

LOG NO:	FEB 28 1992	RD.
ACTION:		
FILE NO:		

Stream Sediment Sampling

and

Assay Report

on the

Muckaway 11 (Mineral Claim)
Victoria Mining Division
Raymond Creek Area, Cowichan Lake, B.C.

Claims: MUCKAWAY 11 (1820)

Latitude - 124 degrees - ~~30'~~ 28'
Longitude - 48 degrees - ~~50'~~ 52'
NTS M92C. 16W - .088

by

R.W. Neill
December 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,155

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LOCATION MAP. 3-1

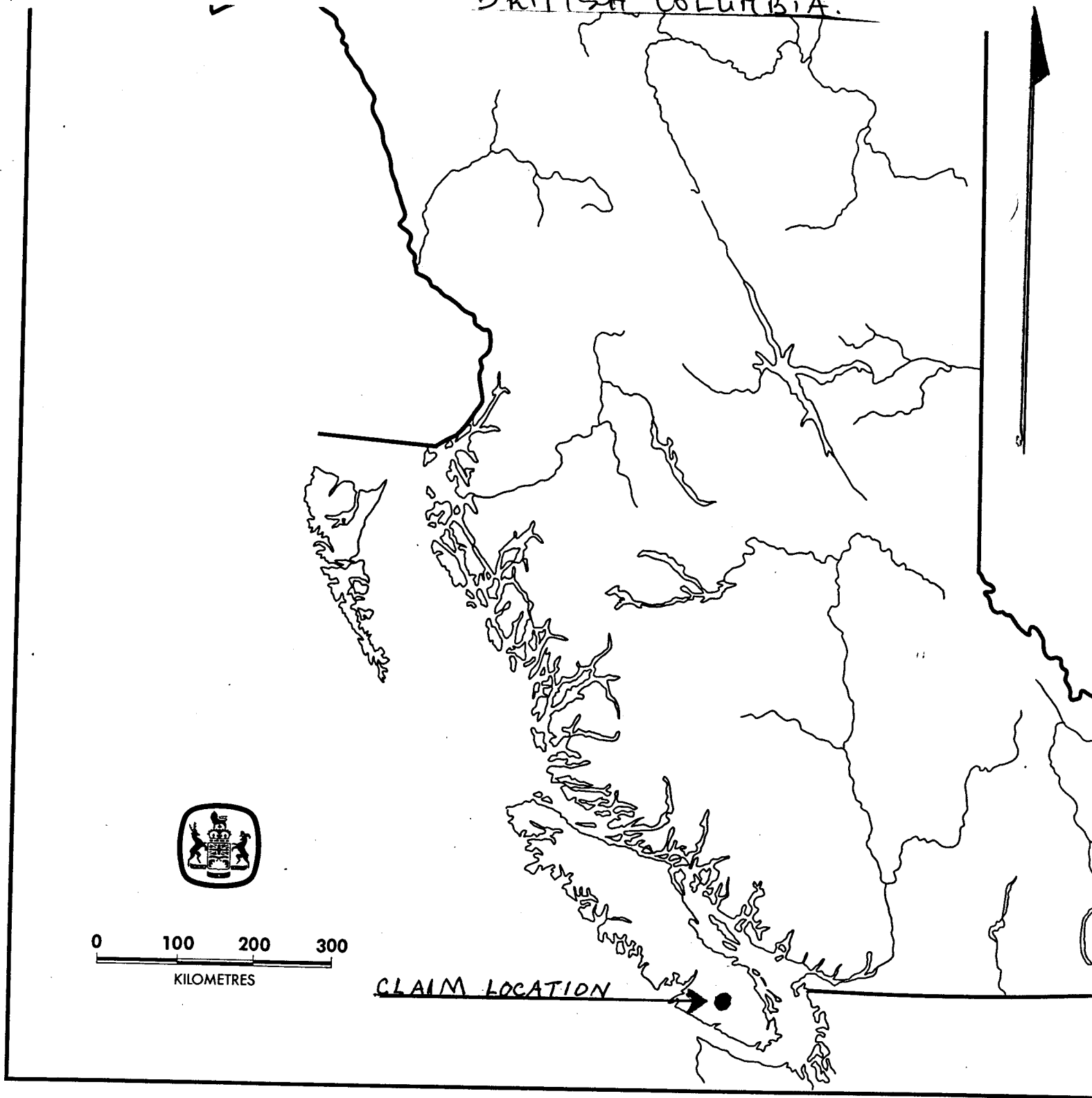
BRITISH COLUMBIA.

N



0 100 200 300
KILOMETRES

CLAIM LOCATION



1.0 INTRODUCTION

This Report, written by R.W. Neill of Victoria, B.C., on field work carried out.

1. Describes Field and Geochemical work carried out on the Muckaway claim. During the period of June 1991 through to December 2, 1991.
2. A cost statement and general recommendations for further work on the property, are included.

2.0 SUMMARY & CONCLUSIONS

The Muckaway claim held by R.W. Neill of Victoria, B.C., consists of a total of 20 claim units in the Mt. Vernon, Cowichan Lake area. The Geological Survey Branch completed the Regional Geochemical Survey of Southern Vancouver Island and the Lower Mainland.

The survey included: Raymond Creek, of which its headwaters come from the Mt Vernon area.

The results of this program indicated Gold and Copper in this area, which inspired the "1991 Stream Sediment" sampling program of Raymond Creek and its tributaries. (Results are included).

In conclusion, further work is recommended on the property including extending the current guidelines, further soil sampling and extending stream sediment samples to the higher elevations of the area.

3.0 LOCATION AND ACCESS

The Muckaway claim is located on Vancouver Island in the Victoria Mining Division's, the Cowichan Lake area. The NW Boundary of the claim, crosses near the peak of Mt. Vernon, which is approx. 5km South of the Western end of Cowichan Lake. The headwaters of Raymond Creek flow from the Northwest of the claim and drains Southeasterly into Nixon Creek.

Access to this claim is usually easy and can be done in numerous of ways, although seasonal rains can cause creeks to flood, extensive damage to the roads and to access trails. When beginning at the west end of the lake, follow westerly on the main logging road approx. 8km to Granite Creek. Then by making a left turn south and begin climbing in elevation along Granite Creek main which leads to the south side of Mt. Vernon and eventually crosses near its peak. There is also an alternative route which is at the Southwest side of Cowichan Lake which is called Nixon Creek main. This main road follows Nixon Creek and crosses Raymond Creek. At Raymond Creek there is a path which leads to an old railway bed that parallels westerly along Raymond Creek, through the center of the claim.

4.0 CLAIM INFORMATION

The Muckaway 11 is a 20 unit Mineral claim in the Victoria Mining District. Claim information was obtained by the writer from the Mining Recorder in Victoria and is summarized as follows:

<u>CLAIM NAME</u>	<u>RECORD #</u>	<u>EXPIRY DATE</u>
MUCKAWAY 11	1820	JANUARY 20, 1992

Expiry Date pending acceptance of this Assessment Report.

5.0 PROPERTY HISTORY

Much of the claimed property has been logged at one time or another. In 1990, I Robert Neill established a grid on the Muckaway Property which is shown on Fig. 5-1 to take soil samples. The Geological Survey Branch sampled Raymond Creek. The (Moss Mat) assayed 98 P.P.B. indicating a stream sampling program. There is however, a large number of overgrown non-maintained dead-end work roads. The logging roads are not very well maintained for all weathers. For most part, these roads are cut into the hillside exposing bedrock, this is excellent for geological mapping and can easily be repaired for trenching, drilling or access. There is also an old railbed which runs from the Southeast corner of the property and follows up stream along Raymond Creek to its headwaters. From the period of (1986 - 1989) Nuspar Resources of Victoria, B.C. held the property and carried out an exploration project.

5.1 STREAM SEDIMENT SAMPLING (1991)

This area was first logged by rail in the 1940's and 50's. Then the higher elevations were logged by truck at a later Date. Consequently, Raymond Creek and its tributaries is very heavily clogged with logging debris and a growth of brush, devils club and also brambles.

The Creek bed is covered with soil, silt and gravel washed down from construction of logging roads at higher elevations. This material had to be removed from Sample sites. Approx. 75% of labour time was consumed by cutting access, removing debris and cleaning off Creek bed at sample sites.

When the sites were prepared, these samples were obtained by digging into clay-beds and under boulders at 500M intervals in Raymond Creek. With one sample each in two of its tributaries. The material was washed in pans. Some high analysis results indicated. (Follow-up on this program).

6.0 LOCAL GEOLOGY

The area along most of the length of Mt. Vernon on the Muckaway II claim, consists of medium to dark greenish feldspar, porphyritic to aphanitic andesite that contain variable amounts of pyrite along fractures. The andesite is believed to be part of a Tertiary andesitic stock that trends Northwest-Southeast roughly parallel to Granite Creek. There is also sequence of Bonanza Group felsic volcanic and tertiary aged, dark greenish gray, aphanitic to feldspar porphyritic andesitic dykes. The Volcanics and cherts are extensively pyritized with disseminated pyrite and pyrite along fractures. The dykes show little in the way of pyrite.

Further to the East of this zone is pyritized dacite, siliceous andesite and bedded cherts that are intruded by some tertiary feldspar porphyritic andesite dykes.

7.0 REGIONAL GEOLOGY

The area is underlain by extensively faulted rocks of the Upper Triassic Vancouver Group and the Lower Jurassic Bonanza Group. The basal Vancouver Group sequence is comprised of basalt flows, breccias and tuffs of the Karnutsen formation overlain by Quatsino formation limestone, which in turn is overlain by clack argillites of the Parsons Bay formation. The overlying Bonanza Group consists of a sequence of argillites, cherts, cherty tuffs, volcanic and/or sedimentary breccias, sandstones and basaltic to rhyolitic flows.

The overall package of rocks have been broadly to tightly folded with fold axes generally trending Northwest, and have been intruded by granodioritic and feldspar porphyritic dykes. (Information from 1989 Regional Geochemical Survey).

8.0 RECOMMENDATIONS

Further work is recommended on the Muckaway II claim including:

- Extending the current grid system.
- A soil sampling Program.
- Follow-up with Creek tributary sampling.

9.0 COST STATEMENT

LABOUR: June 21 to June 26 inclusive 1991 cleaning debris
from Creek, trail and sampling.

Ken A. Neill	5 (12hr) days at \$150.00	\$750.00
James R. Neill	5 (12hr) days at \$150.00	750.00
Robert W. Neill	5 (12hr) days at \$150.00	<u>750.00</u>
TOTAL LABOUR -		\$2250.00

FOOD AND ACCOMIDATION

June 21 to June 26 inclusive 1991
3 Men 5 days - 15 man days at \$55.00

TOTAL FOOD & ACCOM. - \$825.00

TRANSPORTATION

3/4ton truck Camper and fuel
5 days at \$125.00

TOTAL TRANSPORTATION - \$625.00

ANALYTICAL

Chemex Lab \$123.59
127.70

TOTAL - \$251.29

REPORT PREPARATION

TOTAL - \$201.00

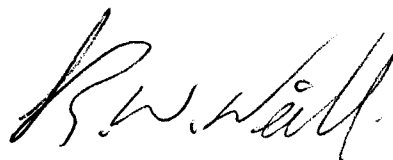
TOTAL EXPENSES - \$4152.29

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QUALIFICATIONS

I, Robert W. Neill, of 568 Langholme Drive, Victoria, B.C. do hereby state:

1. I am a graduate of the Advanced prospecting course of 1984.
2. I have practiced prospecting since 1980.
3. I have based this report on field work carried out under my supervision during the year of 1991.

A handwritten signature in cursive script, appearing to read 'R. W. Neill', written in dark ink.

Robert W. Neill



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: BURTON CONSULTING INC.

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VANCOUVER, BC
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Page Number :1
Total Pages :1
Certificate Date: 16-JUL-91
Invoice No. :19117599
P.O. Number :031076

Project : RAYMOND CREEK GEO
Comments: CC: BURTON CONSULTING

CERTIFICATE OF ANALYSIS A9117599

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
L-1 -100	216 238	< 5	< 0.5	27	90	9.27	815	< 1	10	18	94
L-2 -100	216 238	3360	< 0.5	25	84	9.06	820	< 1	10	18	86
L-4 -100	216 238	< 5	< 0.5	28	67	10.40	955	< 1	11	26	116
S-1 -100	216 238	2150	< 0.5	28	75	11.75	770	< 1	12	20	94
S-3 -100	216 238	970	< 0.5	29	77	11.70	810	< 1	12	20	100
S-4 -100	216 238	880	< 0.5	28	75	11.65	875	< 1	9	18	96
S-5 -100	216 238	505	< 0.5	30	87	10.35	730	< 1	8	22	84
S-6 -100	216 238	< 5	< 0.5	30	70	10.75	795	< 1	11	18	86
S-6A -100	216 238	< 5	< 0.5	24	50	9.73	900	< 1	11	18	110
S-7 -100	216 238	< 5	< 0.5	33	69	10.50	745	< 1	10	18	70
S-8 -100	216 238	< 5	< 0.5	35	72	11.40	695	< 1	11	20	72

CERTIFICATION:



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CERTIFICATE OF ANALYSIS A9117598

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA									
L-1 -10+100	240	205	990									
L-2 -10+100	240	205	< 5									
L-4 -10+100	240	205	< 5									
S-1 -10+100	240	205	< 5									
S-3 -10+100	240	205	3720									
S-4 -10+100	240	205	< 5									
S-5 -10+100	240	205	< 5									
S-6 -10+100	240	205	< 5									
S-6A -10+100	240	205	< 5									
S-7 -10+100	240	205	< 5									
S-8 -10+100	240	205	360									

CERTIFICATION: 