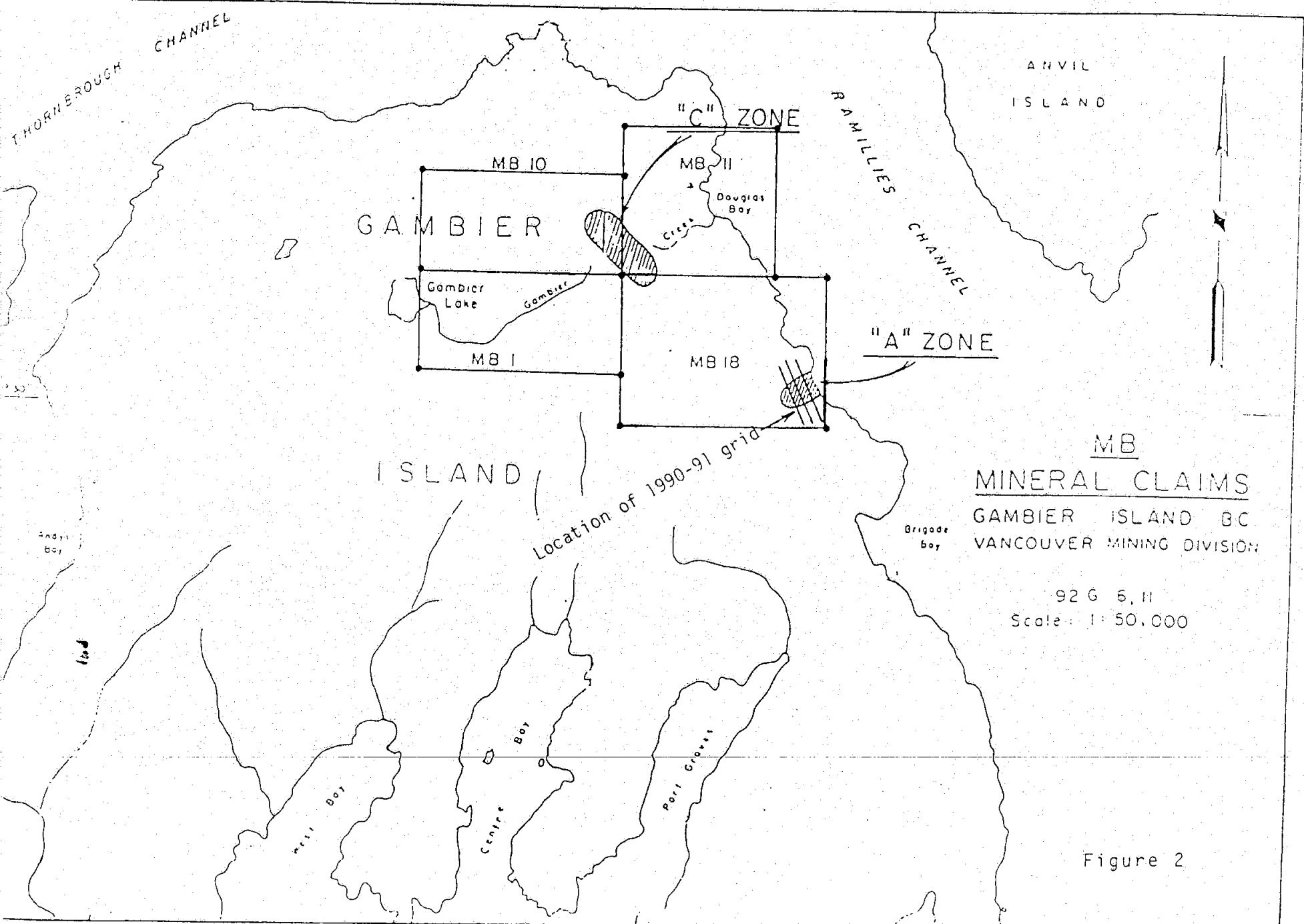


Figure 1. Location plan for the Gambier Island Prospect 1:250,000 NTS 92G



MB
MINERAL CLAIMS
 GAMBIER ISLAND BC
 VANCOUVER MINING DIVISION

92 G 6, 11
 Scale: 1:50,000

Figure 2

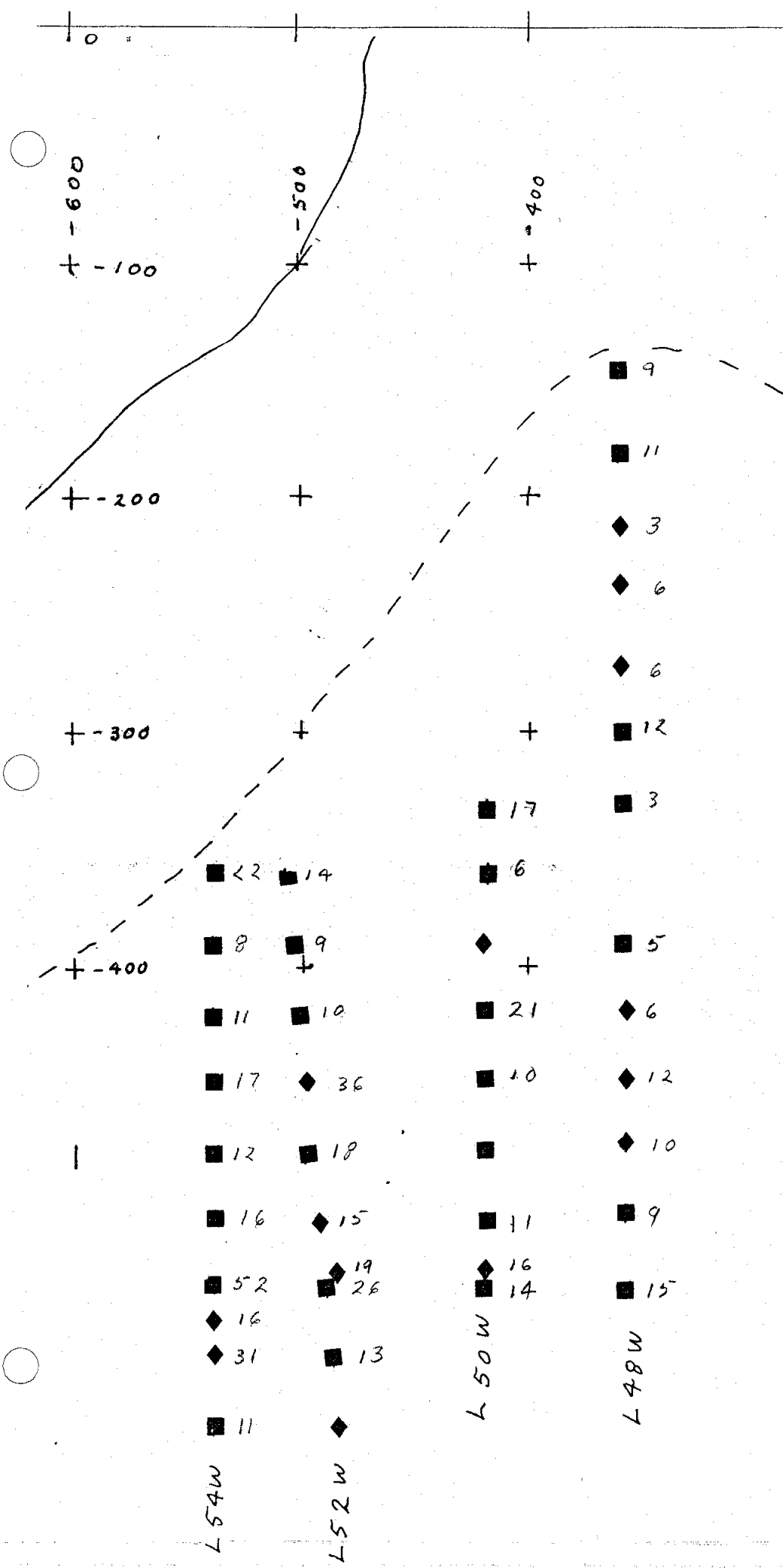
TABLE 1
ROCK SAMPLES

Number	Description	Description
48W 480S	Granodiorite	1% py
48W 450S	Granodiorite on shear	prop. alt. 2% py
48W 420S	Granodiorite	1% py
48W 300S	"	2% py, cp?
48W 270S	"	4% py
48W 240S	"	prop. alt. 1% py
48W 210S	"	3% py
50W 535S	"	
50W 420S	"	5% py, minor cp.
50W 390S	"	
52W 600S	"	4% py
52W 510S	"	3% py, minor cp?
52W 450S	"	3% py, prop. alt.
53+85W 540S	"	2% py
54W 570S	"	3% py
54W 555S	"	4% py
54W 510S	"	5% py, cp?
54W 500S	"	3% py, minor cp prop, alt.

TABLE 3

SOIL LEAD ANALYSIS

Value in ppm	Number in interval	
0 - 5	5	+ + + + +
6 - 10	9	+ + + + + + + + +
11 - 15	10	+ + + + + + + + + +
16 - 20	4	+ + + +
21 - 25	1	+
26 - 30	1	+
31 - 35	0	
36 - 40	0	
40+	2	+ +



LEGEND

- Old roads
- Creeks
- Soil Sample Site
- Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
 SOIL & ROCK GEOCHEMICAL PLANNING
 LEAD (PPM)

Scale 1: 2500.0



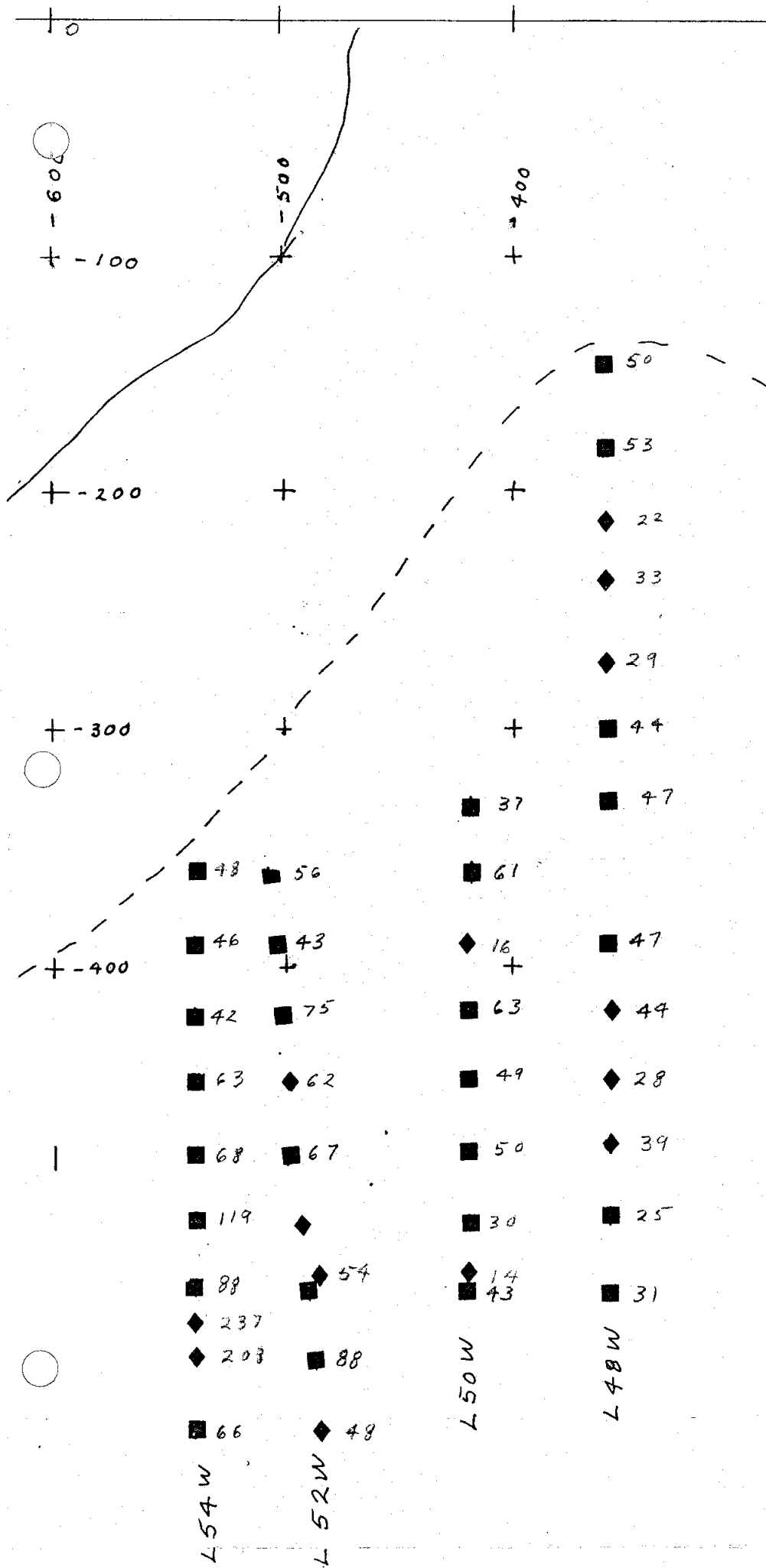
Date: MARCH 92 NIS 92G111 FIGURE 98

Tech Work: John P. McGoran

TABLE 4

SOIL ZINC ANALYSIS

Value in ppm	Number in interval	
0 - 20	0	
21 - 40	5	+ + + + +
41 - 60	12	+ + + + + + + + + + + + +
61 - 80	8	+ + + + + + + +
81 - 100	2	+ +
101 - 120	1	+



LEGEND

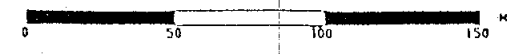
- - - Old roads
- ~ Creek
- Soil Sample Site
- ◆ Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
SOIL & ROCK GEOCHEMICAL PLAN

ZINC (PPM)

Scale 1: 2500.0



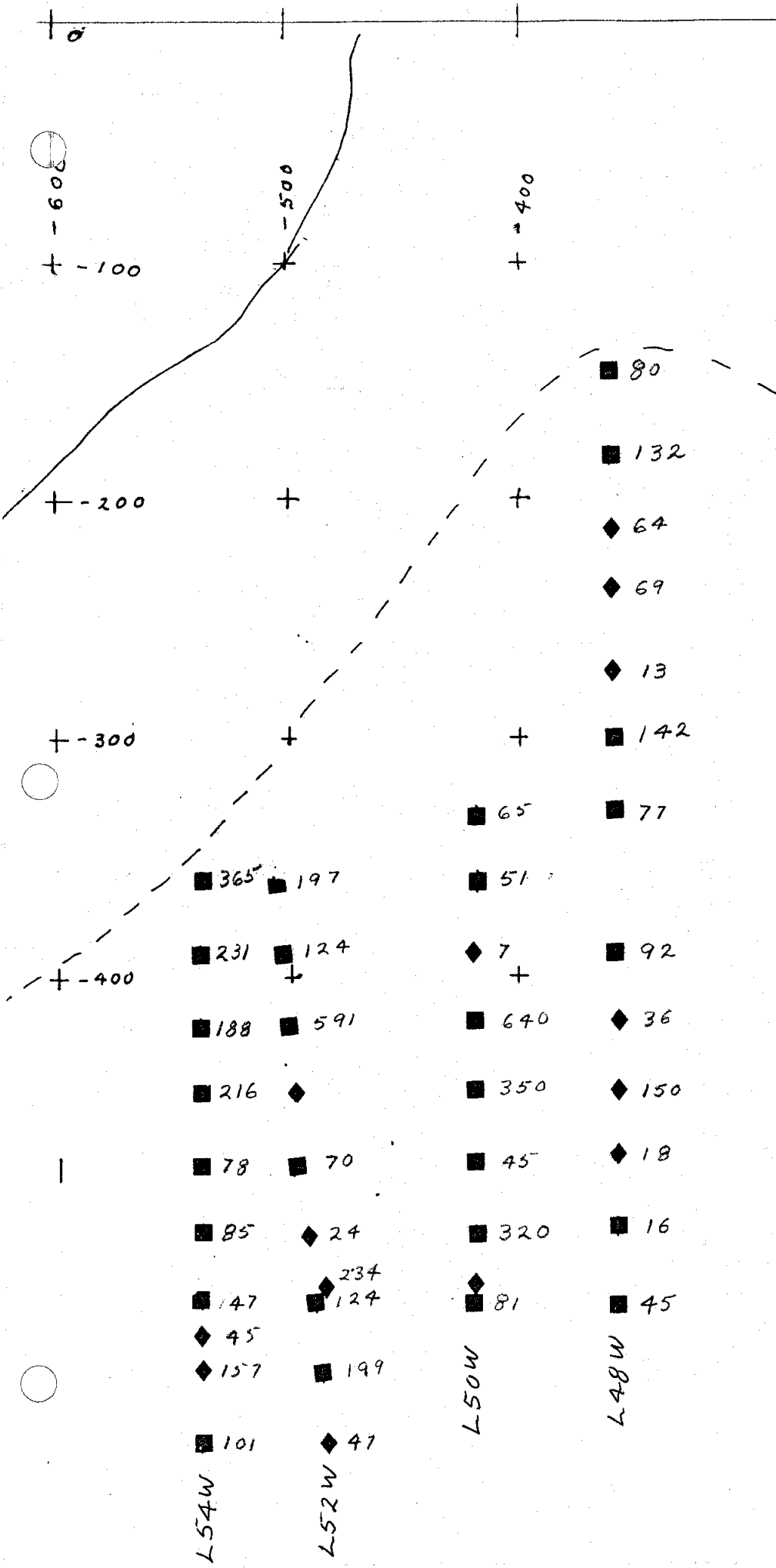
Date: MARCH 94	NTS 92GN11	FIGURE 108
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Tech. Work: John P. McGoran

TABLE 5

SOIL COPPER ANALYSIS

Value in ppm	Number in interval	
0 - 50	7	+ + + + + + +
51 - 100	13	+ + + + + + + + + + + + +
101 - 150	5	+ + + + +
151 - 200	3	+ + +
201 - 250	2	+ +
251 - 300	0	
301 - 350	2	+ +
351 - 400	1	+
400+	2	+ +



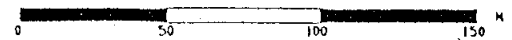
LEGEND

- Old roads
- Creeks
- Soil Sample Site
- Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
 SOIL & ROCK GEOCHEMICAL PLAN
 COPPER (PPM)

Scale 1: 2500.0



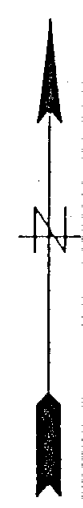
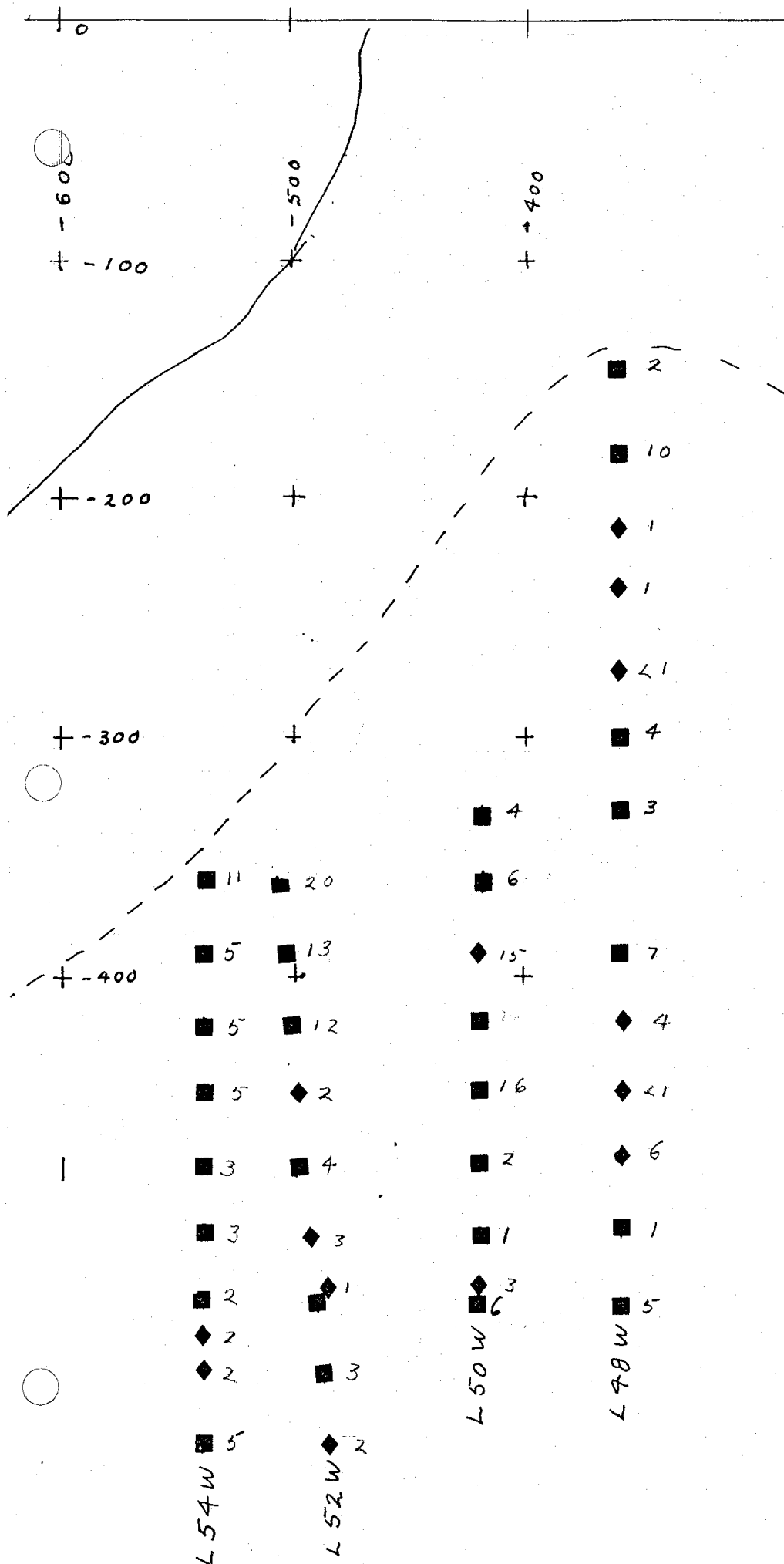
Date: MARCH 93	NTS 92GN11	FIGURE 6B
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Tech Work: John P. McGoran

TABLE 6

SOIL MOLYBDENUM ANALYSIS

Value in ppm	Number in interval	
1 - 3	7	+ + + + + + +
3 - 4	10	+ + + + + + + + + +
5 - 6	7	+ + + + + + +
7 - 8	1	+
9 - 10	1	+
11 - 12	2	+ +
13 - 14	1	+
15 - 29	2	+ +



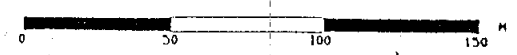
LEGEND

- Old roads
- Creeks
- Soil Sample Site
- Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
 SOIL & ROCK GEOCHEMICAL PLAN
 MOLYBDENUM (PPM)

Scale 1: 2500.0



Date: MARCH 94 NTS 92G11 FIGURE 28

Tech Work: John P. McGoran

L 54 W

L 52 W

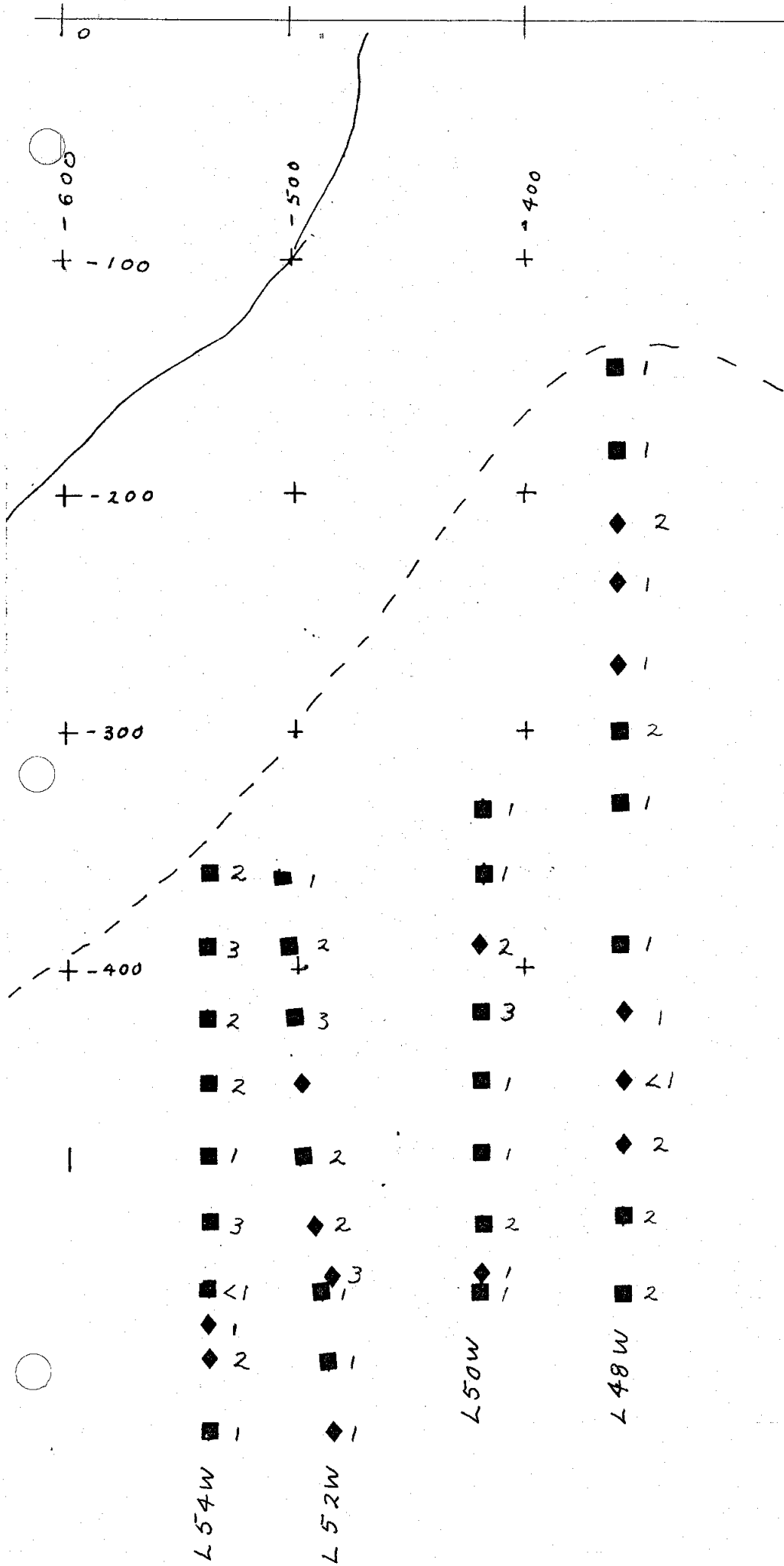
L 50 W

L 48 W

TABLE 7

SOIL GOLD ANALYSIS

Value in ppm	Number in interval	
1	1	+
1	17	+ + + + + + + + + + + + + + + + + + +
2	10	+ + + + + + + + + +
3	4	+ + + +



LEGEND

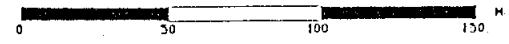
- Old roads
- Creeks
- Soil Sample Site
- Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
SOIL & ROCK GEOCHEMICAL PLAN

GOLD (PPB)

Scale 1: 2500.0



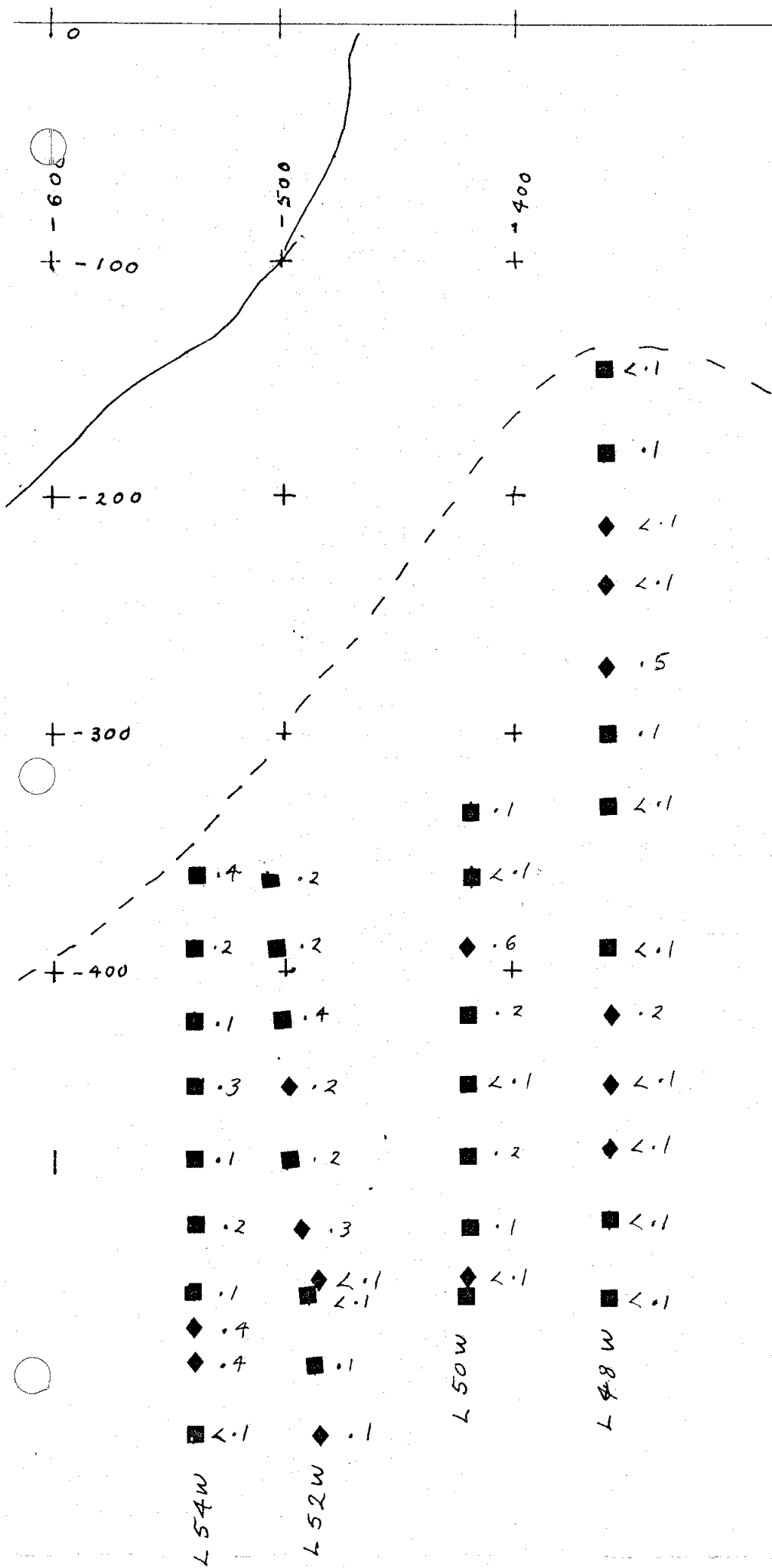
Date: MARCH 94 NIS 92G\11 FIGURE 88

Tech Work: John P. McGoran





TABLE 8

SOIL SILVER ANALYSIS

Value in ppm	Number in interval	
.1	13	+ + + + + + + + + + + + +
.1	9	+ + + + + + + + +
.2	8	+ + + + + + + +
.3	1	+
.4	2	+ +



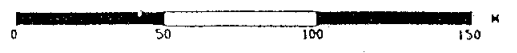
LEGEND

-  Old roads
-  Creeks
-  Soil Sample Site
-  Rock Sample Site

GAMBIER ISLAND PROPERTY

Vancouver Mining Division
 SOIL & ROCK GEOCHEMICAL PLAN
 SILVER (PPM)

Scale 1: 2500.0



Date: MARCH 97 NTS 92GV11 FIGURE 11B

Tech Worker: John P. McGoran

APPENDIX 1
ITEMIZED COST STATEMENT
MB 11 CLAIM

Technical Staff

Senior geologist - J.P. McGoran, B.Sc., P.Geo. 2 days (December 4,5, 1993) @ \$350/day	\$700.00
Geological Assistant - C. McGoran 1 day (December 5, 1993) @ \$200/day	\$200.00
Room and Board - 2 man days (December 4 & 5, 1993)	\$106.15
Geochemical Analyses (See Appendix 1a)	\$633.76
Transportation - water taxi (December 5, 1993)	\$180.00
Report costs	\$ 40.25
 TOTAL	 \$1860.16
 Recorded on claims	 \$2400.00
from PAC account	539.84

GEOCHEMICAL ANALYSIS CERTIFICATE

J.P. McGoran & Associates File # 93-8496 Page 1

305 - 455 Granville Street, Vancouver, BC V6C 1T1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	AU*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	
54W 500S	3	328	16	237	.4	10	24	699	5.78	8	<5	<2	<2	52	<2	<2	<2	60	.88	.048	3	18	1.54	27	.15	<2	3.53	.13	.11	<1	1
54W 510S	2	367	31	208	.4	9	32	733	8.22	12	<5	<2	<2	220	.2	<2	<2	80	2.46	.054	3	6	2.10	24	.09	<2	5.88	.50	.03	<1	4
54W 555S	2	224	36	86	.1	13	21	227	5.23	7	<5	<2	<2	279	<2	3	<2	73	2.87	.048	4	11	2.05	31	.08	<2	5.96	.79	.05	<1	1
54W 570S	4	45	15	84	.1	12	23	487	5.02	12	<5	<2	<2	138	<2	<2	<2	110	1.40	.045	2	26	1.98	36	.09	<2	4.02	.37	.04	<1	2
5385W 540S	2	157	19	62	.4	9	23	283	3.80	6	<5	<2	<2	131	<2	<2	<2	48	1.30	.034	2	6	1.67	18	.06	2	3.67	.35	.03	<1	1
52W 450S	3	24	23	62	.2	12	15	306	6.05	13	<5	<2	<2	16	<2	<2	<2	37	.29	.047	3	6	1.16	79	.07	<2	2.90	.04	.26	1	2
52W 510S	1	234	15	54	.3	10	40	269	7.17	10	<5	<2	<2	220	<2	2	<2	67	4.38	.073	2	16	1.43	12	.05	<2	7.32	.50	.06	<1	3
52W 600S	2	47	16	48	<.1	6	10	322	6.32	15	<5	<2	<2	243	<2	2	<2	78	2.48	.060	2	6	1.94	39	.06	<2	5.93	.67	.02	1	1
50W 390S	2	7	3	16	.1	6	4	118	1.92	<2	<5	<2	<2	14	<2	<2	<2	28	.36	.064	2	4	1.19	27	.04	2	1.80	.03	.16	<1	1
RE 50W 390S	1	7	3	17	<.1	6	4	111	1.93	6	<5	<2	<2	14	<2	<2	<2	29	.37	.065	2	5	1.23	28	.04	<2	1.85	.03	.16	1	2
50W 420S	15	640	12	59	.6	10	34	333	9.43	<2	<5	<2	<2	251	<2	<2	<2	76	3.56	.090	2	7	2.11	17	.09	<2	7.54	.56	.03	<1	3
50W 535S	3	29	5	14	<.1	6	3	188	1.96	14	<5	<2	<2	54	<2	<2	<2	64	.73	.028	4	9	.24	32	.23	<2	1.05	.15	.06	<1	1
48W 210S	1	64	3	22	.2	7	14	152	5.73	<2	<5	<2	<2	21	<2	2	4	40	.16	.036	5	7	.69	50	<.01	<2	2.51	.04	.19	<1	2
48W 240S	1	69	6	33	<.1	7	30	160	4.50	8	<5	<2	2	17	<2	<2	<2	33	.21	.065	11	12	.96	58	<.01	<2	2.35	.04	.27	<1	1
48W 270S	<1	13	6	29	<.1	9	13	277	6.61	<2	<5	<2	<2	69	<2	2	<2	44	.70	.085	2	7	1.28	40	<.01	<2	4.13	.16	.18	<1	1
48W 300S	4	524	13	49	.5	9	18	380	4.85	4	<5	<2	<2	197	<2	<2	<2	75	1.78	.037	<2	13	1.24	18	.06	<2	4.63	.55	.04	1	2
48W 420S	<1	36	6	44	.2	5	20	319	4.15	<2	<5	<2	<2	233	<2	<2	<2	38	3.35	.050	<2	12	2.54	37	.06	<2	7.50	.52	.09	<1	1
48W 450S	6	150	12	28	<.1	6	12	202	4.69	9	<5	<2	<2	29	<2	2	<2	28	.30	.051	2	5	1.74	78	.01	<2	3.38	.07	.21	<1	<1
48W 480S	1	18	10	39	<.1	7	9	331	3.64	15	<5	<2	<2	97	<2	<2	<2	39	1.03	.066	3	7	1.35	62	.06	<2	3.74	.26	.19	<1	2
STANDARD C/AU-R	17	64	38	123	6.9	67	32	1088	4.01	42	20	8	37	53	19.1	14	18	56	.52	.086	40	60	.92	185	.08	33	1.92	.07	.14	10	490

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 KCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MW FE SR CA P LA CR MG BA TI B W AND LIMITED FOR MA K AND AL.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: P1 ROCK P2 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.
 Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: DEC 6 1993 DATE REPORT MAILED: Dec 9, 93 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ml ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
54W 360S	11	365	<2	48	.4	14	15	387	4.28	11	<5	<2	3	33	.5	3	<2	65	.32	.044	8	18	.35	51	.23	2	3.65	.01	.04	2	2
54W 390S	5	231	8	46	.2	13	8	269	2.58	6	<5	<2	<2	35	.6	<2	<2	42	.34	.038	5	15	.50	91	.15	2	3.79	.02	.06	<1	3
54W 420S	5	188	11	42	.1	9	6	222	3.00	9	<5	<2	2	16	.8	3	<2	41	.16	.027	7	13	.39	28	.14	2	4.33	.02	.03	<1	2
54W 450S	5	216	17	63	.3	9	17	334	3.35	9	<5	<2	<2	19	<2	3	<2	43	.24	.051	5	12	.31	37	.16	3	5.75	.01	.03	<1	2
54W 480S	3	78	12	68	.1	6	11	459	3.02	4	<5	<2	<2	34	1.0	2	<2	51	.35	.013	3	11	.40	35	.15	<2	1.28	.02	.03	1	1
54W 510S	3	85	16	119	.2	8	10	710	3.58	7	<5	<2	<2	35	<2	2	3	48	.48	.056	5	11	.39	43	.14	2	4.79	.06	.04	<1	3
54W 540S	2	47	52	88	.1	6	11	479	4.59	13	<5	<2	<2	67	.3	<2	<2	58	.90	.053	3	6	.88	44	.12	2	2.87	.12	.04	<1	<1
54W 600S	5	101	11	66	<.1	12	16	245	3.93	4	<5	<2	<2	21	<.2	2	<2	69	.21	.021	4	14	.22	61	.23	<2	3.89	.02	.03	<1	1
52W 360S	20	197	14	56	.2	8	17	511	4.92	8	<5	<2	<2	33	.4	2	<2	81	.37	.023	11	16	.29	64	.30	2	2.16	.01	.04	<1	1
52W 390S	13	124	9	43	.2	9	21	472	5.38	5	<5	<2	<2	16	.8	2	2	73	.13	.023	9	14	.20	30	.28	<2	2.07	.01	.02	1	2
52W 420S	12	591	10	75	.4	9	72	1142	4.77	3	<5	<2	<2	17	1.3	<2	2	48	.26	.051	9	10	.19	64	.11	2	4.50	.01	.04	<1	3
52W 480S	4	70	18	67	<.2	7	13	646	4.66	4	<5	<2	2	15	.6	<2	<2	51	.19	.066	3	9	.40	73	.06	<2	3.93	.01	.04	<1	2
52W 540S	3	124	26	88	<.1	8	15	660	5.44	10	<5	<2	2	19	1.1	<2	<2	66	.29	.142	3	7	.96	63	.09	<2	5.06	.03	.05	<1	1
52W 570S	2	199	13	75	.1	4	17	250	6.45	3	<5	<2	2	26	<.2	<2	2	84	.34	.049	3	6	.79	64	.11	<2	4.53	.04	.06	<1	1
50W 330S	4	65	17	37	.1	5	4	151	3.48	6	<5	<2	<2	20	<.2	3	<2	40	.28	.064	3	5	.46	50	.02	<2	2.07	.03	.09	<1	1
50W 360S	6	51	6	61	<.1	9	8	435	5.06	5	<5	<2	<2	24	<.2	2	<2	58	.34	.055	3	10	.69	61	.09	<2	2.93	.03	.08	1	1
50W 450S	29	644	21	63	.2	4	7	314	6.52	6	<5	<2	2	11	.4	2	<2	69	.14	.096	3	8	.17	48	.10	2	4.56	.01	.02	<1	1
50W 450S dup.	4	77	55	57	.2	4	8	379	4.01	10	<5	<2	<2	31	.9	2	<2	68	.54	.081	2	5	.83	37	.07	3	3.38	.05	.05	1	1
50W 480S	2	46	10	49	<.1	6	17	316	3.93	8	<5	<2	<2	71	.9	<2	<2	48	.81	.080	2	6	.61	61	.10	3	4.57	.17	.07	<1	1
RE 50W 480S	3	44	8	50	<.1	6	17	314	3.96	8	<5	<2	<2	72	1.2	<2	<2	48	.82	.081	2	6	.63	60	.09	<2	4.81	.17	.07	<1	1
50W 510S	1	320	11	30	.2	4	22	186	5.47	11	<5	<2	<2	263	<.2	<2	2	70	3.08	.058	<2	3	1.50	35	.06	<2	6.91	.60	.05	1	2
50W 540S	6	81	14	43	.1	6	7	140	5.19	11	<5	<2	2	12	<.2	2	<2	59	.14	.073	2	9	.14	55	.12	4	4.57	.01	.03	<1	1
48W 150S	2	80	9	50	<.1	17	7	258	3.01	4	<5	<2	2	17	<.2	<2	<2	58	.15	.047	6	19	.40	52	.19	2	6.95	.01	.06	<1	1
48W 180S	10	132	11	53	<.1	8	11	461	8.66	4	<5	<2	2	10	.3	<2	7	84	.09	.374	5	12	.20	39	.18	2	3.61	.01	.03	<1	1
48W 300S	4	142	12	44	.1	3	4	263	6.25	3	<5	<2	2	41	<.2	<2	<2	99	.46	.168	3	7	.81	34	.11	<2	4.04	.12	.04	<1	1
48W 330S	3	77	3	47	<.1	12	6	165	3.65	2	<5	<2	2	14	.7	<2	<2	52	.12	.046	3	14	.31	38	.15	<2	5.01	.01	.04	1	2
48W 390S	7	92	5	47	<.1	6	9	496	3.73	5	<5	<2	2	18	.3	<2	<2	42	.26	.080	2	8	.40	59	.07	2	4.34	.02	.05	<1	1
48W 510S	1	16	9	25	<.1	2	2	157	2.37	<2	<5	<2	<2	11	<.2	2	<2	40	.16	.031	3	7	.13	34	.06	3	1.61	.01	.02	<1	2
48W 540S	5	45	15	31	<.1	11	12	165	3.27	3	<5	<2	2	14	.8	3	<2	52	.14	.032	4	14	.23	37	.20	<2	5.39	.02	.03	<1	2
A 100S	3	76	7	41	.1	10	10	202	3.41	<2	<5	<2	2	10	<.2	<2	<2	55	.09	.068	7	16	.21	37	.18	2	6.58	.01	.03	<1	1
A 150S	2	51	3	22	<.1	7	7	201	2.25	6	<5	<2	2	13	.8	3	<2	33	.11	.041	5	12	.27	16	.13	3	4.89	.01	.02	<1	2
A 200S	3	44	10	32	.1	8	11	420	3.04	8	<5	<2	<2	13	.3	4	<2	50	.13	.039	4	12	.29	31	.15	3	3.28	.01	.03	1	1
A 250S	3	44	2	25	<.1	11	12	301	2.44	9	<5	<2	<2	25	<.2	<2	<2	35	.29	.037	5	11	.41	39	.11	<2	2.90	.01	.03	<1	3
STANDARD C/AU-S	17	56	38	122	6.9	66	29	1071	3.93	40	16	6	34	51	16.8	14	18	56	.50	.086	37	55	.90	182	.09	33	1.87	.06	.14	11	53

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

APPENDIX / V

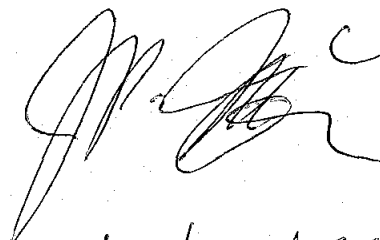
STATEMENT OF QUALIFICATIONS

I, John P. McGoran of 2111 West 34th Avenue, Vancouver, B.C., hereby certify that:

1. I am a graduate of Carleton University (1972) and hold a B.Sc. Degree in Geology.
2. I am a member in good standing of the following associations:

Canadian Institute of Mining and Metallurgy
Geological Association of Canada
American Institute of Mining Engineers
Prospectors and Development Association of Canada
Association of Professional Engineers and Geoscientists
3. I have been employed in my profession as an exploration geologist, geochemist and consultant for the last forty years.

DATED at Vancouver, British Columbia, this 30th day of March, 1994.


John P. McGoran