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CLAIM--4271905  
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2.58196

THIS CLAIM IS LOCATED IN THE NORTHWEST CORNER OF  
MAECK TWP.

SAULT STE. MARIE MINING DIVISON.

FROM SAULT STE. MARIE TRAVEL NORTH ON HWY 17 TO  
HEYDEN

THEN TAKE HWY 556 PAST RANGER LAKE TO THE  
AUBINADONG RIVER.

THEN TAKE THE DOMTAR ACCESS NORTHWEST 15 KM.AT FORK  
IN THE ROAD GO

RIGHT FOR 100 METERS, THEN RIGHT AGAIN.

TRAVEL 12 KM TO ANOTHER FORK IN THE ROAD AND AGAIN  
STAY RIGHT,

AND CROSS OVER THE EAST AUBINADONG RIVER.

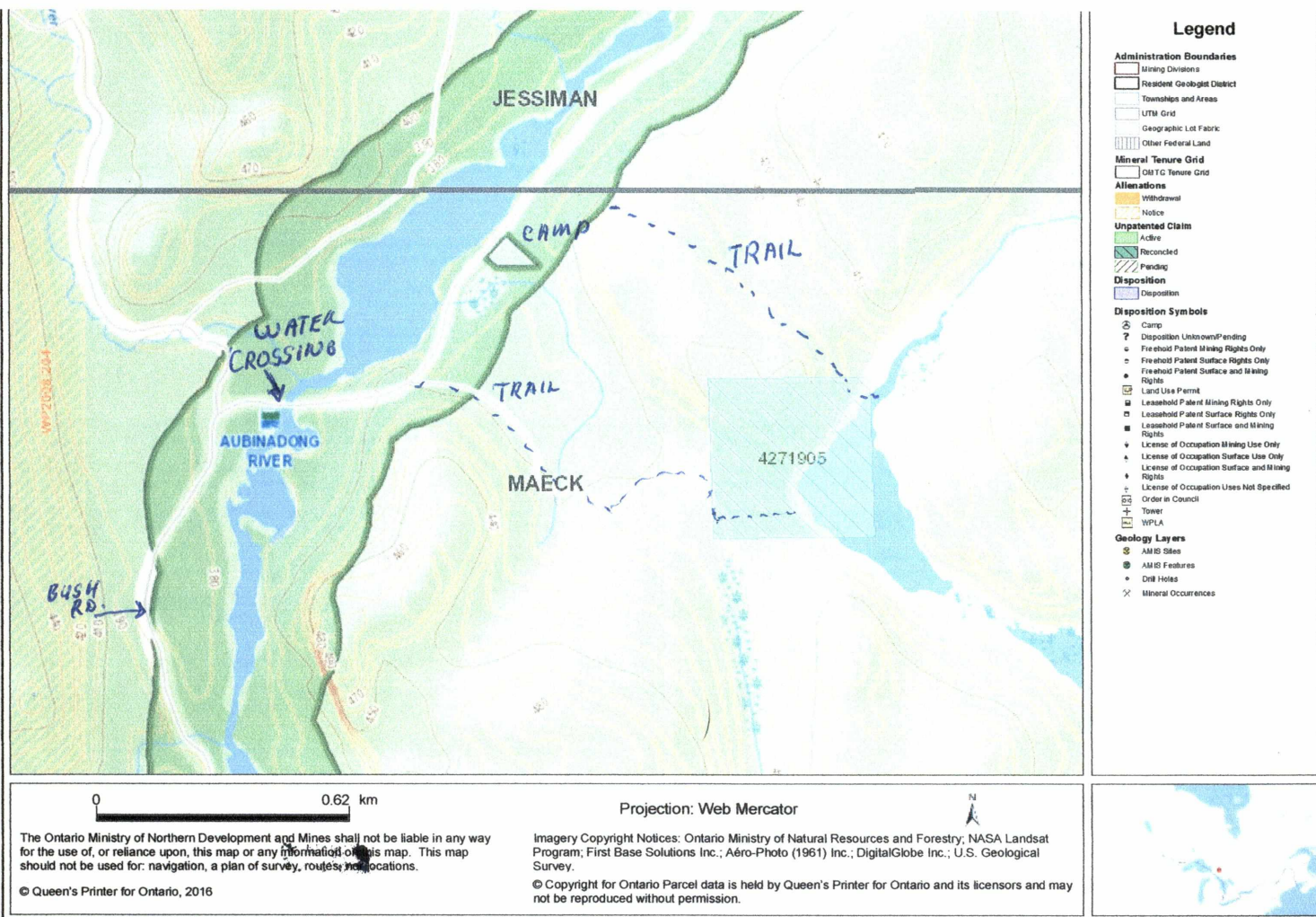
NOTE: A BOAT AND MOTOR IS REQUIRED.

TRAVEL .5KM TO A CAMP AND THEN ATV AND WALKING  
TRAIL TO

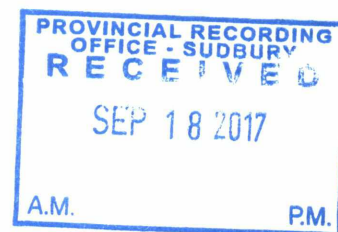
CLAIM.

██████ TRAVEL DISTANCE IS 130KM.





2.58196



## Results

## Activation Laboratories Ltd.

Report: A17-04236

| Analyte Symbol | Au    | Ag     | Cd     | Cu     | Mn     | Mo     | Ni     | Pb     | Zn     | Al     | As     | B      | Ba     | Be     | Bi     | Ca     | Co     | Cr     | Fe     | Ga     | Hg     | K      | La     |
|----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | ppb   | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    |
| Lower Limit    | 5     | 0.2    | 0.5    | 1      | 5      | 1      | 1      | 2      | 2      | 0.01   | 2      | 10     | 10     | 0.5    | 2      | 0.01   | 1      | 1      | 0.01   | 10     | 1      | 0.01   | 10     |
| Method Code    | FA-AA | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| SAMPLE # 1     | < 5   | < 0.2  | < 0.5  | 2      | 404    | < 1    | 46     | < 2    | 29     | 1.79   | 4      | < 10   | 26     | 0.8    | < 2    | 0.30   | 33     | 12     | 14.0   | 10     | 2      | 0.02   | 13     |
| SAMPLE # 2     | < 5   | < 0.2  | < 0.5  | 165    | 753    | < 1    | 520    | < 2    | 96     | 2.81   | 2      | < 10   | 678    | 2.4    | < 2    | 5.74   | 65     | 325    | 8.72   | 20     | < 1    | 1.61   | 32     |
| SAMPLE # 3     | < 5   | < 0.2  | < 0.5  | 9      | 41     | 2      | 5      | 28     | 4      | 0.74   | 8      | < 10   | 78     | < 0.5  | < 2    | 0.07   | 1      | 23     | 0.69   | < 10   | < 1    | 0.43   | 215    |
| SAMPLE # 4     | < 5   | < 0.2  | < 0.5  | 2      | 646    | < 1    | 717    | 4      | 69     | 3.51   | 9      | < 10   | 13     | 1.7    | < 2    | 0.57   | 56     | 1020   | 11.0   | 30     | < 1    | 0.01   | 16     |
| SAMPLE # 5     | < 5   | < 0.2  | 1.7    | 60     | 1450   | < 1    | 50     | 51     | 414    | 2.70   | 13     | < 10   | 56     | 0.7    | < 2    | 2.56   | 41     | 82     | 8.49   | 10     | 4      | 0.07   | < 10   |

2.58196

## Results

Activation Laboratories Ltd.

Report: A17-04236

| Analyte Symbol | Mg     | Na     | P      | S      | Sb     | Sc     | Sr     | Ti     | Th     | Te     | Tl     | U      | V      | W      | Y      | Zr     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | %      | %      | %      | %      | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit    | 0.01   | 0.001  | 0.001  | 0.01   | 2      | 1      | 1      | 0.01   | 20     | 1      | 2      | 10     | 1      | 10     | 1      | 1      |
| Method Code    | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| SAMPLE # 1     | 2.10   | 0.094  | 0.030  | 0.42   | 3      | 9      | 3      | 0.22   | < 20   | 2      | < 2    | < 10   | 309    | < 10   | 12     | 33     |
| SAMPLE # 2     | 6.98   | 0.132  | 0.054  | 0.10   | 5      | 12     | 213    | 0.18   | < 20   | 7      | < 2    | < 10   | 224    | < 10   | 17     | 5      |
| SAMPLE # 3     | 0.09   | 0.030  | 0.032  | < 0.01 | < 2    | < 1    | 8      | 0.02   | 190    | 2      | < 2    | < 10   | 7      | < 10   | 12     | 11     |
| SAMPLE # 4     | 5.32   | 0.021  | 0.052  | 0.24   | 5      | 7      | 4      | 0.32   | < 20   | < 1    | < 2    | < 10   | 133    | < 10   | 10     | 29     |
| SAMPLE # 5     | 2.84   | 0.119  | 0.063  | 0.12   | 3      | 10     | 29     | 0.48   | < 20   | 3      | < 2    | < 10   | 222    | < 10   | 23     | 22     |

SAMPLE  
LOCATION

2-17 324638 E 5214178 N  
✓ 324608 E 5213866 N  
✓ 324553 E 5213907 N  
✓ 324594 E 5214098 N  
✓ 324509 E 5214092 N



REVISION--CLAIM #4271905 (MAECK TWP.) TRANSACTION # W-175001792

DAILY LOG.

AUG./28/2016--MOBILIZE FROM SAULT STE. MARIE TO CAMP NEAR CLAIM.

AUG./29/2016--ATV ON SOUTH TRAIL SHOWN ON MAP TO WALKING TRAIL

TO ACCESS SOUTHERN PART OF CLAIM BRUSHING AND CUTTING

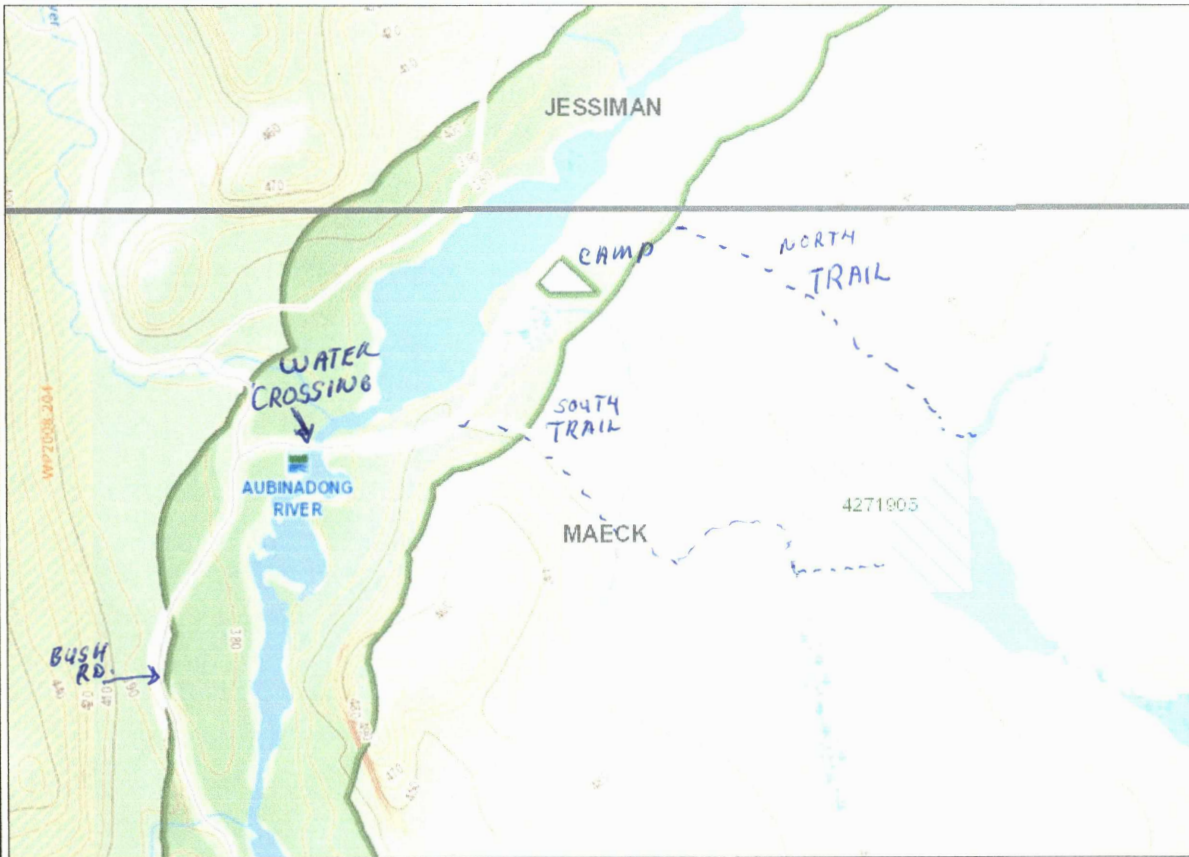
DEADFALLS AS REQ'D. PROSPECT AND SAMPLE.

AUG./30/2016--ATV ON NORTH TRAIL AS SHOWN ON MAP TO ACCESS NORTH

EASTERN PART OF CLAIM CUTTING AND BRUSHING AS REQ'D

PROSPECT AND SAMPLE.

AUG./31/2016- DEMOBILIZE FROM CAMP TO SAULT STE. MARIE.



### Legend

- Administration Boundaries**
  - Mining Divisions
  - Resident Geologist District
  - Townships and Areas
  - UTM Grid
  - Geographic Lot Fabric
  - Other Federal Land
- Mineral Tenure Grid**
  - Ontario Tenure Grid
- Alienations**
  - Withdrawal
  - Notice
- Unpatented Claim**
  - Active
  - Reconciled
  - Pending
- Disposition**
  - Disposition
- Disposition Symbols**
  - Camp
  - Disposition Unknown/Pending
  - Freehold Patent Mining Rights Only
  - Freehold Patent Surface Rights Only
  - Freehold Patent Surface and Mining Rights
  - Land Use Permit
  - Leasehold Patent Mining Rights Only
  - Leasehold Patent Surface Rights Only
  - Leasehold Patent Surface and Mining Rights
  - License of Occupation Mining Use Only
  - License of Occupation Surface Use Only
  - License of Occupation Surface and Mining Rights
  - License of Occupation Uses Not Specified
  - Order in Council
  - Tower
  - WPLA
- Geology Layers**
  - AMIS Sites
  - AMIS Features
  - DRIH Notes
  - Mineral Occurrences

0 0.62 km

Projection: Web Mercator

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EAST BRANCH  
OF  
AUBINDONG RIVER  
MAECK TWP



MOBILIZING  
TO CLAIM # 4271905

CLAIM # 4271905 (MARECK TWP.)

SAMPLE LOCATION

|    | GPS | EASTING | NORTHERING |       |
|----|-----|---------|------------|-------|
| #1 | 17  | 324628  | 5214178    | MAFIC |
| #2 | 17  | 324608  | 5213866    | ✓     |
| #3 | 17  | 324553  | 5214098    | ✓     |
| #4 | 17  | 324594  | 5214098    | ✓     |
| #5 | 17  | 324509  | 5214092    | ✓     |



Date Submitted: 01-May-17

Invoice No.: A17-04236

Invoice Date: 12-May-17

Your Reference:

Jim Ralph  
189 Church St  
Sault Ste Marie Ontario P6A3H7  
Canada

ATTN: Jim Ralph

## CERTIFICATE OF ANALYSIS

5 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT      **A17-04236**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé, Ph.D.  
Quality Control

ACTIVATION LABORATORIES LTD.  
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

## Results

## Activation Laboratories Ltd.

Report: A17-04236

| Analyte Symbol | Au    | Ag     | Cd     | Cu     | Mn     | Mo     | Ni     | Pb     | Zn     | Al     | As     | B      | Ba     | Be     | Bi     | Ca     | Co     | Cr     | Fe     | Ga     | Hg     | K      | La     |
|----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | ppb   | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    |
| Lower Limit    | 5     | 0.2    | 0.5    | 1      | 5      | 1      | 1      | 2      | 2      | 0.01   | 2      | 10     | 10     | 0.5    | 2      | 0.01   | 1      | 1      | 0.01   | 10     | 1      | 0.01   | 10     |
| Method Code    | FA-AA | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| SAMPLE # 1     | < 5   | < 0.2  | < 0.5  | 2      | 404    | < 1    | 46     | < 2    | 29     | 1.79   | 4      | < 10   | 26     | 0.8    | < 2    | 0.30   | 33     | 12     | 14.0   | 10     | 2      | 0.02   | 13     |
| SAMPLE # 2     | < 5   | < 0.2  | < 0.5  | 165    | 753    | < 1    | 520    | < 2    | 96     | 2.81   | 2      | < 10   | 678    | 2.4    | < 2    | 5.74   | 65     | 325    | 8.72   | 20     | < 1    | 1.61   | 32     |
| SAMPLE # 3     | < 5   | < 0.2  | < 0.5  | 9      | 41     | 2      | 5      | 28     | 4      | 0.74   | 8      | < 10   | 78     | < 0.5  | < 2    | 0.07   | 1      | 23     | 0.69   | < 10   | < 1    | 0.43   | 215    |
| SAMPLE # 4     | < 5   | < 0.2  | < 0.5  | 2      | 646    | < 1    | 717    | 4      | 69     | 3.51   | 9      | < 10   | 13     | 1.7    | < 2    | 0.57   | 56     | 1020   | 11.0   | 30     | < 1    | 0.01   | 16     |
| SAMPLE # 5     | < 5   | < 0.2  | 1.7    | 60     | 1450   | < 1    | 50     | 51     | 414    | 2.70   | 13     | < 10   | 56     | 0.7    | < 2    | 2.56   | 41     | 82     | 8.49   | 10     | 4      | 0.07   | < 10   |

## Results

Activation Laboratories Ltd.

Report: A17-04236

| Analyte Symbol | Mg     | Na     | P      | S      | Sb     | Sc     | Sr     | Ti     | Th     | Te     | Tl     | U      | V      | W      | Y      | Zr     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | %      | %      | %      | %      | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit    | 0.01   | 0.001  | 0.001  | 0.01   | 2      | 1      | 1      | 0.01   | 20     | 1      | 2      | 10     | 1      | 10     | 1      | 1      |
| Method Code    | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| SAMPLE # 1     | 2.10   | 0.094  | 0.030  | 0.42   | 3      | 9      | 3      | 0.22   | < 20   | 2      | < 2    | < 10   | 309    | < 10   | 12     | 33     |
| SAMPLE # 2     | 6.98   | 0.132  | 0.054  | 0.10   | 5      | 12     | 213    | 0.18   | < 20   | 7      | < 2    | < 10   | 224    | < 10   | 17     | 5      |
| SAMPLE # 3     | 0.09   | 0.030  | 0.032  | < 0.01 | < 2    | < 1    | 8      | 0.02   | 190    | 2      | < 2    | < 10   | 7      | < 10   | 12     | 11     |
| SAMPLE # 4     | 5.32   | 0.021  | 0.052  | 0.24   | 5      | 7      | 4      | 0.32   | < 20   | < 1    | < 2    | < 10   | 133    | < 10   | 10     | 29     |
| SAMPLE # 5     | 2.84   | 0.119  | 0.063  | 0.12   | 3      | 10     | 29     | 0.48   | < 20   | 3      | < 2    | < 10   | 222    | < 10   | 23     | 22     |

| Analyte Symbol             | Au    | Ag     | Cd     | Cu           | Mn     | Mo     | Ni     | Pb     | Zn     | Al     | As     | B      | Ba     | Be     | Bi     | Ca     | Co     | Cr     | Fe     | Ga     | Hg     | K      | La     |
|----------------------------|-------|--------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol                | ppb   | ppm    | ppm    | ppm          | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    | ppm    | %      | ppm    |
| Lower Limit                | 5     | 0.2    | 0.5    | 1            | 5      | 1      | 1      | 2      | 2      | 0.01   | 2      | 10     | 10     | 0.5    | 2      | 0.01   | 1      | 1      | 0.01   | 10     | 1      | 0.01   | 10     |
| Method Code                | FA-AA | AR-ICP | AR-ICP | AR-ICP       | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| GXR-1 Meas                 |       | 31.1   | 2.9    | 1180         | 840    | 13     | 37     | 622    | 715    | 0.36   | 413    | 11     | 440    | 0.8    | 1500   | 0.84   | 7      | 6      | 22.8   | < 10   | 3      | 0.03   | < 10   |
| GXR-1 Cert                 |       | 31.0   | 3.30   | 1110         | 852    | 18.0   | 41.0   | 730    | 760    | 3.52   | 427    | 15.0   | 750    | 1.22   | 1380   | 0.960  | 8.20   | 12.0   | 23.6   | 13.8   | 3.90   | 0.050  | 7.50   |
| GXR-1 Meas                 |       | 30.6   | 2.8    | 1170         | 829    | 14     | 32     | 613    | 715    | 0.35   | 401    | 10     | 408    | 0.8    | 1480   | 0.83   | 7      | 6      | 22.3   | < 10   | 4      | 0.03   | < 10   |
| GXR-1 Cert                 |       | 31.0   | 3.30   | 1110         | 852    | 18.0   | 41.0   | 730    | 760    | 3.52   | 427    | 15.0   | 750    | 1.22   | 1380   | 0.960  | 8.20   | 12.0   | 23.6   | 13.8   | 3.90   | 0.050  | 7.50   |
| GXR-1 Meas                 |       | 30.8   | 3.0    | 1180         | 827    | 14     | 28     | 618    | 720    | 0.34   | 410    | 11     | 159    | 0.8    | 1480   | 0.85   | 7      | 6      | 23.1   | < 10   | 3      | 0.03   | < 10   |
| GXR-1 Cert                 |       | 31.0   | 3.30   | 1110         | 852    | 18.0   | 41.0   | 730    | 760    | 3.52   | 427    | 15.0   | 750    | 1.22   | 1380   | 0.960  | 8.20   | 12.0   | 23.6   | 13.8   | 3.90   | 0.050  | 7.50   |
| GXR-4 Meas                 |       | 3.6    | < 0.5  | 6280         | 137    | 310    | 36     | 40     | 69     | 2.74   | 100    | < 10   | 44     | 1.4    | 11     | 0.95   | 13     | 50     | 2.95   | < 10   | < 1    | 1.67   | 47     |
| GXR-4 Cert                 |       | 4.0    | 0.860  | 6520         | 155    | 310    | 42.0   | 52.0   | 73.0   | 7.20   | 98.0   | 4.50   | 1640   | 1.90   | 19.0   | 1.01   | 14.6   | 64.0   | 3.09   | 20.0   | 0.110  | 4.01   | 64.5   |
| GXR-4 Meas                 |       | 3.6    | < 0.5  | 6330         | 139    | 314    | 36     | 42     | 71     | 2.79   | 100    | < 10   | 26     | 1.4    | 12     | 0.95   | 13     | 51     | 2.98   | < 10   | < 1    | 1.68   | 44     |
| GXR-4 Cert                 |       | 4.0    | 0.860  | 6520         | 155    | 310    | 42.0   | 52.0   | 73.0   | 7.20   | 98.0   | 4.50   | 1640   | 1.90   | 19.0   | 1.01   | 14.6   | 64.0   | 3.09   | 20.0   | 0.110  | 4.01   | 64.5   |
| GXR-4 Meas                 |       | 3.7    | < 0.5  | 6340         | 141    | 317    | 36     | 41     | 70     | 2.75   | 102    | < 10   | 59     | 1.4    | 23     | 0.96   | 13     | 50     | 2.99   | < 10   | < 1    | 1.65   | 40     |
| GXR-4 Cert                 |       | 4.0    | 0.860  | 6520         | 155    | 310    | 42.0   | 52.0   | 73.0   | 7.20   | 98.0   | 4.50   | 1640   | 1.90   | 19.0   | 1.01   | 14.6   | 64.0   | 3.09   | 20.0   | 0.110  | 4.01   | 64.5   |
| GXR-6 Meas                 |       | 0.3    | < 0.5  | 73           | 1090   | 1      | 23     | 93     | 127    | 7.31   | 229    | < 10   | 923    | 0.9    | < 2    | 0.15   | 13     | 77     | 5.86   | 20     | 3      | 1.18   | < 10   |
| GXR-6 Cert                 |       | 1.30   | 1.00   | 66.0         | 1010   | 2.40   | 27.0   | 101    | 118    | 17.7   | 330    | 9.80   | 1300   | 1.40   | 0.290  | 0.180  | 13.8   | 96.0   | 5.58   | 35.0   | 0.0680 | 1.87   | 13.9   |
| GXR-6 Meas                 |       | 0.4    | < 0.5  | 72           | 1050   | < 1    | 21     | 89     | 123    | 7.24   | 229    | < 10   | 904    | 0.9    | < 2    | 0.14   | 12     | 74     | 5.78   | 10     | 2      | 1.17   | < 10   |
| GXR-6 Cert                 |       | 1.30   | 1.00   | 66.0         | 1010   | 2.40   | 27.0   | 101    | 118    | 17.7   | 330    | 9.80   | 1300   | 1.40   | 0.290  | 0.180  | 13.8   | 96.0   | 5.58   | 35.0   | 0.0680 | 1.87   | 13.9   |
| GXR-6 Meas                 |       | 0.3    | < 0.5  | 71           | 1070   | 2      | 23     | 92     | 124    | 7.19   | 231    | < 10   | 905    | 0.9    | < 2    | 0.14   | 13     | 75     | 5.85   | 20     | 5      | 1.14   | < 10   |
| GXR-6 Cert                 |       | 1.30   | 1.00   | 66.0         | 1010   | 2.40   | 27.0   | 101    | 118    | 17.7   | 330    | 9.80   | 1300   | 1.40   | 0.290  | 0.180  | 13.8   | 96.0   | 5.58   | 35.0   | 0.0680 | 1.87   | 13.9   |
| SdAR-M2<br>(U.S.G.S.) Meas |       |        | 5.2    | 231          |        | 13     | 42     | 812    | 831    |        |        |        | 142    | 5.2    | < 2    |        | 13     | 10     |        | < 10   | 1      |        | 42     |
| SdAR-M2<br>(U.S.G.S.) Cert |       |        | 5.1    | 236.00<br>00 |        | 13.3   | 48.8   | 808    | 760    |        |        |        | 990    | 6.6    | 1.05   |        | 12.4   | 49.6   |        | 17.6   | 1.44   |        | 46.6   |
| OREAS 251 Meas             | 502   |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 251 Cert             | 504   |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 254 Meas             | 2480  |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 254 Cert             | 2550  |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 1 Orig            | < 5   |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 1 Dup             | < 5   |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 4 Orig            |       | 0.2    | < 0.5  | 2            | 640    | < 1    | 706    | 5      | 68     | 3.49   | 11     | < 10   | 14     | 1.7    | < 2    | 0.57   | 55     | 1010   | 10.9   | 30     | < 1    | 0.01   | 15     |
| SAMPLE # 4 Dup             |       | < 0.2  | < 0.5  | 2            | 652    | < 1    | 727    | 2      | 70     | 3.52   | 8      | < 10   | 12     | 1.7    | < 2    | 0.58   | 57     | 1030   | 11.1   | 30     | < 1    | 0.01   | 16     |
| Method Blank               |       | < 0.2  | < 0.5  | < 1          | < 5    | < 1    | < 1    | < 2    | < 2    | < 0.01 | < 2    | < 10   | < 10   | < 0.5  | < 2    | < 0.01 | < 1    | < 1    | < 0.01 | < 10   | < 1    | < 0.01 | < 10   |
| Method Blank               |       | < 0.2  | < 0.5  | < 1          | < 5    | < 1    | < 1    | < 2    | < 2    | < 0.01 | < 2    | < 10   | < 10   | < 0.5  | < 2    | < 0.01 | < 1    | < 1    | < 0.01 | < 10   | < 1    | < 0.01 | < 10   |
| Method Blank               |       | < 0.2  | < 0.5  | < 1          | < 5    | < 1    | < 1    | < 2    | < 2    | < 0.01 | < 2    | < 10   | < 10   | < 0.5  | < 2    | < 0.01 | < 1    | < 1    | < 0.01 | < 10   | < 1    | < 0.01 | < 10   |
| Method Blank               |       | < 0.2  | < 0.5  | < 1          | < 5    | < 1    | < 1    | < 2    | < 2    | < 0.01 | < 2    | < 10   | < 10   | < 0.5  | < 2    | < 0.01 | < 1    | < 1    | < 0.01 | < 10   | < 1    | < 0.01 | < 10   |
| Method Blank               |       | < 0.2  | < 0.5  | < 1          | < 5    | < 1    | < 1    | < 2    | < 2    | < 0.01 | < 2    | < 10   | < 10   | < 0.5  | < 2    | < 0.01 | < 1    | < 1    | < 0.01 | < 10   | < 1    | < 0.01 | < 10   |
| Method Blank               | < 5   |        |        |              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

| Analyte Symbol             | Mg     | Na     | P       | S      | Sb     | Sc     | Sr     | Ti     | Th     | Te     | Tl     | U      | V      | W      | Y      | Zr     |
|----------------------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol                | %      | %      | %       | %      | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit                | 0.01   | 0.001  | 0.001   | 0.01   | 2      | 1      | 1      | 0.01   | 20     | 1      | 2      | 10     | 1      | 10     | 1      | 1      |
| Method Code                | AR-ICP | AR-ICP | AR-ICP  | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| GXR-1 Meas                 | 0.14   | 0.054  | 0.046   | 0.22   | 84     | 1      | 194    | < 0.01 | < 20   | 15     | < 2    | 32     | 74     | 174    | 26     | 14     |
| GXR-1 Cert                 | 0.217  | 0.0520 | 0.0650  | 0.257  | 122    | 1.58   | 275    | 0.036  | 2.44   | 13.0   | 0.390  | 34.9   | 80.0   | 164    | 32.0   | 38.0   |
| GXR-1 Meas                 | 0.14   | 0.052  | 0.045   | 0.20   | 84     | 1      | 188    | < 0.01 | < 20   | 16     | < 2    | 34     | 75     | 170    | 25     | 13     |
| GXR-1 Cert                 | 0.217  | 0.0520 | 0.0650  | 0.257  | 122    | 1.58   | 275    | 0.036  | 2.44   | 13.0   | 0.390  | 34.9   | 80.0   | 164    | 32.0   | 38.0   |
| GXR-1 Meas                 | 0.14   | 0.048  | 0.042   | 0.20   | 89     | 1      | 168    | < 0.01 | < 20   | 17     | < 2    | 35     | 75     | 166    | 25     | 13     |
| GXR-1 Cert                 | 0.217  | 0.0520 | 0.0650  | 0.257  | 122    | 1.58   | 275    | 0.036  | 2.44   | 13.0   | 0.390  | 34.9   | 80.0   | 164    | 32.0   | 38.0   |
| GXR-4 Meas                 | 1.59   | 0.138  | 0.119   | 1.77   | 3      | 6      | 71     | 0.12   | < 20   | 7      | < 2    | < 10   | 75     | 13     | 11     | 9      |
| GXR-4 Cert                 | 1.66   | 0.564  | 0.120   | 1.77   | 4.80   | 7.70   | 221    | 0.29   | 22.5   | 0.970  | 3.20   | 6.20   | 87.0   | 30.8   | 14.0   | 186    |
| GXR-4 Meas                 | 1.59   | 0.141  | 0.120   | 1.78   | 7      | 6      | 72     | 0.12   | < 20   | < 1    | < 2    | < 10   | 76     | 13     | 11     | 9      |
| GXR-4 Cert                 | 1.66   | 0.564  | 0.120   | 1.77   | 4.80   | 7.70   | 221    | 0.29   | 22.5   | 0.970  | 3.20   | 6.20   | 87.0   | 30.8   | 14.0   | 186    |
| GXR-4 Meas                 | 1.60   | 0.133  | 0.117   | 1.79   | 2      | 6      | 68     | 0.11   | < 20   | 1      | < 2    | < 10   | 76     | 12     | 11     | 8      |
| GXR-4 Cert                 | 1.66   | 0.564  | 0.120   | 1.77   | 4.80   | 7.70   | 221    | 0.29   | 22.5   | 0.970  | 3.20   | 6.20   | 87.0   | 30.8   | 14.0   | 186    |
| GXR-6 Meas                 | 0.43   | 0.086  | 0.033   | 0.01   | 3      | 18     | 28     |        | < 20   | 2      | 3      | < 10   | 170    | < 10   | 5      | 7      |
| GXR-6 Cert                 | 0.609  | 0.104  | 0.0350  | 0.0160 | 3.60   | 27.6   | 35.0   |        | 5.30   | 0.0180 | 2.20   | 1.54   | 186    | 1.90   | 14.0   | 110    |
| GXR-6 Meas                 | 0.42   | 0.085  | 0.033   | 0.01   | 3      | 18     | 27     |        | < 20   | < 1    | < 2    | < 10   | 167    | < 10   | 5      | 8      |
| GXR-6 Cert                 | 0.609  | 0.104  | 0.0350  | 0.0160 | 3.60   | 27.6   | 35.0   |        | 5.30   | 0.0180 | 2.20   | 1.54   | 186    | 1.90   | 14.0   | 110    |
| GXR-6 Meas                 | 0.42   | 0.083  | 0.033   | 0.01   | 3      | 18     | 27     |        | < 20   | < 1    | < 2    | < 10   | 166    | < 10   | 5      | 8      |
| GXR-6 Cert                 | 0.609  | 0.104  | 0.0350  | 0.0160 | 3.60   | 27.6   | 35.0   |        | 5.30   | 0.0180 | 2.20   | 1.54   | 186    | 1.90   | 14.0   | 110    |
| SdAR-M2<br>(U.S.G.S.) Meas |        |        |         |        |        | 2      | 22     |        | < 20   |        |        | < 10   | 19     | < 10   | 19     | 8      |
| SdAR-M2<br>(U.S.G.S.) Cert |        |        |         |        |        | 4.1    | 144    |        | 14.2   |        |        | 2.53   | 25.2   | 2.8    | 32.7   | 259    |
| OREAS 251 Meas             |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 251 Cert             |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 254 Meas             |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OREAS 254 Cert             |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 1 Orig            |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 1 Dup             |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SAMPLE # 4 Orig            | 5.29   | 0.022  | 0.051   | 0.23   | 4      | 7      | 4      | 0.32   | < 20   | 4      | < 2    | < 10   | 133    | < 10   | 10     | 30     |
| SAMPLE # 4 Dup             | 5.36   | 0.020  | 0.052   | 0.26   | 6      | 8      | 4      | 0.32   | < 20   | < 1    | < 2    | < 10   | 133    | < 10   | 10     | 28     |
| Method Blank               | < 0.01 | 0.011  | < 0.001 | < 0.01 | < 2    | < 1    | < 1    | < 0.01 | < 20   | < 1    | < 2    | < 10   | < 1    | < 10   | < 1    | < 1    |
| Method Blank               | < 0.01 | 0.011  | < 0.001 | < 0.01 | < 2    | < 1    | < 1    | < 0.01 | < 20   | < 1    | < 2    | < 10   | < 1    | < 10   | < 1    | < 1    |
| Method Blank               | < 0.01 | 0.011  | < 0.001 | < 0.01 | < 2    | < 1    | < 1    | < 0.01 | < 20   | < 1    | < 2    | < 10   | < 1    | < 10   | < 1    | < 1    |
| Method Blank               | < 0.01 | 0.011  | < 0.001 | < 0.01 | < 2    | < 1    | < 1    | < 0.01 | < 20   | 1      | < 2    | < 10   | < 1    | < 10   | < 1    | < 1    |
| Method Blank               | < 0.01 | 0.010  | < 0.001 | < 0.01 | < 2    | < 1    | < 1    | < 0.01 | < 20   | < 1    | < 2    | < 10   | < 1    | < 10   | < 1    | < 1    |
| Method Blank               |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |