



BUREAU MINERAL LABORATORIES
VERITAS Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: October 02, 2018
Report Date: November 29, 2018
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI18001046.1

CLIENT JOB INFORMATION

Project: 2018-Stu
Shipment ID:
P.O. Number
Number of Samples: 166

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Vedran Pobric

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|---|--------------|---------------|-----|
| DY060 | 166 | Dry at 60C | | | WHI |
| SS80 | 166 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| SVRJT | 166 | Save all or part of Soil Reject | | | WHI |
| FA330 | 166 | Fire assay fusion Au Pt Pd by ICP-ES | 30 | Completed | VAN |
| EN002 | 166 | Environmental disposal charge-Fire assay lead waste | | | VAN |
| AQ300 | 166 | 1:1:1 Aqua Regia digestion ICP-ES analysis | 0.5 | Completed | VAN |
| SHP01 | 166 | Per sample shipping charges for branch shipments | | | VAN |

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method | Analyte | Unit | MDL | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | | |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|
| | | | | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | | | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | | | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| 2064501 | Soil | | | | 5 | <3 | 2 | <1 | 11 | 4 | 35 | <0.3 | 9 | 6 | 333 | 1.80 | 4 | <2 | 42 | <0.5 | <3 | <3 | 45 | 0.52 |
| 2064502 | Soil | | | | 3 | <3 | <2 | <1 | 11 | 6 | 72 | 0.5 | 12 | 9 | 609 | 2.69 | 5 | 4 | 45 | <0.5 | <3 | <3 | 57 | 0.60 |
| 2064503 | Soil | | | | 7 | <3 | 3 | <1 | 26 | 8 | 40 | <0.3 | 21 | 8 | 311 | 2.44 | 7 | 4 | 39 | <0.5 | <3 | <3 | 54 | 0.50 |
| 2064504 | Soil | | | | 3 | <3 | <2 | <1 | 12 | 6 | 59 | 0.6 | 13 | 9 | 394 | 2.62 | 5 | 3 | 34 | <0.5 | <3 | <3 | 61 | 0.48 |
| 2064505 | Soil | | | | 2 | <3 | <2 | <1 | 14 | 6 | 47 | <0.3 | 11 | 7 | 266 | 2.27 | 5 | <2 | 45 | <0.5 | <3 | <3 | 52 | 0.30 |
| 2064506 | Soil | | | | <2 | <3 | <2 | <1 | 8 | 5 | 87 | <0.3 | 10 | 10 | 438 | 3.06 | 3 | <2 | 42 | <0.5 | <3 | <3 | 66 | 0.45 |
| 2064507 | Soil | | | | 2 | <3 | 3 | <1 | 7 | 9 | 106 | 1.0 | 6 | 15 | 843 | 4.02 | 5 | <2 | 121 | <0.5 | <3 | <3 | 84 | 1.42 |
| 2064508 | Soil | | | | 3 | 5 | 6 | <1 | 5 | 8 | 84 | <0.3 | 7 | 11 | 701 | 3.29 | 4 | <2 | 93 | <0.5 | <3 | <3 | 77 | 0.99 |
| 2064509 | Soil | | | | 13 | <3 | <2 | <1 | 8 | 5 | 47 | 0.5 | 13 | 8 | 281 | 2.41 | 6 | 2 | 24 | <0.5 | <3 | <3 | 58 | 0.32 |
| 2064510 | Soil | | | | 9 | <3 | <2 | <1 | 9 | 5 | 50 | <0.3 | 14 | 8 | 310 | 2.68 | 6 | 3 | 27 | <0.5 | <3 | <3 | 61 | 0.36 |
| 2064511 | Soil | | | | <2 | <3 | <2 | <1 | 8 | 4 | 96 | <0.3 | 11 | 12 | 597 | 3.56 | 4 | <2 | 39 | <0.5 | <3 | <3 | 81 | 0.69 |
| 2064512 | Soil | | | | 2 | <3 | <2 | <1 | 9 | 6 | 59 | 0.5 | 12 | 7 | 318 | 2.37 | 4 | <2 | 39 | <0.5 | <3 | <3 | 54 | 0.32 |
| 2064513 | Soil | | | | 3 | <3 | <2 | <1 | 19 | 6 | 73 | <0.3 | 15 | 8 | 380 | 2.54 | 5 | 2 | 27 | <0.5 | <3 | <3 | 56 | 0.29 |
| 2064514 | Soil | | | | 2 | <3 | <2 | <1 | 22 | 5 | 35 | <0.3 | 16 | 7 | 218 | 2.22 | 7 | <2 | 35 | <0.5 | <3 | <3 | 51 | 0.40 |
| 2064515 | Soil | | | | 2 | <3 | <2 | <1 | 19 | 5 | 56 | 0.5 | 12 | 7 | 252 | 2.58 | 6 | <2 | 74 | <0.5 | <3 | <3 | 61 | 0.34 |
| 2064516 | Soil | | | | 2 | <3 | <2 | <1 | 13 | 6 | 70 | 0.3 | 13 | 9 | 452 | 2.81 | 6 | 2 | 48 | <0.5 | <3 | <3 | 64 | 0.45 |
| 2064517 | Soil | | | | 4 | <3 | <2 | <1 | 21 | 6 | 38 | <0.3 | 16 | 6 | 229 | 2.29 | 8 | 3 | 44 | <0.5 | <3 | <3 | 52 | 0.49 |
| 2064518 | Soil | | | | 5 | <3 | 3 | <1 | 21 | 5 | 28 | <0.3 | 15 | 6 | 378 | 1.67 | 5 | <2 | 58 | <0.5 | <3 | <3 | 37 | 1.04 |
| 2064519 | Soil | | | | 2 | <3 | <2 | <1 | 9 | 8 | 83 | 0.4 | 11 | 9 | 684 | 2.71 | 5 | 3 | 78 | <0.5 | <3 | <3 | 54 | 0.89 |
| 2064520 | Soil | | | | 2 | <3 | <2 | <1 | 8 | 8 | 82 | 0.5 | 10 | 9 | 668 | 2.63 | 4 | 4 | 76 | <0.5 | <3 | <3 | 53 | 0.89 |
| 2064521 | Soil | | | | 3 | <3 | <2 | <1 | 16 | 8 | 52 | 0.6 | 16 | 8 | 379 | 2.96 | 7 | 4 | 39 | <0.5 | <3 | <3 | 68 | 0.30 |
| 2064522 | Soil | | | | 2 | <3 | 2 | <1 | 8 | 7 | 99 | 0.4 | 12 | 12 | 685 | 3.63 | 5 | <2 | 89 | <0.5 | <3 | <3 | 87 | 0.35 |
| 2064523 | Soil | | | | 3 | <3 | <2 | <1 | 17 | 6 | 51 | 0.7 | 17 | 8 | 283 | 3.03 | 10 | <2 | 38 | <0.5 | <3 | <3 | 69 | 0.20 |
| 2064524 | Soil | | | | 3 | <3 | <2 | <1 | 7 | 5 | 39 | <0.3 | 8 | 5 | 197 | 2.31 | 6 | <2 | 20 | <0.5 | <3 | <3 | 56 | 0.13 |
| 2064525 | Soil | | | | 3 | <3 | <2 | <1 | 12 | 6 | 47 | <0.3 | 16 | 9 | 314 | 2.81 | 7 | 3 | 40 | <0.5 | <3 | <3 | 62 | 0.37 |
| 2064526 | Soil | | | | 3 | <3 | <2 | <1 | 12 | 6 | 60 | 0.3 | 13 | 9 | 473 | 2.83 | 8 | <2 | 53 | <0.5 | <3 | <3 | 60 | 0.56 |
| 2064527 | Soil | | | | 3 | <3 | <2 | <1 | 13 | 6 | 48 | <0.3 | 12 | 7 | 347 | 2.38 | 6 | 2 | 36 | <0.5 | <3 | <3 | 54 | 0.40 |
| 2064528 | Soil | | | | 4 | <3 | <2 | <1 | 17 | 7 | 50 | 0.5 | 14 | 7 | 257 | 2.49 | 7 | <2 | 23 | <0.5 | <3 | <3 | 57 | 0.21 |
| 2064529 | Soil | | | | 2 | <3 | <2 | <1 | 15 | 4 | 73 | 0.7 | 12 | 8 | 367 | 2.50 | 4 | <2 | 32 | <0.5 | <3 | <3 | 58 | 0.24 |
| 2064530 | Soil | | | | 4 | 8 | 7 | <1 | 15 | 5 | 73 | 0.7 | 12 | 8 | 360 | 2.52 | 4 | <2 | 33 | <0.5 | <3 | <3 | 58 | 0.24 |



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Page: 2 of 7

Part: 2 of 2

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| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| 2064501 | Soil | 0.074 | 12 | 18 | 0.42 | 106 | 0.084 | <20 | 1.15 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | <5 |
| 2064502 | Soil | 0.127 | 10 | 13 | 0.87 | 148 | 0.128 | <20 | 2.49 | 0.02 | 0.14 | <2 | <0.05 | <1 | <5 | 11 |
| 2064503 | Soil | 0.061 | 17 | 35 | 0.50 | 185 | 0.081 | <20 | 1.35 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064504 | Soil | 0.117 | 10 | 21 | 0.71 | 141 | 0.124 | <20 | 1.94 | 0.03 | 0.22 | <2 | <0.05 | <1 | <5 | 6 |
| 2064505 | Soil | 0.059 | 7 | 19 | 0.51 | 130 | 0.093 | <20 | 1.71 | 0.02 | 0.12 | <2 | <0.05 | <1 | <5 | 6 |
| 2064506 | Soil | 0.115 | 6 | 16 | 0.85 | 151 | 0.145 | <20 | 2.29 | 0.01 | 0.17 | <2 | <0.05 | <1 | <5 | 9 |
| 2064507 | Soil | 0.299 | 18 | 10 | 1.16 | 91 | 0.200 | <20 | 2.95 | 0.01 | 0.25 | <2 | <0.05 | <1 | <5 | 16 |
| 2064508 | Soil | 0.158 | 8 | 13 | 1.00 | 178 | 0.146 | <20 | 2.68 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | 15 |
| 2064509 | Soil | 0.078 | 12 | 22 | 0.60 | 101 | 0.117 | <20 | 1.39 | 0.02 | 0.25 | <2 | <0.05 | <1 | <5 | <5 |
| 2064510 | Soil | 0.088 | 13 | 25 | 0.68 | 101 | 0.129 | <20 | 1.53 | 0.02 | 0.29 | <2 | <0.05 | <1 | <5 | <5 |
| 2064511 | Soil | 0.226 | 8 | 17 | 1.14 | 147 | 0.193 | <20 | 2.41 | 0.02 | 0.33 | <2 | <0.05 | <1 | <5 | 11 |
| 2064512 | Soil | 0.057 | 8 | 19 | 0.54 | 131 | 0.103 | <20 | 1.72 | 0.01 | 0.11 | <2 | <0.05 | <1 | <5 | 6 |
| 2064513 | Soil | 0.058 | 8 | 25 | 0.47 | 217 | 0.092 | <20 | 1.81 | 0.03 | 0.12 | <2 | <0.05 | <1 | <5 | 5 |
| 2064514 | Soil | 0.042 | 10 | 26 | 0.41 | 170 | 0.068 | <20 | 1.48 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064515 | Soil | 0.048 | 6 | 19 | 0.58 | 136 | 0.108 | <20 | 2.06 | 0.03 | 0.08 | <2 | <0.05 | <1 | <5 | 7 |
| 2064516 | Soil | 0.102 | 12 | 22 | 0.83 | 110 | 0.128 | <20 | 2.26 | 0.03 | 0.15 | <2 | <0.05 | <1 | <5 | 7 |
| 2064517 | Soil | 0.079 | 16 | 28 | 0.47 | 170 | 0.073 | <20 | 1.33 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064518 | Soil | 0.059 | 8 | 21 | 0.35 | 237 | 0.040 | <20 | 0.98 | 0.03 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064519 | Soil | 0.069 | 10 | 12 | 0.89 | 143 | 0.128 | <20 | 3.35 | 0.01 | 0.13 | <2 | <0.05 | <1 | <5 | 14 |
| 2064520 | Soil | 0.071 | 10 | 11 | 0.87 | 135 | 0.123 | <20 | 3.28 | 0.01 | 0.12 | <2 | <0.05 | <1 | <5 | 13 |
| 2064521 | Soil | 0.015 | 10 | 27 | 0.66 | 137 | 0.109 | <20 | 2.59 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | 9 |
| 2064522 | Soil | 0.076 | 6 | 19 | 1.13 | 183 | 0.177 | <20 | 2.62 | 0.02 | 0.36 | <2 | <0.05 | <1 | <5 | 13 |
| 2064523 | Soil | 0.042 | 9 | 25 | 0.63 | 133 | 0.115 | <20 | 2.50 | 0.01 | 0.11 | <2 | <0.05 | <1 | <5 | 7 |
| 2064524 | Soil | 0.078 | 6 | 15 | 0.36 | 92 | 0.088 | <20 | 1.47 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 7 |
| 2064525 | Soil | 0.039 | 10 | 31 | 0.62 | 232 | 0.098 | <20 | 1.86 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 8 |
| 2064526 | Soil | 0.098 | 9 | 22 | 0.77 | 148 | 0.124 | <20 | 2.23 | 0.02 | 0.09 | <2 | <0.05 | <1 | <5 | 7 |
| 2064527 | Soil | 0.076 | 8 | 20 | 0.54 | 151 | 0.086 | <20 | 1.76 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | 6 |
| 2064528 | Soil | 0.053 | 8 | 24 | 0.55 | 112 | 0.103 | <20 | 2.16 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | 6 |
| 2064529 | Soil | 0.050 | 8 | 19 | 0.64 | 95 | 0.114 | <20 | 1.82 | 0.04 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064530 | Soil | 0.048 | 8 | 19 | 0.65 | 94 | 0.115 | <20 | 1.84 | 0.04 | 0.07 | <2 | <0.05 | <1 | <5 | 6 |



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Page: 3 of 7

Part: 1 of 2

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| | Method | Analyte | Unit | | | | | | | | | | | | | | | | | | | |
|--|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | MDL | | | | | | | | | | | | | | | | | | | |
| | | | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
| | | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | | | | | | | | | | | | | | | | | | | | | |
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Page: 3 of 7

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|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| | | | | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | | | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | | | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| 2064531 | Soil | | | | 0.158 | 10 | 20 | 0.73 | 131 | 0.120 | <20 | 2.23 | 0.01 | 0.14 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| 2064532 | Soil | | | | 0.124 | 7 | 17 | 0.76 | 184 | 0.128 | <20 | 2.19 | 0.02 | 0.18 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| 2064533 | Soil | | | | 0.093 | 7 | 23 | 0.67 | 148 | 0.116 | <20 | 1.63 | 0.02 | 0.21 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064534 | Soil | | | | 0.044 | 8 | 21 | 0.42 | 166 | 0.081 | <20 | 1.07 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064535 | Soil | | | | 0.075 | 19 | 25 | 0.42 | 246 | 0.059 | <20 | 1.31 | 0.03 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064536 | Soil | | | | 0.048 | 13 | 25 | 0.42 | 207 | 0.073 | <20 | 1.38 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064537 | Soil | | | | 0.096 | 9 | 15 | 0.37 | 172 | 0.052 | <20 | 0.89 | 0.04 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064538 | Soil | | | | 0.073 | 11 | 22 | 0.41 | 199 | 0.058 | <20 | 1.19 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064539 | Soil | | | | 0.109 | 12 | 20 | 0.46 | 164 | 0.068 | <20 | 1.16 | 0.03 | 0.10 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064540 | Soil | | | | 0.109 | 12 | 19 | 0.43 | 156 | 0.066 | <20 | 1.10 | 0.03 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064541 | Soil | | | | 0.120 | 12 | 22 | 0.50 | 159 | 0.072 | <20 | 1.19 | 0.03 | 0.11 | <2 | <0.05 | <1 | <5 | <5 | 5 |
| 2064542 | Soil | | | | 0.069 | 12 | 27 | 0.54 | 182 | 0.074 | <20 | 1.33 | 0.03 | 0.10 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064551 | Soil | | | | 0.045 | 9 | 22 | 0.41 | 126 | 0.076 | <20 | 1.25 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064552 | Soil | | | | 0.029 | 14 | 21 | 0.32 | 112 | 0.069 | <20 | 1.23 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064553 | Soil | | | | 0.037 | 7 | 14 | 0.28 | 96 | 0.070 | <20 | 1.16 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064554 | Soil | | | | 0.072 | 10 | 21 | 0.53 | 138 | 0.077 | <20 | 1.59 | 0.01 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064555 | Soil | | | | 0.056 | 17 | 30 | 0.50 | 187 | 0.086 | <20 | 1.99 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064556 | Soil | | | | 0.106 | 9 | 27 | 0.47 | 143 | 0.085 | <20 | 2.06 | <0.01 | 0.09 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064557 | Soil | | | | 0.060 | 13 | 34 | 0.53 | 308 | 0.078 | <20 | 1.85 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064558 | Soil | | | | 0.052 | 6 | 14 | 0.63 | 108 | 0.102 | <20 | 1.95 | 0.06 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064559 | Soil | | | | 0.035 | 9 | 25 | 0.50 | 89 | 0.084 | <20 | 1.62 | 0.03 | 0.15 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064560 | Soil | | | | 0.105 | 8 | 22 | 0.67 | 81 | 0.106 | <20 | 2.59 | 0.02 | 0.15 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| 2064561 | Soil | | | | 0.154 | 13 | 17 | 1.05 | 122 | 0.137 | <20 | 2.99 | 0.01 | 0.19 | <2 | <0.05 | <1 | <5 | 11 | 7 |
| 2064562 | Soil | | | | 0.108 | 9 | 19 | 0.89 | 130 | 0.119 | <20 | 2.28 | 0.01 | 0.29 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| 2064563 | Soil | | | | 0.130 | 6 | 16 | 0.79 | 146 | 0.135 | <20 | 2.16 | 0.02 | 0.13 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064564 | Soil | | | | 0.049 | 8 | 22 | 0.53 | 176 | 0.097 | <20 | 1.88 | 0.03 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064565 | Soil | | | | 0.042 | 6 | 15 | 0.26 | 108 | 0.057 | <20 | 0.95 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064566 | Soil | | | | 0.049 | 6 | 16 | 0.25 | 152 | 0.054 | <20 | 1.00 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064567 | Soil | | | | 0.114 | 7 | 21 | 0.63 | 148 | 0.104 | <20 | 2.67 | <0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| 2064568 | Soil | | | | 0.039 | 7 | 24 | 0.43 | 222 | 0.065 | <20 | 1.43 | 0.01 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
Report Date: November 29, 2018

Page: 4 of 7 **Part:** 1 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method Analyte Unit MDL | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| 2064569 | Soil | 9 | <3 | 4 | <1 | 25 | 4 | 30 | <0.3 | 10 | 5 | 243 | 1.74 | 3 | <2 | 54 | <0.5 | <3 | <3 | 48 | 0.68 |
| 2064570 | Soil | 6 | <3 | <2 | <1 | 31 | 5 | 34 | <0.3 | 16 | 5 | 300 | 2.04 | 4 | <2 | 54 | <0.5 | <3 | <3 | 49 | 0.71 |
| 2064571 | Soil | 5 | <3 | <2 | <1 | 36 | 4 | 41 | <0.3 | 16 | 7 | 316 | 2.02 | 5 | <2 | 85 | <0.5 | <3 | <3 | 52 | 1.38 |
| 2064572 | Soil | 4 | <3 | <2 | <1 | 18 | 4 | 26 | <0.3 | 8 | 4 | 326 | 1.32 | 3 | <2 | 74 | <0.5 | <3 | <3 | 39 | 1.45 |
| 2064573 | Soil | 4 | <3 | 2 | <1 | 19 | <3 | 23 | <0.3 | 8 | 4 | 246 | 1.26 | 4 | 2 | 48 | <0.5 | <3 | <3 | 36 | 0.80 |
| 2064574 | Soil | 4 | <3 | <2 | <1 | 13 | 6 | 50 | <0.3 | 19 | 10 | 325 | 2.92 | 9 | 3 | 31 | <0.5 | <3 | <3 | 67 | 0.34 |
| 2064575 | Soil | 4 | <3 | <2 | <1 | 16 | 6 | 32 | <0.3 | 14 | 6 | 221 | 1.88 | 5 | <2 | 29 | <0.5 | <3 | <3 | 47 | 0.34 |
| 2064576 | Soil | 4 | <3 | 4 | <1 | 10 | 4 | 30 | <0.3 | 12 | 5 | 179 | 1.90 | 6 | 3 | 24 | <0.5 | <3 | <3 | 47 | 0.25 |
| 2064577 | Soil | 3 | <3 | <2 | <1 | 11 | 7 | 31 | <0.3 | 12 | 6 | 170 | 2.24 | 6 | <2 | 26 | <0.5 | <3 | <3 | 53 | 0.22 |
| 2064578 | Soil | 5 | <3 | <2 | <1 | 14 | 9 | 50 | <0.3 | 17 | 8 | 293 | 2.48 | 7 | 3 | 46 | <0.5 | <3 | <3 | 60 | 0.42 |
| 2064579 | Soil | 3 | <3 | <2 | <1 | 16 | 6 | 33 | <0.3 | 13 | 6 | 272 | 1.93 | 4 | 3 | 30 | <0.5 | <3 | <3 | 52 | 0.35 |
| 2064580 | Soil | 3 | <3 | 2 | <1 | 10 | <3 | 13 | <0.3 | 3 | 2 | 129 | 0.80 | <2 | <2 | 15 | <0.5 | <3 | <3 | 24 | 0.14 |
| 2064581 | Soil | 3 | <3 | <2 | <1 | 12 | 8 | 53 | <0.3 | 9 | 7 | 660 | 2.41 | 3 | <2 | 33 | <0.5 | <3 | <3 | 56 | 0.48 |
| 2064582 | Soil | 6 | <3 | <2 | <1 | 8 | 5 | 58 | <0.3 | 11 | 7 | 365 | 2.40 | 4 | <2 | 32 | <0.5 | <3 | <3 | 53 | 0.34 |
| 2064583 | Soil | 3 | <3 | <2 | <1 | 6 | 7 | 50 | <0.3 | 13 | 8 | 321 | 2.43 | 3 | 2 | 25 | <0.5 | <3 | <3 | 57 | 0.26 |
| 2064584 | Soil | 3 | <3 | <2 | <1 | 8 | 5 | 48 | <0.3 | 11 | 6 | 283 | 2.31 | 3 | <2 | 21 | <0.5 | <3 | <3 | 57 | 0.26 |
| 2064585 | Soil | 4 | <3 | <2 | <1 | 13 | 4 | 34 | <0.3 | 13 | 6 | 243 | 2.10 | 4 | 3 | 18 | <0.5 | <3 | <3 | 51 | 0.19 |
| 2064586 | Soil | 3 | <3 | 3 | <1 | 10 | 4 | 33 | <0.3 | 12 | 5 | 194 | 1.85 | 4 | <2 | 12 | <0.5 | <3 | <3 | 43 | 0.11 |
| 2064587 | Soil | 3 | <3 | 2 | <1 | 9 | 5 | 55 | <0.3 | 9 | 7 | 364 | 2.50 | 4 | <2 | 19 | <0.5 | <3 | <3 | 59 | 0.21 |
| 2064588 | Soil | 2 | <3 | <2 | <1 | 10 | 7 | 54 | <0.3 | 11 | 7 | 280 | 2.34 | 3 | 3 | 17 | <0.5 | <3 | <3 | 54 | 0.21 |
| 2064589 | Soil | 3 | <3 | <2 | <1 | 5 | <3 | 85 | <0.3 | 6 | 9 | 722 | 2.77 | 3 | 4 | 24 | <0.5 | <3 | <3 | 61 | 0.59 |
| 2064590 | Soil | 2 | <3 | <2 | <1 | 7 | 5 | 76 | <0.3 | 8 | 8 | 557 | 2.58 | 3 | 3 | 27 | <0.5 | <3 | <3 | 55 | 0.40 |
| 2064601 | Soil | 5 | <3 | 2 | <1 | 23 | 7 | 49 | <0.3 | 20 | 7 | 300 | 2.24 | 6 | 3 | 38 | <0.5 | <3 | <3 | 50 | 0.53 |
| 2064602 | Soil | 4 | <3 | <2 | <1 | 8 | 4 | 21 | <0.3 | 8 | 3 | 187 | 1.21 | 3 | 3 | 21 | <0.5 | <3 | <3 | 28 | 0.29 |
| 2064603 | Soil | 4 | <3 | <2 | <1 | 10 | 6 | 39 | <0.3 | 13 | 5 | 174 | 2.14 | 6 | <2 | 26 | <0.5 | <3 | <3 | 52 | 0.24 |
| 2064604 | Soil | 2 | <3 | 2 | <1 | 13 | 6 | 49 | <0.3 | 12 | 7 | 279 | 2.53 | 6 | 3 | 61 | <0.5 | <3 | <3 | 56 | 0.51 |
| 2064605 | Soil | 4 | <3 | <2 | <1 | 19 | 7 | 42 | <0.3 | 16 | 7 | 239 | 2.37 | 6 | 3 | 37 | <0.5 | <3 | <3 | 54 | 0.33 |
| 2064606 | Soil | 2 | <3 | <2 | <1 | 9 | 4 | 37 | <0.3 | 9 | 5 | 291 | 1.74 | 4 | 2 | 32 | <0.5 | <3 | <3 | 41 | 0.29 |
| 2064607 | Soil | 4 | <3 | 4 | <1 | 16 | 5 | 50 | <0.3 | 12 | 6 | 241 | 2.34 | 5 | <2 | 31 | <0.5 | <3 | <3 | 56 | 0.31 |
| 2064608 | Soil | 4 | <3 | <2 | <1 | 12 | 3 | 60 | <0.3 | 9 | 7 | 473 | 2.22 | <2 | <2 | 30 | <0.5 | <3 | <3 | 51 | 0.34 |



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Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
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Page: 4 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method | Analyte | Unit | MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | | | |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| | | | | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | | | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | | | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| 2064569 | Soil | | | | 0.091 | 9 | 16 | 0.31 | 187 | 0.056 | <20 | 0.96 | 0.03 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064570 | Soil | | | | 0.085 | 15 | 22 | 0.38 | 233 | 0.050 | <20 | 1.16 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064571 | Soil | | | | 0.094 | 11 | 20 | 0.47 | 230 | 0.055 | <20 | 1.20 | 0.03 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064572 | Soil | | | | 0.065 | 7 | 13 | 0.27 | 214 | 0.039 | <20 | 0.76 | 0.04 | 0.03 | <2 | 0.07 | <1 | <5 | <5 | <5 |
| 2064573 | Soil | | | | 0.057 | 7 | 13 | 0.20 | 134 | 0.038 | <20 | 0.62 | 0.04 | 0.03 | <2 | 0.06 | <1 | <5 | <5 | <5 |
| 2064574 | Soil | | | | 0.050 | 9 | 33 | 0.63 | 212 | 0.090 | <20 | 2.11 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064575 | Soil | | | | 0.043 | 12 | 25 | 0.41 | 203 | 0.068 | <20 | 1.33 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064576 | Soil | | | | 0.045 | 12 | 21 | 0.37 | 182 | 0.062 | <20 | 1.18 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064577 | Soil | | | | 0.107 | 8 | 23 | 0.34 | 185 | 0.061 | <20 | 1.40 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064578 | Soil | | | | 0.062 | 9 | 28 | 0.56 | 188 | 0.082 | <20 | 1.88 | 0.01 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064579 | Soil | | | | 0.034 | 11 | 26 | 0.43 | 171 | 0.069 | <20 | 1.37 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064580 | Soil | | | | 0.027 | 2 | 5 | 0.10 | 56 | 0.034 | <20 | 0.45 | 0.04 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064581 | Soil | | | | 0.105 | 11 | 17 | 0.64 | 177 | 0.100 | <20 | 1.31 | 0.02 | 0.11 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064582 | Soil | | | | 0.090 | 7 | 18 | 0.64 | 111 | 0.098 | <20 | 1.75 | <0.01 | 0.21 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| 2064583 | Soil | | | | 0.052 | 8 | 23 | 0.51 | 131 | 0.093 | <20 | 1.66 | <0.01 | 0.11 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064584 | Soil | | | | 0.053 | 8 | 18 | 0.58 | 75 | 0.103 | <20 | 1.52 | <0.01 | 0.21 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064585 | Soil | | | | 0.029 | 9 | 23 | 0.44 | 114 | 0.078 | <20 | 1.23 | <0.01 | 0.11 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064586 | Soil | | | | 0.027 | 7 | 20 | 0.33 | 79 | 0.060 | <20 | 1.14 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064587 | Soil | | | | 0.049 | 5 | 15 | 0.68 | 76 | 0.102 | <20 | 1.82 | 0.01 | 0.19 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064588 | Soil | | | | 0.074 | 7 | 18 | 0.59 | 72 | 0.101 | <20 | 1.79 | 0.01 | 0.10 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064589 | Soil | | | | 0.193 | 10 | 8 | 1.07 | 91 | 0.172 | <20 | 1.77 | 0.01 | 0.64 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064590 | Soil | | | | 0.097 | 8 | 10 | 0.90 | 85 | 0.141 | <20 | 2.00 | 0.01 | 0.28 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064601 | Soil | | | | 0.079 | 13 | 29 | 0.51 | 177 | 0.082 | <20 | 1.31 | 0.03 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064602 | Soil | | | | 0.053 | 11 | 14 | 0.23 | 98 | 0.037 | <20 | 0.65 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064603 | Soil | | | | 0.033 | 10 | 23 | 0.37 | 163 | 0.066 | <20 | 1.49 | 0.01 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064604 | Soil | | | | 0.062 | 10 | 19 | 0.55 | 240 | 0.055 | <20 | 2.03 | 0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064605 | Soil | | | | 0.044 | 10 | 28 | 0.48 | 202 | 0.075 | <20 | 1.53 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064606 | Soil | | | | 0.075 | 5 | 14 | 0.40 | 123 | 0.070 | <20 | 1.22 | 0.02 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064607 | Soil | | | | 0.053 | 8 | 22 | 0.53 | 98 | 0.094 | <20 | 1.72 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| 2064608 | Soil | | | | 0.102 | 7 | 13 | 0.64 | 131 | 0.117 | <20 | 1.61 | 0.02 | 0.20 | <2 | <0.05 | <1 | <5 | <5 | <5 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
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Page: 5 of 7 **Part:** 1 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Analyte | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| 2064609 | Soil | 3 | <3 | 4 | <1 | 10 | 7 | 55 | <0.3 | 12 | 7 | 275 | 2.25 | 2 | <2 | 28 | <0.5 | <3 | <3 | 52 | 0.27 |
| 2064610 | Soil | 3 | <3 | 4 | <1 | 14 | 6 | 90 | <0.3 | 13 | 10 | 697 | 2.83 | 2 | <2 | 39 | <0.5 | <3 | <3 | 62 | 0.34 |
| 2064611 | Soil | 3 | <3 | 5 | <1 | 6 | 4 | 71 | <0.3 | 9 | 8 | 436 | 2.63 | 2 | <2 | 52 | <0.5 | <3 | <3 | 61 | 0.60 |
| 2064612 | Soil | 2 | <3 | 5 | <1 | 16 | 4 | 72 | <0.3 | 11 | 7 | 305 | 2.46 | 3 | 2 | 35 | <0.5 | <3 | <3 | 54 | 0.28 |
| 2064613 | Soil | 3 | <3 | 3 | <1 | 10 | 3 | 31 | <0.3 | 8 | 5 | 159 | 1.50 | 3 | <2 | 20 | <0.5 | <3 | <3 | 36 | 0.20 |
| 2064614 | Soil | 4 | <3 | 2 | <1 | 14 | 8 | 40 | <0.3 | 13 | 6 | 262 | 2.13 | 5 | 3 | 31 | <0.5 | <3 | <3 | 50 | 0.29 |
| 2064615 | Soil | 3 | <3 | 4 | <1 | 8 | 5 | 30 | <0.3 | 9 | 4 | 167 | 1.55 | 3 | 2 | 23 | <0.5 | <3 | <3 | 38 | 0.27 |
| 2064616 | Soil | 3 | <3 | 4 | <1 | 14 | 5 | 26 | <0.3 | 11 | 5 | 191 | 1.61 | 4 | 3 | 25 | <0.5 | <3 | <3 | 40 | 0.33 |
| 2064617 | Soil | 9 | <3 | 5 | <1 | 26 | 7 | 36 | <0.3 | 18 | 7 | 255 | 2.07 | 5 | 2 | 43 | <0.5 | <3 | <3 | 47 | 0.78 |
| 2064618 | Soil | 4 | <3 | 4 | <1 | 27 | 3 | 22 | <0.3 | 12 | 5 | 307 | 1.12 | 3 | <2 | 81 | <0.5 | <3 | <3 | 28 | 1.63 |
| 2064619 | Soil | 4 | <3 | 5 | <1 | 22 | 5 | 57 | <0.3 | 10 | 6 | 309 | 2.23 | 2 | 3 | 67 | <0.5 | <3 | <3 | 88 | 1.28 |
| 2064620 | Soil | 6 | <3 | 2 | <1 | 33 | 6 | 42 | <0.3 | 20 | 8 | 511 | 2.18 | 5 | <2 | 80 | <0.5 | <3 | <3 | 49 | 1.74 |
| 2064621 | Soil | 4 | <3 | 2 | <1 | 16 | 7 | 33 | <0.3 | 12 | 6 | 232 | 1.89 | 5 | 2 | 35 | <0.5 | <3 | <3 | 46 | 0.36 |
| 2064622 | Soil | 4 | <3 | 2 | <1 | 19 | 7 | 36 | <0.3 | 12 | 6 | 214 | 2.26 | 7 | <2 | 30 | <0.5 | <3 | <3 | 56 | 0.26 |
| 2064623 | Soil | 4 | <3 | 3 | <1 | 24 | 5 | 30 | <0.3 | 11 | 5 | 275 | 1.51 | 5 | <2 | 50 | <0.5 | <3 | <3 | 37 | 0.72 |
| 2064624 | Soil | 6 | 4 | 3 | <1 | 26 | 6 | 35 | <0.3 | 14 | 6 | 218 | 2.04 | 6 | <2 | 56 | <0.5 | <3 | <3 | 47 | 1.02 |
| 2064625 | Soil | 5 | 4 | 4 | 2 | 35 | 5 | 36 | <0.3 | 17 | 8 | 767 | 3.62 | 25 | <2 | 165 | <0.5 | <3 | <3 | 89 | 1.43 |
| 2064626 | Soil | 6 | 6 | <2 | <1 | 9 | 8 | 32 | <0.3 | 10 | 6 | 223 | 2.04 | 6 | <2 | 25 | <0.5 | <3 | <3 | 51 | 0.21 |
| 2064627 | Soil | 4 | 4 | 3 | <1 | 10 | 9 | 33 | <0.3 | 11 | 5 | 129 | 2.50 | 8 | <2 | 23 | <0.5 | <3 | <3 | 53 | 0.18 |
| 2064628 | Soil | 5 | 10 | 11 | <1 | 11 | 6 | 33 | <0.3 | 8 | 5 | 212 | 1.98 | 6 | <2 | 21 | <0.5 | <3 | <3 | 50 | 0.23 |
| 2064629 | Soil | 4 | 4 | <2 | <1 | 11 | 6 | 26 | <0.3 | 8 | 4 | 145 | 1.79 | 5 | <2 | 25 | <0.5 | <3 | <3 | 45 | 0.27 |
| 2064630 | Soil | 4 | 8 | 5 | <1 | 13 | 6 | 22 | <0.3 | 8 | 3 | 111 | 1.71 | 5 | <2 | 21 | <0.5 | <3 | <3 | 44 | 0.22 |
| 2064631 | Soil | 4 | 3 | 3 | <1 | 13 | 8 | 41 | <0.3 | 17 | 8 | 218 | 2.67 | 8 | 3 | 24 | <0.5 | <3 | <3 | 59 | 0.23 |
| 2064632 | Soil | 4 | 5 | 6 | <1 | 15 | 7 | 39 | <0.3 | 17 | 8 | 221 | 2.70 | 8 | 3 | 25 | <0.5 | <3 | <3 | 58 | 0.22 |
| 2064633 | Soil | <2 | <3 | <2 | <1 | 13 | 7 | 42 | <0.3 | 12 | 6 | 745 | 2.00 | 5 | <2 | 29 | <0.5 | <3 | <3 | 49 | 0.24 |
| 2064634 | Soil | 3 | <3 | 4 | <1 | 21 | 5 | 71 | 0.6 | 10 | 10 | 497 | 2.42 | 3 | <2 | 25 | <0.5 | <3 | <3 | 51 | 0.17 |
| 2064635 | Soil | <2 | <3 | 2 | <1 | 16 | 6 | 47 | <0.3 | 14 | 8 | 233 | 2.42 | 6 | 3 | 17 | <0.5 | <3 | <3 | 55 | 0.16 |
| 2064636 | Soil | 3 | <3 | <2 | <1 | 11 | 4 | 61 | 0.6 | 9 | 8 | 427 | 2.42 | 4 | <2 | 19 | <0.5 | <3 | <3 | 56 | 0.22 |
| 2064637 | Soil | 3 | 4 | <2 | <1 | 14 | 7 | 74 | 0.5 | 12 | 9 | 518 | 2.96 | 6 | <2 | 32 | <0.5 | <3 | <3 | 66 | 0.40 |
| 2064638 | Soil | 4 | <3 | 3 | <1 | 13 | 4 | 28 | <0.3 | 9 | 5 | 396 | 1.71 | 3 | <2 | 33 | <0.5 | <3 | <3 | 40 | 0.51 |



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Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
Report Date: November 29, 2018

Page: 5 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | | Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| | | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 |
| 2064609 | Soil | | 0.079 | 6 | 19 | 0.50 | 152 | 0.098 | <20 | 1.64 | 0.01 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064610 | Soil | | 0.082 | 7 | 21 | 0.61 | 221 | 0.110 | <20 | 2.19 | 0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 7 | |
| 2064611 | Soil | | 0.156 | 6 | 13 | 0.81 | 142 | 0.135 | <20 | 2.02 | 0.01 | 0.23 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064612 | Soil | | 0.094 | 7 | 17 | 0.59 | 127 | 0.107 | <20 | 1.95 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | 5 | |
| 2064613 | Soil | | 0.023 | 6 | 15 | 0.28 | 105 | 0.058 | <20 | 0.94 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064614 | Soil | | 0.024 | 7 | 24 | 0.41 | 232 | 0.068 | <20 | 1.45 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064615 | Soil | | 0.022 | 6 | 18 | 0.33 | 135 | 0.064 | <20 | 0.92 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064616 | Soil | | 0.045 | 10 | 19 | 0.30 | 148 | 0.051 | <20 | 0.92 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064617 | Soil | | 0.046 | 12 | 26 | 0.45 | 263 | 0.060 | <20 | 1.31 | 0.03 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064618 | Soil | | 0.058 | 6 | 13 | 0.24 | 189 | 0.028 | <20 | 0.72 | 0.03 | 0.04 | <2 | 0.05 | <1 | <5 | <5 | |
| 2064619 | Soil | | 0.172 | 18 | 17 | 0.61 | 110 | 0.092 | <20 | 1.27 | 0.02 | 0.13 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064620 | Soil | | 0.079 | 12 | 26 | 0.48 | 261 | 0.053 | <20 | 1.24 | 0.02 | 0.07 | <2 | 0.05 | <1 | <5 | <5 | |
| 2064621 | Soil | | 0.048 | 9 | 21 | 0.39 | 159 | 0.058 | <20 | 1.17 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064622 | Soil | | 0.040 | 6 | 20 | 0.35 | 139 | 0.055 | <20 | 1.47 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064623 | Soil | | 0.061 | 8 | 16 | 0.30 | 152 | 0.043 | <20 | 0.91 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064624 | Soil | | 0.058 | 10 | 22 | 0.38 | 240 | 0.054 | <20 | 1.20 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064625 | Soil | | 0.087 | 12 | 22 | 0.33 | 364 | 0.036 | <20 | 1.04 | 0.03 | 0.04 | <2 | 0.12 | <1 | <5 | <5 | |
| 2064626 | Soil | | 0.040 | 8 | 17 | 0.38 | 132 | 0.078 | <20 | 1.39 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064627 | Soil | | 0.130 | 10 | 23 | 0.33 | 149 | 0.065 | <20 | 1.45 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 5 | |
| 2064628 | Soil | | 0.058 | 7 | 16 | 0.36 | 122 | 0.077 | <20 | 1.21 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | 5 | |
| 2064629 | Soil | | 0.049 | 9 | 16 | 0.29 | 105 | 0.067 | <20 | 1.15 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 5 | |
| 2064630 | Soil | | 0.046 | 10 | 15 | 0.25 | 101 | 0.061 | <20 | 1.03 | 0.01 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064631 | Soil | | 0.032 | 9 | 32 | 0.50 | 206 | 0.074 | <20 | 1.95 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 5 | |
| 2064632 | Soil | | 0.027 | 7 | 33 | 0.53 | 201 | 0.076 | <20 | 1.98 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064633 | Soil | | 0.024 | 8 | 22 | 0.38 | 219 | 0.060 | <20 | 1.24 | 0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064634 | Soil | | 0.067 | 8 | 15 | 0.48 | 118 | 0.104 | <20 | 1.75 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | 6 | |
| 2064635 | Soil | | 0.033 | 9 | 27 | 0.46 | 108 | 0.084 | <20 | 1.74 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064636 | Soil | | 0.070 | 7 | 17 | 0.66 | 126 | 0.112 | <20 | 1.71 | 0.01 | 0.33 | <2 | <0.05 | <1 | <5 | <5 | |
| 2064637 | Soil | | 0.115 | 8 | 20 | 0.75 | 159 | 0.104 | <20 | 2.16 | 0.02 | 0.21 | <2 | <0.05 | <1 | <5 | 7 | |
| 2064638 | Soil | | 0.061 | 9 | 16 | 0.28 | 162 | 0.052 | <20 | 0.94 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
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Page: 6 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method Analyte Unit MDL | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| 2064639 | Soil | 4 | <3 | 4 | <1 | 9 | 6 | 36 | <0.3 | 9 | 5 | 179 | 1.86 | 4 | <2 | 24 | <0.5 | <3 | <3 | 46 | 0.30 |
| 2064640 | Soil | 109 | 8 | 10 | <1 | 10 | 7 | 35 | <0.3 | 10 | 6 | 217 | 1.88 | 4 | <2 | 25 | <0.5 | <3 | <3 | 46 | 0.33 |
| 2064641 | Soil | 4 | 6 | 5 | <1 | 20 | 7 | 46 | <0.3 | 14 | 8 | 622 | 2.29 | 5 | 2 | 37 | <0.5 | <3 | <3 | 48 | 0.37 |
| 2064642 | Soil | 5 | <3 | 5 | <1 | 19 | 4 | 41 | <0.3 | 8 | 5 | 567 | 1.41 | 2 | <2 | 21 | <0.5 | <3 | <3 | 31 | 0.22 |
| 2064643 | Soil | 3 | 6 | 6 | <1 | 15 | 5 | 75 | 0.4 | 10 | 8 | 564 | 2.35 | 3 | <2 | 26 | <0.5 | <3 | <3 | 51 | 0.33 |
| 2064644 | Soil | 3 | 3 | <2 | <1 | 5 | 4 | 45 | <0.3 | 7 | 6 | 365 | 1.71 | <2 | <2 | 25 | <0.5 | <3 | <3 | 38 | 0.29 |
| 2064645 | Soil | 26 | 150 | 163 | <1 | 20 | 5 | 42 | <0.3 | 12 | 6 | 203 | 1.83 | 5 | 3 | 24 | <0.5 | <3 | <3 | 43 | 0.26 |
| 2064646 | Soil | 3 | 4 | 4 | <1 | 12 | 4 | 25 | <0.3 | 12 | 5 | 137 | 1.81 | 5 | 3 | 20 | <0.5 | <3 | <3 | 44 | 0.33 |
| 2064647 | Soil | 6 | <3 | 3 | <1 | 23 | 6 | 44 | <0.3 | 18 | 8 | 413 | 2.15 | 7 | 3 | 42 | <0.5 | <3 | <3 | 47 | 0.61 |
| 2064651 | Soil | 48 | 112 | 251 | <1 | 25 | 3 | 22 | <0.3 | 9 | 4 | 136 | 1.40 | 3 | <2 | 25 | <0.5 | <3 | <3 | 34 | 0.36 |
| 2064652 | Soil | 3 | <3 | 5 | <1 | 7 | 4 | 25 | <0.3 | 8 | 4 | 165 | 1.65 | 4 | <2 | 24 | <0.5 | <3 | <3 | 42 | 0.27 |
| 2064653 | Soil | 3 | <3 | 2 | <1 | 14 | 4 | 24 | <0.3 | 8 | 5 | 292 | 1.61 | 4 | <2 | 29 | <0.5 | <3 | <3 | 42 | 0.28 |
| 2064654 | Soil | 3 | <3 | 3 | <1 | 7 | 4 | 27 | <0.3 | 9 | 5 | 163 | 1.84 | 6 | 2 | 28 | <0.5 | <3 | <3 | 47 | 0.30 |
| 2064655 | Soil | 5 | 4 | 2 | <1 | 11 | 7 | 41 | <0.3 | 13 | 6 | 221 | 2.40 | 8 | <2 | 22 | <0.5 | <3 | <3 | 57 | 0.16 |
| 2064656 | Soil | 3 | <3 | 2 | <1 | 12 | 8 | 46 | <0.3 | 14 | 7 | 279 | 2.41 | 6 | <2 | 44 | <0.5 | <3 | <3 | 55 | 0.49 |
| 2064657 | Soil | 4 | 3 | 5 | <1 | 13 | 8 | 38 | <0.3 | 16 | 7 | 241 | 2.22 | 8 | 3 | 35 | <0.5 | <3 | <3 | 51 | 0.32 |
| 2064658 | Soil | 2 | <3 | 4 | <1 | 11 | 4 | 52 | <0.3 | 9 | 7 | 338 | 1.84 | <2 | <2 | 20 | <0.5 | <3 | <3 | 39 | 0.21 |
| 2064659 | Soil | 2 | <3 | 4 | <1 | 8 | 4 | 61 | <0.3 | 9 | 8 | 363 | 2.41 | 2 | <2 | 27 | <0.5 | <3 | <3 | 54 | 0.33 |
| 2064660 | Soil | 2 | 6 | 3 | <1 | 8 | 4 | 60 | 0.5 | 9 | 8 | 356 | 2.40 | 2 | <2 | 26 | <0.5 | <3 | <3 | 53 | 0.32 |
| 2064661 | Soil | 4 | <3 | 3 | <1 | 10 | 4 | 48 | <0.3 | 12 | 7 | 339 | 2.10 | 3 | <2 | 31 | <0.5 | <3 | <3 | 47 | 0.31 |
| 2064662 | Soil | 3 | <3 | <2 | <1 | 8 | 5 | 68 | 0.5 | 11 | 8 | 406 | 2.60 | 4 | <2 | 40 | <0.5 | <3 | <3 | 57 | 0.40 |
| 2064663 | Soil | 6 | <3 | 4 | <1 | 6 | 6 | 97 | 0.3 | 10 | 10 | 617 | 3.05 | 4 | <2 | 66 | <0.5 | <3 | <3 | 63 | 0.50 |
| 2064664 | Soil | 3 | <3 | 3 | <1 | 19 | 4 | 38 | <0.3 | 8 | 5 | 291 | 1.45 | <2 | <2 | 16 | <0.5 | <3 | <3 | 33 | 0.17 |
| 2064665 | Soil | 4 | <3 | <2 | <1 | 14 | 5 | 37 | <0.3 | 12 | 6 | 549 | 1.67 | 4 | 2 | 26 | <0.5 | <3 | <3 | 39 | 0.33 |
| 2064666 | Soil | 4 | <3 | 3 | <1 | 9 | 5 | 26 | <0.3 | 10 | 4 | 134 | 1.59 | 4 | 2 | 24 | <0.5 | <3 | <3 | 37 | 0.34 |
| 2064667 | Soil | 4 | <3 | <2 | <1 | 17 | 7 | 33 | <0.3 | 16 | 6 | 170 | 2.04 | 7 | 2 | 31 | <0.5 | <3 | <3 | 48 | 0.40 |
| 2064668 | Soil | 3 | <3 | <2 | <1 | 15 | 5 | 32 | <0.3 | 13 | 6 | 218 | 1.96 | 6 | <2 | 33 | <0.5 | <3 | <3 | 47 | 0.30 |
| 2064669 | Soil | 2 | <3 | <2 | <1 | 16 | 6 | 40 | <0.3 | 10 | 5 | 220 | 1.74 | 4 | <2 | 23 | <0.5 | <3 | <3 | 39 | 0.28 |
| 2064670 | Soil | 2 | <3 | <2 | <1 | 16 | 5 | 35 | <0.3 | 9 | 5 | 181 | 1.65 | 4 | <2 | 22 | <0.5 | <3 | <3 | 38 | 0.25 |
| 2064671 | Soil | 5 | <3 | <2 | <1 | 21 | 4 | 21 | <0.3 | 9 | 4 | 201 | 1.32 | 4 | <2 | 57 | <0.5 | <3 | <3 | 31 | 1.07 |



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

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Page: 6 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| 2064639 | Soil | 0.032 | 9 | 18 | 0.37 | 188 | 0.073 | <20 | 1.15 | 0.01 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064640 | Soil | 0.044 | 9 | 18 | 0.40 | 179 | 0.074 | <20 | 1.17 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | <5 |
| 2064641 | Soil | 0.043 | 7 | 23 | 0.45 | 214 | 0.077 | <20 | 1.41 | 0.02 | 0.12 | <2 | <0.05 | <1 | <5 | <5 |
| 2064642 | Soil | 0.035 | 5 | 13 | 0.26 | 153 | 0.055 | <20 | 0.99 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064643 | Soil | 0.085 | 7 | 16 | 0.61 | 154 | 0.103 | <20 | 1.94 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | <5 |
| 2064644 | Soil | 0.080 | 5 | 12 | 0.32 | 111 | 0.063 | <20 | 1.18 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064645 | Soil | 0.025 | 8 | 22 | 0.37 | 150 | 0.064 | <20 | 1.29 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064646 | Soil | 0.054 | 10 | 22 | 0.32 | 123 | 0.051 | <20 | 1.02 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064647 | Soil | 0.078 | 11 | 25 | 0.50 | 179 | 0.070 | <20 | 1.15 | 0.03 | 0.10 | <2 | <0.05 | <1 | <5 | <5 |
| 2064651 | Soil | 0.052 | 43 | 12 | 0.18 | 151 | 0.045 | <20 | 1.33 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | 5 |
| 2064652 | Soil | 0.043 | 8 | 16 | 0.31 | 95 | 0.063 | <20 | 0.88 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064653 | Soil | 0.047 | 8 | 15 | 0.25 | 125 | 0.059 | <20 | 0.94 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064654 | Soil | 0.047 | 8 | 18 | 0.37 | 75 | 0.070 | <20 | 1.01 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064655 | Soil | 0.109 | 7 | 24 | 0.41 | 136 | 0.071 | <20 | 1.72 | 0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 6 |
| 2064656 | Soil | 0.067 | 11 | 27 | 0.60 | 149 | 0.101 | <20 | 1.84 | 0.02 | 0.11 | <2 | <0.05 | <1 | <5 | <5 |
| 2064657 | Soil | 0.041 | 11 | 30 | 0.49 | 178 | 0.083 | <20 | 1.39 | 0.03 | 0.09 | <2 | <0.05 | <1 | <5 | <5 |
| 2064658 | Soil | 0.049 | 5 | 13 | 0.44 | 92 | 0.089 | <20 | 1.50 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 6 |
| 2064659 | Soil | 0.077 | 7 | 16 | 0.70 | 94 | 0.123 | <20 | 1.68 | 0.02 | 0.12 | <2 | <0.05 | <1 | <5 | 6 |
| 2064660 | Soil | 0.077 | 6 | 14 | 0.69 | 90 | 0.121 | <20 | 1.69 | 0.01 | 0.12 | <2 | <0.05 | <1 | <5 | 8 |
| 2064661 | Soil | 0.066 | 8 | 18 | 0.56 | 118 | 0.096 | <20 | 1.47 | 0.01 | 0.11 | <2 | <0.05 | <1 | <5 | <5 |
| 2064662 | Soil | 0.087 | 7 | 17 | 0.73 | 111 | 0.118 | <20 | 1.91 | 0.01 | 0.13 | <2 | <0.05 | <1 | <5 | 7 |
| 2064663 | Soil | 0.093 | 6 | 13 | 1.01 | 170 | 0.167 | <20 | 2.61 | 0.02 | 0.16 | <2 | <0.05 | <1 | <5 | 12 |
| 2064664 | Soil | 0.040 | 4 | 12 | 0.25 | 132 | 0.053 | <20 | 0.83 | 0.04 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064665 | Soil | 0.061 | 8 | 19 | 0.30 | 217 | 0.052 | <20 | 0.92 | 0.02 | 0.09 | <2 | <0.05 | <1 | <5 | <5 |
| 2064666 | Soil | 0.057 | 8 | 19 | 0.34 | 156 | 0.052 | <20 | 0.92 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064667 | Soil | 0.046 | 8 | 25 | 0.42 | 147 | 0.061 | <20 | 1.27 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 |
| 2064668 | Soil | 0.022 | 8 | 23 | 0.38 | 201 | 0.056 | <20 | 1.24 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064669 | Soil | 0.049 | 5 | 15 | 0.39 | 139 | 0.067 | <20 | 1.37 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 |
| 2064670 | Soil | 0.044 | 4 | 14 | 0.33 | 137 | 0.061 | <20 | 1.29 | 0.03 | 0.05 | <2 | <0.05 | <1 | <5 | <5 |
| 2064671 | Soil | 0.051 | 6 | 14 | 0.25 | 171 | 0.037 | <20 | 0.73 | 0.04 | 0.04 | <2 | <0.05 | <1 | <5 | <5 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Report Date: November 29, 2018

Page: 7 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method Analyte Unit MDL | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| 2064672 | Soil | 2 | <3 | 2 | <1 | 10 | 4 | 29 | <0.3 | 9 | 5 | 209 | 1.67 | 4 | 2 | 28 | <0.5 | <3 | <3 | 40 | 0.40 |
| 2064673 | Soil | 2 | <3 | <2 | <1 | 10 | 10 | 44 | <0.3 | 14 | 7 | 271 | 2.51 | 8 | <2 | 29 | <0.5 | <3 | <3 | 58 | 0.32 |
| 2064674 | Soil | 3 | <3 | <2 | <1 | 9 | 5 | 30 | <0.3 | 12 | 6 | 176 | 1.99 | 6 | 3 | 23 | <0.5 | <3 | <3 | 47 | 0.25 |
| 2064675 | Soil | 3 | <3 | <2 | <1 | 10 | 9 | 34 | <0.3 | 11 | 7 | 261 | 2.65 | 8 | <2 | 21 | <0.5 | <3 | <3 | 61 | 0.21 |
| 2064676 | Soil | 4 | <3 | <2 | <1 | 10 | 5 | 28 | <0.3 | 9 | 6 | 247 | 1.72 | 4 | <2 | 22 | <0.5 | <3 | <3 | 38 | 0.20 |
| 2064677 | Soil | <2 | <3 | <2 | <1 | 10 | 4 | 45 | <0.3 | 7 | 5 | 274 | 1.63 | 2 | <2 | 14 | <0.5 | <3 | <3 | 37 | 0.15 |
| 2064678 | Soil | 4 | <3 | <2 | <1 | 10 | 5 | 39 | <0.3 | 10 | 6 | 225 | 1.88 | 3 | 2 | 18 | <0.5 | <3 | <3 | 45 | 0.18 |
| 2064679 | Soil | 3 | <3 | <2 | <1 | 13 | 4 | 38 | <0.3 | 9 | 5 | 216 | 1.76 | 3 | <2 | 19 | <0.5 | <3 | <3 | 41 | 0.19 |
| 2064680 | Soil | 2 | <3 | <2 | <1 | 11 | 4 | 42 | <0.3 | 9 | 5 | 202 | 1.81 | 3 | <2 | 20 | <0.5 | <3 | <3 | 43 | 0.21 |
| 2064681 | Soil | 3 | <3 | <2 | <1 | 12 | 5 | 28 | <0.3 | 9 | 4 | 193 | 1.47 | 4 | <2 | 31 | <0.5 | <3 | <3 | 36 | 0.38 |
| 2064682 | Soil | 3 | <3 | <2 | <1 | 16 | 6 | 30 | <0.3 | 9 | 5 | 321 | 1.68 | 4 | <2 | 28 | <0.5 | <3 | <3 | 41 | 0.33 |
| 2064683 | Soil | 3 | <3 | <2 | <1 | 10 | 9 | 51 | <0.3 | 15 | 6 | 212 | 2.25 | 5 | 3 | 21 | <0.5 | <3 | <3 | 50 | 0.22 |
| 2064684 | Soil | 2 | <3 | <2 | <1 | 15 | 6 | 38 | <0.3 | 15 | 7 | 222 | 2.44 | 8 | 4 | 23 | <0.5 | <3 | <3 | 55 | 0.30 |
| 2064685 | Soil | 5 | <3 | 3 | <1 | 10 | 9 | 42 | <0.3 | 16 | 7 | 264 | 2.43 | 7 | 5 | 24 | <0.5 | <3 | <3 | 54 | 0.30 |
| 2064686 | Soil | 2 | <3 | <2 | <1 | 6 | 5 | 40 | <0.3 | 11 | 6 | 266 | 1.96 | 4 | <2 | 21 | <0.5 | <3 | <3 | 47 | 0.25 |
| 2064687 | Soil | 4 | <3 | 6 | <1 | 7 | 6 | 69 | <0.3 | 9 | 9 | 506 | 2.79 | 5 | 2 | 46 | <0.5 | <3 | <3 | 59 | 0.72 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
Report Date: November 29, 2018

Page: 7 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18001046.1

| | Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| 2064672 | Soil | 0.072 | 10 | 16 | 0.36 | 115 | 0.061 | <20 | 0.85 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064673 | Soil | 0.051 | 8 | 27 | 0.55 | 154 | 0.090 | <20 | 1.68 | 0.01 | 0.11 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| 2064674 | Soil | 0.036 | 9 | 25 | 0.39 | 162 | 0.061 | <20 | 1.19 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064675 | Soil | 0.081 | 8 | 22 | 0.37 | 169 | 0.064 | <20 | 1.51 | 0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064676 | Soil | 0.067 | 8 | 16 | 0.28 | 166 | 0.047 | <20 | 1.23 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064677 | Soil | 0.038 | 5 | 12 | 0.38 | 92 | 0.064 | <20 | 1.17 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064678 | Soil | 0.043 | 7 | 19 | 0.37 | 99 | 0.072 | <20 | 1.20 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064679 | Soil | 0.025 | 7 | 16 | 0.34 | 99 | 0.066 | <20 | 1.09 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064680 | Soil | 0.039 | 7 | 16 | 0.35 | 94 | 0.070 | <20 | 1.11 | 0.02 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064681 | Soil | 0.049 | 6 | 16 | 0.34 | 149 | 0.061 | <20 | 0.91 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064682 | Soil | 0.057 | 7 | 19 | 0.35 | 160 | 0.066 | <20 | 0.95 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064683 | Soil | 0.044 | 7 | 25 | 0.45 | 121 | 0.073 | <20 | 1.78 | 0.01 | 0.08 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064684 | Soil | 0.065 | 14 | 29 | 0.45 | 108 | 0.082 | <20 | 1.52 | 0.01 | 0.14 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064685 | Soil | 0.027 | 15 | 28 | 0.51 | 104 | 0.091 | <20 | 1.79 | 0.01 | 0.11 | <2 | <0.05 | <1 | <5 | <5 | 5 |
| 2064686 | Soil | 0.025 | 7 | 19 | 0.42 | 114 | 0.073 | <20 | 1.29 | 0.01 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064687 | Soil | 0.151 | 9 | 16 | 0.83 | 204 | 0.103 | <20 | 2.08 | 0.01 | 0.17 | <2 | <0.05 | <1 | <5 | 8 | <5 |



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
Report Date: November 29, 2018

Page: 1 of 3

Part: 1 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| | Method Analyte Unit MDL | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|---------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | |
| 2064514 | Soil | 2 | <3 | <2 | <1 | 22 | 5 | 35 | <0.3 | 16 | 7 | 218 | 2.22 | 7 | <2 | 35 | <0.5 | <3 | <3 | 51 |
| REP 2064514 | QC | 5 | <3 | 3 | | | | | | | | | | | | | | | | 0.40 |
| 2064520 | Soil | 2 | <3 | <2 | <1 | 8 | 8 | 82 | 0.5 | 10 | 9 | 668 | 2.63 | 4 | 4 | 76 | <0.5 | <3 | <3 | 53 |
| REP 2064520 | QC | | | | <1 | 8 | 8 | 85 | 0.4 | 10 | 9 | 685 | 2.65 | 5 | 3 | 77 | <0.5 | <3 | <3 | 53 |
| 2064557 | Soil | 3 | <3 | <2 | <1 | 26 | 7 | 47 | <0.3 | 21 | 9 | 327 | 2.64 | 8 | 3 | 35 | <0.5 | <3 | <3 | 62 |
| REP 2064557 | QC | 7 | <3 | <2 | | | | | | | | | | | | | | | | 0.33 |
| 2064563 | Soil | 3 | <3 | <2 | <1 | 8 | 4 | 96 | <0.3 | 10 | 9 | 566 | 2.84 | <2 | <2 | 45 | <0.5 | <3 | <3 | 66 |
| REP 2064563 | QC | | | | <1 | 8 | 4 | 97 | <0.3 | 10 | 9 | 574 | 2.82 | <2 | <2 | 48 | <0.5 | <3 | <3 | 66 |
| 2064602 | Soil | 4 | <3 | <2 | <1 | 8 | 4 | 21 | <0.3 | 8 | 3 | 187 | 1.21 | 3 | 3 | 21 | <0.5 | <3 | <3 | 28 |
| REP 2064602 | QC | 6 | <3 | 3 | | | | | | | | | | | | | | | | 0.29 |
| 2064608 | Soil | 4 | <3 | <2 | <1 | 12 | 3 | 60 | <0.3 | 9 | 7 | 473 | 2.22 | <2 | <2 | 30 | <0.5 | <3 | <3 | 51 |
| REP 2064608 | QC | | | | <1 | 12 | 4 | 58 | <0.3 | 8 | 7 | 471 | 2.19 | <2 | 2 | 30 | <0.5 | <3 | <3 | 50 |
| 2064637 | Soil | 3 | 4 | <2 | <1 | 14 | 7 | 74 | 0.5 | 12 | 9 | 518 | 2.96 | 6 | <2 | 32 | <0.5 | <3 | <3 | 66 |
| REP 2064637 | QC | 4 | 5 | 6 | | | | | | | | | | | | | | | | 0.40 |
| 2064643 | Soil | 3 | 6 | 6 | <1 | 15 | 5 | 75 | 0.4 | 10 | 8 | 564 | 2.35 | 3 | <2 | 26 | <0.5 | <3 | <3 | 51 |
| REP 2064643 | QC | | | | <1 | 15 | 4 | 73 | 0.5 | 10 | 8 | 545 | 2.32 | 3 | <2 | 26 | <0.5 | <3 | <3 | 52 |
| 2064671 | Soil | 5 | <3 | <2 | <1 | 21 | 4 | 21 | <0.3 | 9 | 4 | 201 | 1.32 | 4 | <2 | 57 | <0.5 | <3 | <3 | 31 |
| REP 2064671 | QC | I.S. | I.S. | I.S. | | | | | | | | | | | | | | | | 1.07 |
| 2064672 | Soil | 2 | <3 | 2 | <1 | 10 | 4 | 29 | <0.3 | 9 | 5 | 209 | 1.67 | 4 | 2 | 28 | <0.5 | <3 | <3 | 40 |
| REP 2064672 | QC | 3 | <3 | <2 | | | | | | | | | | | | | | | | 0.40 |
| 2064676 | Soil | 4 | <3 | <2 | <1 | 10 | 5 | 28 | <0.3 | 9 | 6 | 247 | 1.72 | 4 | <2 | 22 | <0.5 | <3 | <3 | 38 |
| REP 2064676 | QC | | | | <1 | 11 | 4 | 28 | <0.3 | 9 | 6 | 238 | 1.65 | 4 | <2 | 22 | <0.5 | <3 | <3 | 38 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | 14 | 149 | 135 | 350 | 1.4 | 78 | 13 | 1022 | 3.06 | 44 | 7 | 66 | 2.2 | 7 | 11 | 49 |
| STD DS11 | Standard | | | | 14 | 145 | 135 | 344 | 1.7 | 75 | 13 | 1036 | 3.14 | 44 | 7 | 66 | 2.2 | 8 | 10 | 48 |
| STD DS11 | Standard | | | | 13 | 137 | 129 | 325 | 1.6 | 72 | 12 | 977 | 3.01 | 41 | 6 | 63 | 2.2 | 7 | 9 | 45 |
| STD DS11 | Standard | | | | 14 | 151 | 136 | 351 | 1.8 | 78 | 13 | 1059 | 3.23 | 44 | 6 | 69 | 2.2 | 8 | 10 | 48 |
| STD DS11 | Standard | | | | 14 | 148 | 124 | 340 | 1.3 | 74 | 12 | 1004 | 3.05 | 42 | 7 | 63 | 1.9 | 8 | 11 | 46 |



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Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

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Page: 1 of 3

Part: 2 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| Method Analyte Unit MDL | | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|----------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | |
| 2064514 | Soil | 0.042 | 10 | 26 | 0.41 | 170 | 0.068 | <20 | 1.48 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064514 | QC | | | | | | | | | | | | | | | | |
| 2064520 | Soil | 0.071 | 10 | 11 | 0.87 | 135 | 0.123 | <20 | 3.28 | 0.01 | 0.12 | <2 | <0.05 | <1 | <5 | 13 | <5 |
| REP 2064520 | QC | 0.069 | 10 | 11 | 0.89 | 138 | 0.123 | <20 | 3.32 | 0.01 | 0.12 | <2 | <0.05 | <1 | <5 | 16 | <5 |
| 2064557 | Soil | 0.060 | 13 | 34 | 0.53 | 308 | 0.078 | <20 | 1.85 | 0.02 | 0.07 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064557 | QC | | | | | | | | | | | | | | | | |
| 2064563 | Soil | 0.130 | 6 | 16 | 0.79 | 146 | 0.135 | <20 | 2.16 | 0.02 | 0.13 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| REP 2064563 | QC | 0.132 | 6 | 15 | 0.79 | 148 | 0.137 | <20 | 2.17 | 0.02 | 0.13 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| 2064602 | Soil | 0.053 | 11 | 14 | 0.23 | 98 | 0.037 | <20 | 0.65 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064602 | QC | | | | | | | | | | | | | | | | |
| 2064608 | Soil | 0.102 | 7 | 13 | 0.64 | 131 | 0.117 | <20 | 1.61 | 0.02 | 0.20 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064608 | QC | 0.103 | 7 | 13 | 0.63 | 128 | 0.117 | <20 | 1.61 | 0.02 | 0.20 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| 2064637 | Soil | 0.115 | 8 | 20 | 0.75 | 159 | 0.104 | <20 | 2.16 | 0.02 | 0.21 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| REP 2064637 | QC | | | | | | | | | | | | | | | | |
| 2064643 | Soil | 0.085 | 7 | 16 | 0.61 | 154 | 0.103 | <20 | 1.94 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064643 | QC | 0.090 | 7 | 15 | 0.59 | 152 | 0.103 | <20 | 1.89 | 0.02 | 0.10 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| 2064671 | Soil | 0.051 | 6 | 14 | 0.25 | 171 | 0.037 | <20 | 0.73 | 0.04 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064671 | QC | | | | | | | | | | | | | | | | |
| 2064672 | Soil | 0.072 | 10 | 16 | 0.36 | 115 | 0.061 | <20 | 0.85 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064672 | QC | | | | | | | | | | | | | | | | |
| 2064676 | Soil | 0.067 | 8 | 16 | 0.28 | 166 | 0.047 | <20 | 1.23 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP 2064676 | QC | 0.070 | 7 | 14 | 0.28 | 160 | 0.046 | <20 | 1.21 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | 0.072 | 17 | 58 | 0.83 | 429 | 0.088 | <20 | 1.13 | 0.07 | 0.40 | 2 | 0.29 | <1 | <5 | <5 | <5 |
| STD DS11 | Standard | 0.070 | 15 | 56 | 0.82 | 355 | 0.089 | <20 | 1.11 | 0.07 | 0.39 | 3 | 0.28 | <1 | <5 | <5 | <5 |
| STD DS11 | Standard | 0.067 | 15 | 54 | 0.78 | 345 | 0.085 | <20 | 1.06 | 0.07 | 0.38 | 3 | 0.27 | <1 | <5 | <5 | <5 |
| STD DS11 | Standard | 0.071 | 17 | 59 | 0.84 | 440 | 0.094 | <20 | 1.14 | 0.07 | 0.40 | 3 | 0.29 | <1 | <5 | <5 | <5 |
| STD DS11 | Standard | 0.068 | 15 | 54 | 0.80 | 348 | 0.083 | <20 | 1.07 | 0.07 | 0.39 | <2 | 0.27 | <1 | <5 | <5 | <5 |



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Page: 2 of 3

Part: 1 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| | | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| STD OREAS262 | Standard | | | | <1 | 123 | 56 | 157 | 0.5 | 65 | 27 | 550 | 3.33 | 37 | 9 | 37 | 0.5 | 3 | <3 | 23 | 3.03 |
| STD OREAS262 | Standard | | | | <1 | 120 | 56 | 155 | 0.5 | 63 | 26 | 545 | 3.39 | 37 | 8 | 36 | <0.5 | 4 | <3 | 22 | 2.99 |
| STD OREAS262 | Standard | | | | <1 | 112 | 54 | 145 | 0.4 | 59 | 26 | 520 | 3.25 | 36 | 7 | 34 | 0.6 | 4 | <3 | 21 | 2.84 |
| STD OREAS262 | Standard | | | | <1 | 122 | 55 | 158 | 0.5 | 64 | 27 | 551 | 3.47 | 38 | 8 | 37 | 0.6 | 4 | <3 | 23 | 3.01 |
| STD OREAS262 | Standard | | | | <1 | 114 | 50 | 147 | 0.4 | 59 | 25 | 514 | 3.21 | 34 | 9 | 34 | <0.5 | 4 | <3 | 21 | 2.85 |
| STD OREAS45EA | Standard | | | | 1 | 729 | 14 | 35 | <0.3 | 401 | 51 | 419 | 22.59 | 4 | 10 | 4 | <0.5 | <3 | <3 | 317 | 0.04 |
| STD OREAS45EA | Standard | | | | 2 | 692 | 11 | 31 | 0.3 | 397 | 48 | 398 | 23.46 | 12 | 7 | 4 | <0.5 | <3 | <3 | 307 | 0.04 |
| STD OREAS45EA | Standard | | | | 2 | 653 | 13 | 30 | 0.3 | 384 | 47 | 382 | 23.70 | 13 | 6 | 4 | <0.5 | <3 | <3 | 299 | 0.03 |
| STD OREAS45EA | Standard | | | | 2 | 731 | 14 | 33 | 0.5 | 423 | 52 | 427 | 25.40 | 13 | 7 | 4 | <0.5 | <3 | <3 | 325 | 0.04 |
| STD OREAS45EA | Standard | | | | 4 | 711 | 16 | 34 | <0.3 | 387 | 50 | 408 | 21.63 | 4 | 10 | 4 | <0.5 | <3 | <3 | 308 | 0.04 |
| STD PD05 | Standard | 520 | 427 | 619 | | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | 501 | 427 | 598 | | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | 497 | 422 | 596 | | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | 501 | 420 | 603 | | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | 513 | 425 | 610 | | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | 507 | 440 | 606 | | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | 1014 | 949 | 1245 | | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | 937 | 884 | 1166 | | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | 978 | 889 | 1182 | | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | 1010 | 953 | 1262 | | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | 968 | 911 | 1172 | | | | | | | | | | | | | | | | | |
| STD OREAS45EA Expected | | | | | 1.6 | 709 | 14.3 | 31.4 | 0.26 | 381 | 52 | 400 | 22.65 | 11 | 10.7 | 4.05 | | | | 303 | 0.036 |
| STD DS11 Expected | | | | | 13.9 | 156 | 138 | 345 | 1.71 | 81.9 | 14.2 | 1055 | 3.2082 | 42.8 | 7.65 | 67.3 | 2.37 | 7.2 | 12.2 | 50 | 1.063 |
| STD OREAS262 Expected | | | | | | 118 | 56 | 154 | 0.45 | 62 | 26.9 | 530 | 3.284 | 35.8 | 9.33 | 36 | 0.61 | 3.39 | | 22.5 | 2.98 |
| STD PG04 Expected | | 1004 | 903 | 1196 | | | | | | | | | | | | | | | | | |
| STD PD05 Expected | | 519 | 430 | 596 | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 |
| BLK | Blank | | | | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 |
| BLK | Blank | | | | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 |



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Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Stu
Report Date: November 29, 2018

Page: 2 of 3

Part: 2 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| | | AQ300 P % | AQ300 La ppm | AQ300 Cr ppm | AQ300 Mg % | AQ300 Ba ppm | AQ300 Ti % | AQ300 B ppm | AQ300 Al % | AQ300 Na % | AQ300 K % | AQ300 W ppm | AQ300 S % | AQ300 Hg ppm | AQ300 Tl ppm | AQ300 Ga ppm | AQ300 Sc ppm |
|------------------------|----------|-----------------|--------------------|--------------------|------------------|--------------------|------------------|-------------------|------------------|------------------|-----------------|-------------------|-----------------|--------------------|--------------------|--------------------|--------------------|
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| STD OREAS262 | Standard | 0.041 | 16 | 43 | 1.20 | 264 | 0.003 | <20 | 1.27 | 0.07 | 0.32 | <2 | 0.27 | <1 | <5 | 5 | <5 |
| STD OREAS262 | Standard | 0.039 | 14 | 41 | 1.17 | 250 | 0.003 | <20 | 1.23 | 0.07 | 0.30 | <2 | 0.27 | <1 | <5 | <5 | <5 |
| STD OREAS262 | Standard | 0.038 | 14 | 39 | 1.12 | 240 | 0.003 | <20 | 1.19 | 0.07 | 0.29 | <2 | 0.26 | <1 | <5 | <5 | <5 |
| STD OREAS262 | Standard | 0.040 | 15 | 43 | 1.20 | 259 | 0.003 | <20 | 1.28 | 0.07 | 0.32 | <2 | 0.28 | <1 | <5 | <5 | <5 |
| STD OREAS262 | Standard | 0.038 | 14 | 39 | 1.12 | 241 | 0.003 | <20 | 1.16 | 0.07 | 0.29 | <2 | 0.25 | <1 | <5 | <5 | <5 |
| STD OREAS45EA | Standard | 0.031 | 8 | 917 | 0.10 | 153 | 0.100 | <20 | 3.43 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 13 | 87 |
| STD OREAS45EA | Standard | 0.031 | 7 | 861 | 0.10 | 145 | 0.102 | <20 | 3.25 | 0.02 | 0.06 | <2 | <0.05 | <1 | 10 | 12 | 81 |
| STD OREAS45EA | Standard | 0.030 | 7 | 844 | 0.09 | 142 | 0.094 | <20 | 3.09 | 0.02 | 0.06 | <2 | <0.05 | <1 | 10 | 13 | 77 |
| STD OREAS45EA | Standard | 0.032 | 8 | 911 | 0.10 | 154 | 0.110 | <20 | 3.53 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 11 | 86 |
| STD OREAS45EA | Standard | 0.030 | 8 | 891 | 0.10 | 148 | 0.101 | <20 | 3.35 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 15 | 84 |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PD05 | Standard | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | | | | | | | | | | | | | | | | |
| STD PG04 | Standard | | | | | | | | | | | | | | | | |
| STD OREAS45EA Expected | | 0.029 | 7.06 | 849 | 0.095 | 148 | 0.0984 | | 3.32 | 0.02 | 0.053 | | 0.036 | | | 12.4 | 78 |
| STD DS11 Expected | | 0.0701 | 18.6 | 61.5 | 0.85 | 417 | 0.0976 | 6 | 1.129 | 0.0694 | 0.4 | 2.9 | 0.2835 | 0.3 | 4.9 | 4.7 | 3.1 |
| STD OREAS262 Expected | | 0.04 | 15.9 | 41.7 | 1.17 | 248 | 0.003 | | 1.204 | 0.071 | 0.295 | | 0.253 | | | 3.73 | 3.24 |
| STD PG04 Expected | | | | | | | | | | | | | | | | | |
| STD PD05 Expected | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.001 | <1 | 2 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |



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Page: 3 of 3

Part: 1 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| | | FA330 | FA330 | FA330 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Au | Pt | Pd | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppb | ppb | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 |
| BLK | Blank | | | | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 |
| BLK | Blank | | | | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 |
| BLK | Blank | 3 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | <3 | 3 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | 5 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 2 | 4 | 4 | | | | | | | | | | | | | | | | | |
| BLK | Blank | <2 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | <2 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 2 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 4 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | <3 | <2 | | | | | | | | | | | | | | | | | |
| BLK | Blank | 3 | <3 | <2 | | | | | | | | | | | | | | | | | |



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Page: 3 of 3

Part: 2 of 2

QUALITY CONTROL REPORT

WHI18001046.1

| | | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | |