



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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To: **ARCUS DEVELOPMENT GROUP**  
**510 WEST HASTINGS ST.**  
**VANCOUVER BC V6B 1L8**

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Plus Appendix Pages  
Finalized Date: 7-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183033**

Project: Dan Man

P.O. No.: 1006216-Barch 5

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2017.

The following have access to data associated with this certificate:

IAN TALBOT

WILLIAM WENGZYNOWSK

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI-21   | Received Sample Weight         |
| LOG-22   | Sample login - Rcd w/o BarCode |
| BAG-01   | Bulk Master for Storage        |
| LOG-23   | Pulp Login - Rcvd with Barcode |
| CRU-QC   | Crushing QC Test               |
| PUL-QC   | Pulverizing QC Test            |
| CRU-31   | Fine crushing - 70% <2mm       |
| SPL-21   | Split sample - riffle splitter |
| PUL-32   | Pulverize 1000g to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                   | INSTRUMENT |
|-----------|-------------------------------|------------|
| Au-ICP21  | Au 30g FA ICP-AES Finish      | ICP-AES    |
| ME-ICP41a | High Grade Aqua Regia ICP-AES | ICP-AES    |

To: **ARCUS DEVELOPMENT GROUP**  
**ATTN: IAN TALBOT**  
**510 WEST HASTINGS ST.**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH17183033**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg | Au-ICP21<br>Au<br>ppm | ME-ICP41a<br>Ag<br>ppm | ME-ICP41a<br>Al<br>% | ME-ICP41a<br>As<br>ppm | ME-ICP41a<br>Ba<br>ppm | ME-ICP41a<br>Be<br>ppm | ME-ICP41a<br>Bi<br>ppm | ME-ICP41a<br>Ca<br>% | ME-ICP41a<br>Cd<br>ppm | ME-ICP41a<br>Co<br>ppm | ME-ICP41a<br>Cr<br>ppm | ME-ICP41a<br>Cu<br>ppm | ME-ICP41a<br>Fe<br>% | ME-ICP41a<br>Ga<br>ppm |
|--------------------|-----------------------------------|---------------------------|-----------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|
|                    |                                   | 0.02                      | 0.001                 | 1                      | 0.05                 | 10                     | 50                     | 5                      | 10                     | 0.05                 | 5                      | 5                      | 5                      | 5                      | 0.05                 | 50                     |
| W590145            |                                   | 3.02                      | 0.080                 | <1                     | 0.48                 | 200                    | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 8                      | 8                      | 0.76                 | <50                    |
| W590146            |                                   | 3.20                      | 0.014                 | <1                     | 2.01                 | 20                     | 160                    | <5                     | <10                    | <0.05                | <5                     | 21                     | 71                     | 10                     | 3.72                 | <50                    |
| W590147            |                                   | 3.18                      | 0.050                 | <1                     | 0.32                 | 40                     | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 10                     | 10                     | 0.70                 | <50                    |
| W590148            |                                   | 3.22                      | 0.123                 | 1                      | 0.37                 | 60                     | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 10                     | 8                      | 0.72                 | <50                    |
| W590149            |                                   | 2.90                      | 0.050                 | <1                     | 0.36                 | 80                     | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 11                     | 6                      | 0.60                 | <50                    |
| W590150            |                                   | 3.00                      | 0.034                 | <1                     | 0.35                 | 220                    | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 9                      | 5                      | 0.68                 | <50                    |
| W590151            |                                   | 2.36                      | 0.002                 | <1                     | <0.05                | 10                     | <50                    | <5                     | <10                    | 21.3                 | <5                     | <5                     | <5                     | <5                     | 0.45                 | <50                    |
| W590152            |                                   | 3.00                      | 0.016                 | <1                     | 0.99                 | 90                     | 60                     | <5                     | <10                    | 0.11                 | <5                     | 15                     | 92                     | 11                     | 2.09                 | <50                    |
| W590153            |                                   | 3.50                      | 0.572                 | <1                     | 0.60                 | 740                    | <50                    | <5                     | <10                    | 0.06                 | <5                     | 7                      | 39                     | 15                     | 2.08                 | <50                    |
| W590154            |                                   | 3.42                      | 0.016                 | 1                      | 0.50                 | 50                     | <50                    | <5                     | <10                    | 0.44                 | <5                     | <5                     | 9                      | 13                     | 0.71                 | <50                    |
| W590155            |                                   | 3.44                      | 0.581                 | <1                     | 0.67                 | 2960                   | 50                     | <5                     | <10                    | 0.22                 | <5                     | 20                     | 48                     | 10                     | 3.05                 | <50                    |
| W590156            |                                   | 3.52                      | 0.033                 | <1                     | 0.37                 | 220                    | <50                    | <5                     | <10                    | 0.46                 | <5                     | <5                     | 10                     | <5                     | 0.63                 | <50                    |
| W590157            |                                   | 3.44                      | 0.033                 | <1                     | 0.43                 | 80                     | <50                    | <5                     | <10                    | 0.25                 | <5                     | <5                     | 10                     | <5                     | 0.67                 | <50                    |
| W590158            |                                   | 3.48                      | 0.030                 | <1                     | 0.35                 | 50                     | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 10                     | <5                     | 0.57                 | <50                    |
| W590159            |                                   | 3.72                      | 0.001                 | <1                     | 0.27                 | 10                     | <50                    | <5                     | <10                    | <0.05                | <5                     | <5                     | 11                     | <5                     | 0.57                 | <50                    |
| W590160            |                                   | 3.74                      | <0.001                | <1                     | 0.32                 | <10                    | <50                    | <5                     | <10                    | 0.35                 | <5                     | <5                     | 11                     | <5                     | 0.70                 | <50                    |
| W590161            |                                   | 3.70                      | 0.001                 | <1                     | 0.31                 | 10                     | <50                    | <5                     | <10                    | 0.31                 | <5                     | <5                     | 10                     | <5                     | 0.65                 | <50                    |
| W590162            |                                   | 3.66                      | <0.001                | 1                      | 0.30                 | 10                     | <50                    | <5                     | <10                    | 0.29                 | <5                     | <5                     | 9                      | <5                     | 0.58                 | <50                    |
| W590163            |                                   | 3.96                      | <0.001                | <1                     | 0.41                 | <10                    | <50                    | <5                     | <10                    | 0.06                 | <5                     | <5                     | 8                      | <5                     | 0.62                 | <50                    |
| W590164            |                                   | 3.56                      | 0.015                 | <1                     | 0.30                 | 30                     | <50                    | <5                     | <10                    | 0.28                 | <5                     | <5                     | 7                      | <5                     | 0.61                 | <50                    |
| W590165            |                                   | 3.62                      | 0.020                 | <1                     | 0.35                 | 10                     | <50                    | <5                     | <10                    | 0.67                 | <5                     | <5                     | 9                      | <5                     | 0.56                 | <50                    |
| W590166            |                                   | 3.62                      | 0.013                 | <1                     | 0.33                 | 10                     | <50                    | <5                     | <10                    | 1.95                 | <5                     | <5                     | 9                      | <5                     | 0.48                 | <50                    |
| W590167            |                                   | 3.64                      | 0.005                 | 1                      | 0.29                 | 20                     | <50                    | <5                     | <10                    | 0.48                 | <5                     | <5                     | 8                      | <5                     | 0.59                 | <50                    |
| W590168            |                                   | 3.60                      | 0.006                 | <1                     | 0.36                 | 20                     | <50                    | <5                     | <10                    | 0.63                 | <5                     | <5                     | 9                      | <5                     | 0.59                 | <50                    |
| W590169            |                                   | 3.60                      | 0.005                 | 1                      | 0.50                 | 20                     | <50                    | <5                     | <10                    | 0.90                 | <5                     | <5                     | 9                      | <5                     | 0.67                 | <50                    |
| W590170            |                                   | 3.54                      | <0.001                | <1                     | 0.32                 | <10                    | <50                    | <5                     | <10                    | 0.77                 | <5                     | <5                     | 10                     | <5                     | 0.48                 | <50                    |
| W590171            |                                   | 3.64                      | <0.001                | <1                     | 0.29                 | <10                    | <50                    | <5                     | <10                    | 0.56                 | <5                     | <5                     | 12                     | <5                     | 0.63                 | <50                    |
| W590172            |                                   | 3.48                      | 0.001                 | <1                     | 0.40                 | <10                    | <50                    | <5                     | <10                    | 1.24                 | <5                     | <5                     | 9                      | 6                      | 0.55                 | <50                    |
| W590173            |                                   | 3.72                      | <0.001                | <1                     | 1.62                 | <10                    | <50                    | <5                     | 10                     | 2.51                 | <5                     | 16                     | 16                     | 6                      | 3.09                 | <50                    |
| W590174            |                                   | 2.50                      | 0.010                 | <1                     | 0.59                 | 30                     | <50                    | <5                     | 20                     | 0.34                 | <5                     | <5                     | 9                      | <5                     | 1.47                 | <50                    |
| W590175            |                                   | 0.32                      | 1.355                 | 32                     | 1.18                 | 510                    | 620                    | <5                     | <10                    | 0.25                 | 32                     | 7                      | 12                     | 133                    | 5.35                 | <50                    |
| W590176            |                                   | 3.44                      | 0.007                 | <1                     | 0.39                 | 20                     | <50                    | <5                     | 10                     | 0.05                 | <5                     | <5                     | 9                      | <5                     | 0.61                 | <50                    |
| W590177            |                                   | 3.60                      | 0.001                 | <1                     | 0.30                 | <10                    | <50                    | <5                     | 10                     | <0.05                | <5                     | <5                     | 11                     | <5                     | 0.53                 | <50                    |
| W590178            |                                   | 3.62                      | 0.001                 | <1                     | 0.42                 | <10                    | <50                    | <5                     | 10                     | <0.05                | <5                     | 5                      | 8                      | <5                     | 0.78                 | <50                    |
| W590179            |                                   | 3.70                      | <0.001                | <1                     | 0.32                 | <10                    | <50                    | <5                     | 10                     | <0.05                | <5                     | <5                     | 10                     | 7                      | 0.54                 | <50                    |
| W590180            |                                   | 3.80                      | <0.001                | <1                     | 0.31                 | 10                     | <50                    | <5                     | 10                     | <0.05                | <5                     | <5                     | 8                      | 8                      | 0.47                 | <50                    |



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**CERTIFICATE OF ANALYSIS WH17183033**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a  |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
|                    |                                   | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr        | Th         |
|                    |                                   | ppm<br>5  | %<br>0.05 | ppm<br>50 | %<br>0.05 | ppm<br>30 | ppm<br>5  | %<br>0.05 | ppm<br>5  | ppm<br>50 | ppm<br>10 | %<br>0.05 | ppm<br>10 | ppm<br>5  | ppm<br>5  | ppm<br>100 |
| W590145            |                                   | <5        | 0.18      | <50       | <0.05     | 60        | <5        | <0.05     | 6         | <50       | 10        | <0.05     | <10       | <5        | 9         | <100       |
| W590146            |                                   | <5        | 1.10      | <50       | 1.07      | 1550      | <5        | <0.05     | 24        | 310       | 10        | <0.05     | 20        | 13        | 110       | <100       |
| W590147            |                                   | <5        | 0.13      | <50       | <0.05     | 100       | 5         | <0.05     | <5        | <50       | <10       | <0.05     | <10       | <5        | 9         | <100       |
| W590148            |                                   | <5        | 0.16      | <50       | <0.05     | 110       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | <5        | <100       |
| W590149            |                                   | <5        | 0.11      | <50       | <0.05     | 60        | <5        | <0.05     | 5         | <50       | 20        | <0.05     | <10       | <5        | 10        | <100       |
| W590150            |                                   | <5        | 0.14      | <50       | <0.05     | 70        | <5        | <0.05     | 10        | 50        | <10       | <0.05     | 10        | <5        | 10        | <100       |
| W590151            |                                   | <5        | <0.05     | <50       | 11.90     | 210       | <5        | <0.05     | <5        | 170       | <10       | <0.05     | <10       | <5        | 28        | <100       |
| W590152            |                                   | <5        | 0.52      | <50       | 0.45      | 1210      | <5        | <0.05     | 61        | 340       | 10        | <0.05     | <10       | 5         | 73        | <100       |
| W590153            |                                   | <5        | 0.38      | <50       | 0.09      | 570       | <5        | <0.05     | 34        | 260       | 20        | 0.05      | 10        | <5        | 108       | <100       |
| W590154            |                                   | <5        | 0.19      | <50       | 0.20      | 140       | <5        | <0.05     | 8         | 70        | 20        | <0.05     | <10       | <5        | 26        | <100       |
| W590155            |                                   | <5        | 0.37      | <50       | 0.11      | 810       | <5        | <0.05     | 60        | 510       | 20        | 0.56      | 10        | 5         | 164       | <100       |
| W590156            |                                   | <5        | 0.20      | <50       | 0.14      | 150       | <5        | <0.05     | 5         | <50       | 10        | <0.05     | <10       | <5        | 31        | <100       |
| W590157            |                                   | <5        | 0.20      | <50       | 0.05      | 150       | <5        | <0.05     | 6         | <50       | 20        | <0.05     | <10       | <5        | 19        | <100       |
| W590158            |                                   | <5        | 0.15      | <50       | <0.05     | 150       | <5        | <0.05     | <5        | <50       | <10       | <0.05     | <10       | <5        | 10        | <100       |
| W590159            |                                   | <5        | 0.17      | <50       | <0.05     | 100       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | 6         | <100       |
| W590160            |                                   | <5        | 0.17      | <50       | <0.05     | 130       | <5        | <0.05     | <5        | <50       | <10       | <0.05     | <10       | <5        | 12        | <100       |
| W590161            |                                   | <5        | 0.18      | <50       | 0.05      | 130       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | 7         | <100       |
| W590162            |                                   | <5        | 0.18      | <50       | <0.05     | 120       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | 7         | <100       |
| W590163            |                                   | <5        | 0.22      | <50       | <0.05     | 100       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | <5        | <100       |
| W590164            |                                   | <5        | 0.17      | <50       | 0.09      | 100       | 19        | <0.05     | <5        | <50       | <10       | <0.05     | <10       | <5        | 12        | <100       |
| W590165            |                                   | <5        | 0.25      | <50       | 0.05      | 170       | 25        | <0.05     | <5        | <50       | <10       | <0.05     | <10       | <5        | 37        | <100       |
| W590166            |                                   | <5        | 0.16      | <50       | 0.10      | 190       | 9         | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | 78        | <100       |
| W590167            |                                   | <5        | 0.17      | <50       | 0.05      | 170       | 10        | <0.05     | <5        | <50       | 40        | <0.05     | <10       | <5        | 15        | <100       |
| W590168            |                                   | <5        | 0.19      | <50       | <0.05     | 140       | <5        | <0.05     | <5        | <50       | 10        | <0.05     | <10       | <5        | 15        | <100       |
| W590169            |                                   | <5        | 0.25      | <50       | <0.05     | 200       | 6         | <0.05     | <5        | <50       | 20        | <0.05     | <10       | <5        | 20        | <100       |
| W590170            |                                   | <5        | 0.15      | <50       | 0.05      | 140       | <5        | <0.05     | 5         | <50       | 10        | <0.05     | 10        | <5        | 21        | <100       |
| W590171            |                                   | <5        | 0.19      | <50       | 0.08      | 140       | 5         | <0.05     | <5        | <50       | 20        | <0.05     | <10       | <5        | 12        | <100       |
| W590172            |                                   | <5        | 0.20      | <50       | 0.08      | 170       | <5        | 0.06      | 5         | <50       | 10        | <0.05     | <10       | <5        | 43        | <100       |
| W590173            |                                   | <5        | 1.21      | <50       | 1.31      | 740       | <5        | <0.05     | 6         | 690       | <10       | 0.05      | 10        | 10        | 72        | <100       |
| W590174            |                                   | <5        | 0.19      | <50       | 0.06      | 300       | <5        | <0.05     | <5        | 60        | <10       | <0.05     | 70        | <5        | 26        | <100       |
| W590175            |                                   | <5        | 0.50      | <50       | 0.09      | 1010      | 5         | <0.05     | 6         | 1400      | 3220      | 0.36      | 30        | 5         | 155       | <100       |
| W590176            |                                   | <5        | 0.16      | <50       | <0.05     | 120       | <5        | <0.05     | <5        | 50        | 10        | <0.05     | 10        | <5        | 13        | <100       |
| W590177            |                                   | <5        | 0.15      | <50       | <0.05     | 80        | <5        | 0.05      | <5        | <50       | <10       | <0.05     | <10       | <5        | 7         | <100       |
| W590178            |                                   | <5        | 0.18      | <50       | <0.05     | 140       | <5        | 0.05      | <5        | <50       | 10        | <0.05     | <10       | <5        | 8         | <100       |
| W590179            |                                   | <5        | 0.16      | <50       | <0.05     | 60        | <5        | <0.05     | <5        | <50       | <10       | <0.05     | 20        | <5        | 5         | <100       |
| W590180            |                                   | <5        | 0.19      | <50       | <0.05     | 30        | 5         | 0.05      | <5        | <50       | 20        | <0.05     | 10        | <5        | 8         | <100       |



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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | %<br>0.05 | ppm<br>50 | ppm<br>50 | ppm<br>5  | ppm<br>50 | ppm<br>10 |
| W590145            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590146            |                                   | 0.10      | <50       | <50       | 98        | <50       | 90        |
| W590147            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590148            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590149            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590150            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590151            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590152            |                                   | <0.05     | <50       | <50       | 29        | <50       | 40        |
| W590153            |                                   | <0.05     | <50       | <50       | 14        | <50       | 30        |
| W590154            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590155            |                                   | <0.05     | <50       | <50       | 22        | <50       | 30        |
| W590156            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590157            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590158            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590159            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590160            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590161            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590162            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590163            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590164            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590165            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590166            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590167            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590168            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590169            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590170            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590171            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590172            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590173            |                                   | 0.10      | <50       | <50       | 69        | <50       | 40        |
| W590174            |                                   | <0.05     | <50       | <50       | 5         | <50       | 10        |
| W590175            |                                   | <0.05     | <50       | <50       | 58        | <50       | 2200      |
| W590176            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590177            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590178            |                                   | <0.05     | <50       | <50       | <5        | <50       | 10        |
| W590179            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |
| W590180            |                                   | <0.05     | <50       | <50       | <5        | <50       | <10       |



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: ARCUS DEVELOPMENT GROUP  
510 WEST HASTINGS ST.  
VANCOUVER BC V6B 1L8

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Account: DEVARC

Project: Dan Man

**CERTIFICATE OF ANALYSIS WH17183033**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

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Au-ICP21

BAG-01

CRU-31

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21