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: 27-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042823

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 91 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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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
| L174729 | | <0.5 | 7.31 | <5 | 2880 | 3.1 | 5 | 1.56 | <0.5 | 6 | 49 | 3 | 2.30 | 20 | 3.01 | 20 |
| L174730 | | <0.5 | 7.46 | 5 | 2840 | 2.1 | 6 | 0.86 | <0.5 | 7 | 51 | 12 | 2.34 | 20 | 3.22 | 20 |
| L174731 | | <0.5 | 7.55 | 8 | 50 | <0.5 | 3 | 4.02 | <0.5 | 44 | 59 | 7 | 8.61 | 20 | 0.06 | <10 |
| L174732 | | <0.5 | 6.40 | <5 | 20 | <0.5 | 2 | 6.05 | <0.5 | 42 | 72 | 84 | 7.48 | 10 | 0.02 | <10 |
| L174733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174734 | | <0.5 | 7.59 | <5 | 590 | 0.5 | 2 | 4.65 | <0.5 | 19 | 31 | 46 | 4.53 | 20 | 2.72 | 10 |
| L174735 | | <0.5 | 6.24 | <5 | 20 | 1.3 | 9 | 6.15 | <0.5 | 46 | 45 | 97 | 11.90 | 20 | 0.02 | <10 |
| L174736 | | <0.5 | 7.49 | 8 | 70 | 1.0 | 2 | 9.14 | <0.5 | 42 | 115 | 91 | 8.77 | 20 | 0.12 | 10 |
| L174737 | | <0.5 | 7.52 | <5 | 1020 | 2.8 | 3 | 1.75 | <0.5 | 5 | 63 | 45 | 2.99 | 20 | 2.73 | 20 |
| L174738 | | <0.5 | 7.53 | <5 | 3810 | 2.8 | <2 | 1.58 | <0.5 | 9 | 63 | 15 | 2.69 | 20 | 3.17 | 30 |
| L174739 | | <0.5 | 6.98 | 25 | 2080 | 2.3 | 5 | 0.76 | <0.5 | 9 | 43 | 6 | 1.86 | 20 | 4.37 | 20 |
| L174740 | | <0.5 | 5.96 | <5 | 500 | 3.7 | <2 | 6.06 | <0.5 | 33 | 89 | 106 | 7.16 | 20 | 3.41 | <10 |
| L174741 | | <0.5 | 7.36 | <5 | 40 | <0.5 | 8 | 8.36 | <0.5 | 47 | 106 | 60 | 6.44 | 10 | 0.11 | <10 |
| L174742 | | <0.5 | 8.34 | <5 | 20 | <0.5 | 2 | 7.73 | <0.5 | 54 | 122 | 124 | 7.27 | 10 | 0.07 | <10 |
| L174743 | | <0.5 | 8.31 | <5 | 30 | <0.5 | 6 | 9.45 | <0.5 | 64 | 183 | 136 | 5.79 | 10 | 0.05 | <10 |
| L174744 | | <0.5 | 6.63 | <5 | 110 | <0.5 | 8 | 5.84 | <0.5 | 46 | 17 | 120 | 10.05 | 20 | 0.30 | 10 |
| L174745 | | <0.5 | 8.73 | <5 | 40 | <0.5 | 6 | 5.94 | <0.5 | 66 | 252 | 133 | 8.08 | 20 | 0.03 | <10 |
| L174746 | | <0.5 | 7.61 | <5 | 40 | <0.5 | 3 | 7.88 | <0.5 | 51 | 275 | 193 | 7.91 | 20 | 0.09 | <10 |
| L174747 | | <0.5 | 8.50 | <5 | 20 | <0.5 | 4 | 6.84 | <0.5 | 52 | 122 | 113 | 7.93 | 20 | 0.03 | <10 |
| L174748 | | <0.5 | 6.74 | 11 | 80 | <0.5 | <2 | 5.12 | <0.5 | 43 | 112 | 108 | 9.90 | 20 | 0.36 | <10 |
| L174749 | | <0.5 | 6.37 | 10 | 180 | 0.5 | 4 | 4.02 | <0.5 | 45 | 105 | 90 | 9.98 | 20 | 0.46 | <10 |
| L174750 | | <0.5 | 7.29 | <5 | 2730 | 2.4 | <2 | 0.95 | <0.5 | 4 | 26 | 4 | 1.76 | 20 | 3.28 | 20 |
| L174751 | | <0.5 | 7.69 | <5 | 190 | 0.5 | <2 | 2.98 | <0.5 | 30 | 18 | 111 | 7.65 | 20 | 0.53 | 10 |
| L174752 | | <0.5 | 7.10 | <5 | 100 | 0.8 | 4 | 1.88 | <0.5 | 29 | 1 | 48 | 8.76 | 20 | 0.06 | 10 |
| L174753 | | <0.5 | 6.80 | 6 | 60 | <0.5 | 3 | 4.12 | <0.5 | 52 | 120 | 70 | 9.41 | 20 | 0.19 | <10 |
| L174754 | | <0.5 | 6.70 | 7 | 130 | <0.5 | <2 | 2.56 | 0.5 | 41 | 58 | 56 | 11.25 | 20 | 0.49 | <10 |
| L174755 | | <0.5 | 6.71 | 10 | 130 | <0.5 | 6 | 6.51 | <0.5 | 20 | 68 | 32 | 5.15 | 20 | 0.30 | 10 |
| L174756 | | <0.5 | 5.93 | <5 | 50 | <0.5 | 4 | 4.45 | <0.5 | 44 | 1 | 29 | 12.10 | 20 | 0.14 | <10 |
| L174757 | | <0.5 | 6.74 | 13 | 20 | <0.5 | 3 | 7.37 | <0.5 | 45 | 157 | 98 | 9.48 | 20 | 0.04 | <10 |
| L174758 | | <0.5 | 6.97 | 30 | 30 | <0.5 | 3 | 5.93 | <0.5 | 16 | 136 | 53 | 7.20 | 20 | 0.15 | <10 |
| L174759 | | <0.5 | 8.36 | <5 | 300 | <0.5 | 9 | 0.74 | <0.5 | 44 | 307 | 65 | 7.81 | 20 | 2.59 | <10 |
| L174760 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174761 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174762 | | <0.5 | 6.83 | <5 | 20 | <0.5 | 8 | 6.95 | <0.5 | 52 | 126 | 88 | 9.82 | 20 | 0.04 | <10 |
| L174763 | | <0.5 | 7.12 | <5 | 20 | <0.5 | 5 | 7.40 | <0.5 | 46 | 158 | 111 | 10.45 | 20 | 0.03 | <10 |
| L174764 | | <0.5 | 0.22 | <5 | 90 | <0.5 | <2 | 0.32 | <0.5 | <1 | 21 | 29 | 0.42 | <10 | 0.19 | <10 |
| L174765 | | <0.5 | 6.87 | <5 | 20 | <0.5 | 5 | 7.52 | <0.5 | 39 | 154 | 80 | 10.65 | 20 | 0.05 | <10 |
| L174766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174767 | | <0.5 | 5.97 | 8 | 20 | <0.5 | <2 | 8.88 | <0.5 | 20 | 117 | 55 | 4.63 | 20 | 0.05 | <10 |
| L174768 | | <0.5 | 7.35 | <5 | 80 | 0.5 | 7 | 5.47 | <0.5 | 41 | 121 | 104 | 8.81 | 20 | 0.17 | 10 |

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

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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
| L174729 | | 0.85 | 516 | <1 | 2.28 | 25 | 660 | 13 | 0.09 | <5 | 6 | 645 | <20 | 0.17 | <10 | <10 |
| L174730 | | 0.89 | 334 | <1 | 3.94 | 24 | 660 | 25 | 0.05 | <5 | 6 | 695 | <20 | 0.21 | <10 | <10 |
| L174731 | | 1.90 | 1820 | <1 | 4.01 | 37 | 580 | 3 | <0.01 | 10 | 45 | 84 | <20 | 1.19 | <10 | <10 |
| L174732 | | 3.07 | 1675 | <1 | 2.48 | 61 | 1080 | 9 | 0.12 | <5 | 40 | 106 | <20 | 0.95 | <10 | <10 |
| L174733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174734 | | 2.42 | 731 | <1 | 0.06 | 79 | 560 | 5 | <0.01 | <5 | 16 | 42 | <20 | 0.42 | <10 | <10 |
| L174735 | | 2.74 | 1650 | <1 | 1.44 | 54 | 500 | 3 | 0.03 | 5 | 47 | 58 | <20 | 1.21 | 10 | <10 |
| L174736 | | 3.41 | 2340 | 1 | 1.63 | 58 | 350 | 5 | 0.11 | <5 | 42 | 296 | <20 | 0.70 | <10 | <10 |
| L174737 | | 1.00 | 328 | <1 | 4.16 | 21 | 740 | 8 | 0.03 | <5 | 8 | 318 | <20 | 0.25 | <10 | <10 |
| L174738 | | 1.04 | 433 | <1 | 3.63 | 33 | 850 | 15 | 0.11 | <5 | 7 | 1165 | <20 | 0.22 | 10 | <10 |
| L174739 | | 0.39 | 242 | <1 | 2.17 | 25 | 570 | 19 | 0.15 | <5 | 6 | 302 | <20 | 0.12 | <10 | <10 |
| L174740 | | 2.20 | 1350 | <1 | 0.03 | 41 | 290 | 11 | 0.21 | <5 | 33 | 328 | <20 | 0.35 | <10 | <10 |
| L174741 | | 5.52 | 1100 | <1 | 0.99 | 239 | 200 | 3 | 0.03 | <5 | 23 | 99 | <20 | 0.45 | <10 | <10 |
| L174742 | | 5.08 | 1150 | <1 | 1.41 | 202 | 240 | 5 | 0.14 | <5 | 27 | 175 | <20 | 0.52 | <10 | <10 |
| L174743 | | 1.44 | 1540 | <1 | 1.21 | 164 | 250 | 14 | 0.23 | <5 | 38 | 78 | <20 | 0.62 | <10 | <10 |
| L174744 | | 3.11 | 1560 | <1 | 1.56 | 41 | 650 | 7 | 0.09 | <5 | 44 | 119 | <20 | 1.01 | 10 | <10 |
| L174745 | | 2.41 | 1705 | <1 | 1.80 | 155 | 290 | 7 | 0.05 | 8 | 42 | 51 | <20 | 0.80 | <10 | <10 |
| L174746 | | 4.74 | 1425 | <1 | 1.40 | 152 | 280 | 2 | 0.05 | <5 | 37 | 181 | <20 | 0.60 | <10 | <10 |
| L174747 | | 4.99 | 1195 | <1 | 1.15 | 171 | 260 | 5 | 0.06 | <5 | 31 | 132 | <20 | 0.53 | <10 | <10 |
| L174748 | | 3.32 | 1495 | 2 | 2.71 | 77 | 800 | 7 | 0.24 | <5 | 42 | 127 | <20 | 1.12 | 10 | <10 |
| L174749 | | 3.03 | 1310 | <1 | 1.89 | 66 | 850 | 13 | 0.20 | <5 | 40 | 147 | <20 | 1.11 | 10 | <10 |
| L174750 | | 0.25 | 345 | <1 | 3.71 | 12 | 520 | 9 | 0.05 | <5 | 4 | 855 | <20 | 0.15 | <10 | <10 |
| L174751 | | 2.07 | 911 | <1 | 2.48 | 15 | 670 | 3 | 0.04 | 5 | 31 | 134 | <20 | 0.87 | <10 | <10 |
| L174752 | | 1.45 | 1385 | <1 | 3.50 | 1 | 800 | 5 | 0.01 | <5 | 28 | 157 | <20 | 0.52 | 10 | <10 |
| L174753 | | 2.98 | 1575 | <1 | 2.28 | 94 | 430 | 5 | 0.07 | <5 | 35 | 76 | <20 | 0.76 | <10 | <10 |
| L174754 | | 2.56 | 1520 | <1 | 2.31 | 42 | 570 | 5 | 0.06 | <5 | 43 | 42 | <20 | 1.18 | 10 | <10 |
| L174755 | | 2.44 | 805 | <1 | 1.02 | 57 | 800 | 7 | 0.01 | <5 | 18 | 496 | <20 | 0.64 | <10 | <10 |
| L174756 | | 2.84 | 1685 | <1 | 1.21 | 17 | 1800 | 6 | 0.13 | <5 | 49 | 124 | <20 | 1.55 | 10 | <10 |
| L174757 | | 2.64 | 2220 | <1 | 0.48 | 82 | 1060 | 4 | 0.02 | 7 | 44 | 216 | <20 | 0.99 | <10 | <10 |
| L174758 | | 3.71 | 1285 | <1 | 2.32 | 48 | 220 | 5 | 0.05 | <5 | 42 | 241 | <20 | 0.53 | 10 | <10 |
| L174759 | | 4.29 | 1030 | <1 | 0.08 | 122 | 200 | 6 | 0.04 | <5 | 36 | 17 | <20 | 0.51 | 10 | <10 |
| L174760 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174761 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174762 | | 3.70 | 1485 | <1 | 1.19 | 80 | 1230 | 6 | 0.25 | 5 | 44 | 223 | <20 | 1.08 | <10 | <10 |
| L174763 | | 3.77 | 1830 | <1 | 0.71 | 75 | 1030 | 4 | 0.07 | <5 | 48 | 213 | <20 | 1.06 | 10 | <10 |
| L174764 | | 0.03 | 70 | <1 | 0.02 | 1 | 50 | <2 | 0.01 | <5 | <1 | 5 | <20 | 0.01 | <10 | <10 |
| L174765 | | 3.36 | 2000 | <1 | 0.84 | 73 | 1070 | 11 | 0.05 | <5 | 47 | 208 | <20 | 1.08 | <10 | <10 |
| L174766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174767 | | 1.90 | 838 | <1 | 0.25 | 38 | 120 | 3 | 0.10 | <5 | 24 | 58 | <20 | 0.28 | <10 | <10 |
| L174768 | | 4.02 | 1290 | <1 | 1.83 | 76 | 470 | <2 | 0.03 | <5 | 40 | 130 | <20 | 0.76 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
|---|---|---|---|---|
| L174729 | | 47 | <10 | 82 |
| L174730 | | 52 | <10 | 58 |
| L174731 | | 494 | <10 | 119 |
| L174732 | | 341 | <10 | 91 |
| L174733 | | NSS | NSS | NSS |
| L174734 | | 144 | <10 | 72 |
| L174735 | | 623 | <10 | 122 |
| L174736 | | 388 | <10 | 91 |
| L174737 | | 61 | <10 | 28 |
| L174738 | | 59 | <10 | 62 |
| L174739 | | 53 | <10 | 49 |
| L174740 | | 256 | <10 | 86 |
| L174741 | | 215 | <10 | 52 |
| L174742 | | 239 | <10 | 53 |
| L174743 | | 299 | <10 | 71 |
| L174744 | | 452 | <10 | 129 |
| L174745 | | 385 | <10 | 103 |
| L174746 | | 290 | <10 | 75 |
| L174747 | | 244 | <10 | 70 |
| L174748 | | 415 | <10 | 88 |
| L174749 | | 416 | <10 | 126 |
| L174750 | | 36 | <10 | 36 |
| L174751 | | 341 | <10 | 88 |
| L174752 | | 153 | <10 | 102 |
| L174753 | | 381 | <10 | 114 |
| L174754 | | 496 | <10 | 157 |
| L174755 | | 153 | <10 | 85 |
| L174756 | | 436 | <10 | 121 |
| L174757 | | 354 | <10 | 107 |
| L174758 | | 305 | <10 | 64 |
| L174759 | | 320 | <10 | 73 |
| L174760 | | NSS | NSS | NSS |
| L174761 | | NSS | NSS | NSS |
| L174762 | | 350 | <10 | 90 |
| L174763 | | 392 | <10 | 88 |
| L174764 | | 4 | <10 | 7 |
| L174765 | | 386 | <10 | 99 |
| L174766 | | NSS | NSS | NSS |
| L174767 | | 194 | <10 | 56 |
| L174768 | | 355 | <10 | 92 |

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# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
| L174769 | | <0.5 | 6.89 | 42 | 300 | 0.7 | <2 | 3.24 | <0.5 | 44 | 157 | 181 | 6.49 | 20 | 0.94 | <10 |
| L174770 | | <0.5 | 7.35 | 8 | 250 | <0.5 | 4 | 5.74 | <0.5 | 42 | 156 | 104 | 6.98 | 20 | 0.57 | <10 |
| L174771 | | <0.5 | 7.00 | 15 | 30 | <0.5 | 8 | 6.52 | <0.5 | 42 | 182 | 111 | 11.30 | 20 | 0.03 | <10 |
| L174772 | | <0.5 | 6.67 | 10 | 50 | <0.5 | 8 | 6.24 | <0.5 | 32 | 111 | 66 | 7.82 | 20 | 0.10 | <10 |
| L174773 | | <0.5 | 7.39 | <5 | 70 | <0.5 | 3 | 4.35 | <0.5 | 35 | 123 | 102 | 8.29 | 20 | 0.12 | 10 |
| L174774 | | <0.5 | 7.22 | 5 | 30 | <0.5 | 7 | 4.81 | <0.5 | 33 | 126 | 61 | 7.94 | 20 | 0.04 | 10 |
| L174775 | | <0.5 | 7.32 | <5 | 80 | <0.5 | 7 | 7.21 | <0.5 | 44 | 232 | 121 | 8.53 | 10 | 0.12 | <10 |
| L174776 | | <0.5 | 7.28 | 14 | 20 | <0.5 | 2 | 5.54 | <0.5 | 37 | 229 | 101 | 7.46 | 20 | 0.04 | <10 |
| L174777 | | <0.5 | 6.24 | 7 | 20 | <0.5 | 7 | 4.57 | <0.5 | 48 | 42 | 102 | 11.10 | 20 | 0.05 | <10 |
| L174778 | | <0.5 | 6.97 | <5 | 50 | <0.5 | 3 | 6.38 | <0.5 | 47 | 154 | 108 | 10.10 | 20 | 0.15 | <10 |
| L174779 | | <0.5 | 6.71 | 10 | 80 | <0.5 | 8 | 3.25 | <0.5 | 43 | 50 | 61 | 8.11 | 20 | 0.23 | <10 |
| L174780 | | <0.5 | 6.08 | <5 | 30 | <0.5 | 4 | 5.18 | <0.5 | 30 | 1 | 25 | 10.10 | 20 | 0.08 | 10 |
| L174781 | | <0.5 | 6.03 | <5 | 200 | 1.4 | 2 | 0.44 | <0.5 | 4 | 9 | 30 | 1.79 | 10 | 1.02 | 10 |
| L174782 | | <0.5 | 7.20 | <5 | 520 | 1.7 | 3 | 1.58 | <0.5 | 4 | 33 | 2 | 1.64 | 20 | 0.87 | 20 |
| L174783 | | <0.5 | 7.28 | 8 | 30 | 1.0 | 10 | 7.61 | <0.5 | 38 | 126 | 175 | 8.70 | 30 | 0.02 | 10 |
| L174784 | | <0.5 | 6.43 | <5 | 50 | <0.5 | <2 | 4.04 | <0.5 | 42 | 9 | 150 | 9.82 | 20 | 0.13 | <10 |
| L174785 | | <0.5 | 7.05 | <5 | 20 | 0.7 | 9 | 5.07 | <0.5 | 47 | 159 | 116 | 8.47 | 20 | 0.06 | <10 |
| L174786 | | <0.5 | 6.53 | <5 | 70 | <0.5 | 11 | 5.50 | <0.5 | 41 | 128 | 63 | 9.67 | 10 | 0.18 | <10 |
| L174787 | | <0.5 | 7.36 | 6 | 50 | <0.5 | 5 | 4.22 | <0.5 | 41 | 232 | 101 | 7.29 | 20 | 0.05 | <10 |
| L174788 | | <0.5 | 5.71 | 12 | 650 | 0.7 | 7 | 5.70 | 0.5 | 40 | 15 | 56 | 9.59 | 20 | 1.29 | <10 |
| L174789 | | <0.5 | 6.72 | 5 | 90 | <0.5 | 4 | 4.45 | <0.5 | 47 | 1 | 151 | 10.80 | 20 | 0.35 | <10 |
| L174790 | | <0.5 | 6.46 | <5 | 20 | <0.5 | <2 | 3.82 | <0.5 | 45 | 12 | 57 | 12.65 | 20 | 0.01 | <10 |
| L174791 | | <0.5 | 6.75 | <5 | 170 | 0.6 | <2 | 5.43 | <0.5 | 47 | 32 | 93 | 9.94 | 20 | 0.33 | <10 |
| L174792 | | <0.5 | 6.54 | <5 | 160 | <0.5 | <2 | 6.13 | <0.5 | 50 | 43 | 95 | 12.25 | 20 | 0.20 | <10 |
| L174793 | | <0.5 | 6.32 | <5 | 80 | 0.5 | <2 | 4.02 | 0.7 | 37 | 9 | 14 | 12.35 | 20 | 0.23 | 10 |
| L174794 | | <0.5 | 6.65 | <5 | 40 | <0.5 | <2 | 6.14 | 0.5 | 38 | 148 | 86 | 9.01 | 20 | 0.11 | <10 |
| L174795 | | <0.5 | 6.37 | 9 | 10 | <0.5 | <2 | 5.92 | <0.5 | 53 | 34 | 107 | 11.60 | 20 | 0.12 | <10 |
| L174796 | | <0.5 | 5.95 | 15 | 20 | <0.5 | <2 | 3.44 | <0.5 | 30 | 20 | 51 | 10.95 | 20 | 0.03 | <10 |
| L174797 | | <0.5 | 5.67 | <5 | 40 | 0.6 | <2 | 4.73 | <0.5 | 29 | 1 | 23 | 11.40 | 20 | 0.27 | 10 |
| L174798 | | <0.5 | 6.32 | <5 | 110 | 0.6 | <2 | 2.82 | <0.5 | 36 | 1 | 25 | 10.10 | 20 | 0.08 | 10 |
| L174799 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174800 | | <0.5 | 5.99 | 6 | 160 | 0.7 | <2 | 3.68 | <0.5 | 38 | 1 | 25 | 13.20 | 20 | 0.23 | 10 |
| L174801 | | <0.5 | 6.12 | <5 | 50 | 0.5 | <2 | 4.97 | 0.8 | 37 | 2 | 29 | 13.95 | 20 | 0.17 | 10 |
| L174802 | | <0.5 | 7.50 | <5 | 30 | <0.5 | <2 | 6.45 | <0.5 | 53 | 138 | 127 | 8.91 | 20 | 0.04 | <10 |
| L174803 | | <0.5 | 6.74 | <5 | 380 | 1.0 | <2 | 2.48 | <0.5 | 7 | 37 | 3 | 2.94 | 20 | 1.22 | 10 |
| L174804 | | <0.5 | 6.57 | 5 | 30 | 0.5 | <2 | 3.93 | <0.5 | 50 | 10 | 122 | 9.10 | 20 | 0.05 | <10 |
| L174805 | | <0.5 | 6.97 | <5 | 40 | <0.5 | <2 | 4.75 | <0.5 | 45 | 11 | 105 | 9.39 | 20 | 0.05 | 10 |
| L174806 | | <0.5 | 6.57 | 6 | 40 | <0.5 | <2 | 3.81 | <0.5 | 50 | 11 | 166 | 9.80 | 20 | 0.02 | 10 |
| L174807 | | <0.5 | 3.47 | <5 | 4150 | 0.9 | <2 | 0.14 | <0.5 | 2 | 17 | 4 | 1.17 | 10 | 0.96 | 10 |
| L174808 | | <0.5 | 7.80 | <5 | 60 | <0.5 | <2 | 6.04 | <0.5 | 40 | 186 | 107 | 7.96 | 20 | 0.06 | <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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Mg % 0.01 | ME-ICP61 Mn ppm 5 | ME-ICP61 Mo ppm 1 | ME-ICP61 Na % 0.01 | ME-ICP61 Ni ppm 1 | ME-ICP61 P ppm 10 | ME-ICP61 Pb ppm 2 | ME-ICP61 S % 0.01 | ME-ICP61 Sb ppm 5 | ME-ICP61 Sc ppm 1 | ME-ICP61 Sr ppm 1 | ME-ICP61 Th ppm 20 | ME-ICP61 Ti % 0.01 | ME-ICP61 Tl ppm 10 | ME-ICP61 U ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174769 | | 2.99 | 1205 | 1 | 1.69 | 88 | 370 | 5 | 0.47 | <5 | 36 | 96 | <20 | 0.57 | <10 | <10 |
| L174770 | | 2.60 | 1510 | <1 | 2.04 | 82 | 450 | 3 | 0.32 | <5 | 41 | 98 | <20 | 0.69 | <10 | <10 |
| L174771 | | 3.33 | 2000 | <1 | 0.22 | 99 | 510 | 3 | 0.04 | <5 | 37 | 324 | <20 | 0.71 | <10 | <10 |
| L174772 | | 3.07 | 1200 | 1 | 1.63 | 65 | 410 | 5 | 0.07 | <5 | 36 | 157 | <20 | 0.69 | <10 | <10 |
| L174773 | | 3.29 | 1270 | <1 | 2.23 | 75 | 490 | 5 | 0.02 | <5 | 39 | 132 | <20 | 0.74 | 10 | <10 |
| L174774 | | 3.14 | 1360 | <1 | 1.74 | 69 | 450 | 7 | 0.02 | 5 | 40 | 122 | <20 | 0.77 | 10 | <10 |
| L174775 | | 4.50 | 1740 | <1 | 1.57 | 91 | 230 | 3 | 0.09 | 5 | 44 | 325 | <20 | 0.55 | <10 | <10 |
| L174776 | | 4.39 | 1220 | <1 | 1.88 | 111 | 320 | 7 | 0.09 | <5 | 37 | 114 | <20 | 0.60 | <10 | <10 |
| L174777 | | 1.87 | 2280 | <1 | 1.66 | 41 | 530 | 4 | 0.73 | <5 | 41 | 32 | <20 | 1.09 | 10 | <10 |
| L174778 | | 3.97 | 1455 | <1 | 1.35 | 81 | 1000 | 3 | 0.14 | <5 | 46 | 160 | <20 | 1.01 | 10 | <10 |
| L174779 | | 2.59 | 1780 | <1 | 2.63 | 48 | 550 | 8 | 0.57 | <5 | 41 | 55 | <20 | 1.09 | <10 | <10 |
| L174780 | | 2.04 | 1700 | <1 | 1.11 | 9 | 720 | 6 | 0.11 | <5 | 38 | 121 | <20 | 1.20 | <10 | <10 |
| L174781 | | 0.22 | 194 | 2 | 3.49 | 5 | 210 | 19 | 1.10 | <5 | 9 | 64 | <20 | 0.14 | <10 | <10 |
| L174782 | | 0.41 | 300 | <1 | 4.79 | 15 | 570 | 7 | 0.12 | <5 | 5 | 254 | <20 | 0.14 | <10 | <10 |
| L174783 | | 3.09 | 1300 | <1 | 0.33 | 61 | 470 | 5 | 0.10 | 5 | 52 | 492 | <20 | 0.80 | <10 | <10 |
| L174784 | | 2.94 | 1370 | <1 | 1.88 | 25 | 400 | 3 | 0.10 | <5 | 43 | 160 | <20 | 0.77 | <10 | <10 |
| L174785 | | 2.83 | 1910 | <1 | 2.11 | 81 | 1050 | 6 | 0.09 | <5 | 48 | 93 | <20 | 1.03 | <10 | <10 |
| L174786 | | 3.35 | 1460 | <1 | 1.65 | 69 | 1050 | 4 | 0.06 | <5 | 43 | 123 | <20 | 1.01 | <10 | <10 |
| L174787 | | 3.50 | 1375 | <1 | 2.40 | 80 | 210 | 4 | <0.01 | <5 | 40 | 91 | <20 | 0.52 | <10 | <10 |
| L174788 | | 1.35 | 1935 | <1 | 0.65 | 37 | 530 | 11 | 0.28 | <5 | 35 | 437 | <20 | 0.76 | 10 | <10 |
| L174789 | | 3.22 | 1490 | <1 | 2.03 | 19 | 690 | 3 | 0.07 | 7 | 45 | 233 | <20 | 0.92 | 10 | <10 |
| L174790 | | 3.19 | 1750 | <1 | 0.72 | 34 | 620 | 5 | 0.11 | <5 | 42 | 223 | <20 | 0.79 | <10 | <10 |
| L174791 | | 1.83 | 2270 | 1 | 2.08 | 61 | 1320 | 3 | 0.13 | <5 | 49 | 195 | <20 | 1.34 | <10 | <10 |
| L174792 | | 2.48 | 2100 | <1 | 0.52 | 61 | 1300 | 7 | 0.20 | <5 | 48 | 294 | <20 | 1.47 | <10 | <10 |
| L174793 | | 2.22 | 1650 | 1 | 2.20 | 18 | 2250 | 9 | 0.01 | 5 | 40 | 105 | <20 | 1.44 | <10 | <10 |
| L174794 | | 3.74 | 1415 | 1 | 1.58 | 82 | 950 | 3 | 0.08 | <5 | 45 | 198 | <20 | 0.97 | <10 | <10 |
| L174795 | | 2.83 | 1595 | 1 | 1.57 | 57 | 1140 | 3 | 0.27 | <5 | 44 | 154 | <20 | 1.15 | <10 | <10 |
| L174796 | | 1.95 | 1750 | 1 | 1.35 | 29 | 1940 | 5 | 0.03 | 5 | 42 | 17 | <20 | 1.34 | <10 | <10 |
| L174797 | | 1.52 | 2330 | <1 | 1.94 | 7 | 2680 | 11 | 0.14 | 6 | 41 | 155 | <20 | 1.41 | <10 | <10 |
| L174798 | | 1.88 | 2130 | 1 | 2.27 | 11 | 2840 | 6 | 0.20 | <5 | 45 | 56 | <20 | 1.59 | <10 | <10 |
| L174799 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174800 | | 2.15 | 2210 | 1 | 1.03 | 6 | 2590 | 3 | 0.19 | <5 | 44 | 253 | <20 | 1.57 | <10 | <10 |
| L174801 | | 2.20 | 1885 | 1 | 0.52 | 13 | 2400 | 9 | 0.08 | <5 | 43 | 458 | <20 | 1.56 | <10 | <10 |
| L174802 | | 5.58 | 1580 | 1 | 1.68 | 154 | 300 | 3 | 0.02 | 6 | 29 | 139 | <20 | 0.65 | <10 | <10 |
| L174803 | | 1.10 | 470 | 1 | 2.38 | 37 | 460 | 4 | 0.04 | <5 | 9 | 138 | <20 | 0.28 | <10 | <10 |
| L174804 | | 3.33 | 1545 | <1 | 2.01 | 39 | 720 | 4 | 0.16 | <5 | 45 | 50 | <20 | 1.07 | <10 | <10 |
| L174805 | | 3.26 | 1750 | <1 | 2.05 | 48 | 720 | 6 | 0.10 | 11 | 48 | 140 | <20 | 1.09 | 10 | <10 |
| L174806 | | 3.43 | 1850 | <1 | 1.91 | 49 | 690 | 6 | 0.12 | <5 | 47 | 98 | <20 | 1.07 | <10 | <10 |
| L174807 | | 0.07 | 128 | <1 | 1.78 | 6 | 180 | 5 | 0.11 | <5 | 2 | 335 | <20 | 0.05 | <10 | <10 |
| L174808 | | 3.20 | 1560 | <1 | 2.33 | 109 | 340 | 3 | 0.04 | <5 | 39 | 127 | <20 | 0.65 | 10 | <10 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
|---|---|---|---|---|
| L174769 | | 288 | <10 | 100 |
| L174770 | | 319 | <10 | 98 |
| L174771 | | 351 | <10 | 116 |
| L174772 | | 322 | <10 | 78 |
| L174773 | | 357 | <10 | 93 |
| L174774 | | 335 | <10 | 82 |
| L174775 | | 330 | <10 | 62 |
| L174776 | | 292 | <10 | 77 |
| L174777 | | 458 | <10 | 166 |
| L174778 | | 366 | <10 | 87 |
| L174779 | | 443 | <10 | 143 |
| L174780 | | 353 | <10 | 117 |
| L174781 | | 27 | <10 | 29 |
| L174782 | | 39 | <10 | 32 |
| L174783 | | 372 | <10 | 95 |
| L174784 | | 432 | <10 | 103 |
| L174785 | | 382 | <10 | 88 |
| L174786 | | 349 | <10 | 108 |
| L174787 | | 329 | <10 | 82 |
| L174788 | | 427 | <10 | 137 |
| L174789 | | 482 | <10 | 121 |
| L174790 | | 529 | <10 | 169 |
| L174791 | | 473 | <10 | 110 |
| L174792 | | 504 | <10 | 133 |
| L174793 | | 257 | <10 | 124 |
| L174794 | | 341 | <10 | 90 |
| L174795 | | 409 | <10 | 116 |
| L174796 | | 308 | <10 | 151 |
| L174797 | | 156 | <10 | 151 |
| L174798 | | 205 | <10 | 154 |
| L174799 | | NSS | NSS | NSS |
| L174800 | | 200 | <10 | 154 |
| L174801 | | 245 | <10 | 174 |
| L174802 | | 299 | <10 | 90 |
| L174803 | | 54 | <10 | 62 |
| L174804 | | 485 | <10 | 126 |
| L174805 | | 487 | <10 | 112 |
| L174806 | | 483 | <10 | 130 |
| L174807 | | 17 | <10 | 27 |
| L174808 | | 328 | <10 | 99 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
| L174809 | | <0.5 | 7.35 | <5 | 30 | <0.5 | <2 | 5.79 | <0.5 | 32 | 192 | 59 | 7.40 | 20 | 0.04 | <10 |
| L174810 | | <0.5 | 6.47 | 17 | 60 | <0.5 | <2 | 5.52 | <0.5 | 50 | 38 | 90 | 10.35 | 20 | 0.12 | <10 |
| L174811 | | <0.5 | 7.06 | 5 | 1440 | 1.7 | <2 | 1.14 | <0.5 | 7 | 32 | 5 | 3.26 | 20 | 1.51 | 20 |
| L174812 | | <0.5 | 5.86 | 34 | 40 | <0.5 | <2 | 6.62 | <0.5 | 28 | 13 | 46 | 6.97 | 10 | 0.12 | <10 |
| L174813 | | <0.5 | 6.98 | <5 | 2190 | 2.3 | <2 | 1.71 | <0.5 | 7 | 51 | 13 | 2.52 | 20 | 3.27 | 20 |
| L174814 | | <0.5 | 6.31 | 13 | 2360 | 3.1 | <2 | 2.69 | <0.5 | 15 | 131 | 27 | 2.97 | 20 | 2.84 | 30 |
| L174815 | | <0.5 | 6.68 | <5 | 30 | <0.5 | <2 | 4.88 | <0.5 | 35 | 76 | 79 | 8.73 | 20 | 0.07 | <10 |
| L174816 | | <0.5 | 7.60 | <5 | 80 | <0.5 | 2 | 6.02 | <0.5 | 65 | 273 | 182 | 6.44 | 20 | 0.64 | <10 |
| L174817 | | <0.5 | 7.41 | <5 | 20 | <0.5 | <2 | 4.87 | <0.5 | 42 | 212 | 202 | 6.94 | 20 | 0.10 | <10 |
| L174818 | | <0.5 | 7.61 | 39 | 50 | <0.5 | <2 | 6.85 | <0.5 | 42 | 190 | 63 | 6.19 | 20 | 0.45 | <10 |
| L174819 | | <0.5 | 7.49 | 38 | 30 | <0.5 | <2 | 5.60 | <0.5 | 39 | 255 | 90 | 6.94 | 10 | 0.22 | <10 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
| L174809 | | 3.51 | 1135 | 1 | 1.45 | 82 | 280 | 7 | 0.02 | <5 | 36 | 187 | <20 | 0.58 | <10 | <10 |
| L174810 | | 3.48 | 1930 | <1 | 1.36 | 95 | 1160 | 4 | 0.11 | <5 | 45 | 152 | <20 | 1.12 | <10 | <10 |
| L174811 | | 0.62 | 288 | 1 | 3.62 | 17 | 650 | 9 | 0.08 | <5 | 10 | 269 | <20 | 0.23 | <10 | <10 |
| L174812 | | 1.42 | 2070 | <1 | 2.12 | 39 | 470 | 6 | 0.24 | <5 | 28 | 95 | <20 | 0.93 | <10 | <10 |
| L174813 | | 0.75 | 484 | <1 | 3.75 | 29 | 810 | 21 | 0.07 | <5 | 7 | 553 | <20 | 0.18 | <10 | <10 |
| L174814 | | 1.75 | 576 | <1 | 3.33 | 101 | 1750 | 22 | 0.16 | 5 | 9 | 672 | <20 | 0.23 | <10 | <10 |
| L174815 | | 3.57 | 1380 | <1 | 3.24 | 56 | 320 | 7 | 0.09 | 6 | 44 | 425 | <20 | 0.66 | <10 | <10 |
| L174816 | | 2.73 | 1150 | <1 | 2.52 | 122 | 220 | 2 | 0.01 | <5 | 50 | 74 | <20 | 0.55 | <10 | <10 |
| L174817 | | 4.95 | 1135 | <1 | 1.91 | 104 | 200 | 5 | 0.02 | 10 | 32 | 146 | <20 | 0.42 | <10 | <10 |
| L174818 | | 5.40 | 1020 | <1 | 1.03 | 183 | 130 | 2 | 0.06 | <5 | 24 | 112 | <20 | 0.32 | <10 | <10 |
| L174819 | | 4.59 | 1125 | <1 | 2.29 | 94 | 200 | 4 | 0.11 | <5 | 39 | 136 | <20 | 0.46 | <10 | <10 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

| 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 |
|---|---|---|---|---|
| L174809 | | 286 | <10 | 68 |
| L174810 | | 411 | <10 | 144 |
| L174811 | | 71 | <10 | 54 |
| L174812 | | 360 | <10 | 140 |
| L174813 | | 59 | <10 | 45 |
| L174814 | | 68 | <10 | 90 |
| L174815 | | 360 | <10 | 97 |
| L174816 | | 300 | <10 | 70 |
| L174817 | | 256 | <10 | 50 |
| L174818 | | 192 | <10 | 58 |
| L174819 | | 273 | <10 | 45 |

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**Finalized Date: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042823

## 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