

GEOCHEMICAL REPORT ON GROUP A CLAIMS

Owned By

BULLION MOUNTAIN MINING LTD.

Situated at Potlatch Creek, Howe Sound

Vancouver Mining Division

Latitude 123° 20' W.: Longitude 49° 35' N.

N.T.S. 92G/11W

On Work Completed Between  
February 8 and May 27, 1967

By

R. Addison, P.Eng.

Vancouver, B. C.

March 11, 1968.



1214

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FIGURE I

Geochemical Survey Details # /  
(in pocket)

## INTRODUCTION

A reconnaissance geochemical soil sampling program was carried out on the Group A claims of Bullion Mountain Mining Ltd. from February 8 to March 3, 1967. Results indicated anomalous molybdenum values and follow-up work was carried out from April 21-27 and May 23-27, 1967.

## LOCATION AND ACCESS

The claim group extends inland from the mouth of Potlatch Creek which enters the west side of Howe Sound approximately 6 miles northeast of Port Mellon.

The property is readily accessible by boat from Lions Bay on the Squamish Highway.

## TOPOGRAPHY AND CLIMATE

The property covers a rugged portion of the Howe Sound shoreline and the ground immediately inland. Precipitation is generally heavy from October to April and several working days were lost because of heavy rain. The steep slopes are covered by a dense coniferous forest.

## GEOLOGY

The rocks of the area are late Paleozoic or early Mesozoic meta-volcanics and meta-sediments intruded in

Mesozoic or early Tertiary times by quartz-diorite and granodiorite of the Coast Range batholith.

A pendant of metamorphic rocks east of Potlatch Creek contains a molybdenite bearing quartz vein varying in thickness from 18 inches to 6 feet. This vein is exposed about 50 feet above the shore of Howe Sound and has been traced inland about 900 feet northwesterly to a point where it pinches out. West of Potlatch Creek is a large mass of metamorphic rocks.

Between Potlatch Creek and the roof pendant is a tongue of fractured granodiorite which is cut by numerous small quartz veins containing chalcopyrite and molybdenite. Where these fractures are sufficiently close they could constitute ore.

#### PREVIOUS WORK

Several cuts were made across the quartz vein within the roof pendant exposing a ribbon structure with a fair amount of molybdenite on the partings. Three diamond drill holes designed to intersect the vein adjacent to the best exposures intersected only narrow widths containing low molybdenum values.

#### FIELD PROCEDURE

A chain and compass survey was made along a trail

running parallel along the east side of Potlatch Creek and used as control for the sample lines. Lines 1, 2, 3, 4, 5 and 6 were sampled at 200 foot intervals and lines 1A, 2A, 3A and 4A were sampled at 100 foot intervals. Lines were run with compass and chain, flagged and blazed at sample stations.

Soil samples were collected from the B horizon, approximately 4 to 6 inches deep. Samples were placed in standard geochemical sample envelopes and sent to Chemex Labs Ltd., 1416 Crown Street, North Vancouver, where they were dried, screened and analyzed for Cu and Mo. A total of 239 samples were collected and analyzed.

#### GEOCHEMICAL RESULTS

Copper and molybdenum results in parts per million are plotted on the geochemical map. The results show that the soil overlying the granodiorite intrusive contains moderate amounts of these two metals. Background value of molybdenum is 2-3 ppm, threshold is 9 ppm. With some exceptions higher copper values are generally associated with higher molybdenum values.

Two anomalies have been outlined by the 9 ppm Mo contour. Anomaly A lies within claims Jo-Ann 1 and Johnny 2 and 4. Values range from 9 to 90 ppm Mo and up to 155 ppm Cu. A soil sample at Station 3, Line 1, taken a few feet

from a veined outcrop of granodiorite gave values of 155 ppm Cu and 88 ppm Mo.

Anomaly B lies within Jo-Ann 3 and 5 and Deer Fraction 1. Values are lower, up to 67 ppm Mo and only 26 ppm Cu.

## RECOMMENDATIONS

Exploration work to date has outlined two molybdenum soil anomalies. Some detailed work is justified in the strongest one, Anomaly A.

1. Strip and blast to fresh bedrock the areas containing higher Mo values, particularly the outcrop near Station 3, Line 1.
2. Sample and assay trenches containing copper or molybdenum mineralization.
3. Extend soil sampling to the south of Line 1 to cover Jo-Ann 1 and Johnny 2 claims.

Respectfully submitted,

*R. Addison*

R. Addison, P.Eng.

*R. Addison*

# CHEMEX LABS LTD.

1416 CROWN STREET — NORTH VANCOUVER, B. C. — TELEPHONE 988-6955

## Certificate of Analysis

No. 1

To: Mr. Dick Addison  
#211 1489 W. Broadway  
Vancouver, B.C.

Atten: Mr. Dick Addison  
Invoice No. 1

SAMPLE No.	ppm Molybdenum	ppm Copper
1	13	40
2	27	105
3	88	155
4	15	18
5	23	66
6	24	24
7	2	6
8	4	24
9	2	6
10	0	3
11	0	3
12	1	3
13	2	3
14	1	36
15	0	3
16	0	6
17	1	12
18	0	3
19	0	3
20	1	80
21	0	3
22	2	30
23	1	24
24	0	3
- Std. A	2	50
25	0	0
26	1	6
27	0	0
28	0	12
29	0	3
30	1	0
31	0	6
32	0	6
33	3	18
34	4	6
35	1	12
36	3	0
- 37	20	84
38	10	3
39	3	12

Date Received March 2, 1967

Date Analysed March 9, 1967

CERTIFIED BY *B. W. Brown*



# CHEMEX LABS LTD.

1416 CROWN STREET — NORTH VANCOUVER, B.C. — TELEPHONE 988-6955

## Certificate of Analysis

No. 2

To: Mr. Dick Addison  
#211 1489 W. Broadway  
Vancouver, B.C.

Atten: Mr. Dick Addison  
Invoice No. 1

SAMPLE No.	ppm Molybdenum	ppm Copper
40	1	6
41	2	6
42	2	6
43	1	18
44	0	3
45	1	0
46	22	6
47	0	6
48	3	18
49	2	40
Std. B	21	165
50	2	30
51	0	12
52	0	164
53	1	132
54	0	12
55	0	6
56	0	3
57	1	3
58	2	18
59	1	18
60	1	3
61	2	12
62	3	40
63	1	12
64	4	50
65	2	6
66	1	12
67	0	30
68	1	84
69	1	12
70	3	24
71	2	36
72	2	18
73	1	30
74	3	24
75	1	18
Std. A	2	50
76	2	12
77	1	18

Date Received March 2, 1967

Date Analysed March 9, 1967

CERTIFIED BY *Bob Brown*

# CHEMEX LABS LTD.

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## Certificate of Analysis

No. 3

To: Mr. Dick Addison  
#211 1489 W. Broadway  
Vancouver, B.C.

Atten: Mr. Dick Addison  
Invoice No. 1

SAMPLE No.	ppm	ppm
	Molybdenum	Copper
78	2	12
79	2	12
80	0	36
81	1	6
82	1	3
83	1	12
84	0	6
85	1	6
86	1	6
87	2	24
88	2	30
89	0	3
90	3	6
91	4	12
92	4	18
93	14	6
94	8	3
95	14	3
96	4	12
97	3	12
98	1	12
99	0	12
100	0	24
Std. B	21	170
101	2	18
102	3	40
103	0	30
104	0	18
105	1	6
106	2	18
107	2	3
108	0	12
109	0	3
110	1	36
111	0	12
112	0	12
113	0	6
114	1	6
115	2	12
116	2	6

Date Received March 2, 1967

Date Analysed March 9, 1967

CERTIFIED BY *B. B. Brown*

# CHEMEX LABS LTD.

1416 CROWN STREET — NORTH VANCOUVER, B.C. — TELEPHONE 988-6955

## Certificate of Analysis

No. 4

To:

Mr. Dick Addison  
#211 1489 W. Broadway  
Vancouver, B.C.

Atten:

Mr. Dick Addison

Invoice No. 1

SAMPLE No.	ppm	ppm
	Molybdenum	Copper
117	1	3
118	1	12
119	1	3
120	1	6
121	2	12
122	1	6
123	1	6
124	0	18
125	1	12
Std. A	2	50
126	0	3
127	0	3
128	2	12
129	5	24
130	1	6
131	9	3
132	15	3
133	3	6
134	0	3
135	0	12
136	0	24
137	1	30
138	0	3
139	1	24
140	1	24
141	2	24
142	0	18
143	No sample	
144	2	50
145	2	80
146	0	18
147	2	6
148	2	12
149	0	12
150	2	12
151	2	6
152	0	6
153	0	6
154	1	6
155	0	6
156	0	3

Date Received March 2, 1967

Date Analysed March 9, 1967

CERTIFIED BY *B. W. Brown*



# CHEMEX LABS LTD.

1416 CROWN STREET — NORTH VANCOUVER, B.C. — TELEPHONE 988-6955

## Certificate of Analysis

No. 6

To: Bullion Mtn. Mines  
7049 Curragh Avenue  
South Burnaby, B.C.

Atten: Mr. G. Wattley

Invoice No. 2

SAMPLE No.	ppm Molybdenum	ppm Copper
Geo E #1	2	18
2	3	18
3	2	20
4	1	13
5	3	20
6	1	18
Std # 1	2	54
L. AIE S#1	19	8
2	2	15
3	2	6
4	1	13
5	1	6
6	1	5
7	49	15
8	31	15
9	5	10
10	3	10
11	7	5
12	23	16
13	37	15
14	30	140
15	45	36
16	2	35
17	1	8
18	2	3
19	5	18
20	21	48
21	17	52
22	23	33
23	52	48
24	32	55
25	5	10
26	8	16
Std #11	21	179
L #2AE S#27	1	6
28	2	6
29	1	5
30	12	18
31	9	13
32	4	15

Date Received April 24, 1967

Date Analysed May 1, 1967

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## Certificate of Analysis

No. 7

To: Bullion Mtn. Mines  
7049 Curragh Avenue  
South Burnaby, B.C.

Atten: Mr. G. Wattley  
Invoice No. 2

SAMPLE No.	ppm Molybdenum	ppm Copper
L #2AE - #33	1	11
34	1	20
35	1	11
36	61	8
37	176	60
38	25	52
39	24	48
40	21	69
41	3	11
Std 13	52	545
L #3AE S#42	2	13
43	8	23
44	5	15
45	12	26
46	67	8
47	15	11
48	5	15
49	4	6
50	2	18
51	2	22
L #4AE S#52	2	10
53	2	8
54	5	10
55	33	8
56	22	10
57	5	6
58	3	15
59	1	15
60	2	22
61	4	15
62	4	10
Std #1	2	55

Date Received April 24, 1967  
Date Analysed May 1, 1967

CERTIFIED BY 

# CHEMEX LABS LTD.

1416 CROWN STREET — NORTH VANCOUVER, B.C. — TELEPHONE 988-6955

## Certificate of Analysis

No. 8

To: Bullion Mtn. Mines  
7049 Curragh Avenue  
South Burnaby, B.C.

Atten: Mr. G. Wattley

Invoice No. 2

SAMPLE No.	ppm	ppm
	Molybdenum	Copper
1	16	42
2	30	114
3	90	147
4	15	16
5	22	61
6	24	28
37	19	78
38	10	7
Std #11	21	179

\* REPEATS FOR MOLYBDENUM AND COPPER.

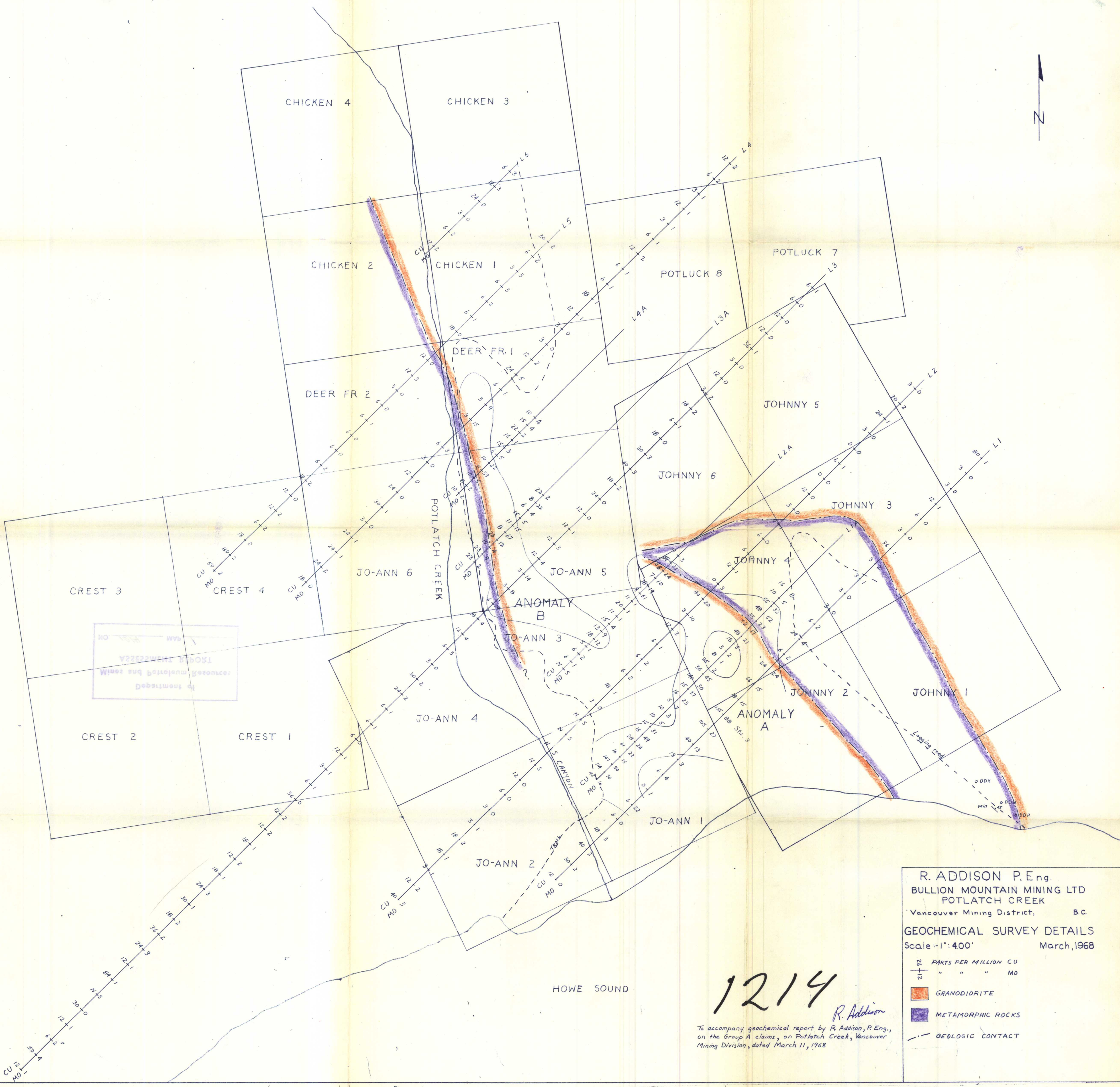
*Samples from MARCH 9<sup>th</sup> 1967*

Date Received April 24, 1967

Date Analysed May 1, 1967

CERTIFIED BY

*B. G. Wattley*



To be interpreted  
Mineralogical and Petrological  
TRACED FROM  
NO

R. ADDISON P. Eng.  
BULLION MOUNTAIN MINING LTD  
POTLATCH CREEK  
Vancouver Mining District, B.C.  
GEOCHEMICAL SURVEY DETAILS  
Scale: 1" = 400'  
March, 1968

24  
+  
12  
PARTS PER MILLION CU  
" " " MO  
GRANODIORITE  
METAMORPHIC ROCKS  
GEOLOGIC CONTACT

1214  
R. Addison  
To accompany geochemical report by R. Addison, P. Eng.,  
on the Group A claims, on Potlatch Creek, Vancouver  
Mining Division, dated March 11, 1968

HOWE SOUND

CU 12.1  
MO 1.1  
59.4  
6.2  
12.1  
30.0  
N 5  
84.1  
12.2  
24.3  
18.2  
36.2