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REPORT
ON
AN ORIENTATION STUDY FOR A
ROCK GEOCHEMISTRY SURVEY
AT MITCHELL CREEK, B.C.

on behalf of
GRANDUC MINES LIMITED

by
J.H. Montgomery, Ph.D., P.Eng.

September 20, 1974

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AN ORIENTATION STUDY FOR A ROCK GEOCHEMISTRY SURVEY

AT MITCHELL CREEK, B.C.

INTRODUCTION

This report describes a rock geochemistry orientation study undertaken for Granduc Mines Limited on their Mitchell Creek property located in Skeena Mining Division, British Columbia. The property was visited on August 3-8, 1974 in the company of Mr. E. Ostensoe. Rock samples were collected from five areas and analyzed spectrographically for 30 elements.

LOCATION AND ACCESS

The property is located mainly on an east-west ridge at elevations between 5000 and 6000 feet with Mitchell Creek to the north and Sulphurets Creek to the south. N.T.S. Ref. 104 B/9 . See Figure 1.

A helicopter was used to reach the property from Stewart, B.C. and also used to collect some of the widely spaced rock samples.

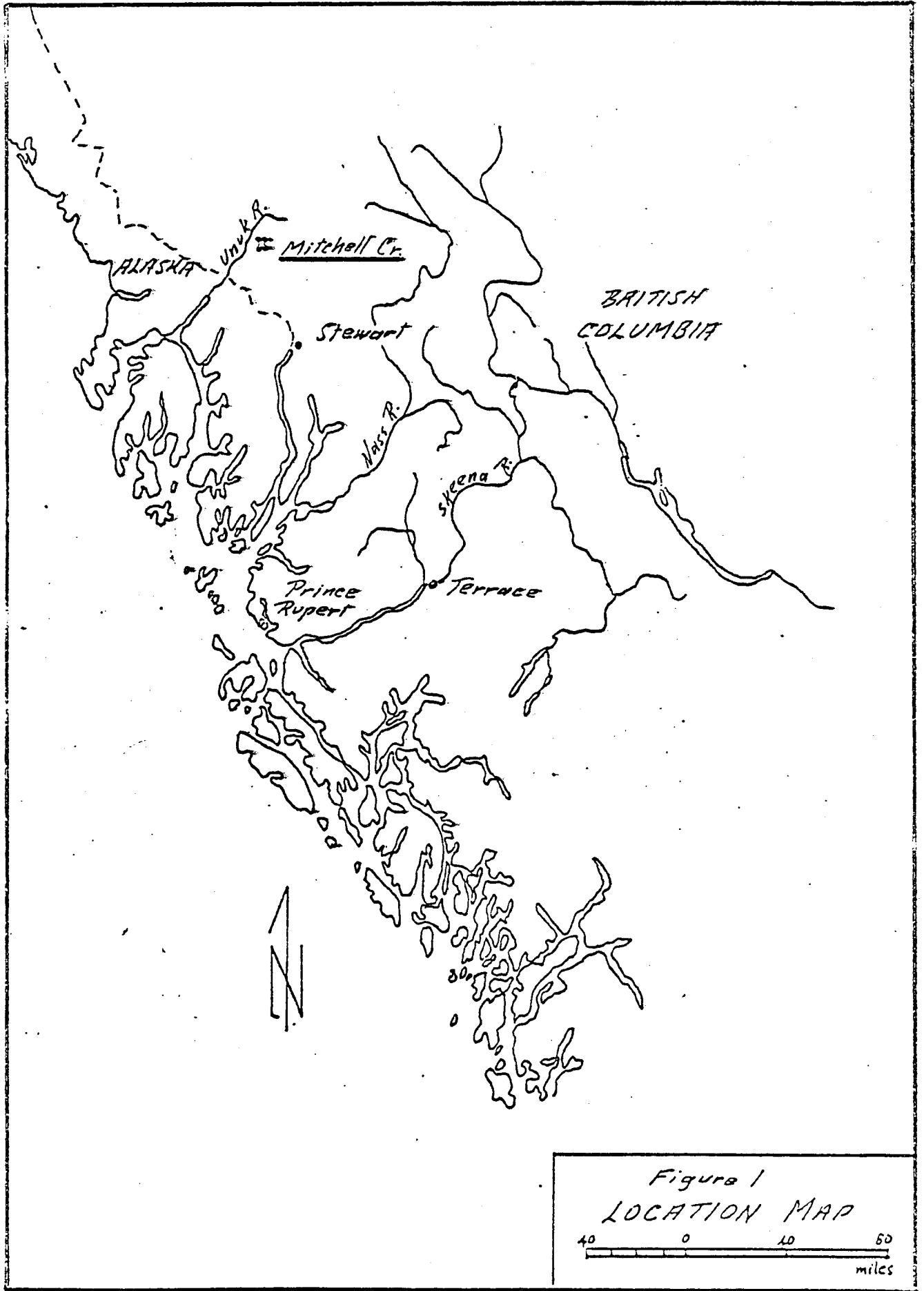


Figure 1
LOCATION MAP
40 0 10 50
miles

ROCK SAMPLES

(a) Sampling Procedures:

A standard procedure for collecting rock samples for geochemical analysis is currently being used by Granduc Mines Limited on the property for their survey and was also used to collect test samples by the writer. Briefly, a number of rock chips are taken from several areas near the sample location mapped and placed in numbered plastic bags. The material is selected to avoid rock affected by surface weathering and/or local hydrothermal effects near veins or shears.

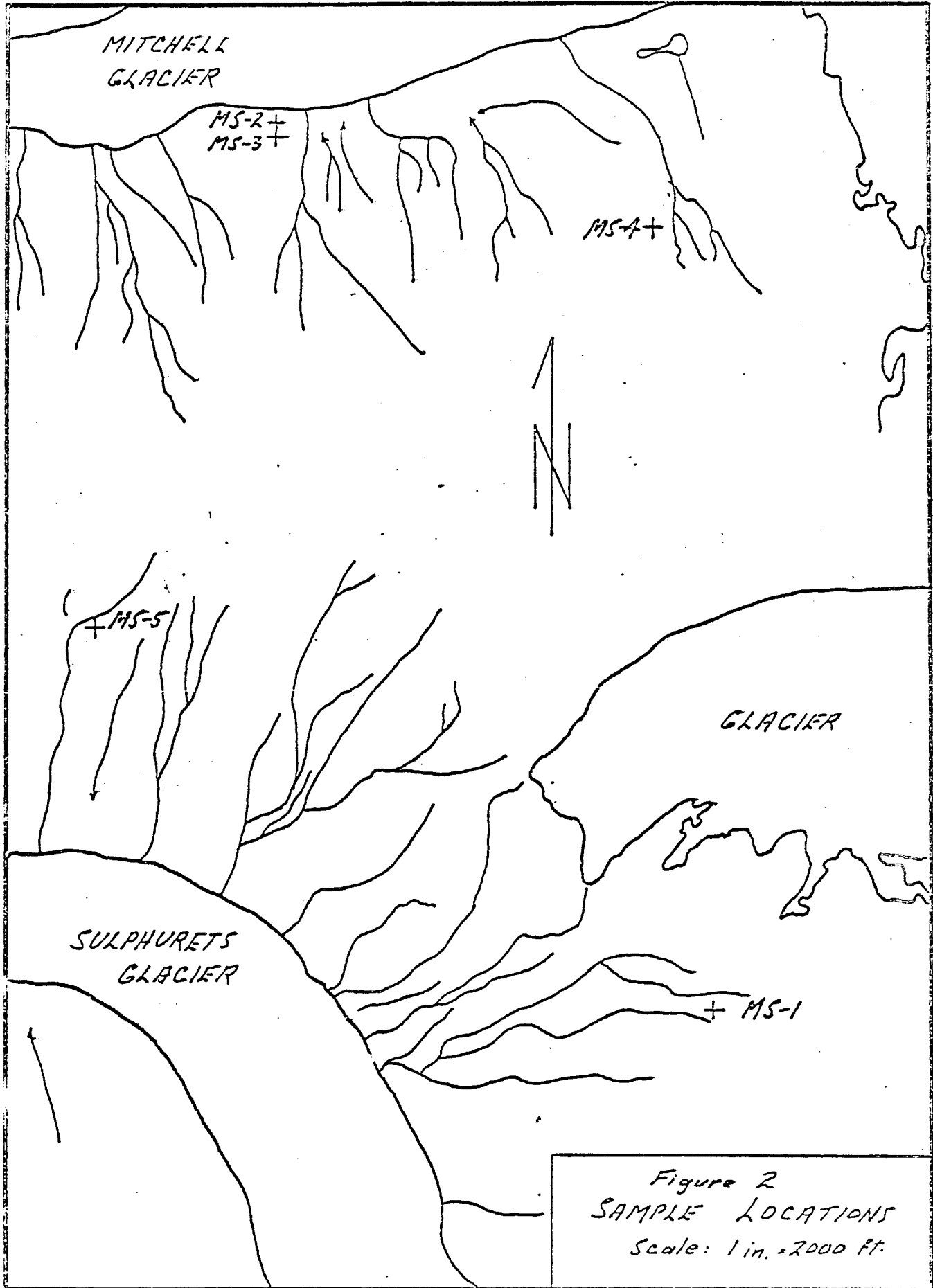
A specimen of rock representative of each sample was also taken for future reference and macroscopic examination.

(b) Description of Samples:

Rock samples were collected from the five main areas of interest on the property: (1) Peripheral lead-zinc zone, (2) Pyrite-quartz-sericite zone, (3) Syenite, (4) Molybdenum zone, (5) Copper zone. Figure 2 shows the locations from which the samples were taken. Detailed descriptions for each sample follow:

Sample MS-1

This sample was taken from the peripheral lead-zinc mineralized area on the north side of Sulphurets glacier about 50 feet from a small carbonate vein containing silver-lead-zinc mineralization. It is a greenish-grey, medium-grained rock containing quartz, carbonate, epidote and some biotite. Pyrite is abundant in fractures and disseminations throughout the rock.



Sample MS-2

This sample was taken from the pyrite-quartz-sericite zone on the south side of Mitchell glacier. It is white and grey with yellow iron oxide stain. It is composed almost entirely of quartz, pyrite and sericite with some argillic minerals.

Sample MS-3

This sample was taken from the syenite body which overlies the pyrite-quartz-sericite rock about 100 feet south of MS-2. The rock is grey, medium-grained and heavily pyritized. It is composed mainly of sericitized feldspar. Minute traces of chalcopyrite are also present.

Sample MS-4

This sample was taken from the molybdenum zone just above the so-called "rooster comb" (Phelps Dodge stake 3+00 W). It is white to buff-colored and composed of sericite, quartz and fine-grained pyrite. Argillic alteration is also present. Small traces of very fine-grained molybdenite were also detected.

Sample MS-5

This sample was taken from the "copper zone" about 250 feet southwest of DDH 68-3. Since it was taken from a surface trench blasted down to fresh rock, the sample is reasonably free of weathering effects although some iron oxides and malachite are present on some fracture surfaces. The pale grey rock

appears to be an intermediate volcanic rock. It is well mineralized with fine pyrite and chalcopyrite which occur disseminated throughout the rock and along fractures. Alteration, confined mostly to fracture walls, consists of chloritization and argillization. Some albitization of primary feldspars may also have taken place.

(c) Spectrographic Analyses:

The five samples were submitted to Can Test Limited for semi-quantitative spectrographic analysis. Thirty elements were read. The results for all elements reported are shown on the laboratory report at the end of this report.

The purpose of the analyses was to determine which of the thirty elements tested might be of significance in delineating the various zones of mineralization and hydrothermal alteration on the property. Results which appear to have element variations of interest are noted below:

Barium- the barium content of the peripheral lead-zinc zone is higher by a factor of 4 than the other zones. This is not unusual since barite commonly occurs with galena, sphalerite, etc.

Copper- Not unexpectedly, copper values are high in the copper zone and almost non-existent in the peripheral lead-zinc zone.

Lead- The lead content of the peripheral zone is higher than the other zones by a factor of five.

Manganese- Manganese is considerably higher in the peripheral zone and in the syenite than in the other areas sampled (one order of magnitude higher).

Molybdenum- Molybdenum is highest in the molybdenum zone with smaller amounts detected in the pyrite-quartz-sericite zone and in the copper zone.

Strontium- Strontium is highest in the peripheral and molybdenum zones.

Titanium- Titanium is relatively very low in the pyrite-quartz-sericite zone and in the syenite.

Vanadium- Vanadium is highest in the peripheral lead-zinc zone.

Silver- Silver is highest in the syenite (3 ppm).

Gold- Only traces of gold were detected in each of the samples.

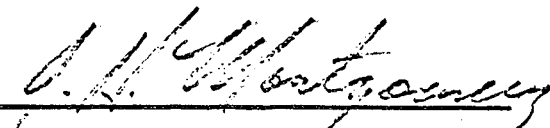
Zinc- Surprisingly, no zinc was detected in any of the samples.

Several other elements showed some variation in the different zones but they were either small or do not appear significant. The relationships discussed above are based on a very small sampling, but most appear to be logical and would probably not change drastically with a larger sample base.

RECOMMENDATIONS

1. It is recommended that all rock samples be analyzed for Ba, Cu, Pb, Mn, Mo, Sr, Ti, Au and Ag. Analyzing the samples for such a large number of elements may seem superfluous, but the inter-relationships between geology, mineralization and alteration at Mitchell Creek are extremely complex and it is believed by the writer that the spatial relationships of these elements will reflect the relationships between geology, mineralization and alteration and help in their interpretation.
2. A detailed statistical treatment of all data should be undertaken. Such treatment of data is invaluable in aiding interpretation of the results.

Respectfully submitted,



J.H. Montgomery, Ph.D., P.Eng.

September 20, 1974.

CAN TEST LTD.

1650 PANDORA STREET, VANCOUVER 6, B.C. • TELEPHONE 254-7278
Telex 04-507737

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES CERTIFICATE

To: Montgomery Wolf & Associates,
805 - 850 West Hastings Street,
Vancouver, B. C.

File No. 8118 A

Date Aug. 22,

We hereby Certify that the following are the results of semi quantitative spectrographic analyses made on _____ samples submitted.

		1	2	3	4	5
Aluminum	Al	Major	1.	3.	6.	5.
Antimony	Sb	ND	ND	ND	ND	ND
Arsenic	As	ND	ND	ND	ND	ND
Barium	Ba	0.08	Trace	0.02	0.02	0.02
Beryllium	Be	ND	ND	ND	ND	ND
Bismuth	Bi	ND	ND	ND	ND	ND
Boron	B	0.002	0.002	Trace	0.005	Trace
Cadmium	Cd	ND	ND	ND	ND	ND
Calcium	Ca	Major	0.5	2.	1.	1.
Chromium	Cr	0.02	0.04	Trace	0.01	Trace
Cobalt	Co	Trace	Trace	ND	ND	ND
Copper	Cu	0.01	0.04	0.06	0.05	*
Gallium	Ga	ND	ND	ND	ND	ND
Gold	Au	Trace	Trace	Trace	Trace	Trace
Iron	Fe	6.	3.	2.	5.	3.
Lead	Pb	0.05	Trace	0.01	0.01	0.01
Magnesium	Mg	4.	0.05	1.	1.	1.
Manganese	Mn	0.3	0.02	0.2	0.005	0.03
Molybdenum	Mo	ND	0.005	ND	0.03	0.01
Niobium	Nb	ND	ND	ND	ND	ND
Nickel	Ni	0.01	Trace	Trace	0.005	0.003
Potassium	K	Trace	Trace	Trace	Trace	Trace
Silicon	Si	Matrix	Matrix	Matrix	Matrix	Matrix
Silver	Ag	0.001	Trace	0.003	0.001	Trace
Sodium	Na	4.	Trace	5.	0.5	3.
Strontium	Sr	0.1	Trace	0.01	0.08	0.02
Tantalum	Ta	ND	ND	ND	ND	ND
Thorium	Th	ND	ND	ND	ND	ND
Tin	Sn	ND	ND	ND	ND	ND
Titanium	Ti	0.8	0.05	0.1	0.6	0.4
Tungsten	W	ND	ND	ND	ND	ND
Uranium	U	ND	ND	ND	ND	ND
Vanadium	V	0.07	0.04	0.03	0.01	0.01
Zinc	Zn	ND	ND	ND	ND	ND

Sample Identification

Sample 1: MS-1

Sample 2: MS-2

Sample 3: MS-3

Sample 4: MS-4

Sample 5: MS-5

Percentages of the various elements expressed in these analyses may be considered accurate to within plus or minus 35 to 50% of the amount present.

Semi-quantitative spectrographic analytical results for gold and silver are normally not of a sufficient degree of precision to enable calculation of the true value of ores. Therefore, should exact values be required, it is recommended that these elements be assayed by the conventional Fire Assay Method. Quantitative and Fire Assays may be carried out on the retained pulp samples.

Silicon, aluminum, magnesium, calcium and iron are normal components of complex silicates.

- MATRIX — Major constituent
- MAJOR — Above normal spectrographic range
- TRACE — Detected but minor amounts
- N.D. — Not detected
- * — Suggest assay (above 0.3%)

All results expressed as Percent

Note: Pulps retained one week.

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Sample No. 8118 A
 Date: Aug. 22

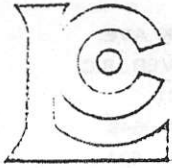
Reference: 44-1587-Sub E
 Laboratory: FBI Laboratory

The bearing of this report is to be used only for the purpose of identifying specimens of the same type as those analyzed.

Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Sample 1: MS-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 2: MS-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 3: MS-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 4: MS-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 5: MS-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APPENDIX IIB																				
Multi Element Analyses																				
Sample 1: MS-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 2: MS-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 3: MS-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 4: MS-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample 5: MS-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Quantities of the elements listed are expressed in terms of weight percent. The detection limit for each element is 0.1% to 0.5% of the sample weight. Semi-quantitative spectrographic analysis was used for the determination of the elements listed. The accuracy of the analysis is approximately ±10% for the elements listed. The detection limit for each element is 0.1% to 0.5% of the sample weight. The accuracy of the analysis is approximately ±10% for the elements listed. The detection limit for each element is 0.1% to 0.5% of the sample weight. The accuracy of the analysis is approximately ±10% for the elements listed.

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 Vancouver, B. C.

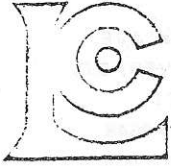
ATTN:

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM* Lead	PPM Zinc	PPM* Silver	PPM Nickel	PPM Cobalt
9	1000	7	8	34	0.4	26	22
21	52	1	24	65	0.2	58	20
27	175	1	6	32	0.2	52	22
46	13	< 1	2	41	< 0.2	24	22
83	1120	10	2	60	0.8	54	48
91	28	< 1	8	45	2.0	52	20
134	33	< 1	22	57	0.4	20	18
160	52	5	8	20	0.4	16	12
182	1240	7	10	98	1.0	54	20
186	110	< 1	4	86	0.4	24	34
339	76	1	6	18	1.6	18	12
365	1160	10	6	30	1.6	58	28
408	33	3	98	375	2.8	36	20
442	186	1	4	75	1.2	32	32
476	1000	2	6	28	0.4	16	16
503	920	2	2	52	0.4	82	30
557	1240	20	< 2	105	1.6	18	20
601	197	< 1	4	22	0.2	18	12
12501	14000	120	52	55	1.8	24	20
12505	2080	11	22	127	0.8	32	18



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SAMPLE NO. :	% Calcium	PPM Strontium	PPM Barium	PPM Vanadium	PPM Rubidium	PPM Chromium	PPM Manganese
9	0.31	20	320	460	390	880	88
21	2.53	410	1000	150	170	760	720
27	2.82	625	1800	390	235	360	600
46	1.39	310	840	305	235	320	1035
83	1.85	115	180	330	285	920	470
91	1.85	160	200	230	285	1320	1615
134	2.00	340	6000	250	210	680	1110
160	0.25	125	3180	240	290	920	336
182	4.44	80	1080	180	285	360	1815
186	3.48	900	4200	420	105	200	1260
339	0.48	15	600	245	340	1080	426
365	3.06	210	760	290	295	920	540
408	0.07	<5	240	345	330	2320	119
442	1.92	135	240	470	380	1240	925
476	0.65	200	7700	300	240	680	500
503	2.81	280	2550	470	320	400	1110
557	0.88	60	3850	280	235	720	1185
601	3.31	260	3950	270	230	1080	960
12501	0.28	80	400	260	265	80	310
12505	2.88	200	520	210	135	80	1185

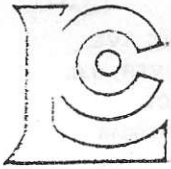
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SAMPLE NO. :	% Iron	PPM Arsenic	PPM Antimony	PPB Mercury	PPM* Bismuth
9	6.72	140	6	190	< 2
21	3.34	85	2	80	< 2
27	5.00	15	< 2	50	< 2
46	3.68	42	< 2	30	< 2
83	5.80	27	< 2	40	< 2
91	3.26	100	2	30	< 2
134	3.52	25	< 2	65	< 2
160	2.08	29	< 2	50	< 2
182	3.52	27	< 2	80	< 2
186	5.50	5	< 2	65	< 2
339	2.40	23	< 2	20	< 2
365	3.08	22	< 2	50	< 2
408	2.76	230	2	565	< 2
442	4.54	60	2	65	< 2
476	2.32	5	< 2	65	< 2
503	5.00	15	4	90	< 2
557	5.40	6	2	50	< 2
601	1.36	3	2	40	< 2
12501	3.16	37	18	30	< 2
12505	3.26	7	8	30	< 2

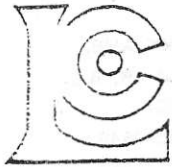
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SAMPLE NO. :	PPM Tungsten	PPM Fluorine	PPB Gold	% Sodium	% Potassium
9	12	320	560	0.15	7.38
21	12	270	<30	4.35	1.88
27	40	600	30	4.45	2.44
46	30	320	<30	4.65	2.31
83	16	580	500	3.55	3.31
91	12	540	205	5.57	3.26
134	16	320	<30	4.45	4.00
160	10	590	130	2.05	5.25
182	<8	830	405	0.07	2.38
186	16	400	<30	4.50	2.50
339	8	380	700	0.43	2.31
365	10	420	80	3.40	5.12
408	<8	180	130	0.07	2.06
442	20	350	80	0.31	3.94
476	16	420	50	3.90	5.12
503	20	1200	<30	2.49	1.57
557	8	680	540	0.60	3.19
601	<8	500	<30	3.20	3.60
1250I	<8	1260	870	1.15	5.62
1250S	<8	530	1020	6.25	1.62



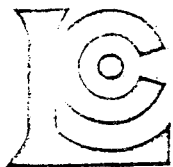
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APPENDIX IIC

Geochemical Analyses - Copper, Molybdenum, Lead,
Silver, Gold



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ATTN: Rock Geo. Project

ANALYSED Jan. 16/75

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead *	PPM Silver *	PPB Gold
1	2520	12	72	1.2	145
2	2160	3	16	5.2	3920
3	163	<1	8	0.2	< 30
4	200	7	58	9.0	< 30
5	141	1	24	2.6	190
6	1160	5	38	0.4	175
7	800	3	46	0.4	190
8	720	2	6	0.6	220
10	108	1	22	0.2	30
11	224	3	< 2	0.8	130
12	4140	12	< 2	2.2	1125
13	2300	2	4	0.8	145
14	1000	1	10	0.6	30
15	540	10	8	1.2	80
16	4880	3	4	2.0	470
17	124	<1	10	< 0.2	< 30
18	156	2	4	0.6	< 30
19	880	<1	22	4.6	220
20	60	<1	4	< 0.2	175
22	128	<1	12	1.0	< 30
23	70	<1	4	< 0.2	< 30
24	56	4	10	0.4	< 30
25	1160	4	< 2	0.2	80
26	96	6	6	0.2	< 30
28	1200	12	2	0.8	160
29	437	2	8	0.4	30
30	1920	2	< 2	1.2	110
31	48	1	< 2	0.4	80
32	236	<1	16	0.4	< 30
33	70	<1	18	< 0.2	< 30
34	70	<1	6	< 0.2	< 30
35	20	<1	10	< 0.2	< 30
36	116	6	14	0.8	< 30
37	54	<1	500	1.6	< 30
38	320	1	280	14	50
39	26	<1	12	0.2	< 30
40	26	1	< 2	0.2	< 30
41	13	1	2	0.2	< 30
42	70	2	< 2	0.4	< 30
43	41	1	72	1.0	80

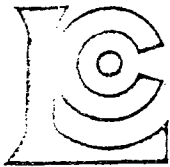
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 ANALYSED Jan. 16/75

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
44	285	2	62	1.2	< 30
45	44	< 1	< 2	0.4	80
47	22	1	< 2	0.4	< 30
48	86	1	< 2	0.2	< 30
49	64	1	26	0.8	< 30
50	12	< 1	< 2	0.2	< 30
51	18	1	8	0.4	< 30
52	20	< 1	< 2	0.6	< 30
53	46	2	12	1.8	175
54	38	3	4	0.2	< 30
55	26	1	18	0.8	30
56	20	< 1	8	0.2	< 30
57	960	3	130	3.2	175
58	540	2	48	1.2	< 30
59	5040	55	6	0.8	3400
60	100	< 1	6	0.2	< 30
61	100	2	10	< 0.2	30
62	1280	1	8	0.6	< 30
63	277	1	4	< 0.2	< 30
64	374	7	14	0.4	50
65	720	1	4	1.0	< 30
66	320	6	30	1.8	220
67	44	1	34	< 0.2	< 30
68	106	1	26	< 0.2	< 30
69	200	1	22	0.2	< 30
70	36	2	16	< 0.2	< 30
71	34	< 1	14	< 0.2	< 30
72	1760	8	2	1.2	30
73	424	1	6	0.2	30
74	374	7	10	1.2	< 30
75	56	< 1	6	0.2	< 30
76	64	4	8	0.2	< 30
77	3280	13	6	0.8	250
78	670	6	8	0.6	30
79	3600	50	6	2.0	210
80	1160	6	260	46	110
81	2300	30	< 2	1.0	210
82	400	21	89	1.0	30
84	2800	3	8	0.8	30
85	840	14	< 2	0.2	350

* Corrected



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CERTIFIED BY: *H.P. Skjerve*



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 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B. C.

CERTIFICATE NO. 28852
 INVOICE NO. 13297
 RECEIVED Dec. 12/74
 ANALYSED Jan. 16/75

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
86	1920	27	14	1.0	280
87	270	2	18	0.2	80
88	74	1	8	0.2	<30
89	63	255	50	4.8	175
90	70	5	24	2.0	190
92	48	2	6	0.4	< 30
93	64	2	12	0.2	< 30
94	33	< 1	6	0.2	< 30
95	38	2	12	2.4	30
96	90	2	300	0.2	< 30
97	22	1	36	0.6	< 30
98	18	2	8	0.2	< 30
99	160	< 1	30	1.2	30
100	189	1	22	1.0	< 30
101	36	1	12	3.0	405
102	24	40	14	0.6	30
103	156	< 1	38	1.2	190
104	134	6	18	1.0	30
105	1840	3	60	0.8	775
106	320	< 1	8	0.6	130
107	94	< 1	2	< 0.2	< 30
108	40	1	4	1.4	190
109	1000	6	< 2	0.6	30
110	720	< 1	4	2.4	1070
111	131	1	24	2.2	< 30
112	74	< 1	2	0.8	30
113	194	< 1	< 2	0.2	< 30
114	144	< 1	2	1.0	< 30
115	112	2	< 2	0.8	< 30
116	292	< 1	< 2	0.2	< 30
117	128	1	< 2	0.2	< 30
118	1160	3	6	1.0	80
119	1320	9	< 2	1.4	130
120	1560	72	< 2	1.4	80
121	1200	14	< 2	0.6	50
122	78	4	4	0.2	160
123	277	15	14	0.8	375
124	1080	1	12	0.8	175
125	320	6	< 2	0.8	235
126	64	11	10	0.6	110

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 = 1177 W. Hastings,
 Vancouver 8, B. C.

CERTIFICATE NO. 28854
 INVOICE NO. 13297
 RECEIVED Dec. 12/74
 ANALYSED Jan. 16/75

ATTN: Rock Geo. Project

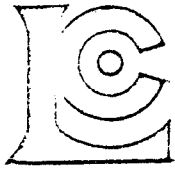
SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
127	341	< 1	8	0.6	560
128	41	1	46	0.6	160
129	586	2	12	1.4	80
130	800	1	2	0.2	< 30
131	1600	13	4	1.0	< 30
132	230	2	1125	22	160
133	60	2	24	1.0	< 30
135	44	< 1	6	1.2	30
136	26	3	8	0.6	< 30
137	106	6	6	0.4	< 30
138	66	< 1	8	0.6	< 30
139	163	< 1	16	2.0	< 30
140	38	2	12	1.8	790
141	102	< 1	8	< 0.2	< 30
142	148	< 1	4	0.2	< 30
143	1720	47	2	0.6	145
144	200	10	4	< 0.2	< 30
145	110	5	4	< 0.2	< 30
146	104	< 1	4	< 0.2	< 30
147	586	1	4	0.8	160
148	200	1	4	0.2	700
149	2800	1	4	5.0	1950
150	310	2	6	0.6	80
151	33	1	12	< 0.2	< 30
152	189	< 1	40	0.4	< 30
153	64	< 1	6	< 0.2	< 30
154	141	< 1	16	0.2	< 30
155	30	< 1	10	< 0.2	< 30
159	1400	5	4	0.4	110
161	189	2	10	0.2	< 30
162	110	3	8	0.6	< 30
163	3170	2	2	2.6	105
164	840	< 1	2	0.8	80
165	120	< 1	2	< 0.2	< 30
166	50	< 1	2	< 0.2	< 30
167	20	< 1	2	0.2	< 30
168	80	< 1	8	0.8	< 30
169	163	< 1	4	0.2	< 30
170	144	< 1	2	0.2	< 30
175	36	< 1	< 2	0.2	< 30

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

CERTIFICATE NO. 28855
INVOICE NO. 13297
RECEIVED Dec. 12/74
ANALYSED Jan. 16/75

ATTN: Rock Geo. Project

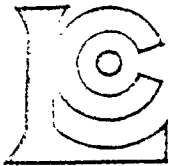
SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
176	189	< 1	34	1.0	< 30
177	437	2	12	0.6	< 30
178	1320	12	2	1.0	50
179	206	< 1	38	1.8	< 30
180p	218	< 1	14	1.4	< 30
181	112	5	16	1.2	6560
183	40	3	8	1.2	540
187	106	< 1	18	0.4	< 30
190	116	50	< 2	0.8	1180
191	136	1	< 2	0.4	50
192	194	< 1	8	0.8	80
201	78	< 1	10	1.4	< 30
202	83	< 1	78	0.8	< 30
203	44	2	70	5.4	1255
204	424	1	20	1.0	310
205	98	25	30	0.4	50
206	452	7	2	0.8	220
207	562	3	2	0.6	250
208	108	96	6	< 0.2	110
209	840	17	52	0.8	560
210	54	4	12	< 0.2	< 30
211	52	1	10	0.4	< 30
212	64	1	6	< 0.2	< 30
213	110	< 1	20	0.6	< 30
214	34	< 1	16	0.4	< 30
215	42	< 1	566	2.4	< 30
216	341	1	8	1.0	< 30
217	262	3	16	1.0	< 30
218	48	1	14	< 0.2	< 30
219	144	1	4	0.6	< 30
220	44	< 1	2	< 0.2	< 30
221	128	2	< 2	1.0	130
222	120	< 1	2	1.0	< 30
223	112	< 1	50	2.0	330
224	645	< 1	28	5.6	900
225	50	< 1	4	0.4	50

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 28866

TO: Granduc Mines Ltd.,
 2009 - 1177 W. Hastings
 Vancouver 8, B. C.

INVOICE NO. 13323

RECEIVED Jan. 3/75

ATTN: Rock Geo. project

ANALYSED Jan. 23/75

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead *	PPM Silver*	PPB Gold
156	62	1	< 2	0.2	<30
157	33	13	60	3.2	440
158	2360	11	2	1.0	30
171	72	1	< 2	< 0.2	<30
172	2080	41	< 2	0.8	205
173	277	2	2	< 0.2	<30
174	1920	90	< 2	0.8	130
184	38	1	700	14.4	1360
185	2610	48	< 2	0.8	280
188	120	14	14	0.6	<30
189	118	4	8	< 0.2	<30
226	18	1	10	< 0.2	<30
227	92	1	4	< 0.2	<30
228	28	2	4	0.4	<30
229	80	2	10	0.4	<30
230	24	3	54	0.8	<30
231	36	2	10	0.2	<30
232	78	< 1	6	0.4	<30
233	16	< 1	2	< 0.2	<30
234	106	< 1	14	0.6	<30
235	28	< 1	2	< 0.2	<30
236	40	< 1	4	< 0.2	<30
237	70	1	4	< 0.2	<30
238	36	< 1	6	1.0	<30
239	8	2	4	< 0.2	<30
240	18	< 1	10	0.2	<30
241	44	1	12	0.6	<30
242	13	8	44	0.2	<30
243	80	2	1330	2.8	<30
244	178	1	8	0.6	<30
245	98	1	22	0.4	<30
246	16	5	22	0.2	<30
247	20	7	< 2	0.2	30
248	34	2	4	0.4	<30
249	24	1	52	0.4	<30
250	78	2	6	0.2	<30
251	62	1	4	0.4	<30
252	72	2	10	1.6	<30
253	194	5	12	0.8	30
254	112	3	6	0.6	30
Std.	92	26	50		

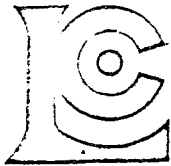
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CERTIFIED BY:

San Amore



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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 28867

TO: Granduc Mines Ltd.,
 2009 - 1177 W. Hastings
 Vancouver 8, B. C.

INVOICE NO. 13323

RECEIVED Jan. 3/75

ATTN:

ANALYSED Jan. 23/75

Rock Geo Project

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
255	68	3	4	0.4	130
256	104	1	32	0.6	<30
257	90	<1	36	0.8	<30
258	212	<1	20	0.6	80
259	20	<1	16	0.4	235
260	38	15	48	0.6	110
261	437	6	8	1.2	80
262	136	1	24	1.0	<30
263	114	1	12	1.2	<30
264	50	1	6	0.6	50
265	56	10	22	0.4	30
266	400	4	2	0.8	220
267	54	1	4	0.2	<30
268	28	<1	4	< 0.2	<30
269	34	<1	6	< 0.2	<30
270	30	<1	4	0.2	<30
271	60	<1	2	0.2	<30
272	102	<1	38	1.2	<30
273	800	5	6	0.6	30
274	285	2	8	0.6	80
275	70	1	6	0.4	<30
276	104	<1	14	0.6	<30
277	106	<1	12	0.2	30
278	248	1	44	1.2	80
279	920	2	6	0.8	130
280	92	<1	6	0.6	160
281	80	<1	12	0.4	30
282	80	<1	8	0.4	130
283	5940	4	8	1.0	1340
284	48	<1	4	0.4	130
285	154	<1	50	1.0	160
286	116	<1	12	0.4	30
287	18	2	4	0.2	30
288	183	<1	4	< 0.2	<30
289	128	8	4	0.4	<30
290	41	<1	8	0.2	<30
291	112	1	28	1.2	130
292	12	<1	10	0.2	<30
293	4140	16	24	4.4	235
294	320	2	8	0.8	30
Std.	72	25	50		

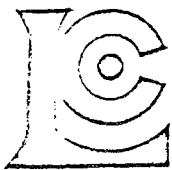
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CERTIFIED BY:

Stan Amosini



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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 28868

TO: Granduc Mines Ltd.,
 2009 - 1177 W. Hastings,
 Vancouver, B. C.

INVOICE NO. 13323

RECEIVED Jan. 3/75

ATTN: Rock Geo. Project

ANALYSED Jan. 23/75

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
295	154	1	8	0.6	< 30
296	3070	5	2	1.8	50
297	50	2	4	0.5	500
298	1830	5	4	1.6	80
299	1080	2	< 2	1.2	50
300	880	< 1	2	1.4	175
301	141	9	< 2	0.4	< 30
302	1120	4	2	0.8	30
303	400	6	2	0.4	30
304	1840	9	2	1.2	205
305	136	10	< 2	0.2	< 30
306	520	< 1	6	0.6	30
307	30	< 1	2	< 0.2	< 30
308	38	2	4	0.2	< 30
309	18	1	12	0.4	< 30
310	21	< 1	< 2	0.2	30
311	212	1	8	0.6	250
312	136	34	48	1.0	190
313	44	2	12	0.2	< 30
314	18	1	4	< 0.2	< 30
315	22	1	20	0.4	50
316	14	< 1	4	< 0.2	< 30
317	84	1	10	< 0.2	< 30
318	24	1	6	< 0.2	< 30
319	33	1	16	0.4	< 30
320	200	< 1	2	0.6	30
321	141	1	10	0.2	30
322	51	2	4	0.4	< 30
323	34	< 1	26	12.2	850
324	18	1	2	< 0.2	< 30
325	26	1	24	0.8	110
326	20	2	34	1.8	< 30
327	40	< 1	28	0.2	< 30
328	18	< 1	4	< 0.2	< 30
329	46	7	20	< 0.2	< 30
330	26	< 1	6	< 0.2	< 30
331	31	1	10	0.6	< 30
333	200	2	< 2	0.4	< 30
334	38	< 1	2	0.2	< 30
Std.	70	25	50		

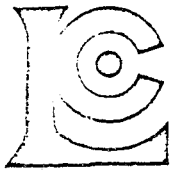
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CERTIFIED BY:

St. Amisani



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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings.
 Vancouver, B. C.

CERTIFICATE NO. 28869
 INVOICE NO. 13323
 RECEIVED Jan. 3/75
 ANALYSED Jan. 23/75

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead*	PPM Silver*	PPB Gold
335	84	2	4	0.2	130
336	108	< 1	8	0.4	175
337	51	< 1	4	0.2	<30
338	22	1	6	0.2	<30
340	700	7	4	1.2	<30
341	540	2	4	1.0	<30
342	242	< 1	4	0.4	<30
343	386	7	8	0.8	<30
344	562	1	38	0.6	<30
345	262	1	2	0.4	<30
346	218	3	6	0.4	<30
347	1640	8	8	1.8	80
348	20	2	2	0.4	<30
349	500	5	8	1.0	30
350	292	1	4	0.4	<30
351	88	< 1	2	1.0	310
352	42	8	10	0.2	130
353	122	2	2	0.2	<30
354	70	1	20	0.2	30
355	104	< 1	8	< 0.2	30
356	424	105	6	0.8	375
357	700	26	14	1.6	190
358	144	6	10	0.4	145
359	54	5	10	0.2	<30
360	13	1	8	< 0.2	<30
361	141	< 1	10	0.8	50
362	54	1	8	0.2	<30
363	24	2	6	0.2	30
364	670	5	4	3.0	50
366	520	5	18	0.4	30
367	44	2	6	0.2	<30
368	22	< 1	4	0.2	<30
369	12	< 1	4	< 0.2	<30
370	26	< 1	8	0.2	<30
371	22	1	4	0.4	<30
372	52	< 1	16	0.6	<30
373	42	1	8	0.4	<30
374	96	1	6	0.6	110
376	84	29	10	1.6	130
376	148	9	4	1.0	160
Std.	72	25	48		

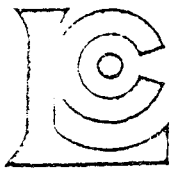
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AREA CODE: 604

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

CERTIFICATE NO. 28870
INVOICE NO. 13339
RECEIVED Jan. 3/75
ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

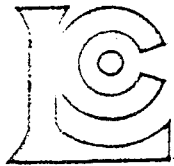
SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
377	1	6	0.4
378	1	12	0.6
379	< 1	20	1.4
380	4	6	0.2
381	15	14	0.8
382	< 1	14	0.4
383	3	18	0.6
384	< 1	4	4.0
385	< 1	6	0.6
386	9	12	0.6
387	1	12	0.6
388	1	8	0.8
389	< 1	8	0.6
390	< 1	8	0.4
391	< 1	10	0.8
392	< 1	16	0.8
393	< 1	58	0.6
394	< 1	4	0.2
395	1	6	0.2
396	2	2	1.2
397	2	10	2.2
398	5	2	1.0
399	2	2	7.0
400	2	2	0.8
401	< 1	12	1.2
402	1	4	1.0
403	23	24	0.8
404	< 1	28	3.0
405	1	16	3.0
406	< 1	16	2.0
407	< 1	16	6.8
409	1	22	1.0
410	2	38	1.2
411	1	22	0.6
412	18	8	3.0
413	2	22	1.0
414	1	18	1.0
415	3	22	17.
416	< 1	6	0.2
417	1	14	0.6
Std.	25	48	11.4

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CERTIFIED BY: *Harry Biddle*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B. C.

CERTIFICATE NO. 28871
 INVOICE NO. 13339
 RECEIVED. Jan. 3/75
 ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
418	< 1	16	1.0
419	1	6	1.2
420	1	4	0.8
421	1	4	1.0
422	< 1	4	1.4
423	1	10	0.4
424	< 1	< 2	0.4
425	< 1	4	2.8
426	1	4	0.4
427	< 1	6	1.4
428	1	38	0.6
429	< 1	2	0.6
430	1	12	0.6
431	1	18	0.4
432	2	4	0.4
433	< 1	14	0.8
434	1	2	0.4
435	2	4	7.4
436	1	< 2	1.2
437	1	12	0.6
438	2	16	1.0
439	1	< 2	0.6
440	2	8	1.2
441	1	10	0.8
443	1	4	0.8
444	< 1	10	0.8
445	< 1	10	0.8
446	< 1	6	0.4
447	< 1	2	0.4
448	< 1	10	0.8
449	< 1	6	0.6
450	2	8	0.4
451	2	2	0.8
452	9	6	1.0
453	2	6	0.8
454	< 1	4	0.8
455	3	8	1.8
456	2	< 2	0.6
457	18	4	3.2
458	< 1	4	0.2
Std.	25	48	11.0

*Corrected



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY: *Hart Bisher*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

CERTIFICATE NO. 28872
INVOICE NO. 13339
RECEIVED Jan. 3/75
ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

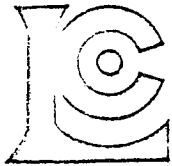
SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
459	< 1	6	< 0.2
460	4	4	0.8
461	12	8	1.4
462	2	8	2.2
463	5	4	0.8
464	6	6	0.6
465	5	8	0.6
466	1	8	1.0
467	1	2	0.4
468	1	10	0.8
469	1	12	1.4
470	< 1	6	0.6
471	< 1	4	0.2
472	1	6	0.4
473	< 1	28	0.8
474	17	8	1.4
475	12	6	0.4
477	2	12	0.4
478	2	6	0.2
479	2	10	0.4
480	6	4	2.0
481	1	10	0.2
482	1	24	2.2
483	17	< 2	0.4
484	< 1	< 2	0.2
485	1	2	0.2
486	< 1	< 2	< 0.2
487	< 1	4	1.0
488	1	10	0.2
489	< 1	4	0.4
490	< 1	6	0.2
491	< 1	8	0.8
492	< 1	2	0.4
493	1	< 2	0.6
494	2	< 2	0.6
495	< 1	4	3.2
496	7	237	5.2
497	70	24	1.6
498	6	12	3.4
499	6	24	0.6
Std.	25	48	11.4

*Corrected



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CERTIFIED BY: *Paul Balle*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
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 TELEPHONE: 985-0648
 AREA CODE: 604

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B.C.

CERTIFICATE NO. 28873
 INVOICE NO. 13339
 RECEIVED Jan. 3/75
 ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

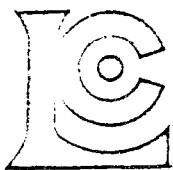
SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
500	12	12	2.4
501	170	2	1.0
502	4	< 2	0.6
504	1	2	0.4
505	4	2	0.6
506	110	2	2.4
507	6	20	1.8
508	3	6	0.8
509	< 1	2	0.2
510	1	4	0.2
511	2	2	0.6
512	2	< 2	0.8
513	1	< 2	0.6
514	3	< 2	1.0
515	< 1	4	0.8
516	1	54	0.6
517	< 1	6	0.6
518	< 1	6	0.6
519	1	4	0.6
520	< 1	212	1.2
521	8	12	1.6
522	3	12	0.6
523	< 1	2	0.4
524	5	4	0.4
525	11	6	0.8
526	2	4	1.2
527	1	14	1.0
528	10	14	1.4
529	7	768	10.8
530	3	44	3.8
531	3	24	1.2
532	4	4	2.4
533	1	14	1.6
534	1	< 2	1.0
535	180	660	36
536	2	6	1.0
537	1	2	1.6
538	3	8	1.6
539	29	270	2.4
540	2	161	4.2
Std.	25	46	11.8

*Corrected



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CERTIFIED BY: *Hart Sidle*



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TELEPHONE: 985-0648
AREA CODE: 604

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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

CERTIFICATE NO. 28874
INVOICE NO. 13352
RECEIVED Jan. 3/75
ANALYSED Jan. 31/75

ATTN:

SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
541	130	466	11.8
542	115	28	1.6
543	11	30	1.6
544	3	74	1.0
545	9	16	2.8
546	38	225	2.2
547	19	30	4.0
548	8	12	2.0
549	1	12	2.4
550	4	212	4.4
551	< 1	280	5.0
552	6	362	9.0
553	< 1	22	2.2
554	1	20	1.6
555	< 1	22	5.8
556	< 1	12	1.0
558	35	6	1.6
559	12	8	1.0
560	36	18	0.4
561	< 1	10	0.2
562	2	6	< 0.2
563	< 1	8	0.2
564	< 1	6	< 0.2
565	< 1	16	< 0.2
566	10	14	1.0
567	9	12	1.2
568	2	6	0.4
569	< 1	8	0.2
570	< 1	12	0.4
571	6	112	1.4
572	165	10	0.2
573	14	10	0.8
576	3	52	0.8
577	< 1	14	0.2
578	2	700	2.0
579	1	22	1.4
580	1	24	1.0
581	1	52	1.0
Std.	25	50	

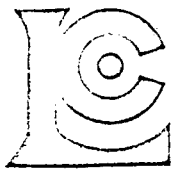
*Corrected



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CANADIAN TESTING
ASSOCIATION

CERTIFIED BY:

E. C. Lomaxini



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

CERTIFICATE NO. 28875
INVOICE NO. 13352
RECEIVED Jan. 3/75
ANALYSED Jan. 31/75

ATTN:

SAMPLE NO. :	PPM Molybdenum	PPM Lead*	PPM Silver*
582	23	30	1.0
583	235	88	4.4
584	12	76	0.6
585	230	106	9.4
586	32	84	2.4
587	6	30	1.0
588	28	46	3.0
589	180	161	4.0
590	340	1387	12.8
591	6	8	1.6
592	3	28	0.8
593	7	8	3.0
594	18	2	1.0
595	17	70	1.8
596	4	4	0.6
597	60	6	1.2
598	5	180	11.8
599	3	96	2.4
600	< 1	100	2.6
602	2	8	0.6
603	< 1	6	0.4
604	35	10	1.4
605	20	6	1.0
606	< 1	14	0.4

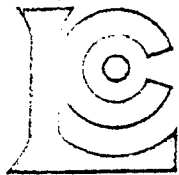
Std.

*Corrected



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CERTIFIED BY: *[Signature]*



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212 BROOKSBANK AVE.
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 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B. C.

CERTIFICATE NO. 28870
 INVOICE NO. 13339
 RECEIVED Jan. 3/75
 ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

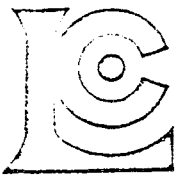
SAMPLE NO. :	PPM Copper	PPB Gold
377	270	235
378	194	130
379	168	80
380	22	<30
381	138	<30
382	42	<30
383	52	<30
384	2440	<30
385	94	<30
386	168	<30
387	106	<30
388	168	<30
389	31	<30
390	20	<30
391	262	<30
392	118	<30
393	38	30
394	31	<30
395	124	<30
396	124	30
397	840	190
398	562	30
399	2160	250
400	189	190
401	76	205
402	292	30
403	92	30
404	134	50
405	51	470
406	34	30
407	58	310
409	64	30
410	114	<30
411	68	<30
412	152	405
413	46	30
414	80	30
415	212	1930
416	62	30
417	62	30
Std.	70	



MEMBER
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CERTIFIED BY:

Hart Bickle



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B.C.

CERTIFICATE NO. 28871
 INVOICE NO. 13339
 RECEIVED Jan. 3/75
 ANALYSED Jan. 29/75

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM	PPB
	Copper	Gold
418	189	50
419	218	< 30
420	680	< 30
421	330	< 30
422	920	< 30
423	100	< 30
424	141	< 30
425	3370	800
426	84	< 30
427	6140	1010
428	136	< 30
429	156	< 30
430	108	< 30
431	134	< 30
432	194	< 30
433	94	< 30
434	424	< 30
435	374	< 30
436	386	< 30
437	80	30
438	74	< 30
439	14	< 30
440	242	< 30
441	28	< 30
443	86	< 30
444	131	< 30
445	88	< 30
446	102	< 30
447	410	< 30
448	78	< 30
449	92	< 30
450	128	80
451	437	< 30
452	700	< 30
453	920	30
454	352	< 30
455	800	130
456	138	< 30
457	2300	175
458	168	< 30
Std.	70	



MEMBER
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 ASSOCIATION

CERTIFIED BY: *Hart Riddle*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 28872
INVOICE NO. 13339
RECEIVED Jan. 3/75
ANALYSED. Jan. 29/75

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B. C.

ATTN: Rock Geo. Project

SAMPLE NO. :	PPM	PPB
	Copper	Gold
459	212	<30
460	1640	190
461	1520	175
462	1600	50
463	173	<30
464	700	30
465	540	30
466	131	1475
467	173	<30
468	136	<30
469	178	<30
470	173	<30
471	138	<30
472	64	<30
473	206	<30
474	1560	30
475	540	<30
477	110	<30
478	64	<30
479	92	<30
480	4290	110
481	400	<30
482	2440	130
483	920	30
484	255	<30
485	183	<30
486	40	30
487	152	<30
488	189	<30
489	110	<30
490	90	<30
491	115	<30
492	126	<30
493	52	30
494	341	<30
495	1600	<30
496	2710	30
497	120	405
498	800	30
499	270	30
Std.	70	



MEMBER
CANADIAN TESTING
ASSOCIATION

CERTIFIED BY: *Hart Biele*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B. C.

CERTIFICATE NO. 28873
 INVOICE NO. 13339
 RECEIVED Jan. 3/75
 ANALYSED Jan. 29/75

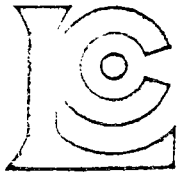
ATTN:

SAMPLE NO. :	PPM Copper	PPB Gold
500	467	145
501	1760	130
502	800	<30
504	122	<30
505	277	<30
506	1720	130
507	1160	235
508	362	<30
509	50	<30
510	183	<30
511	138	<30
512	800	30
513	424	<30
514	700	160
515	163	<30
516	163	<30
517	44	<30
518	98	<30
519	94	<30
520	168	<30
521	1120	1050
522	1160	50
523	60	<30
524	78	<30
525	670	30
526	1080	110
527	374	<30
528	1920	30
529	6560	130
530	1440	<30
531	800	<30
532	1920	80
533	200	110
534	200	<30
535	189	160
536	173	<30
537	424	<30
538	189	30
539	562	<30
540	1280	50
Std.	70	



MEMBER
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 ASSOCIATION

CERTIFIED BY: *Hart Ruhl*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
#2009 - 1177 W. Hastings
Vancouver 8, B.C.

CERTIFICATE NO. 28874
INVOICE NO. 13352
RECEIVED Jan. 3/75
ANALYSED Jan. 31/75

ATTN:

SAMPLE NO. :	PPM Copper	PPB Gold
541	1440	160
542	30	160
543	670	80
544	800	<30
545	242	375
546	800	<30
547	400	3120
548	562	160
549	2000	190
550	1920	30
551	1280	<30
552	700	375
553	1640	<30
554	386	<30
555	4000	80
556	800	<30
558	920	160
559	700	<30
560	183	<30
561	41	<30
562	44	<30
563	41	<30
564	33	<30
565	74	<30
566	1440	<30
567	1400	30
568	28	<30
569	38	<30
570	330	<30
571	34	375
572	352	<30
573	1240	30
576	230	<30
577	28	<30
578	120	30
579	437	190
580	68	190
581	700	80
Std.	62	
*Corrected		



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212 BROOKSBANK AVE.
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CERTIFICATE OF ANALYSIS

TO: Granduc Mines Ltd.,
 #2009 - 1177 W. Hastings
 Vancouver 8, B. C.

CERTIFICATE NO. 28875
 INVOICE NO. 13352
 RECEIVED Jan. 3/75
 ANALYSED Jan. 31/75

ATTN:

SAMPLE NO. :	PPM Copper	PPB Gold
582	212	190
583	30	375
584	173	< 30
585	5600	30
586	452	160
587	242	< 30
588	600	130
589	452	30
590	1040	375
591	277	220
592	62	50
593	386	130
594	645	310
595	1160	< 30
596	108	130
597	540	730
598	3370	250
599	1160	< 30
600	1280	< 30
602	183	< 30
603	42	<30
604	2520	< 30
605	700	< 30
606	60	< 30
Std.	70	



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