



ALS Canada Ltd.

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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: 15-OCT-2017
Account: DEVARC

CERTIFICATE WH17186527

Project: Dan Man

P.O. No.: 1006216-Batch 28

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-SEP-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 |
| 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
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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 WH17186527

| Sample Description | Method Analyte Units LOR | WEI-21 Recvd Wt. kg | Au-ICP21 Au ppm | ME-ICP41a Ag ppm | ME-ICP41a Al % | ME-ICP41a As ppm | ME-ICP41a Ba ppm | ME-ICP41a Be ppm | ME-ICP41a Bi ppm | ME-ICP41a Ca % | ME-ICP41a Cd ppm | ME-ICP41a Co ppm | ME-ICP41a Cr ppm | ME-ICP41a Cu ppm | ME-ICP41a Fe % | ME-ICP41a Ga ppm |
|--------------------|-----------------------------------|---------------------------|-----------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|
| | | 0.02 | 0.001 | 1 | 0.05 | 10 | 50 | 5 | 10 | 0.05 | 5 | 5 | 5 | 5 | 0.05 | 50 |
| W636473 | | 2.64 | <0.001 | 1 | 0.87 | <10 | 80 | <5 | 10 | 0.18 | <5 | <5 | 15 | <5 | 1.11 | <50 |
| W636474 | | 2.44 | <0.001 | 1 | 0.83 | 10 | 100 | <5 | <10 | 0.16 | <5 | <5 | 14 | 7 | 1.34 | <50 |
| W636475 | | 2.38 | <0.001 | 2 | 1.03 | 20 | 90 | <5 | 10 | 0.14 | <5 | <5 | 13 | <5 | 1.21 | <50 |
| W636476 | | 2.42 | <0.001 | 1 | 1.14 | <10 | 150 | <5 | 10 | 0.21 | <5 | 9 | 13 | 9 | 1.63 | <50 |
| W636477 | | 2.54 | <0.001 | 1 | 1.93 | 10 | 250 | <5 | 10 | 1.24 | <5 | 16 | 69 | 32 | 2.65 | <50 |
| W636478 | | 2.68 | <0.001 | 1 | 2.29 | 10 | 240 | <5 | <10 | 2.24 | <5 | 18 | 74 | 25 | 2.67 | <50 |
| W636479 | | 2.28 | 0.004 | 1 | 1.33 | 10 | 140 | <5 | <10 | 1.67 | <5 | 9 | 28 | 7 | 1.92 | <50 |
| W636480 | | 2.80 | <0.001 | 1 | 1.39 | <10 | 120 | <5 | 10 | 0.85 | <5 | 6 | 43 | 8 | 1.91 | <50 |
| W636481 | | 2.70 | 0.001 | 1 | 3.11 | <10 | 210 | <5 | <10 | 1.58 | <5 | 23 | 192 | 6 | 4.49 | <50 |
| W636482 | | 2.98 | <0.001 | 1 | 2.24 | <10 | 130 | <5 | 20 | 2.36 | <5 | 14 | 148 | 6 | 2.87 | <50 |
| W636483 | | 2.78 | <0.001 | 1 | 1.69 | 10 | 110 | <5 | <10 | 1.54 | <5 | 11 | 98 | 29 | 2.44 | <50 |
| W636484 | | 2.62 | <0.001 | 1 | 3.21 | 20 | 110 | <5 | <10 | 3.06 | <5 | 19 | 162 | 7 | 4.72 | <50 |
| W636485 | | 3.08 | <0.001 | 1 | 2.89 | 20 | 120 | <5 | <10 | 2.88 | <5 | 17 | 139 | 8 | 3.73 | <50 |
| W636486 | | 2.58 | <0.001 | 1 | 0.96 | 10 | 100 | <5 | 10 | 1.27 | <5 | <5 | 19 | 13 | 1.48 | <50 |
| W636487 | | 3.04 | <0.001 | 1 | 1.28 | 10 | 190 | <5 | <10 | 2.06 | <5 | 6 | 15 | 11 | 2.14 | <50 |
| W636488 | | 0.32 | 1.335 | 31 | 1.25 | 520 | 650 | <5 | <10 | 0.27 | 31 | <5 | 13 | 135 | 5.31 | <50 |
| W636489 | | 2.84 | <0.001 | 1 | 1.12 | <10 | 120 | <5 | 10 | 1.62 | <5 | 7 | 16 | 6 | 1.80 | <50 |
| W636490 | | 2.36 | <0.001 | 1 | 1.30 | 10 | 160 | <5 | 10 | 1.61 | <5 | 7 | 18 | 6 | 1.95 | <50 |
| W636491 | | 2.78 | <0.001 | 1 | 1.22 | <10 | 150 | <5 | <10 | 1.08 | <5 | 7 | 35 | 8 | 1.81 | <50 |
| W636492 | | 3.08 | <0.001 | 1 | 1.26 | 10 | 180 | <5 | <10 | 1.37 | <5 | 8 | 22 | 5 | 1.84 | <50 |
| W636493 | | 2.78 | <0.001 | 1 | 1.54 | 20 | 330 | <5 | <10 | 1.11 | <5 | 9 | 18 | 12 | 2.40 | <50 |
| W636494 | | 2.92 | <0.001 | <1 | 1.78 | <10 | 170 | <5 | <10 | 1.20 | <5 | 8 | 33 | 16 | 2.34 | <50 |
| W636495 | | 2.54 | <0.001 | 1 | 2.98 | <10 | 320 | <5 | 10 | 2.69 | <5 | 30 | 438 | 23 | 3.54 | <50 |
| W636496 | | 2.78 | <0.001 | 1 | 2.47 | 10 | 240 | <5 | <10 | 3.31 | <5 | 24 | 243 | 15 | 3.33 | <50 |
| W636497 | | 2.86 | <0.001 | 1 | 1.41 | <10 | 220 | <5 | <10 | 1.14 | <5 | 9 | 15 | 11 | 1.93 | <50 |
| W636498 | | 3.00 | <0.001 | 1 | 1.44 | 10 | 140 | <5 | <10 | 0.85 | <5 | 15 | 18 | 6 | 2.28 | <50 |
| W636499 | | 2.96 | <0.001 | 1 | 2.13 | 20 | 250 | <5 | 10 | 2.21 | <5 | 12 | 141 | 5 | 3.54 | <50 |
| W636500 | | 2.72 | <0.001 | <1 | 1.96 | <10 | 320 | <5 | 20 | 2.14 | <5 | 11 | 22 | 6 | 3.09 | <50 |
| W636501 | | 3.04 | <0.001 | 1 | 1.28 | <10 | 100 | <5 | <10 | 0.58 | <5 | 5 | 17 | 7 | 2.03 | <50 |
| W636502 | | 3.00 | 0.002 | 2 | 1.14 | 80 | 60 | <5 | 10 | 0.75 | <5 | 7 | 18 | 19 | 1.99 | <50 |
| W636503 | | 3.54 | <0.001 | 1 | 0.52 | <10 | <50 | <5 | 10 | 0.05 | <5 | <5 | 9 | <5 | 0.67 | <50 |
| W636504 | | 2.52 | <0.001 | 1 | 0.59 | 20 | <50 | <5 | <10 | 0.05 | <5 | <5 | 10 | <5 | 0.83 | <50 |
| W636505 | | 2.34 | <0.001 | 1 | <0.05 | <10 | <50 | <5 | 10 | 21.1 | <5 | <5 | <5 | <5 | 0.43 | <50 |
| W636506 | | 2.84 | <0.001 | 1 | 0.74 | <10 | 120 | <5 | 10 | 0.91 | <5 | <5 | 9 | <5 | 1.01 | <50 |
| W636507 | | 2.70 | <0.001 | 1 | 1.56 | <10 | 120 | <5 | 20 | 1.79 | <5 | 14 | 35 | 7 | 2.55 | <50 |
| W636508 | | 3.04 | <0.001 | <1 | 2.03 | 20 | 290 | <5 | <10 | 2.31 | <5 | 17 | 56 | 17 | 2.74 | <50 |



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CERTIFICATE OF ANALYSIS WH17186527

| Sample Description | Method Analyte Units LOR | ME-ICP41a Hg ppm 5 | ME-ICP41a K % 0.05 | ME-ICP41a La ppm 50 | ME-ICP41a Mg % 0.05 | ME-ICP41a Mn ppm 30 | ME-ICP41a Mo ppm 5 | ME-ICP41a Na % 0.05 | ME-ICP41a Ni ppm 5 | ME-ICP41a P ppm 50 | ME-ICP41a Pb ppm 10 | ME-ICP41a S % 0.05 | ME-ICP41a Sb ppm 10 | ME-ICP41a Sc ppm 5 | ME-ICP41a Sr ppm 5 | ME-ICP41a Th ppm 100 |
|--------------------|-----------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-------------------------------|
| W636473 | | <5 | 0.48 | <50 | 0.47 | 160 | <5 | 0.13 | 7 | 390 | <10 | <0.05 | <10 | <5 | 13 | <100 |
| W636474 | | <5 | 0.43 | <50 | 0.47 | 120 | <5 | 0.11 | 5 | 360 | <10 | <0.05 | <10 | <5 | 13 | <100 |
| W636475 | | <5 | 0.54 | <50 | 0.55 | 190 | <5 | 0.12 | 7 | 360 | 10 | <0.05 | <10 | <5 | 13 | <100 |
| W636476 | | <5 | 0.71 | <50 | 0.57 | 200 | <5 | 0.09 | 8 | 430 | 10 | <0.05 | <10 | <5 | 23 | <100 |
| W636477 | | <5 | 0.90 | <50 | 1.51 | 460 | <5 | 0.11 | 25 | 740 | <10 | <0.05 | <10 | 6 | 46 | <100 |
| W636478 | | <5 | 0.97 | <50 | 1.76 | 450 | <5 | 0.07 | 45 | 820 | <10 | <0.05 | <10 | 6 | 64 | <100 |
| W636479 | | <5 | 0.70 | <50 | 0.81 | 460 | <5 | 0.09 | 14 | 500 | 10 | <0.05 | <10 | 6 | 52 | <100 |
| W636480 | | <5 | 0.84 | <50 | 0.97 | 320 | <5 | 0.08 | 18 | 390 | <10 | <0.05 | <10 | 9 | 30 | <100 |
| W636481 | | <5 | 2.26 | <50 | 3.30 | 610 | 5 | 0.08 | 85 | 410 | <10 | <0.05 | <10 | 9 | 76 | <100 |
| W636482 | | <5 | 1.05 | <50 | 2.12 | 470 | <5 | 0.20 | 57 | 500 | <10 | <0.05 | <10 | 11 | 41 | <100 |
| W636483 | | <5 | 0.79 | <50 | 1.48 | 360 | <5 | 0.13 | 41 | 440 | 10 | <0.05 | <10 | 10 | 32 | <100 |
| W636484 | | <5 | 1.44 | <50 | 3.53 | 800 | <5 | 0.08 | 71 | 460 | <10 | <0.05 | <10 | 16 | 48 | <100 |
| W636485 | | <5 | 1.35 | <50 | 2.79 | 640 | 8 | 0.11 | 66 | 410 | <10 | <0.05 | <10 | 13 | 64 | <100 |
| W636486 | | <5 | 0.50 | <50 | 0.52 | 250 | <5 | 0.10 | 8 | 330 | <10 | <0.05 | <10 | 7 | 26 | <100 |
| W636487 | | <5 | 0.85 | <50 | 0.67 | 340 | 11 | 0.09 | 9 | 640 | <10 | <0.05 | 10 | 7 | 22 | <100 |
| W636488 | | <5 | 0.52 | <50 | 0.10 | 1030 | <5 | <0.05 | <5 | 1420 | 3460 | 0.40 | 20 | 5 | 168 | <100 |
| W636489 | | <5 | 0.67 | <50 | 0.53 | 260 | 14 | 0.06 | 8 | 480 | 10 | <0.05 | 10 | 7 | 23 | <100 |
| W636490 | | <5 | 0.86 | <50 | 0.60 | 280 | <5 | 0.07 | 7 | 510 | 10 | <0.05 | <10 | 6 | 25 | <100 |
| W636491 | | <5 | 0.68 | <50 | 0.79 | 210 | 9 | 0.09 | 19 | 490 | <10 | <0.05 | <10 | 8 | 22 | <100 |
| W636492 | | <5 | 0.80 | <50 | 0.83 | 240 | <5 | 0.14 | 17 | 540 | <10 | <0.05 | <10 | 7 | 32 | <100 |
| W636493 | | <5 | 1.03 | <50 | 0.82 | 330 | 5 | 0.09 | 6 | 590 | <10 | <0.05 | 10 | 6 | 27 | <100 |
| W636494 | | 6 | 0.72 | <50 | 1.02 | 310 | 5 | 0.08 | 23 | 570 | <10 | <0.05 | <10 | 8 | 49 | <100 |
| W636495 | | <5 | 2.03 | <50 | 4.27 | 470 | <5 | 0.19 | 247 | 500 | <10 | <0.05 | <10 | 7 | 18 | <100 |
| W636496 | | <5 | 1.30 | <50 | 2.72 | 690 | <5 | 0.14 | 149 | 590 | 10 | <0.05 | <10 | 9 | 40 | <100 |
| W636497 | | <5 | 0.85 | <50 | 0.78 | 240 | <5 | 0.08 | 15 | 560 | 20 | <0.05 | <10 | 5 | 45 | <100 |
| W636498 | | <5 | 0.67 | <50 | 0.79 | 230 | 5 | 0.12 | 12 | 670 | <10 | <0.05 | <10 | 6 | 67 | <100 |
| W636499 | | <5 | 1.75 | <50 | 1.81 | 500 | 6 | 0.05 | 47 | 430 | <10 | <0.05 | 10 | 13 | 35 | <100 |
| W636500 | | <5 | 1.17 | <50 | 1.18 | 420 | <5 | 0.07 | 11 | 840 | <10 | <0.05 | <10 | 11 | 30 | <100 |
| W636501 | | <5 | 0.59 | <50 | 0.54 | 160 | <5 | 0.09 | 10 | 480 | <10 | <0.05 | <10 | 8 | 16 | <100 |
| W636502 | | 6 | 0.35 | <50 | 0.20 | 560 | <5 | <0.05 | 19 | 140 | 10 | <0.05 | <10 | 5 | 33 | <100 |
| W636503 | | <5 | 0.10 | <50 | 0.09 | 100 | <5 | 0.06 | <5 | <50 | <10 | <0.05 | <10 | <5 | 13 | <100 |
| W636504 | | <5 | 0.13 | <50 | 0.09 | 140 | <5 | 0.07 | <5 | 70 | <10 | <0.05 | <10 | <5 | 24 | <100 |
| W636505 | | <5 | <0.05 | <50 | 12.05 | 200 | <5 | <0.05 | <5 | 180 | 10 | <0.05 | <10 | <5 | 25 | <100 |
| W636506 | | <5 | 0.40 | <50 | 0.16 | 290 | <5 | <0.05 | <5 | 180 | 10 | <0.05 | 10 | <5 | 21 | <100 |
| W636507 | | <5 | 0.91 | <50 | 0.82 | 510 | <5 | <0.05 | 14 | 720 | <10 | <0.05 | 10 | 8 | 23 | <100 |
| W636508 | | <5 | 1.34 | <50 | 1.35 | 590 | <5 | <0.05 | 17 | 570 | 10 | <0.05 | <10 | 9 | 32 | <100 |



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CERTIFICATE OF ANALYSIS WH17186527

| Sample Description | Method Analyte Units LOR | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Ti | Ti | U | V | W | Zn |
| | | % | ppm | ppm | ppm | ppm | ppm |
| | | 0.05 | 50 | 50 | 5 | 50 | 10 |
| W636473 | | 0.06 | <50 | <50 | 21 | <50 | 10 |
| W636474 | | 0.05 | <50 | <50 | 26 | <50 | 10 |
| W636475 | | 0.05 | <50 | <50 | 25 | <50 | 10 |
| W636476 | | 0.08 | <50 | <50 | 22 | <50 | 40 |
| W636477 | | 0.32 | <50 | <50 | 56 | <50 | 40 |
| W636478 | | 0.32 | <50 | <50 | 61 | <50 | 40 |
| W636479 | | 0.06 | <50 | <50 | 33 | <50 | 20 |
| W636480 | | 0.08 | <50 | <50 | 44 | <50 | 20 |
| W636481 | | 0.34 | <50 | <50 | 97 | <50 | 50 |
| W636482 | | 0.37 | <50 | <50 | 100 | <50 | 20 |
| W636483 | | 0.25 | <50 | <50 | 69 | <50 | 30 |
| W636484 | | 0.30 | <50 | <50 | 129 | <50 | 60 |
| W636485 | | 0.28 | <50 | <50 | 105 | <50 | 40 |
| W636486 | | 0.05 | <50 | <50 | 23 | <50 | 20 |
| W636487 | | 0.10 | <50 | <50 | 28 | <50 | 30 |
| W636488 | | <0.05 | <50 | <50 | 59 | <50 | 2290 |
| W636489 | | 0.07 | <50 | <50 | 26 | <50 | 10 |
| W636490 | | 0.08 | <50 | <50 | 21 | <50 | 20 |
| W636491 | | 0.10 | <50 | <50 | 34 | <50 | 10 |
| W636492 | | 0.12 | <50 | <50 | 33 | <50 | 10 |
| W636493 | | 0.15 | <50 | <50 | 30 | <50 | 20 |
| W636494 | | 0.10 | <50 | <50 | 41 | <50 | 30 |
| W636495 | | 0.16 | <50 | <50 | 73 | <50 | 50 |
| W636496 | | 0.16 | <50 | <50 | 70 | <50 | 50 |
| W636497 | | 0.11 | <50 | <50 | 22 | <50 | 20 |
| W636498 | | 0.14 | <50 | <50 | 31 | <50 | 20 |
| W636499 | | 0.18 | <50 | <50 | 79 | <50 | 40 |
| W636500 | | 0.13 | <50 | <50 | 72 | <50 | 40 |
| W636501 | | 0.06 | <50 | <50 | 30 | <50 | 20 |
| W636502 | | <0.05 | <50 | <50 | 26 | <50 | 40 |
| W636503 | | <0.05 | <50 | <50 | <5 | <50 | 10 |
| W636504 | | <0.05 | <50 | <50 | 6 | <50 | 10 |
| W636505 | | <0.05 | <50 | <50 | <5 | <50 | 20 |
| W636506 | | <0.05 | <50 | <50 | 7 | <50 | 20 |
| W636507 | | 0.06 | <50 | <50 | 55 | <50 | 50 |
| W636508 | | 0.13 | <50 | <50 | 58 | <50 | 50 |



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CERTIFICATE OF ANALYSIS WH17186527

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21

BAG-01

CRU-31

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21