



**MINERAL ENVIRONMENTS LABORATORIES LTD.**

Jolly 822

823319

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

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

Certificate of Geochem

Company: MINNOVA INC.  
Project: 236  
Attention: I.D. PIRIE/G. EVANS

File: 8-1112/P2  
Date: AUGUST 5/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	FB PPM	ZN PPM	AG PPM	AU-WET PPB
BCD10105 ✓	70	1580	172	2.7	3000
BCD10106 ✓	140	78	1740	2.6	690
BCD10107 ✓	32	20	75	1.0	5
BCD10108 ✓	19	3	25	0.7	5
BCD10112	10	2	26	0.6	5
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BCD10114	22	6	50	0.6	5
BCD10115	15	2	25	0.4	10
BCD10117	1780	25000	42500	75.0	80000
BCD10120	25	17	54	0.6	20
BCD10123	63	135	152	1.1	80
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BCD10127	2100	15	160	0.5	15
BCD10128	13	2	17	0.6	5

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

MIN-EN LABORATORIES LTD.

(VALUES IN PPM )	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCS10141	1.1	26	425	31	36	1	65	5
BCS10146	.6	7	255	9	26	4	73	10
BCS10150	1.9	34	34	11	13	7	33	5
BCS10151	2.4	46	34	16	11	10	16	10
BCS10153	2.1	32	54	12	29	6	41	10
BCS10154	.9	10	49	6	21	2	60	5
BCS10155	.5	10	48	32	19	3	62	5
BCS10157	1.5	27	234	9	21	1	87	5
BCS10526	.2	39	12	6	17	7	98	5
BCS10531	2.2	48	226	38	16	9	26	15
BCS10536	.4	2	49	45	11	1	56	10
BCS10537	.8	31	34	7	18	1	94	5
BCS10538	2.2	10	33	25	18	1	74	5
BCS10542	2.1	39	192	72	15	7	53	5
BCS10546	1.1	21	155	69	15	2	61	10
BCS10547	.3	8	77	34	15	1	55	5
BCS10548	1.5	35	20	6	12	1	9	5
BCS10549	.5	31	26	5	8	3	42	10
BCS10550	1.2	12	62	5	20	3	68	5
BCS10551	.5	43	17	5	7	7	66	5

PROJECT NO: 236

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-1222L/P1

ATTENTION: G.EVANS/I.PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: AUGUST 20, 1988

(VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SI02	SR	TIO2
BCS10141	17.13	.367	5.27	7.79	4.16	3.96	.13	3.91	.90	48.22	.26	.97
BCS10146	14.98	.355	7.68	6.40	4.10	5.90	.13	1.89	.97	47.20	.25	.91
BCS10150	10.57	.015	2.01	2.84	.59	2.05	.05	3.04	.11	74.11	.03	.43
BCS10151	9.38	.014	.41	.13	.36	.64	.01	3.58	.09	81.20	.02	.47
BCS10153	11.40	.012	9.17	12.79	.32	11.98	.19	1.56	.33	45.40	.02	1.54
BCS10154	15.36	.022	5.43	13.17	.56	3.36	.33	2.84	.23	50.61	.03	1.34
BCS10155	16.70	.021	4.20	9.89	.61	4.19	.21	4.08	.14	54.33	.02	.65
BCS10157	15.94	.049	8.76	13.61	2.10	3.98	.16	2.36	.49	42.77	.06	2.96
BCS10526	15.92	.059	4.89	11.51	1.31	4.64	.15	3.45	.38	48.17	.05	2.10
BCS10531	5.19	.236	.19	2.87	1.39	.66	.04	.25	.11	85.78	.01	.32
BCS10536	11.31	.099	7.44	5.46	.85	2.92	.13	2.70	.29	57.60	.03	1.53
BCS10537	16.05	.052	4.75	10.74	1.31	5.01	.23	3.19	.30	49.21	.04	1.95
BCS10538	12.64	.086	8.60	11.83	3.37	5.96	.23	.14	.38	47.50	.05	2.08
BCS10542	4.49	.243	.70	2.51	1.25	.95	.07	.02	.18	85.94	.01	.22
BCS10546	16.23	.228	4.75	4.89	2.02	2.11	.16	5.61	.24	56.04	.05	.62
BCS10547	17.63	.120	5.45	5.69	1.68	2.35	.17	5.39	.21	53.54	.07	.67
BCS10548	1.24	.005	5.01	7.74	.11	25.01	.11	.03	.09	46.63	.01	.03
BCS10549	19.15	.023	.37	9.00	1.96	11.05	.07	3.01	.21	42.12	.01	.86
BCS10550	15.22	.076	3.52	4.06	2.26	1.32	.18	3.26	.13	62.38	.04	.54
BCS10551	16.72	.014	6.30	8.51	.16	8.27	.16	2.52	.08	47.62	.02	.28

(VALUES IN % )	ZR	S	TOT(%)
BCS10141	.019	.08	93.18
BCS10146	.016	.03	90.80
BCS10150	.005	.01	95.85
BCS10151	.012	.02	96.33
BCS10153	.005	.02	94.73
BCS10154	.005	1.60	94.88
BCS10155	.005	.09	95.13
BCS10157	.012	.01	93.26
BCS10526	.005	.01	92.65
BCS10531	.005	.15	97.19
BCS10536	.005	1.00	91.37
BCS10537	.007	.02	92.85
BCS10538	.005	.03	92.88
BCS10542	.005	.02	96.60
BCS10546	.005	.71	93.65
BCS10547	.005	.03	93.01
BCS10548	.005	4.92	90.93
BCS10549	.005	4.25	92.09
BCS10550	.005	.56	93.53
BCS10551	.005	.04	90.68

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

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PROJECT NO: 236

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1112/P1

ATTENTION: I. PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEDCHEM \*

DATE: AUGUST 12, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD10101	2.5	17	98	40	25	5	46	5
BCD10102	3.7	57	189	49	23	9	42	15
BCD10103	3.9	61	263	35	20	9	30	5
BCD10104	3.8	60	416	35	24	9	33	5
BCD10109	2.8	38	121	44	23	5	58	10
BCD10110	1.3	6	11	99	10	1	21	5
BCD10111	2.5	66	7	7	12	1	39	5
BCD10113	1.1	20	14	13	18	2	21	15
BCD10116	2.6	24	14	8	20	6	40	10
BCD10118	.7	657	10	34	13	2	29	5
BCD10119	.9	2	10	41	7	1	36	10
BCD10121	1.2	22	27	8	14	1	24	5
BCD10122	.4	36	9	5	13	1	27	5
BCD10124	1.4	7	15	66	14	1	33	5
BCD10125	1.2	12	23	37	19	1	44	125
BCD10126	.1	34	13	67	6	1	43	5
BCD10129	.8	32	13	5	8	1	28	5
BCD10130	1.2	12	106	22	7	4	3	30
BCD10131	.2	207	3	19	9	2	33	5
BCD10132	.3	17	5	5	10	1	16	5
BCD10133	1.1	215	11	43	12	1	39	5
BCD10134	.2	17	26	7	36	1	94	25
BCD10135	1.7	19	3	45	11	1	23	5

PROJECT NO: 236

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1112L/P1

ATTENTION: I. PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: AUGUST 11, 1988

(VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MND2	NA2O	P2O5	SI02	SR	TIO2
BCD10101	17.60	.115	5.42	6.34	2.50	2.20	.19	4.42	.26	53.10	.06	.65
BCD10102	4.35	.145	.54	2.66	1.02	.92	.06	.25	.22	85.92	.04	.20
BCD10103	7.03	.228	.02	3.01	1.64	1.24	.04	.54	.25	82.63	.04	.37
BCD10104	4.47	.309	.03	2.55	1.13	.79	.04	.07	.24	87.19	.02	.27
BCD10109	11.43	.124	1.19	6.45	2.01	2.18	.06	1.35	.23	69.18	.04	.90
BCD10110	17.77	.008	9.47	8.96	.12	5.62	.17	2.73	.07	47.98	.02	.50
BCD10111	1.08	.005	1.14	9.52	.01	35.18	.18	.01	.13	42.51	.01	.01
BCD10113	17.38	.016	13.98	8.13	.80	5.51	.23	1.40	.09	41.17	.03	.38
BCD10116	13.23	.019	4.00	5.16	1.61	1.02	.13	1.78	.13	66.35	.03	.30
BCD10118	13.71	.014	16.34	6.63	.33	5.41	.23	1.76	.10	42.44	.02	.25
BCD10119	15.49	.014	7.62	7.04	.72	6.10	.16	2.28	.14	50.63	.04	.25
BCD10121	14.00	.012	8.60	7.57	.03	8.12	.18	2.07	.13	49.62	.03	.20
BCD10122	15.48	.011	9.60	7.54	.50	6.94	.19	1.92	.12	46.54	.03	.21
BCD10124	16.38	.018	6.25	7.23	1.32	3.87	.14	2.48	.13	53.02	.04	.37
BCD10125	16.72	.038	6.19	9.13	1.61	4.67	.18	2.16	.18	49.60	.05	.44
BCD10126	17.42	.019	9.89	8.38	.68	6.32	.21	2.67	.15	43.10	.04	.29
BCD10129	16.52	.029	9.03	7.42	1.83	6.12	.17	.68	.11	47.43	.03	.43
BCD10130	2.75	.027	25.11	3.61	.46	11.62	.34	.01	.16	37.73	.04	.25
BCD10131	10.49	.005	8.94	7.59	.06	11.06	.24	.01	.14	48.25	.03	.13
BCD10132	16.85	.011	6.98	7.27	.53	4.22	.12	4.26	.09	48.85	.04	.49
BCD10133	12.93	.021	8.88	7.30	1.86	6.44	.20	.48	.13	50.02	.03	.24
BCD10134	9.12	.019	12.48	6.82	1.66	8.04	.36	.05	.10	47.29	.03	.17
BCD10135	12.55	.005	6.44	7.11	.01	4.12	.14	2.40	.11	58.56	.03	.27

COMPANY: MINNOVA INC.

PROJECT NO: 236

ATTENTION: I. PIRIE

MIN-EN LABS ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

(ACT:F26) PAGE 2 OF 2

FILE NO: 8-1112L/P1

\* TYPE ROCK GEOCHEM \* DATE: AUGUST 11, 1988

(VALUES IN % )	ZR	S	TOT(%)
BCD10101	.016	.06	92.95
BCD10102	.006	.04	96.36
BCD10103	.008	.08	97.11
BCD10104	.005	.09	97.21
BCD10109	.012	.01	95.17
BCD10110	.005	.03	93.45
BCD10111	.005	.02	89.76
BCD10113	.005	.36	89.48
BCD10116	.005	.02	93.77
BCD10118	.005	.02	87.24
BCD10119	.005	.01	90.51
BCD10121	.005	.04	90.59
BCD10122	.005	.05	89.15
BCD10124	.005	.08	91.33
BCD10125	.008	.54	91.51
BCD10126	.005	.01	89.18
BCD10129	.005	.01	89.82
BCD10130	.005	.04	82.16
BCD10131	.006	.02	86.96
BCD10132	.005	.01	89.73
BCD10133	.005	.01	88.54
BCD10134	.005	.59	86.74
BCD10135	.005	.03	91.77







**MINERAL  
• ENVIRONMENTS  
LABORATORIES LTD.**

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CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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TELEPHONE: (705) 264-9996

***Certificate of Geochem***

Company: MINNOVA INC.  
Project: 236  
Attention: G. EVANS/I.D. PIRIE

File: 8-1222/P2  
Date: AUG 18/88  
Type: ROCK GEOCHEM

*We hereby certify* the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB
BCS10136	8	23	15	.9	10
BCS10137	17	42	19	1.6	10
BCS10138	105	16	82	1.2	5
BCS10139	91	8	31	.8	5
BCS10140	83	5	11	.8	5
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BCS10142	21	2	19	.5	5
BCS10143	57	6	19	.6	10
BCS10144	10	14	78	.8	5
BCS10145	56	22	49	1.2	5
BCS10147	1110	560	22100	44.7	10
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BCS10148	1350	285	35700	23.4	40
BCS10149	1480	9100	26250	39.2	20
BCS10152	18	38	140	.7	5
BCS10156	16	67	119	.8	10
BCS10527	46	54	82	2.9	15
-----					
BCS10528	22	32	124	1.5	5
BCS10529	40	12	29	.6	5
BCS10530	17	9	29	.4	5
BCS10532	123	27	240	.9	100
BCS10533	35	28	54	.8	10
-----					
BCS10534	10	37	39	.5	10
BCS10535	10	13	32	.6	5
BCS10539	33	21	75	.9	5
BCS10540	17	12	9	.4	5
BCS10541	61	13	81	.8	5
-----					
BCS10543	5	14	9	.5	10
BCS10544	5	4	8	.4	5
BCS10545	34	9	25	.6	50

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

MIN-EN LABORATORIES LTD.



\*\*\*\* Certificate of GEOCHEM \*\*\*\*

Company: MINNOVA INC.  
Project: 336  
Attention: G EVANS

File: 8-1721/P1  
Date: OCT 8/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPB
BCS 101 58	9	12	48	0.6	5
BCS 101 59	87	14	51	0.9	5
BCS 101 60	15	7	32	0.5	5
BCS 101 61	7	3	13	0.4	5
BCS 101 63	41	289	53	0.9	5
BCS 101 64	52	46	24	0.6	5
BCS 101 68	858	2590	7910	21.0	11000
BCS 101 69	39	163	346	1.5	120
BCS 101 70	119	169	79	2.9	430
BCS 101 71	23	34	68	1.8	260
BCS 101 72	36	20	44	1.0	35
BCS 101 76	1930	9750	6890	20.5	10500
BCS 101 77	326	1180	1810	7.1	3300
BCS 101 79	35	174	89	0.5	80
BCS 101 83	149	26	31	1.3	25

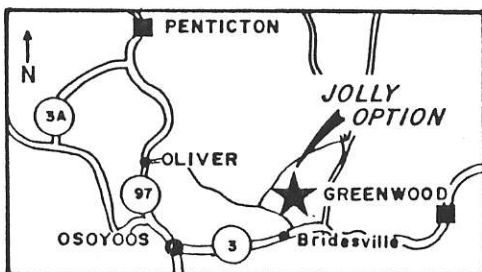
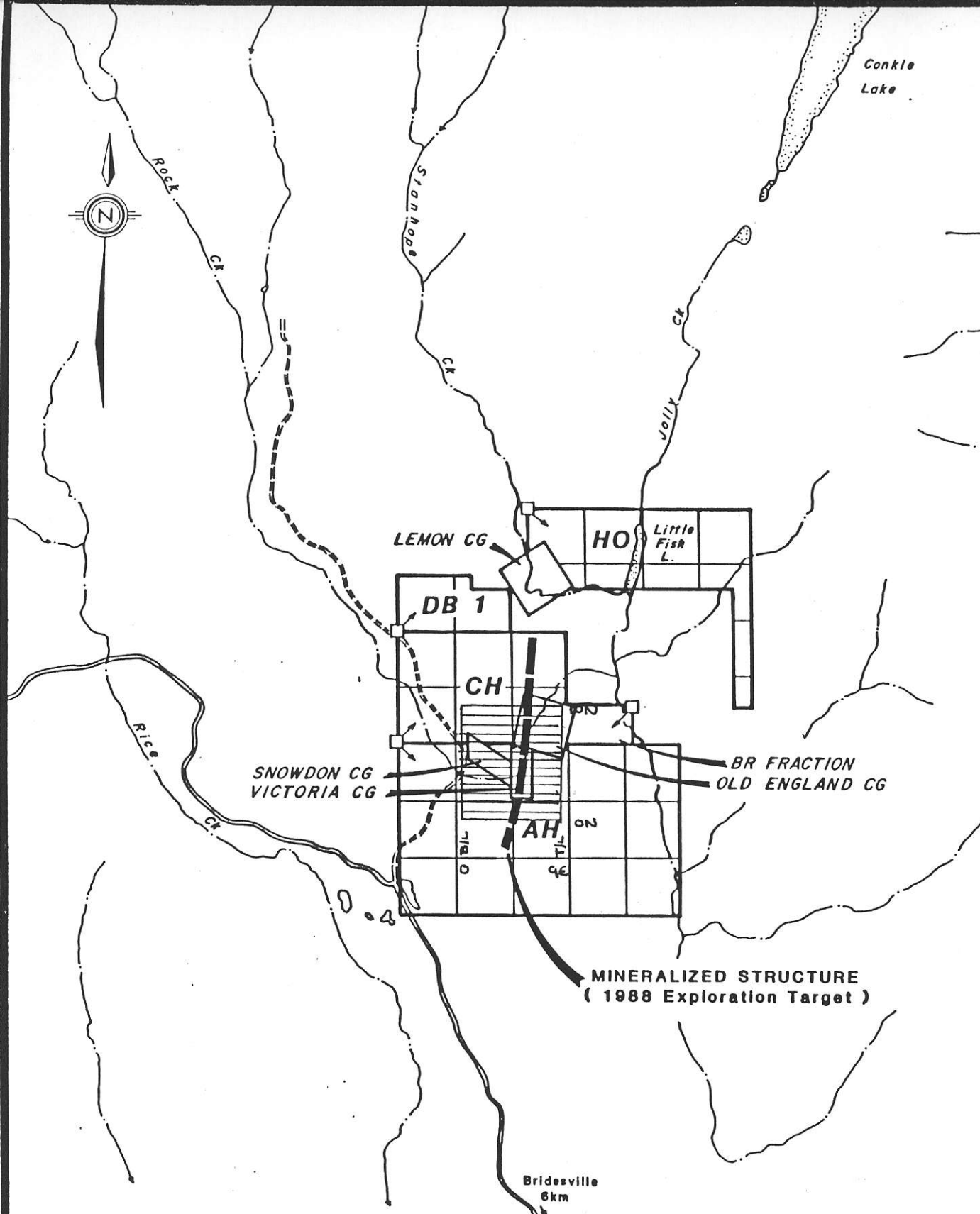
\*\*\*\* Certificate of ASSAY \*\*\*\*

Company: MINNOVA INC.  
Project: 336  
Attention: G. EVANS

File: 8-1721/P1  
Date: OCT 9/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	
BCS 10168	30.80	0.898	} 30cm QU in Grn Mica 40cm ADIT 30cm
BCS 10176	18.85	0.550	
BCS 10177	7.63	0.223	



— 1988 Proposed Grid

**JOLLY OPTION**  
**CLAIM CONFIGURATION**  
**NTS 82E/3**



OCT. 1987

**MINNOVA**