



**MINNOVA**  
**ENVIRONMENTS**  
**LABORATORIES LTD.**

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

825523

Gil-

82E/4

**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

*Analytical Report*

Company: MINNOVA INC.  
 Project: 234  
 Attention: I. PIRIE/G. EVANS

File: 8-1427  
 Date: OCT 11/88  
 Type: PULP ASSAY

Date Samples Received : OCT 4/88  
 Samples Submitted by : G. EVANS

Report on ..... Geochem Samples  
 .....  
 .....74 PULPS..... Assay Samples  
 .....

Copies sent to:

1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.
- 3.

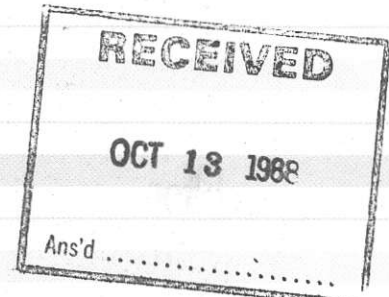
Samples: Sieved to mesh ..... Ground to mesh .....

Prepared samples stored: .....X..... discarded: .....  
 rejects stored: ..... discarded: .....

Methods of analysis:

AU - WET.A.A.  
 W03 - COLORIMETRIC.

Remarks





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*Certificate of ASSAY*

Company: MINNOVA INC.  
Project: 234  
Attention: I. PIRIE/G. EVANS

File: 8-1427/P1  
Date: OCT 11/88  
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB	WO3 %
BCS 12301	5	.001
BCS 12302	5	.022
BCS 12304	5	.001
BCS 12305	5	.004
BCS 12306	5	.001
-----		
BCS 12314	5	.001
BCS 12315	10	.004
BCS 12322	5	.001
BCS 12324	5	.002
BCS 12330	5	.001
-----		
BCS 12333	5	.158
BCS 12334	10	.001
BCS 12336	5	.001
BCS 12349	40	.001
BCS 12353	10	.001
-----		
BCS 12355	5	.001
BCS 12356	20	.001
BCS 12357	10	.001
BCS 12366	5	.004
BCS 12369	5	.001
-----		
BCS 12371	10	.001

**RECEIVED**  
  
OCT 13 1988  
  
Ans'd .....

Certified by *[Signature]*  
MIN-EN LABORATORIES LTD.



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Certificate of ASSAY

Company: MINNOVA INC.  
Project: 234  
Attention: I. PIRIE/G. EVANS

File: 8-1427/P2  
Date: OCT 11/88  
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB	WD3 %
BCS 12303	5	.017
BCS 12307	5	.002
BCS 12308	5	.001
BCS 12309	10	.057
BCS 12310	5	.008
-----		
BCS 12311	5	.002
BCS 12312	5	.001
BCS 12313	5	.007
BCS 12316	10	.032
BCS 12317	5	.009
-----		
BCS 12318	5	.004
BCS 12319	5	.005
BCS 12320	5	.002
BCS 12321	10	.006
BCS 12323	15	.001
-----		
BCS 12325	15	.004
BCS 12326	5	.019
BCS 12327	5	.001
BCS 12328	105	.001
BCS 12329	85	.001
-----		
BCS 12331	5	.001
BCS 12332	5	.047
BCS 12335	10	.002
BCS 12337	5	.002
BCS 12338	15	.429
-----		
BCS 12339	25	.485
BCS 12340	5	.022
BCS 12341	5	.020
BCS 12342	5	.001

Certified by

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*Certificate of ASSAY*

Company: MINNOVA INC.  
Project: 234  
Attention: I. PIRIE/G. EVANS

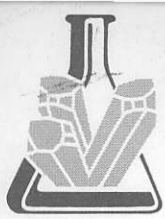
File: 8-1427/P3  
Date: OCT 11/88  
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB	WO3 %
BCS 12343	5	.002
BCS 12344	5	.001
BCS 12345	5	.001
BCS 12346	5	.001
BCS 12347	5	.016
-----		
BCS 12348	5	.003
BCS 12350	5	.001
BCS 12351	10	.001
BCS 12352	5	.001
BCS 12354	5	.001
-----		
BCS 12358	5	.001
BCS 12359	5	.001
BCS 12360	5	.001
BCS 12361	5	.001
BCS 12362	5	.001
-----		
BCS 12363	155	.001
BCS 12364	20	.001
BCS 12365	5	.001
BCS 12367	5	.001
BCS 12368	5	.001
-----		
BCS 12370	10	.001
BCS 12372	10	.001
BCS 12373	5	.001
BCS 12374	5	.006

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

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TELEPHONE: (705) 264-9996

Analytical Report

Company: MINNOVA INC.  
Project: 234  
Attention: I.D. PIRIE/G. EVANS

File: 8-1427  
Date: SEPT 14/88  
Type: ROCK GEOCHEM

Date Samples Received : AUG 28/88  
Samples Submitted by : G. EVANS

Report on ..... 74 ROCKS..... Geochem Samples  
..... Assay Samples

- Copies sent to:
1. MINNOVA INC., VANCOUVER, B.C.
  2. MINNOVA INC., PENICTON, B.C.
  - 3.

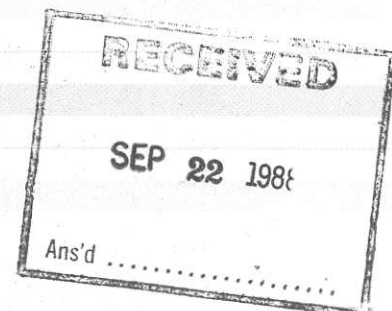
Samples: Sieved to mesh ..... Ground to mesh ..... -150.....

Prepared samples stored: ..... X..... discarded: .....  
rejects stored: ..... discarded: ..... X.....

Methods of analysis:

MINNOVA STANDARD LITHOGEOCHEMICAL PACKAGE  
8 ELEMENT TRACE ICP  
AU WET GEOCHEM

Remarks



PROJECT NO: 234

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

FILE NO: 8-1427L/P1

ATTENTION: I. PIRIE/G. EVANS

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

# TYPE ROCK GEOCHEM # DATE: SEPT 14, 1988

(VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SIO2	SR	TIO2
BCS12301	13.52	.243	3.90	5.90	1.74	2.12	.15	2.00	.16	65.44	.03	.75
BCS12302	16.32	.105	3.08	4.13	3.67	.87	.10	3.35	.18	64.11	.04	.41
BCS12304	3.11	.102	.67	2.51	.87	1.59	.05	.14	.08	87.35	.01	.18
BCS12305	11.30	.159	1.59	4.87	1.97	1.47	.16	2.15	.15	71.99	.02	.55
BCS12306	15.04	.088	.01	1.22	2.65	.25	.05	3.82	.07	74.37	.02	.11
BCS12314	17.32	.136	4.43	3.27	2.25	1.61	.11	3.97	.09	63.24	.04	.32
BCS12315	14.01	.090	2.02	2.91	3.18	1.00	.08	3.15	.09	70.09	.02	.30
BCS12322	10.09	.052	3.75	10.42	1.73	4.70	.17	1.57	.13	61.89	.01	.75
BCS12324	9.12	.247	2.53	4.43	1.87	2.12	.14	1.52	.12	73.58	.02	.50
BCS12330	18.75	.121	11.43	10.34	.80	3.51	.28	2.49	.19	45.19	.03	.84
BCS12333	11.81	.102	15.11	9.98	1.65	5.77	.56	1.41	.10	47.00	.01	.32
BCS12334	17.05	.084	6.55	8.52	2.00	3.39	.18	2.79	.33	51.62	.05	.87
BCS12336	17.17	.102	5.58	6.00	2.12	2.70	.18	3.03	.18	57.65	.02	.51
BCS12349	17.48	.188	3.02	3.04	3.14	.95	.08	2.51	.10	64.00	.03	.32
BCS12353	17.17	.113	1.80	1.59	2.26	.32	.10	4.94	.06	67.59	.06	.15
BCS12355	16.85	.106	4.06	4.21	2.05	1.58	.18	3.70	.17	62.19	.06	.41
BCS12356	15.73	.028	7.20	12.86	.61	7.81	.22	3.05	.13	45.82	.02	.66
BCS12357	16.76	.107	4.05	4.12	1.88	1.47	.15	3.88	.15	62.81	.05	.39
BCS12366	15.02	.110	.05	1.24	2.46	.33	.02	3.89	.08	74.28	.01	.11
BCS12369	17.20	.084	3.41	3.39	2.09	1.63	.11	4.26	.13	63.37	.05	.32
BCS12371	18.20	.140	3.81	3.45	3.31	.91	.10	4.10	.17	61.74	.09	.41

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**SEP 22 1988**

Ans'd .....

PROJECT NO: 234

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

FILE NO: 8-1427L/P1

ATTENTION: I.PIRIE/G.EVANS

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

# TYPE ROCK GEOCHEM #

DATE: SEPT 14, 1988

(VALUES IN % )	ZR	S	TOT(%)
BCS12301	.009	.04	96.01
BCS12302	.008	.20	96.57
BCS12304	.005	.06	96.70
BCS12305	.005	.27	96.67
BCS12306	.005	.03	97.73
BCS12314	.006	.01	96.81
BCS12315	.005	.03	96.99
BCS12322	.005	.08	95.34
BCS12324	.007	.04	96.23
BCS12330	.005	.97	94.94
BCS12333	.005	.05	93.86
BCS12334	.010	1.79	95.23
BCS12336	.005	.10	95.36
BCS12349	.005	.43	95.29
BCS12353	.008	.02	96.19
BCS12355	.008	.01	95.57
BCS12356	.005	.01	94.14
BCS12357	.007	.02	95.86
BCS12366	.005	.01	97.62
BCS12369	.006	.01	96.05
BCS12371	.011	.75	97.17

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCS12301	1.2	117	379	56	14	2	37	5
BCS12302	1.6	40	89	44	21	2	34	5
BCS12304	2.3	39	559	70	22	1	32	5
BCS12305	.8	12	232	81	16	2	42	5
BCS12306	.8	26	95	11	15	1	26	5
BCS12314	1.5	22	87	69	14	1	24	5
BCS12315	1.4	15	171	11	16	1	25	5
BCS12322	1.0	14	14	42	12	3	45	5
BCS12324	1.3	22	316	19	12	1	26	5
BCS12330	1.6	13	132	224	14	3	31	10
BCS12333	.3	1	102	40	18	17	58	5
BCS12334	1.6	1	49	190	12	2	30	5
BCS12336	1.9	12	90	174	13	1	40	5
BCS12349	1.1	334	191	152	19	1	41	60
BCS12353	.9	19	142	22	12	1	16	10
BCS12355	.8	4	64	5	13	1	54	5
BCS12356	.7	43	26	51	10	1	54	5
BCS12357	.9	9	78	4	16	2	46	5
BCS12366	1.1	19	130	10	11	2	20	5
BCS12369	1.1	20	32	15	16	1	60	5
BCS12371	1.5	16	33	47	11	1	10	5
BCS12303	1.8	16	189	564	8	5	38	5
BCS12307	.9	11	277	40	10	5	54	5
BCS12308	2.2	11	110	66	11	1	24	5
BCS12309	.1	20	112	1278	14	5	41	5
BCS12310	5.0	21	80	1498	9	1	32	5
BCS12311	1.2	13	175	634	10	4	42	5
BCS12312	.4	19	198	213	8	1	27	5
BCS12313	1.0	6	446	66	7	2	30	5
BCS12316	.9	17	248	181	10	2	58	5
BCS12317	1.5	12	98	34	10	1	26	10
BCS12318	5.0	8	105	1301	13	4	42	5
BCS12319	1.5	1	71	20	10	1	25	5
BCS12320	1.1	19	133	29	12	3	34	5
BCS12321	1.8	20	133	25	12	1	39	5
BCS12323	.1	7	181	123	7	2	49	20
BCS12325	31.5	13	14	6241	8	2	24	30
BCS12326	.5	10	69	440	14	6	35	5
BCS12327	.4	38	651	65	16	5	37	5
BCS12328	1.3	6	46	351	14	1	26	120
BCS12329	1.0	17	108	88	8	1	13	130
BCS12331	.3	1	166	57	11	2	44	5
BCS12332	.3	10	46	33	13	3	21	5
BCS12335	1.1	16	141	327	12	2	54	5
BCS12337	1.5	31	17	28	11	1	15	5
BCS12338	8.1	14	4	1221	293	2	101	25
BCS12339	32.8	12	9	697	1008	1	1114	30
BCS12340	.2	16	9	476	16	2	40	5
BCS12341	1.1	19	164	44	14	1	37	5
BCS12342	1.4	10	63	57	10	2	22	5



PROJECT NO: 234

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

FILE NO: 8-1427/P3

ATTENTION: I.PIRIE/G.EVANS

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

\* TYPE ROCK GEOCHEM \*

DATE: SEPT 14, 1988

(VALUES IN PPM)	AG	AS	BI	CU	PB	SB	ZN	W	AU-PPB
BCS12343	.3	12	6	142	11	5	46	2	5
BCS12344	.3	9	6	122	11	1	50	3	5
BCS12345	.4	14	5	216	9	1	34	7	10
BCS12346	1.5	39	4	43	11	2	13	10	5
BCS12347	1.9	15	4	499	12	1	38	47	15
BCS12348	1.9	25	4	159	11	1	15	18	5
BCS12350	.5	45	7	264	19	7	51	4	5
BCS12351	.4	15	1	18	14	6	23	4	5
BCS12352	.3	10	1	55	17	3	48	1	5
BCS12354	.2	2	4	7	9	1	36	1	10
BCS12358	.3	15	4	78	12	4	48	2	5
BCS12359	.9	37	28	270	10	4	79	1	5
BCS12360	1.0	7	11	116	15	1	36	8	15
BCS12361	.3	20	5	91	10	1	46	5	5
BCS12362	.4	10	6	58	8	2	30	9	5
BCS12363	1.4	4	61	49	9	1	19	11	160
BCS12364	.8	3	13	180	8	2	32	11	30
BCS12365	1.7	11	31	181	17	1	34	1	5
BCS12367	.5	20	8	37	13	1	35	4	5
BCS12368	2.0	21	19	46	11	5	31	1	10
BCS12370	1.3	12	8	83	10	1	20	1	5
BCS12372	.2	21	7	179	15	2	37	1	5
BCS12373	.3	35	5	172	16	1	36	3	5
BCS12374	1.6	39	11	44	20	4	15	35	10