ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042670

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 90 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE FELL | FRANK PLOEGER | ANDREW STOKES |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-02 | Find Sample for Addn Analysis |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP61 | 33 element four acid ICP-AES | ICP-AES |

To: **OSISKO MINING LTD.**
**ATTN: ANDREW STOKES**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**

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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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | K | La |
| | Units | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | % | ppm |
| | LOR | 0.5 | 0.01 | 5 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 0.01 | 10 |
| L178561 | | <0.5 | 8.74 | 5 | 800 | 3.9 | <2 | 2.77 | <0.5 | 13 | 11 | 15 | 4.55 | 20 | 4.72 | 60 |
| L178562 | | <0.5 | 10.05 | 6 | 2100 | 5.9 | 2 | 1.99 | <0.5 | 10 | 8 | 123 | 3.50 | 20 | 5.28 | 60 |
| L178563 | | <0.5 | 6.98 | 12 | 1180 | 2.7 | <2 | 4.72 | <0.5 | 17 | 74 | 57 | 4.09 | 20 | 3.04 | 40 |
| L178564 | | <0.5 | 10.70 | 29 | 1470 | 6.8 | <2 | 2.51 | <0.5 | 22 | 27 | 228 | 5.99 | 30 | 5.60 | 90 |
| L178565 | | <0.5 | 8.42 | <5 | 200 | <0.5 | <2 | 8.53 | <0.5 | 48 | 238 | 65 | 7.59 | 20 | 0.68 | <10 |
| L178566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178567 | | <0.5 | 7.74 | 9 | 520 | 0.9 | <2 | 1.55 | <0.5 | 3 | 18 | 17 | 1.24 | 20 | 1.61 | 10 |
| L178568 | | <0.5 | 6.90 | 19 | 2100 | 3.1 | <2 | 3.72 | <0.5 | 30 | 173 | 40 | 6.35 | 20 | 3.66 | 40 |
| L178569 | | <0.5 | 6.98 | 7 | 1080 | 1.9 | <2 | 2.26 | <0.5 | 6 | 41 | 8 | 2.21 | 20 | 2.55 | 30 |
| L178570 | | 1.5 | 7.22 | 23 | 2580 | 2.6 | <2 | 5.02 | <0.5 | 18 | 102 | 128 | 5.79 | 20 | 3.32 | 80 |
| L178571 | | <0.5 | 9.12 | 10 | 2430 | 4.0 | <2 | 1.63 | <0.5 | 17 | 15 | 87 | 4.80 | 20 | 4.55 | 90 |
| L178572 | | <0.5 | 8.97 | 14 | 2820 | 4.4 | <2 | 2.53 | 1.7 | 9 | 2 | 153 | 3.46 | 20 | 4.57 | 50 |
| L178573 | | <0.5 | 7.87 | 11 | 610 | 1.1 | <2 | 1.68 | <0.5 | 4 | 17 | 5 | 1.73 | 20 | 2.38 | 10 |
| L178574 | | <0.5 | 6.66 | <5 | 730 | 1.1 | <2 | 2.63 | <0.5 | 17 | 130 | 37 | 3.53 | 20 | 2.05 | 20 |
| L178575 | | <0.5 | 4.99 | 42 | 290 | 0.9 | <2 | 0.77 | <0.5 | 21 | 96 | 7 | 4.27 | 10 | 1.08 | 30 |
| L178576 | | <0.5 | 6.53 | 11 | 1590 | 1.7 | <2 | 2.75 | <0.5 | 8 | 47 | 33 | 2.40 | 20 | 2.27 | 30 |
| L178577 | | 0.5 | 6.61 | 31 | 1940 | 1.6 | <2 | 2.32 | <0.5 | 7 | 39 | 81 | 2.06 | 20 | 2.22 | 20 |
| L178578 | | <0.5 | 6.96 | 51 | 2030 | 1.8 | <2 | 2.19 | <0.5 | 7 | 41 | 11 | 2.02 | 20 | 2.19 | 30 |
| L178579 | | 1.9 | 7.06 | 32 | 2120 | 2.0 | <2 | 1.96 | 3.6 | 7 | 39 | 16 | 2.28 | 20 | 2.59 | 30 |
| L178580 | | <0.5 | 6.95 | 15 | 1700 | 1.3 | <2 | 1.52 | 0.5 | 4 | 40 | 17 | 2.07 | 20 | 2.05 | 30 |
| L178581 | | 0.5 | 7.00 | 26 | 2040 | 1.8 | <2 | 2.55 | 0.5 | 8 | 61 | 30 | 2.56 | 20 | 2.80 | 30 |
| L178582 | | <0.5 | 7.59 | 24 | 1100 | 2.0 | <2 | 2.57 | <0.5 | 10 | 69 | 23 | 2.93 | 20 | 2.57 | 30 |
| L178583 | | <0.5 | 7.51 | 36 | 2090 | 1.7 | <2 | 2.49 | <0.5 | 11 | 71 | 24 | 3.02 | 20 | 2.64 | 30 |
| L178584 | | <0.5 | 7.05 | 16 | 1630 | 1.7 | <2 | 2.50 | <0.5 | 9 | 62 | 22 | 2.62 | 20 | 2.54 | 30 |
| L178585 | | <0.5 | 7.86 | 13 | 2400 | 1.9 | <2 | 1.36 | <0.5 | 9 | 58 | 9 | 2.50 | 20 | 2.45 | 40 |
| L178586 | | <0.5 | 7.95 | 32 | 1580 | 2.7 | <2 | 2.34 | <0.5 | 34 | 184 | 103 | 7.38 | 20 | 2.14 | 40 |
| L178587 | | <0.5 | 7.24 | 34 | 1590 | 2.0 | <2 | 3.30 | <0.5 | 27 | 67 | 112 | 6.28 | 20 | 3.84 | 40 |
| L178588 | | <0.5 | 7.35 | 7 | 2420 | 1.9 | <2 | 2.45 | <0.5 | 9 | 57 | 19 | 2.69 | 20 | 2.17 | 30 |
| L178589 | | 1.1 | 7.31 | 17 | 1460 | 2.2 | <2 | 2.27 | <0.5 | 14 | 67 | 42 | 2.98 | 20 | 2.88 | 30 |
| L178590 | | 2.9 | 7.50 | 55 | 920 | 2.0 | <2 | 2.82 | 3.0 | 15 | 70 | 172 | 3.08 | 20 | 2.54 | 30 |
| L178591 | | <0.5 | 6.75 | 14 | 1700 | 1.8 | <2 | 3.00 | <0.5 | 9 | 54 | 12 | 2.40 | 20 | 2.24 | 30 |
| L178592 | | <0.5 | 8.51 | 14 | 4500 | 6.3 | <2 | 2.06 | <0.5 | 1 | 82 | 60 | 3.15 | 20 | 4.06 | 60 |
| L178593 | | <0.5 | 7.39 | 12 | 1890 | 1.8 | <2 | 2.29 | <0.5 | 8 | 74 | 3 | 2.59 | 20 | 2.61 | 30 |
| L178594 | | <0.5 | 6.73 | 13 | 1220 | 1.7 | <2 | 4.52 | <0.5 | 20 | 155 | 35 | 4.18 | 20 | 2.65 | 60 |
| L178595 | | <0.5 | 7.59 | 22 | 1270 | 1.8 | <2 | 1.82 | 0.5 | 10 | 48 | 9 | 2.27 | 20 | 2.31 | 30 |
| L178596 | | <0.5 | 7.00 | 24 | 3000 | 1.7 | <2 | 3.21 | <0.5 | 10 | 51 | 5 | 2.95 | 20 | 2.49 | 30 |
| L178597 | | 1.2 | 7.33 | 20 | 2090 | 1.7 | <2 | 1.94 | 0.7 | 6 | 49 | 17 | 2.54 | 20 | 2.43 | 30 |
| L178598 | | <0.5 | 7.40 | 25 | 1820 | 1.9 | <2 | 1.90 | <0.5 | 7 | 41 | 9 | 2.03 | 20 | 2.51 | 30 |
| L178599 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178600 | | <0.5 | 6.75 | 11 | 1500 | 1.9 | <2 | 2.43 | <0.5 | 10 | 76 | 6 | 2.86 | 20 | 2.39 | 30 |

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

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl | U |
| | Units | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | LOR | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 5 | 1 | 1 | 20 | 0.01 | 10 | 10 |
| L178561 | | 1.00 | 997 | <1 | 1.94 | 5 | 1870 | 36 | 2.73 | <5 | 6 | 1700 | 20 | 0.28 | 10 | <10 |
| L178562 | | 0.77 | 1620 | 6 | 2.56 | 4 | 1330 | 23 | 0.51 | 6 | 5 | 870 | 20 | 0.27 | 10 | <10 |
| L178563 | | 2.16 | 1185 | <1 | 2.61 | 25 | 2290 | 8 | 0.18 | <5 | 15 | 1220 | <20 | 0.24 | <10 | <10 |
| L178564 | | 1.29 | 1350 | 27 | 1.81 | 22 | 4430 | 39 | 0.49 | <5 | 8 | 789 | 30 | 0.39 | <10 | 10 |
| L178565 | | 4.72 | 1290 | 1 | 1.81 | 199 | 200 | 8 | 0.22 | <5 | 34 | 487 | <20 | 0.45 | 10 | <10 |
| L178566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178567 | | 0.53 | 252 | <1 | 4.12 | 7 | 480 | 7 | 0.04 | 8 | 4 | 327 | <20 | 0.17 | <10 | <10 |
| L178568 | | 3.95 | 1010 | <1 | 2.16 | 52 | 2720 | 9 | 0.12 | <5 | 21 | 522 | <20 | 0.50 | <10 | <10 |
| L178569 | | 0.88 | 622 | <1 | 2.56 | 19 | 770 | 18 | 0.11 | <5 | 5 | 1070 | <20 | 0.10 | <10 | <10 |
| L178570 | | 2.91 | 1345 | <1 | 1.80 | 26 | 2610 | 9 | 0.05 | 102 | 20 | 1580 | 30 | 0.43 | <10 | <10 |
| L178571 | | 0.78 | 1110 | <1 | 2.73 | 5 | 2880 | 12 | 0.04 | 5 | 6 | 1330 | 30 | 0.28 | <10 | <10 |
| L178572 | | 0.68 | 1445 | <1 | 2.48 | 2 | 1230 | 19 | 0.12 | 8 | 3 | 1365 | 20 | 0.16 | <10 | <10 |
| L178573 | | 0.80 | 216 | <1 | 2.65 | 7 | 500 | 4 | 1.21 | <5 | 4 | 133 | <20 | 0.10 | <10 | <10 |
| L178574 | | 1.59 | 567 | <1 | 2.15 | 68 | 690 | 6 | 0.02 | 6 | 13 | 441 | <20 | 0.20 | 10 | <10 |
| L178575 | | 0.92 | 256 | 2 | 2.58 | 42 | 230 | 16 | 3.84 | <5 | 7 | 221 | <20 | 0.13 | <10 | <10 |
| L178576 | | 1.15 | 894 | <1 | 3.04 | 21 | 1020 | 10 | 0.51 | <5 | 6 | 822 | <20 | 0.19 | <10 | <10 |
| L178577 | | 0.89 | 1010 | <1 | 3.31 | 17 | 720 | 24 | 0.66 | 9 | 5 | 1210 | <20 | 0.13 | <10 | <10 |
| L178578 | | 0.91 | 579 | 1 | 3.80 | 18 | 740 | 27 | 1.09 | <5 | 5 | 506 | <20 | 0.12 | <10 | <10 |
| L178579 | | 1.03 | 1240 | <1 | 3.06 | 15 | 730 | 1370 | 1.15 | <5 | 5 | 1040 | <20 | 0.11 | <10 | <10 |
| L178580 | | 1.04 | 1155 | <1 | 3.33 | 19 | 640 | 13 | 0.12 | <5 | 5 | 1040 | <20 | 0.08 | <10 | <10 |
| L178581 | | 0.97 | 1630 | 1 | 2.85 | 25 | 800 | 73 | 1.33 | <5 | 6 | 1050 | <20 | 0.11 | <10 | <10 |
| L178582 | | 0.93 | 974 | <1 | 3.34 | 26 | 1020 | 45 | 1.50 | <5 | 8 | 2110 | <20 | 0.14 | <10 | <10 |
| L178583 | | 1.06 | 789 | <1 | 3.35 | 28 | 930 | 26 | 1.20 | <5 | 8 | 1635 | <20 | 0.13 | <10 | <10 |
| L178584 | | 1.07 | 885 | <1 | 2.83 | 25 | 810 | 33 | 0.56 | <5 | 7 | 1010 | <20 | 0.14 | <10 | <10 |
| L178585 | | 0.84 | 437 | <1 | 3.48 | 26 | 840 | 26 | 0.23 | <5 | 7 | 944 | <20 | 0.20 | <10 | <10 |
| L178586 | | 3.41 | 1040 | <1 | 3.03 | 53 | 2770 | 32 | 0.66 | 8 | 21 | 572 | <20 | 0.36 | <10 | <10 |
| L178587 | | 2.05 | 1560 | <1 | 1.49 | 19 | 1770 | 22 | 1.74 | <5 | 26 | 1705 | <20 | 0.23 | <10 | <10 |
| L178588 | | 0.97 | 748 | <1 | 3.79 | 24 | 780 | 75 | 0.21 | <5 | 7 | 1375 | <20 | 0.10 | <10 | <10 |
| L178589 | | 1.04 | 914 | <1 | 2.60 | 28 | 930 | 11 | 1.54 | 7 | 9 | 989 | <20 | 0.12 | <10 | <10 |
| L178590 | | 1.21 | 1465 | 1 | 3.18 | 30 | 980 | 370 | 1.81 | 37 | 8 | 463 | <20 | 0.12 | <10 | <10 |
| L178591 | | 1.12 | 712 | <1 | 3.29 | 26 | 1020 | 24 | 0.04 | <5 | 7 | 821 | <20 | 0.16 | <10 | <10 |
| L178592 | | 1.00 | 872 | <1 | 0.70 | 21 | 1690 | 25 | 0.08 | 5 | 7 | 1240 | 20 | 0.33 | <10 | <10 |
| L178593 | | 0.92 | 560 | <1 | 3.39 | 27 | 860 | 14 | 0.42 | 5 | 7 | 1135 | <20 | 0.12 | <10 | <10 |
| L178594 | | 2.56 | 886 | <1 | 2.24 | 92 | 1790 | 33 | 0.14 | <5 | 13 | 743 | <20 | 0.29 | <10 | <10 |
| L178595 | | 0.82 | 432 | <1 | 3.82 | 23 | 770 | 123 | 0.76 | <5 | 6 | 1020 | <20 | 0.12 | <10 | <10 |
| L178596 | | 1.23 | 812 | <1 | 3.25 | 24 | 880 | 14 | 0.72 | <5 | 6 | 1940 | <20 | 0.11 | <10 | <10 |
| L178597 | | 0.93 | 1065 | <1 | 3.01 | 17 | 690 | 94 | 1.23 | 8 | 6 | 1330 | <20 | 0.11 | <10 | <10 |
| L178598 | | 0.83 | 503 | <1 | 3.14 | 20 | 740 | 15 | 0.97 | <5 | 5 | 1060 | <20 | 0.12 | <10 | <10 |
| L178599 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178600 | | 1.17 | 718 | 1 | 3.59 | 28 | 940 | 13 | 0.55 | 10 | 8 | 1100 | <20 | 0.14 | <10 | <10 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP61<br>V<br>ppm<br>1 | ME-ICP61<br>W<br>ppm<br>10 | ME-ICP61<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|
| L178561 | | 140 | 10 | 55 |
| L178562 | | 110 | 10 | 102 |
| L178563 | | 119 | 10 | 91 |
| L178564 | | 192 | 20 | 316 |
| L178565 | | 268 | <10 | 71 |
| L178566 | | NSS | NSS | NSS |
| L178567 | | 37 | <10 | 18 |
| L178568 | | 189 | <10 | 108 |
| L178569 | | 55 | <10 | 113 |
| L178570 | | 174 | 10 | 164 |
| L178571 | | 117 | <10 | 113 |
| L178572 | | 88 | <10 | 813 |
| L178573 | | 44 | <10 | 21 |
| L178574 | | 98 | <10 | 62 |
| L178575 | | 46 | <10 | 33 |
| L178576 | | 62 | 10 | 69 |
| L178577 | | 45 | <10 | 156 |
| L178578 | | 46 | <10 | 67 |
| L178579 | | 46 | <10 | 1355 |
| L178580 | | 36 | <10 | 163 |
| L178581 | | 68 | <10 | 161 |
| L178582 | | 74 | <10 | 129 |
| L178583 | | 75 | <10 | 73 |
| L178584 | | 65 | <10 | 88 |
| L178585 | | 62 | <10 | 87 |
| L178586 | | 221 | <10 | 149 |
| L178587 | | 204 | <10 | 120 |
| L178588 | | 68 | <10 | 217 |
| L178589 | | 78 | <10 | 68 |
| L178590 | | 78 | <10 | 1410 |
| L178591 | | 64 | <10 | 65 |
| L178592 | | 218 | <10 | 52 |
| L178593 | | 73 | <10 | 55 |
| L178594 | | 111 | <10 | 94 |
| L178595 | | 53 | <10 | 149 |
| L178596 | | 65 | <10 | 99 |
| L178597 | | 59 | <10 | 265 |
| L178598 | | 45 | <10 | 43 |
| L178599 | | NSS | NSS | NSS |
| L178600 | | 74 | <10 | 55 |

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# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | K | La |
| | Units | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | % | ppm |
| | LOR | 0.5 | 0.01 | 5 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 0.01 | 10 |
| L178101 | | <0.5 | 7.20 | 13 | 2160 | 2.0 | <2 | 2.62 | <0.5 | 9 | 72 | 12 | 2.59 | 20 | 2.48 | 30 |
| L178102 | | 0.5 | 6.95 | 28 | 1680 | 1.6 | <2 | 2.51 | <0.5 | 11 | 93 | 7 | 2.69 | 20 | 3.14 | 30 |
| L178103 | | <0.5 | 6.82 | 32 | 1590 | 1.7 | <2 | 2.76 | <0.5 | 17 | 111 | 41 | 3.63 | 20 | 1.96 | 30 |
| L178104 | | 1.0 | 6.19 | 128 | 230 | 1.7 | 3 | 3.69 | 1.9 | 60 | 132 | 69 | 7.35 | 20 | 2.90 | 40 |
| L178105 | | 0.6 | 7.95 | 15 | 1480 | 2.1 | <2 | 1.73 | <0.5 | 9 | 47 | 10 | 2.48 | 20 | 2.69 | 30 |
| L178106 | | 1.4 | 7.52 | 52 | 1500 | 1.8 | <2 | 2.15 | <0.5 | 5 | 40 | 11 | 2.25 | 20 | 2.32 | 30 |
| L178107 | | <0.5 | 7.74 | 7 | 1000 | 2.0 | 3 | 2.98 | <0.5 | 14 | 60 | 6 | 3.09 | 20 | 1.88 | 30 |
| L178108 | | 0.9 | 7.30 | 42 | 140 | 6.4 | 4 | 4.25 | <0.5 | 26 | 78 | 186 | 6.60 | 20 | 2.44 | 140 |
| L178109 | | 1.7 | 7.50 | 80 | 310 | 2.2 | 4 | 1.52 | <0.5 | 32 | 295 | 35 | 5.66 | 20 | 4.62 | 30 |
| L178110 | | <0.5 | 7.92 | 10 | 1470 | 2.6 | 3 | 3.01 | <0.5 | 20 | 110 | 61 | 4.86 | 20 | 2.05 | 60 |
| L178111 | | <0.5 | 7.47 | 11 | 1040 | 2.3 | 4 | 2.72 | <0.5 | 27 | 240 | 88 | 5.51 | 20 | 1.45 | 50 |
| L178112 | | <0.5 | 6.30 | <5 | 1950 | 1.6 | 3 | 4.96 | <0.5 | 28 | 200 | 44 | 5.14 | 20 | 4.22 | 40 |
| L178113 | | <0.5 | 6.78 | 7 | 710 | 1.3 | 4 | 2.60 | <0.5 | 25 | 179 | 50 | 4.34 | 20 | 1.07 | 30 |
| L178114 | | <0.5 | 6.91 | 8 | 740 | 1.1 | 3 | 2.36 | <0.5 | 18 | 150 | 28 | 3.97 | 10 | 1.68 | 20 |
| L178115 | | <0.5 | 4.88 | 10 | 5170 | 1.0 | 4 | 8.64 | 0.5 | 48 | 70 | 76 | 7.16 | 20 | 0.11 | 130 |
| L178116 | | <0.5 | 7.44 | 17 | 750 | 1.2 | <2 | 2.81 | <0.5 | 23 | 158 | 34 | 4.77 | 20 | 1.21 | 20 |
| L178117 | | <0.5 | 7.42 | 14 | 660 | 1.2 | 3 | 1.03 | <0.5 | 30 | 190 | 198 | 2.18 | 20 | 1.74 | 20 |
| L178118 | | 0.6 | 6.95 | 9 | 5810 | 4.1 | 6 | 5.75 | <0.5 | 29 | 46 | 159 | 6.65 | 20 | 4.41 | 170 |
| L178119 | | <0.5 | 7.33 | 31 | 2330 | 2.2 | <2 | 5.01 | <0.5 | 31 | 162 | 111 | 6.87 | 20 | 4.87 | 50 |
| L178120 | | <0.5 | 7.32 | 44 | 1760 | 2.8 | 4 | 4.52 | <0.5 | 29 | 136 | 110 | 6.20 | 20 | 4.07 | 40 |
| L178458 | | <0.5 | 9.35 | <5 | 2560 | 2.7 | 2 | 0.78 | <0.5 | 4 | 27 | 6 | 1.78 | 20 | 4.87 | 30 |
| L178459 | | <0.5 | 7.34 | 8 | 1330 | 2.1 | 2 | 5.62 | <0.5 | 28 | 160 | 63 | 7.17 | 20 | 3.33 | 40 |
| L178460 | | <0.5 | 7.95 | <5 | 1380 | 2.3 | 3 | 2.97 | <0.5 | 22 | 148 | 6 | 5.03 | 20 | 3.22 | 30 |
| L178461 | | <0.5 | 6.94 | 18 | 690 | 1.1 | <2 | 2.82 | <0.5 | 22 | 103 | 27 | 3.21 | 20 | 1.14 | 20 |
| L178462 | | <0.5 | 8.09 | 6 | 1210 | 2.2 | 3 | 3.98 | 0.8 | 26 | 119 | 104 | 6.88 | 20 | 2.73 | 50 |
| L178463 | | <0.5 | 8.06 | <5 | 1550 | 2.0 | 2 | 5.10 | <0.5 | 24 | 62 | 2 | 5.56 | 20 | 2.71 | 40 |
| L178464 | | <0.5 | 6.93 | <5 | 610 | 1.6 | <2 | 7.07 | <0.5 | 20 | 67 | 14 | 5.80 | 20 | 2.41 | 50 |
| L178465 | | <0.5 | 6.46 | 9 | 2670 | 6.5 | 7 | 5.42 | <0.5 | 31 | 62 | 147 | 8.17 | 20 | 1.83 | 160 |
| L178466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178467 | | <0.5 | 7.35 | 14 | 1950 | 2.7 | <2 | 4.62 | 0.5 | 30 | 135 | 97 | 6.27 | 20 | 3.59 | 50 |
| L178468 | | <0.5 | 7.70 | 21 | 150 | 0.8 | 4 | 5.55 | <0.5 | 56 | 64 | 94 | 10.50 | 20 | 0.59 | 10 |
| L178469 | | <0.5 | 6.81 | 13 | 120 | 0.6 | <2 | 7.14 | 0.5 | 16 | 123 | 90 | 5.90 | 20 | 0.41 | 10 |
| L178470 | | <0.5 | 7.96 | <5 | 2900 | 2.2 | <2 | 3.10 | <0.5 | 18 | 64 | 33 | 4.85 | 20 | 3.92 | 60 |
| L178471 | | <0.5 | 7.14 | <5 | 560 | 1.1 | 2 | 2.66 | <0.5 | 26 | 218 | 38 | 4.79 | 20 | 1.76 | 20 |
| L178472 | | <0.5 | 7.52 | <5 | 2860 | 2.1 | <2 | 2.23 | <0.5 | 8 | 58 | 32 | 2.23 | 20 | 2.89 | 30 |
| L178473 | | <0.5 | 4.69 | <5 | 150 | <0.5 | 2 | 16.3 | 0.6 | 79 | 1655 | 60 | 6.98 | 10 | 0.25 | <10 |
| L178474 | | <0.5 | 8.67 | <5 | 240 | <0.5 | 4 | 5.38 | <0.5 | 50 | 253 | 74 | 7.27 | 10 | 1.12 | <10 |
| L178475 | | <0.5 | 8.41 | 8 | 320 | <0.5 | <2 | 7.97 | <0.5 | 40 | 335 | 26 | 5.85 | 10 | 1.15 | <10 |
| L178476 | | <0.5 | 7.55 | <5 | 240 | <0.5 | 2 | 6.08 | <0.5 | 52 | 85 | 187 | 10.70 | 20 | 0.54 | 10 |
| L178477 | | <0.5 | 7.34 | <5 | 70 | 0.5 | <2 | 8.03 | <0.5 | 44 | 58 | 50 | 11.00 | 20 | 0.21 | 10 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **OSISKO MINING LTD.**
**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl | U |
| | Units | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | LOR | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 5 | 1 | 1 | 20 | 0.01 | 10 | 10 |
| L178101 | | 0.82 | 678 | <1 | 3.36 | 24 | 860 | 43 | 0.17 | 6 | 7 | 2100 | <20 | 0.13 | <10 | <10 |
| L178102 | | 1.10 | 1200 | 1 | 2.75 | 34 | 920 | 39 | 1.56 | <5 | 8 | 858 | <20 | 0.23 | <10 | <10 |
| L178103 | | 1.83 | 772 | 1 | 2.81 | 45 | 1420 | 68 | 0.84 | <5 | 12 | 970 | <20 | 0.28 | <10 | <10 |
| L178104 | | 2.33 | 3090 | 1 | 1.28 | 69 | 2320 | 350 | 4.30 | <5 | 19 | 253 | <20 | 0.15 | 10 | <10 |
| L178105 | | 0.75 | 558 | <1 | 3.43 | 22 | 740 | 19 | 1.35 | <5 | 6 | 1145 | <20 | 0.10 | <10 | <10 |
| L178106 | | 0.95 | 1105 | 1 | 3.37 | 18 | 720 | 40 | 1.03 | <5 | 5 | 1345 | <20 | 0.10 | <10 | <10 |
| L178107 | | 1.36 | 829 | <1 | 4.78 | 38 | 810 | 22 | 1.10 | <5 | 8 | 839 | <20 | 0.14 | 10 | <10 |
| L178108 | | 2.80 | 2270 | 1 | 3.13 | 46 | 1600 | 54 | 3.57 | <5 | 16 | 1245 | 40 | 0.45 | <10 | <10 |
| L178109 | | 1.93 | 1415 | 1 | 1.97 | 153 | 850 | 52 | 2.92 | <5 | 20 | 360 | <20 | 0.41 | <10 | <10 |
| L178110 | | 1.86 | 1410 | <1 | 3.48 | 66 | 1230 | 14 | 0.13 | <5 | 10 | 773 | 20 | 0.29 | <10 | <10 |
| L178111 | | 2.45 | 1245 | 1 | 2.88 | 138 | 1080 | 13 | 0.26 | <5 | 17 | 537 | 20 | 0.42 | <10 | <10 |
| L178112 | | 3.73 | 1085 | 1 | 1.73 | 96 | 2310 | 9 | 0.01 | <5 | 17 | 1240 | 20 | 0.35 | <10 | <10 |
| L178113 | | 2.19 | 1105 | 1 | 2.86 | 103 | 740 | 13 | 0.14 | <5 | 17 | 406 | <20 | 0.35 | <10 | <10 |
| L178114 | | 1.61 | 675 | 2 | 2.93 | 92 | 680 | 4 | 0.14 | <5 | 14 | 421 | <20 | 0.19 | <10 | <10 |
| L178115 | | 5.57 | 1355 | 105 | 2.12 | 48 | 5430 | 13 | 0.14 | 7 | 29 | 1620 | 30 | 0.39 | <10 | <10 |
| L178116 | | 2.45 | 878 | 1 | 3.05 | 72 | 860 | 18 | 0.13 | <5 | 16 | 541 | <20 | 0.26 | <10 | <10 |
| L178117 | | 1.20 | 319 | 1 | 2.98 | 90 | 740 | 39 | 0.26 | <5 | 16 | 215 | <20 | 0.27 | <10 | <10 |
| L178118 | | 2.15 | 1620 | 3 | 2.03 | 20 | 6470 | 48 | 0.14 | <5 | 13 | 2570 | 50 | 0.45 | <10 | <10 |
| L178119 | | 3.71 | 1215 | 1 | 2.17 | 47 | 2950 | 15 | 0.01 | <5 | 21 | 1715 | 20 | 0.55 | <10 | <10 |
| L178120 | | 3.35 | 1025 | <1 | 3.00 | 40 | 2650 | 20 | 0.02 | 5 | 20 | 881 | <20 | 0.51 | <10 | <10 |
| L178458 | | 0.33 | 421 | 1 | 4.59 | 11 | 490 | 31 | 0.02 | <5 | 3 | 1210 | 20 | 0.11 | <10 | <10 |
| L178459 | | 2.74 | 1470 | 1 | 1.23 | 42 | 1630 | 4 | 0.01 | <5 | 30 | 874 | <20 | 0.44 | <10 | <10 |
| L178460 | | 1.69 | 932 | <1 | 1.94 | 48 | 1560 | 5 | <0.01 | <5 | 19 | 498 | <20 | 0.37 | <10 | <10 |
| L178461 | | 1.41 | 885 | 3 | 3.87 | 52 | 670 | 5 | 0.31 | 5 | 8 | 419 | <20 | 0.16 | <10 | <10 |
| L178462 | | 2.50 | 1600 | 1 | 2.44 | 34 | 1860 | 4 | 0.02 | 6 | 24 | 392 | <20 | 0.47 | 10 | <10 |
| L178463 | | 2.57 | 1365 | <1 | 1.91 | 24 | 1570 | 7 | 0.01 | <5 | 17 | 492 | <20 | 0.22 | 10 | <10 |
| L178464 | | 2.82 | 1665 | <1 | 2.00 | 31 | 2030 | 3 | <0.01 | <5 | 28 | 585 | <20 | 0.43 | <10 | <10 |
| L178465 | | 3.37 | 1790 | <1 | 2.71 | 30 | 6240 | 27 | 0.06 | <5 | 23 | 1955 | 40 | 0.62 | <10 | <10 |
| L178466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178467 | | 3.32 | 1070 | <1 | 2.55 | 43 | 2650 | 17 | 0.03 | <5 | 20 | 1700 | 20 | 0.48 | <10 | <10 |
| L178468 | | 1.65 | 3800 | <1 | 2.80 | 65 | 780 | 2 | 0.24 | <5 | 45 | 150 | <20 | 0.96 | <10 | <10 |
| L178469 | | 1.88 | 1125 | 1 | 0.03 | 54 | 320 | 2 | 0.24 | <5 | 9 | 220 | <20 | 0.22 | <10 | <10 |
| L178470 | | 1.71 | 788 | 4 | 4.10 | 26 | 2450 | 34 | 0.02 | <5 | 12 | 1490 | <20 | 0.37 | <10 | <10 |
| L178471 | | 2.19 | 694 | 1 | 2.83 | 86 | 830 | 3 | 0.21 | <5 | 16 | 360 | <20 | 0.34 | <10 | <10 |
| L178472 | | 0.99 | 460 | 1 | 3.91 | 24 | 760 | 19 | 0.04 | <5 | 6 | 1045 | <20 | 0.18 | <10 | <10 |
| L178473 | | 4.63 | 3500 | <1 | 0.95 | 659 | 170 | 3 | 0.14 | <5 | 36 | 460 | <20 | 0.35 | <10 | <10 |
| L178474 | | 6.03 | 1250 | <1 | 2.43 | 92 | 160 | 3 | 0.02 | <5 | 46 | 312 | <20 | 0.29 | <10 | <10 |
| L178475 | | 6.02 | 1085 | <1 | 1.46 | 103 | 150 | <2 | 0.01 | <5 | 38 | 262 | <20 | 0.24 | <10 | <10 |
| L178476 | | 2.90 | 2310 | <1 | 2.95 | 85 | 460 | 4 | 0.05 | 5 | 44 | 208 | <20 | 0.73 | 10 | <10 |
| L178477 | | 2.06 | 2650 | <1 | 2.31 | 49 | 670 | 5 | 0.03 | <5 | 42 | 277 | <20 | 0.99 | 10 | <10 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP61<br>V<br>ppm<br>1 | ME-ICP61<br>W<br>ppm<br>10 | ME-ICP61<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|
| L178101 | | 70 | <10 | 165 |
| L178102 | | 76 | <10 | 77 |
| L178103 | | 105 | <10 | 190 |
| L178104 | | 161 | 10 | 742 |
| L178105 | | 49 | <10 | 57 |
| L178106 | | 50 | <10 | 78 |
| L178107 | | 87 | <10 | 35 |
| L178108 | | 222 | <10 | 264 |
| L178109 | | 147 | <10 | 214 |
| L178110 | | 133 | <10 | 80 |
| L178111 | | 163 | <10 | 126 |
| L178112 | | 150 | <10 | 91 |
| L178113 | | 124 | <10 | 87 |
| L178114 | | 104 | <10 | 61 |
| L178115 | | 202 | <10 | 223 |
| L178116 | | 124 | <10 | 85 |
| L178117 | | 124 | <10 | 50 |
| L178118 | | 217 | <10 | 118 |
| L178119 | | 201 | <10 | 102 |
| L178120 | | 181 | <10 | 96 |
| L178458 | | 47 | <10 | 39 |
| L178459 | | 239 | <10 | 145 |
| L178460 | | 189 | <10 | 84 |
| L178461 | | 65 | <10 | 49 |
| L178462 | | 213 | 10 | 117 |
| L178463 | | 154 | <10 | 84 |
| L178464 | | 234 | <10 | 69 |
| L178465 | | 252 | 10 | 176 |
| L178466 | | NSS | NSS | NSS |
| L178467 | | 176 | <10 | 95 |
| L178468 | | 382 | <10 | 127 |
| L178469 | | 68 | <10 | 104 |
| L178470 | | 130 | <10 | 111 |
| L178471 | | 134 | <10 | 96 |
| L178472 | | 43 | <10 | 62 |
| L178473 | | 180 | <10 | 80 |
| L178474 | | 226 | <10 | 73 |
| L178475 | | 164 | <10 | 41 |
| L178476 | | 317 | 10 | 161 |
| L178477 | | 373 | 10 | 132 |

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# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | K | La |
| | Units | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | % | ppm |
| | LOR | 0.5 | 0.01 | 5 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 0.01 | 10 |
| L178478 | | <0.5 | 7.66 | <5 | 80 | 0.5 | <2 | 8.17 | <0.5 | 41 | 71 | 82 | 8.27 | 20 | 0.44 | <10 |
| L178479 | | <0.5 | 7.78 | <5 | 1200 | 1.6 | <2 | 4.28 | <0.5 | 30 | 127 | 71 | 6.16 | 20 | 2.25 | 40 |
| L178480 | | <0.5 | 2.14 | <5 | 920 | 2.0 | <2 | 12.65 | <0.5 | 45 | 117 | 21 | 6.16 | 10 | 1.18 | 100 |
| L178481 | | <0.5 | 7.33 | <5 | 40 | <0.5 | <2 | 5.14 | <0.5 | 52 | 15 | 300 | 10.25 | 20 | 0.27 | 10 |
| L178482 | | <0.5 | 7.13 | <5 | 110 | <0.5 | 3 | 6.23 | <0.5 | 42 | 302 | 20 | 7.09 | 10 | 0.47 | <10 |
| L178483 | | <0.5 | 8.29 | 13 | 70 | <0.5 | <2 | 6.56 | <0.5 | 57 | 379 | 35 | 5.95 | 20 | 0.41 | 10 |
| L178484 | | <0.5 | 7.29 | <5 | 2170 | 2.6 | <2 | 5.21 | <0.5 | 31 | 220 | 73 | 6.55 | 20 | 1.58 | 80 |
| L178485 | | <0.5 | 7.03 | <5 | 40 | <0.5 | <2 | 4.37 | <0.5 | 56 | 188 | 97 | 10.15 | 20 | 0.33 | <10 |
| L178486 | | <0.5 | 6.49 | <5 | 70 | <0.5 | <2 | 6.18 | <0.5 | 53 | 61 | 114 | 9.58 | 20 | 0.17 | <10 |
| L178487 | | <0.5 | 5.65 | 12 | 60 | <0.5 | <2 | 6.75 | <0.5 | 71 | 964 | 60 | 8.99 | 10 | 0.16 | <10 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 | ME-ICP61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl | U |
| | Units | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | LOR | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 5 | 1 | 1 | 20 | 0.01 | 10 | 10 |
| L178478 | | 3.38 | 1955 | <1 | 2.21 | 34 | 220 | 5 | 0.02 | <5 | 55 | 263 | <20 | 0.39 | <10 | <10 |
| L178479 | | 2.96 | 1090 | <1 | 2.99 | 35 | 2070 | 9 | 0.01 | <5 | 19 | 831 | <20 | 0.56 | 10 | <10 |
| L178480 | | 8.10 | 1710 | 1 | 1.02 | 58 | 5700 | 8 | 0.01 | <5 | 68 | 695 | <20 | 0.46 | 10 | <10 |
| L178481 | | 3.82 | 1705 | <1 | 2.79 | 44 | 550 | 2 | 0.16 | <5 | 44 | 122 | <20 | 0.67 | <10 | <10 |
| L178482 | | 4.34 | 1515 | <1 | 2.79 | 98 | 340 | <2 | <0.01 | <5 | 40 | 203 | <20 | 0.47 | <10 | <10 |
| L178483 | | 3.64 | 1435 | <1 | 3.21 | 173 | 430 | <2 | 0.01 | <5 | 39 | 165 | <20 | 0.54 | <10 | <10 |
| L178484 | | 3.98 | 1435 | <1 | 3.09 | 80 | 3070 | 13 | 0.06 | <5 | 22 | 1365 | 20 | 0.49 | 10 | <10 |
| L178485 | | 4.68 | 1405 | <1 | 2.20 | 98 | 270 | 2 | 0.13 | <5 | 43 | 123 | <20 | 0.53 | <10 | <10 |
| L178486 | | 3.52 | 1545 | <1 | 1.80 | 60 | 270 | <2 | 0.19 | <5 | 40 | 121 | <20 | 0.53 | <10 | <10 |
| L178487 | | 9.84 | 1600 | <1 | 0.63 | 416 | 210 | <2 | <0.01 | <5 | 37 | 58 | <20 | 0.38 | <10 | <10 |

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# CERTIFICATE OF ANALYSIS SD14042670

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP61<br>V<br>ppm<br>1 | ME-ICP61<br>W<br>ppm<br>10 | ME-ICP61<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|
| L178478 | | 291 | <10 | 98 |
| L178479 | | 190 | <10 | 106 |
| L178480 | | 173 | <10 | 129 |
| L178481 | | 330 | <10 | 87 |
| L178482 | | 246 | <10 | 73 |
| L178483 | | 259 | <10 | 68 |
| L178484 | | 175 | <10 | 146 |
| L178485 | | 297 | <10 | 120 |
| L178486 | | 296 | <10 | 101 |
| L178487 | | 233 | <10 | 93 |

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**Finalized Date: 22-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042670

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

NSS is non-sufficient sample.
Applies to Method: ALL METHODS

### LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
Applies to Method: FND-02

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Applies to Method: ME-ICP61