



# Chemex Labs Ltd.

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

To: MINNOVA INC.  
3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

## 820956

Page Number : 1  
Total Pages : 1  
Certificate Date: 24-SEP-92  
Invoice No. : I9221560  
P.O. Number :  
Account : BBX

Project : 663  
Comments: ATTN: COLIN BURGE

*Seneca 0924/05*

### CERTIFICATE OF ANALYSIS

### A9221560

| SAMPLE | PREP CODE |     | Au FA oz/T | Ag oz/T | Cu % | Pb % | Zn % |  |  |  |  |  |
|--------|-----------|-----|------------|---------|------|------|------|--|--|--|--|--|
| 36265  | 214       | 227 | 0.008      | 0.13    | 0.12 | 1.13 | 3.11 |  |  |  |  |  |

SEP 25 1992  
BBX

CERTIFICATION: *Frank Vank*



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212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9221560

Comments: ATTN: COLIN BURGE

**CERTIFICATE**

**A9221560**

MINNOVA INC.

Project: 663  
P.O. #:

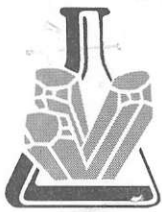
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 24-SEP-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     |
|-------------|----------------|---------------------------------|
| 214         | 1              | Rcvd as pulp; mesh size checked |
| 227         | 1              | Rolling charge                  |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                       | METHOD         | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|-----------------------------------|----------------|-----------------|-------------|
| 396         | 1              | Au oz/T: 1/2 assay ton            | FA-GRAVIMETRIC | 0.003           | 20.000      |
| 385         | 1              | Ag oz/T: Reverse Aqua-Regia dig'n | AAS            | 0.01            | 20          |
| 301         | 1              | Cu %: Reverse Aqua-Regia digest   | AAS            | 0.01            | 100         |
| 312         | 1              | Pb %: Reverse Aqua-Regia digest   | AAS            | 0.01            | 100.0       |
| 316         | 1              | Zn %: Reverse Aqua-Regia digest   | AAS            | 0.01            | 100.0       |



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

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

**VANCOUVER OFFICE:**

705 WEST 15TH 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

*Geochemical Analysis Certificate*

2V-0581-RG1

Company: MINNOVA INC.  
Project: 663 SENECA  
Attn: COLIN BURGE

**JUL 14 1992**

Date: JUL-10-92

Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 17 CORE samples submitted JUL-02-92 by C. BURGE

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42134         | 576          |
| 42135         | 614          |
| 42136         | 555          |
| 42137         | 152          |
| 42138         | 371          |
| 42139         | 347          |
| 42140         | 2810         |
| 42141         | 462          |
| 42142         | 52           |
| 42143         | 325          |
| 42144         | 75           |
| 42145         | 447          |
| 42146         | 190          |
| 42147         | 211          |
| 42148         | 406          |
| 42149         | 396          |
| 42150         | 41           |

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

Geochemical Analysis Certificate

2V-0581-RG2

Company: MINNOVA INC.  
Project: 663 SENECA  
Attn: COLIN BURGE

Date: JUL-10-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 3 CORE samples submitted JUL-02-92 by C. BURGE.

| Sample Number | *AU-FIRE<br>PPB | BA-TOTAL<br>PPM | AG<br>PPM | CU<br>PPM | PB<br>PPM | ZN<br>PPM |
|---------------|-----------------|-----------------|-----------|-----------|-----------|-----------|
| 36264         | 80              | 2070            | 1.5       | 104       | 33        | 1300      |
| 36265         | 125             | 32500           | 5.3       | 1150      | >10000    | >10000    |
| 36266         | 12              | 1350            | 1.0       | 19        | 72        | 173       |

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To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

Project : #663 SENECA  
Comments:

Page Number :1  
Total Pages :1  
Certificate Date: 09-JUL-92  
Invoice No. : I9216992  
P.O. Number :  
Account : BBX

## CERTIFICATE OF ANALYSIS

A9216992

| SAMPLE | PREP CODE |     | Au FA | Ag FA | Cu   | Pb   | Zn   |  |  |  |  |  |
|--------|-----------|-----|-------|-------|------|------|------|--|--|--|--|--|
|        |           |     | oz/T  | oz/T  | %    | %    | %    |  |  |  |  |  |
| 36267  | 208       | 274 | 0.016 | 0.43  | 0.04 | 0.22 | 0.56 |  |  |  |  |  |
| 36268  | 208       | 274 | 0.030 | 0.70  | 0.09 | 0.20 | 1.84 |  |  |  |  |  |

CERTIFICATION:

*W. Sanfrancesini*



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



**Geochemical Analysis Certificate** 2V-0516-RG1

Company: **MINNOVA INC.**  
Project: 663 SENECA  
Attn: SHAWN McCALLUM

Date: JUN-29-92

Copy 1, MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 19 CORE samples submitted JUN-16-92 by S. McCALLUM.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42115         | 464          |
| 42116         | 100          |
| 42117         | 763          |
| 42118         | 211          |
| 42119         | 712          |
| 42120         | 642          |
| 42121         | 239          |
| 42122         | 337          |
| 42123         | 432          |
| 42124         | 1416         |
| 42125         | 1850         |
| 42126         | 859          |
| 42127         | 79           |
| 42128         | 28           |
| 42129         | 3            |
| 42130         | 164          |
| 42131         | 237          |
| 42132         | 24           |
| 42133         | 42           |

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**SMITHERS LAB.:**  
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TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0516-RG2

Company: MINNOVA INC.  
Project: 663 SENECA  
Attn: SHAWN McCALLUM

Date: JUN-29-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 1 CORE samples submitted JUN-16-92 by S. McCALLUM.

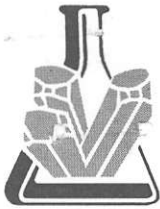
| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 36262         | 446          |

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

Geochemical Analysis Certificate

2V-0480-RG1

Company: MINNOVA INC.  
Project: #663 SENECA  
Attn: COLIN BURGE

RECEIVED

Date: JUN-26-92

Copy 1. MINNOVA INC., VANCOUVER, B.C.

JUL 2 1992

We hereby certify the following Geochemical Analysis of 9 CORE samples submitted JUN-08-92 by C. BURGE.

Sample  
Number

Ans'd .....  
RA-TOTAL

PPM

|       |     |
|-------|-----|
| 42106 | 217 |
| 42107 | 783 |
| 42108 | 462 |
| 42109 | 74  |
| 42110 | 37  |

|       |     |
|-------|-----|
| 42111 | 743 |
| 42112 | 369 |
| 42113 | 786 |
| 42114 | 94  |

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SMITHERS, B.C. CANADA V0J 2N0  
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FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0480-RG2

Company: MINNOVA INC.  
Project: #663 SENECA  
Attn: COLIN BURGE

Date: JUN-26-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 1 ROCK samples submitted JUN-08-92 by C. BURGE.

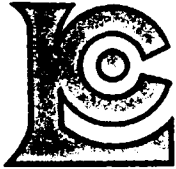
| Sample Number | *AU-FIRE<br>PPB | AG<br>PPM | BA-TOTAL<br>PPM | CU<br>PPM | PB<br>PPM | ZN<br>PPM |
|---------------|-----------------|-----------|-----------------|-----------|-----------|-----------|
| DM-92-01      | 2               | 1.0       | 1520            | 67        | 17        | 126       |

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









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To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9216095

Comments:

**CERTIFICATE**

**A9216095**

MINNOVA INC.

Project: #663 SENECA  
P.O. #:

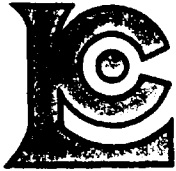
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 25-JUN-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                   |
|-------------|----------------|-------------------------------|
| 208         | 1              | Assay ring to approx 150 mesh |
| 274         | 1              | 0-15 lb crush and split       |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     | METHOD         | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|---------------------------------|----------------|-----------------|-------------|
| 397         | 1              | Au g/tonne: 1/2 assay ton       | FA-GRAVIMETRIC | 0.1             | 500.0       |
| 384         | 1              | Ag g/tonne                      | FA-GRAVIMETRIC | 0.3             | 500         |
| 301         | 1              | Cu %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100.        |
| 312         | 1              | Pb %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100.0       |
| 316         | 1              | Zn %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100.0       |
| 351         | 1              | Ba %: Carbonate fusion          | GRAVIMETRIC    | 0.01            | 100.00      |



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To: MINNOVA INC.

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V6B 1B8

Project: #663 SENECA  
Comments:

Page Number :1  
Total Pages :1  
Certificate Date: 25-JUN-92  
Invoice No. : I9216005  
P.O. Number :  
Account : BBX

## CERTIFICATE OF ANALYSIS

A9216095

| SAMPLE | PREP<br>CODE | Au FA<br>g/tonne | Ag FA<br>g/tonne | Cu<br>% | Pb<br>% | Zn<br>% | Ba<br>% |  |  |  |  |
|--------|--------------|------------------|------------------|---------|---------|---------|---------|--|--|--|--|
| 36263  | 208 274      | < 0.1            | < 1.7            | 0.01    | 0.01    | 0.17    | 0.08    |  |  |  |  |

CERTIFICATION:

*Theresa Vornh*



# Chemex Labs Ltd.

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PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9215787

Comments:

**CERTIFICATE**

**A9215787**

MINNOVA INC.

Project: #663 SENECA  
P.O. #:

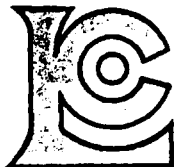
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 19-JUN-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                   |
|-------------|----------------|-------------------------------|
| 208         | 2              | Assay ring to approx 150 mesh |
| 274         | 2              | 0-15 lb crush and split       |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     | METHOD         | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|---------------------------------|----------------|-----------------|-------------|
| 397         | 2              | Au g/tonne: 1/2 assay ton       | FA-GRAVIMETRIC | 0.1             | 500.0       |
| 384         | 2              | Ag g/tonne                      | FA-GRAVIMETRIC | 0.3             | 500         |
| 301         | 2              | Cu %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100         |
| 312         | 2              | Pb %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100.0       |
| 316         | 2              | Zn %: Reverse Aqua-Regia digest | AAS            | 0.01            | 100.0       |



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V6B 1B8

Project : #663 SENECA  
Comments:

Page Number : 1  
Total Pages : 1  
Certificate Date: 19-JUN-92  
Invoice No. : 19215787  
P.O. Number :  
Account : BBX

## CERTIFICATE OF ANALYSIS

A9215787

| SAMPLE | PREP CODE | Au FA g/tonne | Ag FA g/tonne | Cu % | Pb %   | Zn %   |  |  |  |  |  |
|--------|-----------|---------------|---------------|------|--------|--------|--|--|--|--|--|
| 36260  | 208 274   | < 0.1         | 2.6           | 3.60 | < 0.01 | < 0.01 |  |  |  |  |  |
| 36261  | 208 274   | < 0.1         | < 1.7         | 0.31 | < 0.01 | < 0.01 |  |  |  |  |  |

CERTIFICATION:

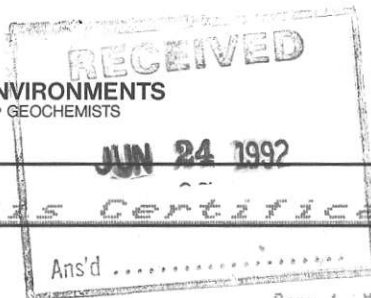


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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005



*Geochemical Analysis Certificate*

2V-0464-RG1

Company: MINNOVA INC.  
Project: 663  
Attn: COLIN BURGE

Date: JUN-18-92  
Copy 1, MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 18 ROCK samples submitted JUN-05-92 by COLIN BURGE.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42088         | 87           |
| 42089         | 156          |
| 42090         | 187          |
| 42091         | 249          |
| 42092         | 457          |
| 42093         | 333          |
| 42094         | 158          |
| 42095         | 536          |
| 42096         | 46           |
| 42097         | 191          |
| 42098         | 50           |
| 42099         | 289          |
| 42100         | 4170         |
| 42101         | 101          |
| 42102         | 284          |
| 42103         | 239          |
| 42104         | 497          |
| 42105         | 218          |

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

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**SMITHERS LAB.:**

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

*Geochemical Analysis Certificate*

2V-0464-RG2

Company: MINNOVA INC.  
Project: #663  
Attn: COLIN BURGE

Date: JUN-19-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 2 ROCK samples submitted JUN-05-92 by COLIN BURGE.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 36258         | 509          |
| 36259         | 233          |

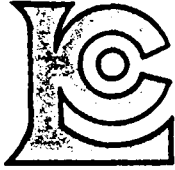
Certified by \_\_\_\_\_











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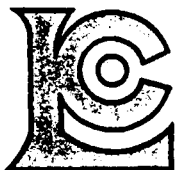
Project: 663  
Comments: ATTN: COLIN BURGE

Page Number :1  
Total Pages :1  
Certificate Date: 09-JUN-92  
Invoice No. :19215410  
P.O. Number :  
Account :BBX

## CERTIFICATE OF ANALYSIS A9215410

| SAMPLE | PREP CODE | Au oz/T RUSH | Ag oz/T RUSH | Cu % | Pb %   | Zn %  | Ba % |  |  |  |  |
|--------|-----------|--------------|--------------|------|--------|-------|------|--|--|--|--|
| 36251  | 258 292   | 0.002        | 0.09         | 0.13 | < 0.01 | 0.15  | 0.08 |  |  |  |  |
| 36252  | 258 292   | 0.012        | 1.80         | 1.83 | 0.01   | 26.1  | 0.30 |  |  |  |  |
| 36253  | 258 292   | 0.012        | 4.98         | 0.75 | 0.85   | 9.01  | 0.38 |  |  |  |  |
| 36254  | 258 292   | 0.190        | 8.26         | 3.90 | 6.08   | 45.8  | 3.66 |  |  |  |  |
| 36255  | 258 292   | 0.097        | 3.88         | 1.51 | 0.58   | 21.3  | 4.60 |  |  |  |  |
| 36256  | 258 292   | 0.060        | 1.88         | 1.29 | 0.76   | 17.30 | 3.14 |  |  |  |  |
| 36257  | 258 292   | 0.007        | 0.13         | 0.43 | < 0.01 | 0.37  | 0.28 |  |  |  |  |

CERTIFICATION: *Mark Vank*



# Chemex Labs Ltd.

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PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9215410

Comments: ATTN: COLIN BURGE

JUN 12 1992

CERTIFICATE

A9215410

MINNOVA INC.

Project: 663  
P.O. #:

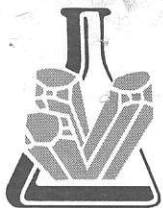
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 9-JUN-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     |
|-------------|----------------|---------------------------------|
| 258         | 7              | RUSH Assay ring approx 150 mesh |
| 292         | 7              | RUSH Crush and split (0-15 lbs) |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                      | METHOD      | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|----------------------------------|-------------|-----------------|-------------|
| 981         | 7              | Au oz/T: RUSH, 1/2 assay ton     | FA-AAS      | 0.002           | 20.0^^      |
| 980         | 7              | Ag oz/T: RUSH, aqua regia digest | AAS         | 0.01            | 20          |
| 301         | 7              | Cu %: Reverse Aqua-Regia digest  | AAS         | 0.01            | 100.0       |
| 312         | 7              | Pb %: Reverse Aqua-Regia digest  | AAS         | 0.01            | 100.0       |
| 316         | 7              | Zn %: Reverse Aqua-Regia digest  | AAS         | 0.01            | 100.0       |
| 351         | 7              | Ba %: Carbonate fusion           | GRAVIMETRIC | 0.01            | 100.00      |



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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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FAX (604) 980-9621

**SMITHERS LAB.:**

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



~~Geochemical Analysis Certificate~~ 2V 0400 RG1

Company: MINNOVA  
Project: 663 SENECA  
Attn: SHAWN MCCALLUM

Date: JUN-03-92

Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 30 CORE samples submitted MAY-23-92 by SHAWN MCCALLUM.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42048         | 467          |
| 42049         | 193          |
| 42050         | 208          |
| 42051         | 162          |
| 42052         | 557          |
| 42053         | 352          |
| 42054         | 633          |
| 42055         | 190          |
| 42056         | 15           |
| 42057         | 109          |
| 42058         | 84           |
| 42059         | 478          |
| 42060         | 255          |
| 42061         | 333          |
| 42062         | 900          |
| 42063         | 154          |
| 42064         | 433          |
| 42065         | 225          |
| 42066         | 225          |
| 42067         | 455          |
| 42068         | 379          |
| 42069         | 547          |
| 42070         | 372          |
| 42071         | 1870         |
| 42072         | 271          |
| 42073         | 255          |
| 42074         | 163          |
| 42075         | 1320         |
| 42076         | 1560         |
| 42077         | 797          |

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**SMITHERS LAB.:**

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

*Geochemical Analysis Certificate*

2V 0400 R62

Company: **MINNOVA**  
Project: 663 SENECA  
Attn: SHAWN MCCALLUM

Date: JUN-03-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 30 CORE/ROCK samples submitted MAY-23-92 by SHAWN MCCALLUM.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42078         | 604          |
| 42079         | 447          |
| 42080         | 711          |
| 42081         | 1290         |
| 09235         | 1033         |
| 09236         | 170          |
| 09237         | 782          |
| 09238         | 1010         |
| 09239         | 651          |
| 09240         | 631          |
| 09241         | 522          |
| 09242         | 607          |
| 09243         | 820          |
| 09244         | 333          |
| 09245         | 452          |
| 09246         | 1090         |
| 09247         | 1000         |
| 09248         | 84           |
| 09249         | 545          |
| 09250         | 812          |
| 09251         | 592          |
| 09252         | 572          |
| 09253         | 429          |
| 09254         | 238          |
| 09255         | 311          |
| 09256         | 166          |
| 09257         | 172          |
| 09258         | 532          |
| 09259         | 356          |
| 09260         | 489          |

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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

Geochemical Analysis Certificate

2V-0400-R63

Company: **MINNOVA**  
Project: 663 SENECA  
Attn: SHAWN MCCALLUM

Date: JUN-03-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 9 ROCK samples submitted MAY-23-92 by SHAWN MCCALLUM.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 09261         | 981          |
| 09262         | 649          |
| 09263         | 111          |
| 09264         | 202          |
| 09265         | 699          |
| 09266         | 525          |
| 09267         | 44           |
| 09268         | 138          |
| 09269         | 382          |

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





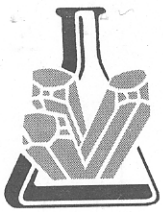












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**SMITHERS LAB.:**

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

Geochemical Analysis Certificate

2V-0432-RG1

Company: MINNOVA INC.  
Project: #663 SENECA  
Attn: SHAWN MCCALLUM

Date: JUN-04-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C

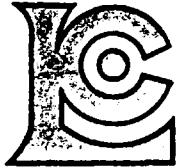
*We hereby certify* the following Geochemical Analysis of 6 CORE samples submitted MAY-31-92 by SHAWN MCCALLUM.

| Sample Number | BA-TOTAL PPM | LOI % |
|---------------|--------------|-------|
| 42082         | 441          | 2.80  |
| 42083         | 515          | 2.60  |
| 42084         | 218          | 3.90  |
| 42085         | 430          | 3.30  |
| 42086         | 138          | 5.50  |
| 42087         | 809          | 2.70  |

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







# Chemex Labs Ltd.

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

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9215144

Comments: ATTN: COLIN BURGE

**CERTIFICATE**

**A9215144**

MINNOVA INC.

Project: #663 SENECA  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 2-JUN-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                   |
|-------------|----------------|-------------------------------|
| 208         | 8              | Assay ring to approx 150 mesh |
| 274         | 8              | 0-15 lb crush and split       |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                       | METHOD | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|-----------------------------------|--------|-----------------|-------------|
| 398         | 8              | Au oz/T: 1/2 assay ton            | FA-AAS | 0.002           | 20.0        |
| 385         | 8              | Ag oz/T: Reverse Aqua-Regia dig'n | AAS    | 0.01            | 20.0        |
| 301         | 8              | Cu %: Reverse Aqua-Regia digest   | AAS    | 0.01            | 100.0       |
| 312         | 8              | Pb %: Reverse Aqua-Regia digest   | AAS    | 0.01            | 100.0       |
| 316         | 8              | Zn %: Reverse Aqua-Regia digest   | AAS    | 0.01            | 100.0       |





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PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

Project : #663 SENECA  
Comments: ATTN: COLIN BURGE

Page Number :1  
Total Pages :1  
Certificate Date: 02-JUN-92  
Invoice No. :19215144  
P.O. Number :  
Account :BBX

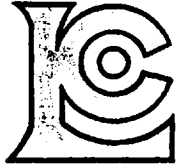
## CERTIFICATE OF ANALYSIS

### A9215144

| SAMPLE | PREP CODE | Au oz/T | Ag oz/T | Cu % | Pb %   | Zn %   |  |  |  |  |  |
|--------|-----------|---------|---------|------|--------|--------|--|--|--|--|--|
| 36243  | 208 274   | < 0.002 | < 0.01  | 0.01 | < 0.01 | < 0.01 |  |  |  |  |  |
| 36244  | 208 274   | < 0.002 | 0.02    | 0.08 | < 0.01 | 0.60   |  |  |  |  |  |
| 36245  | 208 274   | < 0.007 | 0.38    | 0.37 | < 0.42 | 3.68   |  |  |  |  |  |
| 36246  | 208 274   | < 0.002 | 0.03    | 0.04 | < 0.01 | 0.56   |  |  |  |  |  |
| 36247  | 208 274   | < 0.002 | 0.04    | 0.04 | 0.01   | 0.44   |  |  |  |  |  |
| 36248  | 208 274   | < 0.002 | 0.13    | 0.04 | 0.01   | 0.98   |  |  |  |  |  |
| 36249  | 208 274   | 0.004   | 0.29    | 0.08 | 0.07   | 2.06   |  |  |  |  |  |
| 36250  | 208 274   | 0.007   | 1.50    | 0.40 | 0.07   | 3.31   |  |  |  |  |  |

CERTIFICATION:

*John Vank*



# Chemex Labs Ltd.

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

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9214593

Comments: ATTN: COLIN BURGE

**CERTIFICATE**

**A9214593**

MINNOVA INC.

Project: 663  
P.O. #:

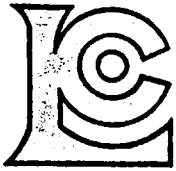
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 24-MAY-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION  |
|-------------|----------------|--|
| 208         | 1              | Assay ring to approx 150 mesh<br>0-15 lb crush and split |
| 274         | 1              |  |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION   | METHOD      | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|---|-------------|-----------------|-------------|
| 398         | 1              | Au oz/T: 1/2 assay ton                              | FA-AAS      | 0.002           | 20.00       |
| 385         | 1              | Ag oz/T: Aqua regia digestion                       | AAS         | 0.01            | 20.0        |
| 301         | 1              | Cu %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 312         | 1              | Pb %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 316         | 1              | Zn %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 351         | 1              | Ba %: Carbonate fusion                              | GRAVIMETRIC | 0.01            | 100.00      |



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212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

Project : 663  
Comments: ATTN: COLIN BURGE

Page Number : 1  
Total Pages : 1  
Certificate Date: 24-MAY-92  
Invoice No. : 19214593  
P.O. Number :  
Account : BBX

## CERTIFICATE OF ANALYSIS

A9214593

| SAMPLE | PREP CODE |     | Au<br>oz/T | Ag<br>oz/T | Cu<br>% | Pb<br>% | Zn<br>% | Ba<br>% |  |  |  |  |
|--------|-----------|-----|------------|------------|---------|---------|---------|---------|--|--|--|--|
| 36242  | 208       | 274 | < 0.002    | 0.06       | 1.49    | < 0.01  | 0.02    | 0.05    |  |  |  |  |

CERTIFICATION: 



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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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FAX (604) 980-9621

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

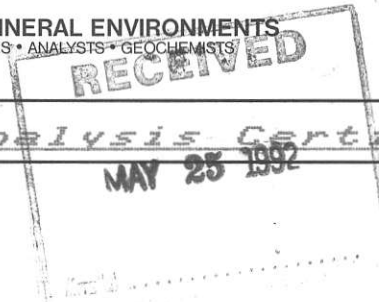
*Geochemical Analysis Certificate*

2V-0348-RG1

Company: **MINNOVA INC.**  
Project: **SENECA 663**  
Attn: **COLIN BURGE**

Date: **MAY-20-92**

Copy 1. MINNOVA INC., VANCOUVER, B.C.



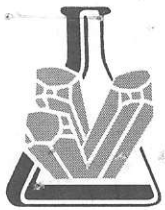
*We hereby certify* the following Geochemical Analysis of 18 CORE samples submitted MAY-12-92 by COLIN BURGE.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42030         | 627          |
| 42031         | 393          |
| 42032         | 431          |
| 42033         | 425          |
| 42034         | 348          |
| 42035         | 404          |
| 42036         | 476          |
| 42037         | 513          |
| 42038         | 472          |
| 42039         | 371          |
| 42040         | 472          |
| 42041         | 588          |
| 42042         | 219          |
| 42043         | 193          |
| 42044         | 356          |
| 42045         | 131          |
| 42046         | 362          |
| 42047         | 781          |

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**SMITHERS LAB.:**  
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TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0332-RG1

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-15-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 30 CORE/ROCK samples submitted MAY-07-92 by JOHN ZBEETNOFF.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 42014         | 362          |
| 42015         | 290          |
| 42016         | 62           |
| 42017         | 98           |
| 42018         | 200          |
| 42019         | 360          |
| 42020         | 515          |
| 42021         | 513          |
| 42022         | 543          |
| 42023         | 1030         |
| 42024         | 464          |
| 42025         | 55           |
| 42026         | 64           |
| 42027         | 2913         |
| 42028         | 496          |
| 42029         | 421          |
| 9201          | 641          |
| 9202          | 735          |
| 9203          | 1500         |
| 9204          | 1540         |
| 9205          | 848          |
| 9206          | 1170         |
| 9207          | 1150         |
| 9208          | 1290         |
| 9209          | 773          |
| 9210          | 1780         |
| 9211          | 1550         |
| 9212          | 1140         |
| 9213          | 988          |
| 9214          | 1060         |

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FAX (604) 980-9621

**SMITHERS LAB.:**

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

Geochemical Analysis Certificate

2V-0332-RG2

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-15-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 20 CORE/ROCK samples submitted MAY-07-92 by JOHN ZBEETNOFF.

| Sample Number | BA-TOTAL PPM |
|---------------|--------------|
| 9215          | 275          |
| 9216          | 604          |
| 9217          | 1660         |
| 9218          | 535          |
| 9219          | 202          |
| 9220          | 825          |
| 9221          | 544          |
| 9222          | 122          |
| 9223          | 935          |
| 9224          | 788          |
| 9225          | 167          |
| 9226          | 138          |
| 9227          | 131          |
| 9228          | 357          |
| 9229          | 120          |
| 9230          | 8780         |
| 9231          | 673          |
| 9232          | 2900         |
| 9233          | 672          |
| 9234          | 955          |

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





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**VANCOUVER OFFICE:**

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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

*Geochemical Analysis Certificate*

2V-0332-RG3

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-15-92  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 3 CORE samples submitted MAY-07-92 by JOHN ZBEETNOFF.

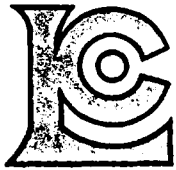
| Sample<br>Number | BA-TOTAL<br>PPM |
|------------------|-----------------|
| 36239            | 813             |
| 36240            | 564             |
| 36241            | 737             |

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









# Chemex Labs Ltd.

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

To: MINNOVA INC.

3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

A9214342

Comments: ATTN: COLIN BURGE

**CERTIFICATE**

**A9214342**

MINNOVA INC.

Project: 663  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 17-MAY-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     |
|-------------|----------------|---------------------------------|
| 258         | 5              | RUSH Assay ring approx 150 mesh |
| 292         | 5              | RUSH Crush and split (0-15 lbs) |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION   | METHOD      | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|---|-------------|-----------------|-------------|
| 981         | 5              | Au oz/T: RUSH, 1/2 assay ton                        | FA-AAS      | 0.002           | 20.000      |
| 980         | 5              | Ag oz/T: RUSH, aqua regia digest                    | AAS         | 0.01            | 20.00       |
| 301         | 5              | Cu %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 312         | 5              | Pb %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 316         | 5              | Zn %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion | AAS         | 0.01            | 100.0       |
| 351         | 5              | Ba %: Carbonate fusion                              | GRAVIMETRIC | 0.01            | 100.00      |



# Chemex Labs Ltd.

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To: MINNOVA INC.  
3RD FLOOR, 311 WATER ST.  
VANCOUVER, BC  
V6B 1B8

Project : 663  
Comments: ATTN: COLIN BURGE

Page Number : 1  
Total Pages : 1  
Certificate Date: 17-MAY-92  
Invoice No. : 19214342  
P.O. Number :  
Account : BBX

## CERTIFICATE OF ANALYSIS A9214342

| SAMPLE | PREP CODE |     | Au oz/T RUSH | Ag oz/T RUSH | Cu %   | Pb %   | Zn %   | Ba % |  |  |  |  |
|--------|-----------|-----|--------------|--------------|--------|--------|--------|------|--|--|--|--|
| 36234  | 258       | 292 | 0.004        | 0.33         | < 0.01 | < 0.01 | < 0.01 | 0.26 |  |  |  |  |
| 36235  | 258       | 292 | 0.002        | 0.26         | < 0.01 | < 0.01 | 0.01   | 0.17 |  |  |  |  |
| 36236  | 258       | 292 | 0.003        | 0.17         | < 0.01 | < 0.01 | < 0.01 | 0.08 |  |  |  |  |
| 36237  | 258       | 292 | 0.002        | 0.06         | < 0.01 | < 0.01 | < 0.02 | 0.06 |  |  |  |  |
| 36238  | 258       | 292 | 0.003        | 0.11         | < 0.01 | < 0.01 | < 0.01 | 0.03 |  |  |  |  |

CERTIFICATION: 



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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

*Geochemical Analysis Certificate*

2V-0295-RG2

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-11-92

**MAY 14 1992**

Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 6 CORE samples submitted APR-29-92 by JOHN ZBEETNOFF.

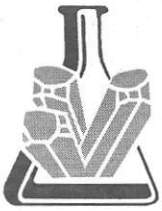
| Sample Number | BA-TOT PPM |
|---------------|------------|
| 36227         | 1095       |
| 36228         | 700        |
| 36229         | 590        |
| 36230         | 551        |
| 36231         | 3832       |
| 36232         | 1039       |

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

Geochemical Analysis Certificate

2V-0295-RG1

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-08-92

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We hereby certify the following Geochemical Analysis of 10 CORE samples submitted APR-29-92 by JOHN ZBEETNOFF.

| Sample Number | BA-TOT PPM |
|---------------|------------|
| 11339         | 727        |
| 11340         | 515        |
| 11341         | 423        |
| 11342         | 325        |
| 11343         | 535        |
| 11344         | 222        |
| 11345         | 485        |
| 11346         | 597        |
| 11347         | 515        |
| 11348         | 448        |

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**SMITHERS LAB.:**

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

*Geochemical Analysis Certificate*

2V-0274-RG1

Company: MINNOVA INC.  
Project: 6435d  
Attn: SHAWN MCCALLUM

Date: MAY-11-92

Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 18 CORE samples submitted APR-24-92 by SHAWN MCCALLUM.

| Sample Number | BA-TDT PPM |
|---------------|------------|
| 11321         | 402        |
| 11322         | 454        |
| 11323         | 273        |
| 11324         | 187        |
| 11325         | 351        |
| 11326         | 299        |
| 11327         | 340        |
| 11328         | 570        |
| 11329         | 279        |
| 11330         | 237        |
| 11331         | 184        |
| 11332         | 212        |
| 11333         | 486        |
| 11334         | 639        |
| 11335         | 666        |
| 11336         | 547        |
| 11337         | 867        |
| 11338         | 1040       |

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



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**SMITHERS LAB.:**

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

Geochemical Analysis Certificate

2V-0308-RG2

Company: MINNOVA INC.  
Project: 663  
Attn: COLIN BURGE

Date: MAY-11-92

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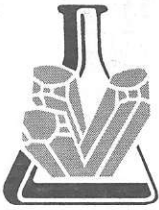
*We hereby certify* the following Geochemical Analysis of 1 ROCK samples submitted APR-30-92 by COLIN BURGE.

| Sample Number | BA-TOT PPM |
|---------------|------------|
| 36233         | 533        |

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

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FAX (604) 980-9621

**SMITHERS LAB.:**

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

Geochemical Analysis Certificate

2V-0308-RG1

Company: MINNOVA INC.  
Project: 663  
Attn: COLIN BURGE

Date: MAY-08-92

Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify* the following Geochemical Analysis of 8 ROCK samples submitted APR-30-92 by COLIN BURGE.

| Sample Number | BA-TOT PPM |
|---------------|------------|
| 11349         | 572        |
| 11350         | 444        |
| 42001         | 318        |
| 42002         | 384        |
| 42003         | 265        |
| 42004         | 66         |
| 42005         | 707        |
| 42006         | 356        |

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FAX (604) 980-9621

**SMITHERS LAB.:**

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

*Geochemical Analysis Certificate*

2V-0313-RG1

Company: MINNOVA INC.  
Project: 663  
Attn: JOHN ZBEETNOFF

Date: MAY-08-92

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*We hereby certify* the following Geochemical Analysis of 7 CORE samples submitted MAY-02-92 by JOHN ZBEETNOFF.

| Sample Number | BA-TDT PPM |
|---------------|------------|
| BCD 42007     | 279        |
| BCD 42008     | 295        |
| BCD 42009     | 521        |
| BCD 42010     | 677        |
| BCD 42011     | 977        |
| BCD 42012     | 647        |
| BCD 42013     | 855        |

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

MIN-EN LABORATORIES





COMP: MINNOVA INC.  
 PROJ: 663  
 ATTN: SHAWN McCALLUM

**MIN-EN LABS - WHOLE ROCK ANALYSIS**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 2V-0274-RL1  
 DATE: 92/04/28  
 \* CORE \* (ACT:F26)

| SAMPLE NUMBER | AL2O3 % | BA % | CAO % | FE2O3 % | K2O % | MGO % | MNO2 % | NA2O % | P2O5 % | SI02 % | SR % | TIO2 % | LOI % | S %  |
|---------------|---------|------|-------|---------|-------|-------|--------|--------|--------|--------|------|--------|-------|------|
| 11321         | 13.34   | .030 | 1.61  | 2.50    | 1.13  | 1.83  | .12    | 4.37   | .09    | 71.83  | .015 | .29    | 1.80  | .14  |
| 11322         | 14.10   | .035 | .99   | 3.24    | 1.69  | 3.29  | .13    | 3.23   | .12    | 68.78  | .010 | .34    | 3.00  | .09  |
| 11323         | 13.34   | .020 | 1.53  | 2.74    | .93   | 2.16  | .12    | 4.30   | .10    | 71.25  | .015 | .29    | 2.60  | .13  |
| 11324         | 13.56   | .015 | 1.45  | 3.00    | .85   | 2.20  | .14    | 4.67   | .10    | 70.82  | .015 | .31    | 1.90  | .14  |
| 11325         | 13.36   | .025 | 1.85  | 2.75    | 1.09  | 2.18  | .16    | 3.98   | .09    | 71.01  | .015 | .29    | 2.30  | .23  |
| 11326         | 13.21   | .020 | 1.60  | 2.98    | .94   | 2.28  | .16    | 4.34   | .09    | 70.67  | .015 | .27    | 2.70  | .25  |
| 11327         | 13.14   | .025 | 2.43  | 2.70    | 1.51  | 3.27  | .12    | 2.95   | .11    | 67.91  | .005 | .33    | 4.60  | .92  |
| 11328         | 14.76   | .040 | 1.44  | 3.96    | 2.62  | 4.13  | .18    | 1.90   | .13    | 64.21  | .005 | .45    | 5.20  | 1.14 |
| 11329         | 14.59   | .020 | 3.58  | 4.15    | .92   | 3.62  | .19    | 4.43   | .12    | 62.05  | .015 | .45    | 5.00  | 1.27 |
| 11330         | 13.23   | .015 | 1.09  | 3.04    | .82   | 2.26  | .13    | 4.59   | .11    | 71.22  | .010 | .33    | 2.30  | .68  |
| 11331         | 13.72   | .010 | .88   | 2.72    | .69   | 2.14  | .09    | 5.37   | .11    | 71.44  | .010 | .33    | 1.50  | .12  |
| 11332         | 14.41   | .015 | 1.57  | 3.54    | .86   | 2.53  | .17    | 5.04   | .20    | 68.03  | .005 | .43    | 2.40  | .13  |
| 11333         | 12.48   | .040 | 1.94  | 2.24    | 1.96  | 2.41  | .09    | 2.20   | .07    | 71.75  | .005 | .21    | 3.60  | .61  |
| 11334         | 11.17   | .055 | .90   | 7.14    | 2.34  | 2.62  | .11    | .11    | .08    | 69.61  | .005 | .24    | 5.00  | 3.10 |
| 11335         | 12.28   | .050 | 3.36  | 1.77    | .66   | .94   | .11    | 4.89   | .07    | 70.82  | .015 | .23    | 3.80  | 1.29 |
| 11336         | 12.63   | .040 | 1.35  | 3.25    | 2.02  | 2.58  | .11    | 2.01   | .08    | 71.48  | .005 | .24    | 3.30  | .82  |
| 11337         | 12.91   | .060 | 2.18  | 3.12    | 2.07  | 3.49  | .17    | 1.80   | .12    | 68.85  | .005 | .35    | 4.30  | .96  |
| 11338         | 13.04   | .075 | 2.70  | 3.10    | 1.59  | 2.56  | .15    | 2.91   | .13    | 68.00  | .010 | .36    | 4.50  | 1.33 |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |
|               |         |      |       |         |       |       |        |        |        |        |      |        |       |      |

MAY 1 1992  
 MIN-EN LABS





