



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**

705 WEST 16TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**

3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

2S-0258-RA1

Company: **COLUMBIA GOLD MINES LTD.**  
Project: **SPECTRUM**  
Attn: **WAYNE ROBERTS**

Date: AUG-27-92

Copy 1. COLUMBIA GOLD MINES LTD, VANCOUVER, BC

We hereby certify the following Assay of 15 FIELD CHIP samples  
submitted AUG-17-92 by GEORGE NORMAN.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %	PB %	ZN %
17032	16	0.43	99.0	2.89	.073	3.29	3.21
17033	15	0.42	47.0	1.37	.048	5.54	.04
17036	65	1.78	7.4	.22	.024	.19	.04
17037	81	2.34	86.9	2.53	.075	3.67	2.37
17039	34	0.93	4.0	.12	.028	.08	.06
17040	28	0.77	9.1	.27	.134	.97	.04
17034	18.30	.534	99.0	2.89	.073	3.29	3.21
17035	1.85	.054	47.0	1.37	.048	5.54	.04
17036	1.78	.052	7.4	.22	.024	.19	.04
17042	39.55	1.154	86.9	2.53	.075	3.67	2.37
17043	.71	.021	4.0	.12	.028	.08	.06
17044	.18	.005	9.1	.27	.134	.97	.04
17045	2.83	.083	9.2	.27	.106	.19	.02
17046	12.65	.369	43.4	1.27	.166	2.25	3.41
17047	11.95	.349	60.5	1.76	.125	5.49	5.08

Pass  
Property

Certified by

  
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 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

**Geochemical Analysis Certificate****2S-0258-RG2**

Company: **COLUMBIA GOLD MINES LTD.**  
 Project: **SPECTRUM**  
 Attn: **WAYNE ROBERTS**

Date: **AUG-25-92**

Copy 1. COLUMBIA GOLD MINES LTD, VANCOUVER, BC

We hereby certify the following Geochemical Analysis of 15 FIELD CHIP samples submitted AUG-17-92 by GEORGE NORMAN.

Sample Number	AU-FIRE PPB	CU PPM
17037	44	408
17038	114	57
17039	369	381
17040	363	98
17041	483	586
17048	367	235
17049	1260	11
17050	1630	1830
17501	823	57
17502	73	43
17503	450	3
17504	105	121

*Pass Property*

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**SMITHERS LAB.:**

3178 TATLOW ROAD  
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TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate****2S-0258-RG1**

Company: **COLUMBIA GOLD MINES LTD.**  
Project: **SPECTRUM**  
Attn: **WAYNE ROBERTS**

Date: **AUG-25-92**Copy 1. **COLUMBIA GOLD MINES LTD, VANCOUVER, BC**

We hereby certify the following Geochemical Analysis of 24 FIELD CHIP  
samples submitted AUG-17-92 by GEORGE NORMAN.

Sample Number	AU-FIRE PPB	CU PPM
<i>Hawk</i> 17001	63	111
17003	250	150
17004	46	473
17008	28	345
17011	14	114
17012	6	127
17013	30	173
17014	15	204
17015	9	79
17016	20	334
17017	7	29
17018	11	116
17019	18	380
<i>Spectrum</i> 17020	315	
17021	34	411
17022	81	402
17023	110	748
17024	19	140
17025	1215	19
17026	19	135
17027	23	461
17028	175	553
17029	40	167
17030	51	49

Certified by \_\_\_\_\_

  
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FAX (604) 847-3005

Assay Certificate

2S-0229-RA1

Company: **J.T. THOMAS**  
Project: **MORRIS VEIN**  
Attn: **JIM THOMAS / JOHN BAKER**

Date: **AUG-13-92**

Copy 1. J. T. THOMAS, SMITHERS, B.C.

We hereby certify the following Assay of 3 ROCK samples  
submitted AUG-07-92 by J. THOMAS.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG g/tonne	AG oz/ton	CU %	PB %	ZN %
11540	59.30	1.730	146.8	4.28	.093	14.51	9.26
11541	18.60	.543	108.2	3.16	.466	9.17	8.20
11542	51.20	1.493	104.9	3.06	.118	8.22	.84

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