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: 28-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042820

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 119 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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
| L178771 | | <0.5 | 6.45 | 14 | 710 | 1.1 | 2 | 1.89 | <0.5 | 27 | 211 | 46 | 4.61 | 20 | 1.21 | 20 |
| L178772 | | <0.5 | 6.87 | 29 | 780 | 1.1 | 5 | 1.27 | <0.5 | 30 | 359 | 55 | 4.34 | 20 | 1.58 | 20 |
| L178773 | | <0.5 | 6.54 | 76 | 1050 | 1.8 | 3 | 1.08 | <0.5 | 41 | 114 | 73 | 7.60 | 10 | 2.91 | 20 |
| L178774 | | <0.5 | 6.59 | 7 | 1120 | 1.7 | 2 | 4.91 | 0.5 | 26 | 81 | 44 | 5.45 | 20 | 4.63 | 40 |
| L178775 | | <0.5 | 7.79 | <5 | 4060 | 5.6 | <2 | 1.93 | <0.5 | 9 | 4 | 91 | 3.16 | 20 | 2.94 | 40 |
| L178776 | | <0.5 | 6.65 | 20 | 3220 | 7.9 | <2 | 3.51 | <0.5 | 22 | 125 | 175 | 5.62 | 20 | 4.32 | 130 |
| L178777 | | <0.5 | 6.56 | 7 | 3190 | 1.8 | <2 | 3.73 | <0.5 | 25 | 200 | 31 | 4.35 | 20 | 2.25 | 40 |
| L178778 | | <0.5 | 8.20 | 12 | 2670 | 4.0 | <2 | 1.70 | <0.5 | 18 | 26 | 95 | 4.73 | 20 | 3.88 | 60 |
| L178779 | | <0.5 | 6.68 | 22 | 1490 | 2.4 | <2 | 4.56 | 0.5 | 30 | 94 | 87 | 6.06 | 20 | 3.35 | 40 |
| L178780 | | <0.5 | 6.71 | 11 | 1950 | 3.0 | 2 | 3.77 | <0.5 | 30 | 159 | 78 | 6.07 | 20 | 4.38 | 40 |
| L178781 | | <0.5 | 6.46 | 82 | 2190 | 2.2 | <2 | 4.16 | <0.5 | 28 | 147 | 95 | 5.75 | 20 | 4.07 | 40 |
| L178782 | | <0.5 | 6.59 | 172 | 1240 | 1.6 | <2 | 2.49 | 0.5 | 27 | 228 | 59 | 4.55 | 20 | 2.80 | 30 |
| L178783 | | <0.5 | 6.87 | 10 | 5000 | 6.3 | 3 | 5.57 | <0.5 | 21 | 78 | 16 | 6.47 | 20 | 2.90 | 140 |
| L178784 | | <0.5 | 6.06 | 69 | 800 | 2.1 | <2 | 2.91 | <0.5 | 19 | 162 | 34 | 3.85 | 20 | 2.12 | 20 |
| L178785 | | <0.5 | 5.91 | 76 | 700 | 1.0 | <2 | 2.65 | <0.5 | 21 | 173 | 43 | 3.63 | 10 | 1.60 | 20 |
| L178786 | | <0.5 | 4.87 | 25 | 800 | 2.3 | <2 | 6.08 | 0.5 | 30 | 280 | 48 | 5.38 | 20 | 4.08 | 30 |
| L178787 | | <0.5 | 7.40 | 10 | 2150 | 2.9 | 4 | 0.41 | <0.5 | 26 | 218 | 68 | 5.61 | 20 | 2.85 | 50 |
| L178788 | | <0.5 | 6.67 | <5 | 1170 | 1.6 | <2 | 5.09 | <0.5 | 23 | 151 | 61 | 4.50 | 20 | 2.83 | 30 |
| L178789 | | <0.5 | 5.68 | 47 | 1520 | 2.2 | 2 | 4.71 | <0.5 | 35 | 330 | 100 | 5.94 | 20 | 2.15 | 30 |
| L178790 | | <0.5 | 7.62 | 13 | 620 | 1.1 | <2 | 1.14 | <0.5 | 16 | 196 | 44 | 3.06 | 20 | 1.48 | 20 |
| L178791 | | <0.5 | 5.95 | 9 | 520 | 1.4 | 2 | 3.75 | <0.5 | 25 | 156 | 35 | 4.52 | 20 | 1.83 | 30 |
| L178792 | | <0.5 | 6.65 | 76 | 1110 | 3.9 | <2 | 4.42 | <0.5 | 22 | 149 | 86 | 5.44 | 20 | 4.97 | 40 |
| L178793 | | <0.5 | 6.68 | 10 | 640 | 1.3 | <2 | 2.32 | <0.5 | 26 | 203 | 53 | 4.84 | 20 | 1.15 | 20 |
| L178794 | | <0.5 | 6.57 | 30 | 640 | 1.4 | <2 | 2.73 | <0.5 | 43 | 336 | 82 | 6.11 | 20 | 1.39 | 20 |
| L178795 | | <0.5 | 7.04 | <5 | 2470 | 2.7 | <2 | 4.00 | <0.5 | 33 | 254 | 3 | 5.00 | 20 | 2.46 | 40 |
| L178796 | | <0.5 | 6.56 | 6 | 1710 | 1.7 | <2 | 2.24 | <0.5 | 12 | 95 | 2 | 2.30 | 20 | 1.80 | 10 |
| L178797 | | <0.5 | 6.02 | 50 | 1010 | 2.6 | 2 | 4.67 | 0.5 | 29 | 171 | 72 | 6.19 | 20 | 3.78 | 30 |
| L178798 | | <0.5 | 4.94 | 30 | 440 | 1.7 | <2 | 8.34 | <0.5 | 20 | 184 | 48 | 4.74 | 10 | 2.42 | 20 |
| L178799 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178800 | | <0.5 | 6.11 | 102 | 470 | 1.6 | <2 | 2.35 | <0.5 | 25 | 226 | 54 | 4.34 | 20 | 2.33 | 20 |
| L178801 | | <0.5 | 7.11 | 22 | 1640 | 2.2 | <2 | 4.28 | <0.5 | 29 | 230 | 20 | 5.23 | 20 | 3.12 | 40 |
| L178802 | | <0.5 | 6.81 | 5 | 1280 | 2.9 | <2 | 3.79 | <0.5 | 33 | 205 | 95 | 6.14 | 20 | 3.36 | 40 |
| L178803 | | <0.5 | 5.75 | 18 | 3440 | 7.0 | 2 | 6.56 | <0.5 | 26 | 8 | 295 | 7.15 | 20 | 1.56 | 150 |
| L178804 | | <0.5 | 7.32 | 5 | 1400 | 1.4 | <2 | 2.46 | <0.5 | 12 | 24 | 48 | 3.35 | 10 | 1.47 | 40 |
| L178805 | | <0.5 | 7.36 | 21 | 540 | 1.2 | <2 | 1.03 | <0.5 | 19 | 176 | 37 | 4.36 | 20 | 1.38 | 20 |
| L178806 | | <0.5 | 6.54 | 14 | 1210 | 5.3 | <2 | 3.94 | 0.5 | 28 | 187 | 136 | 5.83 | 20 | 3.80 | 130 |
| L178807 | | <0.5 | 6.68 | 8 | 1660 | 2.3 | <2 | 4.65 | <0.5 | 31 | 184 | 105 | 5.86 | 20 | 3.45 | 40 |
| L178808 | | <0.5 | 7.13 | 15 | 1800 | 2.2 | <2 | 3.43 | <0.5 | 26 | 193 | 25 | 4.75 | 20 | 3.25 | 40 |
| L178809 | | <0.5 | 6.41 | 19 | 1630 | 2.3 | <2 | 4.51 | <0.5 | 31 | 196 | 90 | 5.90 | 20 | 3.44 | 40 |
| L178810 | | <0.5 | 6.11 | 19 | 1780 | 1.9 | <2 | 4.88 | <0.5 | 25 | 123 | 43 | 5.16 | 20 | 4.73 | 30 |

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
| L178771 | | 1.75 | 640 | <1 | 2.50 | 103 | 780 | 7 | 0.19 | <5 | 17 | 308 | <20 | 0.32 | <10 | <10 |
| L178772 | | 1.73 | 301 | 1 | 2.42 | 123 | 880 | 2 | 0.52 | <5 | 16 | 243 | <20 | 0.32 | <10 | <10 |
| L178773 | | 0.38 | 1475 | <1 | 0.20 | 78 | 1500 | 10 | 0.01 | <5 | 21 | 193 | <20 | 0.09 | <10 | <10 |
| L178774 | | 2.45 | 1060 | <1 | 1.78 | 27 | 1620 | 9 | 0.01 | 6 | 24 | 1045 | <20 | 0.37 | <10 | <10 |
| L178775 | | 0.36 | 1155 | <1 | 4.34 | 4 | 940 | 22 | 0.04 | <5 | 2 | 615 | 20 | 0.27 | <10 | <10 |
| L178776 | | 2.33 | 1160 | <1 | 0.50 | 45 | 5270 | 33 | 0.04 | 8 | 14 | 1685 | 40 | 0.36 | <10 | <10 |
| L178777 | | 3.43 | 736 | <1 | 2.41 | 64 | 1750 | 13 | 0.14 | <5 | 18 | 2270 | 20 | 0.27 | <10 | <10 |
| L178778 | | 0.90 | 1105 | <1 | 1.99 | 13 | 2480 | 24 | 0.05 | <5 | 7 | 1010 | 20 | 0.20 | <10 | <10 |
| L178779 | | 2.68 | 880 | <1 | 2.50 | 32 | 1890 | 10 | 0.01 | <5 | 27 | 851 | <20 | 0.47 | <10 | <10 |
| L178780 | | 3.74 | 1075 | <1 | 1.53 | 44 | 2710 | 5 | 0.01 | <5 | 20 | 1200 | <20 | 0.50 | <10 | <10 |
| L178781 | | 3.47 | 840 | <1 | 1.22 | 43 | 2620 | 17 | <0.01 | 10 | 20 | 1595 | <20 | 0.41 | <10 | <10 |
| L178782 | | 1.28 | 756 | <1 | 1.47 | 113 | 910 | 28 | 0.18 | <5 | 18 | 528 | <20 | 0.19 | <10 | <10 |
| L178783 | | 1.91 | 1560 | <1 | 0.79 | 50 | 3120 | 15 | 0.11 | <5 | 18 | 1200 | 30 | 0.44 | <10 | <10 |
| L178784 | | 1.62 | 894 | <1 | 1.84 | 82 | 620 | 5 | 0.08 | 7 | 14 | 489 | <20 | 0.16 | <10 | <10 |
| L178785 | | 1.67 | 612 | <1 | 2.35 | 91 | 650 | 5 | 0.12 | 5 | 14 | 577 | <20 | 0.18 | <10 | <10 |
| L178786 | | 3.86 | 1375 | <1 | 0.04 | 118 | 2130 | 6 | 0.02 | 5 | 25 | 687 | <20 | 0.15 | <10 | <10 |
| L178787 | | 0.27 | 896 | <1 | 0.75 | 74 | 1690 | 10 | 0.15 | <5 | 16 | 315 | <20 | 0.12 | <10 | <10 |
| L178788 | | 2.04 | 934 | <1 | 0.48 | 47 | 1180 | 9 | <0.01 | <5 | 18 | 389 | <20 | 0.26 | <10 | <10 |
| L178789 | | 2.21 | 1225 | <1 | 1.33 | 103 | 2230 | 4 | 0.03 | 14 | 41 | 300 | <20 | 0.19 | <10 | <10 |
| L178790 | | 0.50 | 598 | <1 | 3.33 | 66 | 830 | 2 | 0.15 | <5 | 12 | 346 | <20 | 0.15 | <10 | <10 |
| L178791 | | 2.54 | 900 | <1 | 1.88 | 74 | 1140 | 5 | 0.08 | 5 | 20 | 665 | <20 | 0.22 | <10 | <10 |
| L178792 | | 2.80 | 1080 | <1 | 0.53 | 35 | 2670 | 10 | 0.05 | 33 | 20 | 733 | <20 | 0.21 | <10 | <10 |
| L178793 | | 2.23 | 629 | <1 | 2.95 | 107 | 930 | 9 | 0.16 | 6 | 17 | 565 | <20 | 0.33 | <10 | <10 |
| L178794 | | 2.99 | 979 | <1 | 2.30 | 200 | 1100 | <2 | 0.12 | <5 | 28 | 308 | <20 | 0.51 | <10 | <10 |
| L178795 | | 2.92 | 969 | <1 | 2.97 | 88 | 1660 | 18 | 0.01 | <5 | 23 | 1190 | <20 | 0.28 | <10 | <10 |
| L178796 | | 1.10 | 494 | <1 | 3.19 | 39 | 710 | 11 | 0.05 | 8 | 8 | 565 | <20 | 0.10 | <10 | <10 |
| L178797 | | 2.80 | 1330 | <1 | 0.86 | 52 | 1980 | 3 | 0.03 | 16 | 22 | 600 | <20 | 0.18 | <10 | <10 |
| L178798 | | 4.44 | 1180 | <1 | 0.94 | 49 | 1720 | 10 | 0.02 | 23 | 16 | 1425 | <20 | 0.12 | <10 | <10 |
| L178799 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178800 | | 1.92 | 730 | <1 | 1.93 | 110 | 690 | 13 | 0.10 | <5 | 18 | 373 | <20 | 0.19 | <10 | <10 |
| L178801 | | 3.65 | 1005 | <1 | 3.09 | 75 | 1880 | 6 | <0.01 | <5 | 23 | 590 | <20 | 0.34 | <10 | <10 |
| L178802 | | 4.56 | 801 | <1 | 1.95 | 72 | 2770 | 11 | 0.01 | 6 | 21 | 1080 | <20 | 0.42 | <10 | <10 |
| L178803 | | 1.93 | 1665 | <1 | 3.49 | 9 | 5950 | 11 | 0.08 | <5 | 22 | 2450 | 40 | 0.55 | <10 | <10 |
| L178804 | | 0.85 | 1010 | <1 | 5.60 | 8 | 1540 | 15 | 0.04 | <5 | 5 | 1055 | 20 | 0.12 | <10 | <10 |
| L178805 | | 1.61 | 567 | <1 | 2.37 | 93 | 690 | 5 | 0.04 | <5 | 14 | 233 | <20 | 0.22 | <10 | <10 |
| L178806 | | 2.62 | 1120 | <1 | 1.25 | 81 | 4160 | 41 | 0.03 | 5 | 18 | 1385 | 30 | 0.29 | <10 | <10 |
| L178807 | | 3.89 | 1080 | 1 | 1.67 | 79 | 2630 | 17 | 0.01 | <5 | 20 | 1150 | <20 | 0.45 | <10 | <10 |
| L178808 | | 3.57 | 801 | <1 | 3.17 | 62 | 1880 | 11 | 0.01 | <5 | 20 | 600 | <20 | 0.31 | <10 | <10 |
| L178809 | | 3.53 | 870 | <1 | 2.04 | 76 | 2490 | 7 | 0.01 | <5 | 20 | 990 | <20 | 0.46 | <10 | <10 |
| L178810 | | 3.82 | 1485 | <1 | 1.17 | 38 | 2400 | 25 | 0.09 | 6 | 18 | 789 | <20 | 0.34 | <10 | <10 |

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**Finalized Date: 28-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
|---|---|---|---|---|
| L178771 | | 138 | <10 | 99 |
| L178772 | | 149 | <10 | 93 |
| L178773 | | 174 | <10 | 59 |
| L178774 | | 198 | <10 | 89 |
| L178775 | | 143 | <10 | 120 |
| L178776 | | 233 | <10 | 171 |
| L178777 | | 133 | <10 | 86 |
| L178778 | | 142 | <10 | 123 |
| L178779 | | 237 | <10 | 96 |
| L178780 | | 193 | <10 | 107 |
| L178781 | | 178 | <10 | 105 |
| L178782 | | 145 | <10 | 123 |
| L178783 | | 222 | <10 | 113 |
| L178784 | | 101 | <10 | 63 |
| L178785 | | 99 | <10 | 77 |
| L178786 | | 156 | <10 | 74 |
| L178787 | | 170 | <10 | 125 |
| L178788 | | 142 | <10 | 88 |
| L178789 | | 221 | <10 | 101 |
| L178790 | | 85 | <10 | 44 |
| L178791 | | 123 | <10 | 101 |
| L178792 | | 173 | <10 | 98 |
| L178793 | | 139 | <10 | 117 |
| L178794 | | 200 | <10 | 99 |
| L178795 | | 160 | <10 | 98 |
| L178796 | | 62 | <10 | 53 |
| L178797 | | 198 | <10 | 105 |
| L178798 | | 144 | <10 | 75 |
| L178799 | | NSS | NSS | NSS |
| L178800 | | 126 | <10 | 72 |
| L178801 | | 159 | <10 | 90 |
| L178802 | | 193 | <10 | 105 |
| L178803 | | 283 | <10 | 121 |
| L178804 | | 57 | <10 | 59 |
| L178805 | | 107 | <10 | 91 |
| L178806 | | 189 | <10 | 115 |
| L178807 | | 184 | <10 | 97 |
| L178808 | | 153 | <10 | 79 |
| L178809 | | 174 | <10 | 106 |
| L178810 | | 148 | <10 | 91 |

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# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
| L178811 | | <0.5 | 7.22 | 24 | 4640 | 4.2 | <2 | 3.58 | <0.5 | 16 | 41 | 135 | 5.23 | 20 | 4.85 | 130 |
| L178812 | | <0.5 | 7.26 | 14 | 7030 | 7.4 | <2 | 3.74 | <0.5 | 18 | 34 | 150 | 5.12 | 30 | 4.69 | 140 |
| L178813 | | <0.5 | 7.02 | 42 | 4160 | 6.1 | <2 | 3.26 | <0.5 | 23 | 105 | 123 | 6.27 | 20 | 4.36 | 140 |
| L178814 | | <0.5 | 6.96 | 7 | 1190 | 2.4 | <2 | 3.88 | <0.5 | 34 | 168 | 85 | 6.20 | 20 | 2.71 | 40 |
| L178815 | | <0.5 | 6.66 | 8 | 750 | 1.3 | <2 | 3.98 | <0.5 | 32 | 241 | 49 | 5.68 | 20 | 1.64 | 40 |
| L178816 | | <0.5 | 6.27 | 16 | 3370 | 4.6 | <2 | 4.52 | <0.5 | 19 | 111 | 129 | 4.99 | 20 | 4.41 | 110 |
| L178817 | | <0.5 | 6.03 | 19 | 1400 | 3.0 | <2 | 7.18 | <0.5 | 30 | 129 | 83 | 6.11 | 20 | 2.99 | 70 |
| L178818 | | <0.5 | 5.76 | <5 | 1950 | 1.7 | <2 | 7.89 | <0.5 | 28 | 81 | 19 | 5.60 | 10 | 4.54 | 40 |
| L178819 | | <0.5 | 7.42 | 9 | 2240 | 2.2 | <2 | 4.74 | <0.5 | 22 | 78 | 93 | 5.17 | 20 | 4.35 | 80 |
| L178820 | | <0.5 | 8.09 | 17 | 2800 | 7.7 | <2 | 4.64 | <0.5 | 23 | 20 | 212 | 4.78 | 30 | 4.61 | 90 |
| L178821 | | <0.5 | 7.39 | <5 | 1260 | 1.5 | <2 | 4.14 | <0.5 | 32 | 226 | 69 | 5.30 | 20 | 2.30 | 50 |
| L178822 | | <0.5 | 9.36 | <5 | 3030 | 4.3 | <2 | 1.98 | <0.5 | 18 | 26 | 74 | 4.70 | 20 | 5.57 | 80 |
| L178823 | | <0.5 | 8.13 | 8 | 2440 | 10.7 | <2 | 3.33 | <0.5 | 11 | 5 | 123 | 4.06 | 20 | 3.50 | 90 |
| L178824 | | <0.5 | 8.14 | 6 | 3050 | 2.4 | <2 | 2.20 | <0.5 | 14 | 25 | 74 | 3.96 | 10 | 4.00 | 60 |
| L178825 | | <0.5 | 7.65 | <5 | 1820 | 3.9 | <2 | 3.59 | <0.5 | 14 | 8 | 64 | 3.79 | 20 | 5.17 | 50 |
| L178826 | | <0.5 | 7.43 | 13 | 2230 | 3.5 | <2 | 4.31 | <0.5 | 26 | 81 | 119 | 5.54 | 20 | 5.28 | 70 |
| L178827 | | <0.5 | 8.91 | 40 | 1010 | 2.3 | <2 | 1.07 | <0.5 | 24 | 155 | 42 | 4.47 | 20 | 2.83 | 30 |
| L178828 | | <0.5 | 7.90 | 19 | 2310 | 2.6 | <2 | 4.17 | <0.5 | 27 | 99 | 87 | 6.13 | 20 | 5.63 | 80 |
| L178829 | | <0.5 | 8.57 | 14 | 3520 | 10.5 | <2 | 1.51 | <0.5 | 8 | 50 | 36 | 3.56 | 30 | 4.65 | 90 |
| L178830 | | <0.5 | 6.79 | 13 | 3430 | 12.3 | <2 | 5.35 | <0.5 | 21 | 26 | 156 | 6.66 | 20 | 4.90 | 120 |
| L178831 | | <0.5 | 7.63 | 5 | 190 | 0.5 | <2 | 5.08 | <0.5 | 43 | 201 | 93 | 6.41 | 20 | 1.15 | <10 |
| L178832 | | <0.5 | 7.71 | <5 | 1020 | 2.0 | <2 | 1.98 | <0.5 | 11 | 72 | 1 | 2.34 | 20 | 2.38 | 30 |
| L178833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178834 | | <0.5 | 6.79 | 10 | 4210 | 8.5 | <2 | 3.55 | <0.5 | 18 | 66 | 130 | 4.93 | 20 | 4.81 | 120 |
| L178835 | | <0.5 | 6.60 | 23 | 5540 | 7.9 | <2 | 4.90 | <0.5 | 24 | 22 | 188 | 6.77 | 20 | 4.56 | 110 |
| L178836 | | <0.5 | 7.35 | 8 | 3920 | 8.2 | <2 | 3.81 | <0.5 | 18 | 42 | 138 | 5.62 | 20 | 4.55 | 110 |
| L178837 | | <0.5 | 5.88 | 12 | 4300 | 20.3 | <2 | 5.92 | <0.5 | 20 | 237 | 151 | 7.32 | 20 | 4.24 | 140 |
| L178838 | | <0.5 | 6.56 | 27 | 4880 | 12.5 | <2 | 4.43 | <0.5 | 24 | 29 | 213 | 7.08 | 20 | 4.57 | 120 |
| L178839 | | <0.5 | 7.17 | <5 | 1040 | 2.8 | <2 | 4.49 | <0.5 | 28 | 204 | 29 | 4.98 | 20 | 2.34 | 40 |
| L178840 | | <0.5 | 9.83 | 11 | 6760 | 21.1 | <2 | 0.52 | <0.5 | 9 | 9 | 123 | 6.38 | 30 | 4.95 | 200 |
| L178841 | | <0.5 | 10.05 | 32 | 4570 | 7.3 | <2 | 1.23 | <0.5 | 11 | 3 | 139 | 3.47 | 30 | 4.42 | 70 |
| L178842 | | <0.5 | 11.10 | 8 | 2900 | 6.9 | <2 | 0.74 | <0.5 | 8 | 1 | 25 | 3.11 | 30 | 4.33 | 80 |
| L178843 | | <0.5 | 10.90 | 22 | 4030 | 9.3 | <2 | 0.62 | <0.5 | 7 | 4 | 77 | 3.98 | 30 | 4.73 | 90 |
| L178844 | | <0.5 | 8.69 | 16 | 7460 | 12.7 | <2 | 1.91 | <0.5 | 13 | 3 | 82 | 6.06 | 40 | 6.69 | 170 |
| L178845 | | <0.5 | 7.18 | 17 | 6230 | 6.5 | 4 | 4.29 | <0.5 | 15 | 41 | 180 | 5.85 | 20 | 6.36 | 150 |
| L178846 | | <0.5 | 7.14 | 26 | 2010 | 2.8 | <2 | 3.99 | <0.5 | 34 | 179 | 89 | 6.21 | 20 | 3.16 | 40 |
| L178847 | | <0.5 | 7.13 | 18 | 3990 | 4.4 | <2 | 3.91 | <0.5 | 19 | 22 | 164 | 5.02 | 20 | 5.21 | 80 |
| L178848 | | <0.5 | 7.13 | 11 | 1190 | 2.1 | <2 | 3.41 | <0.5 | 22 | 181 | 87 | 5.75 | 20 | 2.34 | 40 |
| L178849 | | <0.5 | 8.39 | 20 | 680 | 1.0 | <2 | 1.44 | <0.5 | 11 | 61 | 6 | 3.23 | 20 | 1.28 | 20 |
| L178850 | | <0.5 | 7.21 | 86 | 530 | 0.7 | 2 | 1.08 | <0.5 | 28 | 161 | 61 | 5.06 | 20 | 1.22 | 10 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
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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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L178811 | | 1.40 | 1755 | <1 | 0.16 | 19 | 2630 | 40 | 0.27 | 7 | 13 | 1190 | 40 | 0.26 | <10 | <10 |
| L178812 | | 1.39 | 1470 | <1 | 0.90 | 19 | 2460 | 50 | 0.22 | <5 | 11 | 1620 | 40 | 0.32 | <10 | <10 |
| L178813 | | 2.67 | 938 | <1 | 2.76 | 39 | 4930 | 46 | 0.17 | <5 | 18 | 3050 | 50 | 0.54 | <10 | <10 |
| L178814 | | 4.07 | 942 | <1 | 2.49 | 64 | 2700 | 15 | 0.01 | <5 | 21 | 979 | <20 | 0.30 | <10 | <10 |
| L178815 | | 3.61 | 1015 | <1 | 2.29 | 104 | 1440 | 11 | 0.06 | <5 | 23 | 661 | <20 | 0.39 | <10 | <10 |
| L178816 | | 2.22 | 1015 | <1 | 0.77 | 40 | 2860 | 18 | 0.03 | 5 | 12 | 1160 | 40 | 0.38 | <10 | <10 |
| L178817 | | 3.44 | 1280 | <1 | 2.06 | 32 | 3020 | 10 | 0.01 | 12 | 28 | 1360 | 20 | 0.43 | <10 | <10 |
| L178818 | | 3.38 | 1215 | <1 | 0.10 | 27 | 1710 | 21 | 0.02 | 8 | 25 | 1790 | 20 | 0.27 | <10 | <10 |
| L178819 | | 2.07 | 1150 | <1 | 3.15 | 18 | 2410 | 11 | 0.03 | 7 | 15 | 1300 | 30 | 0.29 | <10 | <10 |
| L178820 | | 1.59 | 1815 | <1 | 1.34 | 13 | 2430 | 28 | 0.48 | 7 | 14 | 1580 | 50 | 0.34 | <10 | <10 |
| L178821 | | 3.55 | 1110 | <1 | 3.37 | 81 | 1980 | 5 | 0.01 | <5 | 24 | 1160 | <20 | 0.24 | <10 | <10 |
| L178822 | | 0.82 | 971 | <1 | 3.02 | 11 | 2500 | 19 | 0.02 | <5 | 9 | 1210 | 30 | 0.24 | <10 | <10 |
| L178823 | | 0.79 | 1490 | <1 | 3.55 | 6 | 2190 | 10 | 0.10 | <5 | 4 | 936 | 30 | 0.33 | <10 | <10 |
| L178824 | | 0.72 | 952 | <1 | 4.01 | 9 | 2180 | 12 | 0.05 | <5 | 7 | 1310 | 20 | 0.21 | <10 | <10 |
| L178825 | | 1.55 | 1410 | <1 | 2.72 | 5 | 1260 | 15 | 0.02 | <5 | 4 | 1760 | 20 | 0.21 | <10 | <10 |
| L178826 | | 2.21 | 1215 | <1 | 1.83 | 26 | 2470 | 22 | 0.15 | <5 | 18 | 1500 | 20 | 0.36 | <10 | <10 |
| L178827 | | 0.59 | 714 | <1 | 1.86 | 96 | 800 | 6 | 0.02 | <5 | 16 | 355 | <20 | 0.14 | <10 | <10 |
| L178828 | | 2.06 | 1325 | <1 | 2.22 | 29 | 2700 | 15 | 0.02 | <5 | 21 | 1330 | 20 | 0.38 | <10 | <10 |
| L178829 | | 0.81 | 787 | <1 | 1.91 | 23 | 1400 | 49 | 0.06 | <5 | 5 | 1400 | 40 | 0.36 | <10 | <10 |
| L178830 | | 1.74 | 1885 | <1 | 0.10 | 22 | 2720 | 15 | 0.33 | <5 | 15 | 1590 | 30 | 0.58 | <10 | <10 |
| L178831 | | 3.46 | 1525 | <1 | 1.99 | 76 | 500 | 6 | 0.15 | <5 | 42 | 197 | <20 | 0.57 | <10 | <10 |
| L178832 | | 1.06 | 496 | <1 | 4.98 | 24 | 770 | 12 | 0.09 | <5 | 6 | 533 | <20 | 0.14 | <10 | <10 |
| L178833 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178834 | | 1.98 | 880 | <1 | 0.24 | 25 | 2860 | 30 | 0.08 | <5 | 11 | 2500 | 40 | 0.41 | <10 | <10 |
| L178835 | | 1.74 | 1880 | <1 | 0.20 | 17 | 3550 | 46 | 0.45 | <5 | 14 | 3360 | 40 | 0.65 | <10 | <10 |
| L178836 | | 1.43 | 1315 | <1 | 0.67 | 32 | 2360 | 47 | 0.03 | <5 | 12 | 1670 | 30 | 0.54 | <10 | <10 |
| L178837 | | 3.59 | 1645 | <1 | 0.27 | 130 | 3480 | 13 | 0.12 | <5 | 24 | 1780 | 30 | 0.59 | <10 | <10 |
| L178838 | | 1.88 | 1330 | <1 | 0.19 | 25 | 6170 | 128 | 0.27 | <5 | 18 | 3080 | 40 | 0.73 | <10 | 10 |
| L178839 | | 3.34 | 971 | <1 | 2.57 | 66 | 1870 | 8 | 0.01 | <5 | 22 | 1440 | <20 | 0.26 | <10 | <10 |
| L178840 | | 0.59 | 994 | <1 | 0.07 | 8 | 2510 | 28 | 0.20 | <5 | 5 | 466 | 70 | 0.38 | <10 | <10 |
| L178841 | | 0.39 | 900 | <1 | 0.56 | 4 | 950 | 34 | 0.04 | <5 | 3 | 667 | 30 | 0.26 | <10 | <10 |
| L178842 | | 0.37 | 885 | <1 | 4.15 | 2 | 900 | 53 | 0.04 | <5 | 3 | 481 | 30 | 0.23 | <10 | <10 |
| L178843 | | 0.33 | 666 | <1 | 3.63 | 4 | 570 | 34 | 0.02 | <5 | 3 | 492 | 30 | 0.24 | <10 | <10 |
| L178844 | | 0.71 | 1790 | <1 | 1.59 | 6 | 1520 | 54 | 0.14 | <5 | 4 | 1330 | 60 | 0.65 | <10 | <10 |
| L178845 | | 1.79 | 1520 | <1 | 1.08 | 22 | 3100 | 54 | 0.13 | <5 | 13 | 2180 | 40 | 0.38 | <10 | <10 |
| L178846 | | 1.90 | 1040 | <1 | 1.81 | 53 | 2820 | 4 | 0.02 | <5 | 22 | 1090 | <20 | 0.36 | <10 | <10 |
| L178847 | | 1.15 | 1470 | <1 | 2.38 | 14 | 2560 | 28 | 0.20 | <5 | 11 | 2690 | 30 | 0.30 | <10 | <10 |
| L178848 | | 1.69 | 1320 | 1 | 1.71 | 56 | 1530 | 6 | 0.02 | <5 | 26 | 445 | <20 | 0.32 | <10 | <10 |
| L178849 | | 1.20 | 488 | <1 | 4.00 | 42 | 700 | 5 | 0.10 | 6 | 10 | 498 | <20 | 0.20 | <10 | <10 |
| L178850 | | 1.87 | 568 | <1 | 2.08 | 88 | 610 | 3 | 0.51 | 8 | 22 | 178 | <20 | 0.35 | <10 | <10 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
|---|---|---|---|---|
| L178811 | | 252 | 10 | 130 |
| L178812 | | 321 | <10 | 139 |
| L178813 | | 213 | <10 | 135 |
| L178814 | | 188 | <10 | 107 |
| L178815 | | 184 | <10 | 114 |
| L178816 | | 157 | <10 | 68 |
| L178817 | | 225 | <10 | 78 |
| L178818 | | 194 | 20 | 96 |
| L178819 | | 167 | 10 | 86 |
| L178820 | | 290 | 10 | 104 |
| L178821 | | 175 | <10 | 107 |
| L178822 | | 143 | <10 | 114 |
| L178823 | | 317 | <10 | 99 |
| L178824 | | 84 | <10 | 72 |
| L178825 | | 94 | <10 | 66 |
| L178826 | | 199 | 10 | 112 |
| L178827 | | 117 | <10 | 33 |
| L178828 | | 213 | 10 | 137 |
| L178829 | | 195 | <10 | 72 |
| L178830 | | 294 | <10 | 53 |
| L178831 | | 262 | <10 | 65 |
| L178832 | | 58 | <10 | 39 |
| L178833 | | NSS | NSS | NSS |
| L178834 | | 317 | <10 | 155 |
| L178835 | | 531 | <10 | 141 |
| L178836 | | 327 | <10 | 151 |
| L178837 | | 396 | <10 | 149 |
| L178838 | | 322 | <10 | 126 |
| L178839 | | 160 | <10 | 96 |
| L178840 | | 335 | <10 | 147 |
| L178841 | | 194 | <10 | 88 |
| L178842 | | 83 | <10 | 156 |
| L178843 | | 219 | <10 | 71 |
| L178844 | | 353 | <10 | 241 |
| L178845 | | 234 | <10 | 96 |
| L178846 | | 193 | <10 | 124 |
| L178847 | | 223 | <10 | 121 |
| L178848 | | 193 | <10 | 122 |
| L178849 | | 88 | <10 | 66 |
| L178850 | | 169 | <10 | 106 |

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
| L178851 | | <0.5 | 7.49 | 25 | 2440 | 2.1 | <2 | 4.44 | <0.5 | 31 | 190 | 66 | 5.59 | 20 | 2.97 | 50 |
| L178852 | | <0.5 | 6.47 | 6 | 2570 | 2.0 | <2 | 4.95 | <0.5 | 22 | 211 | 33 | 4.54 | 20 | 2.26 | 40 |
| L178853 | | <0.5 | 7.19 | 11 | 810 | 1.7 | <2 | 3.54 | <0.5 | 25 | 196 | 67 | 4.61 | 20 | 1.84 | 20 |
| L178854 | | <0.5 | 6.70 | 133 | 680 | 1.0 | <2 | 2.56 | <0.5 | 26 | 217 | 49 | 4.69 | 20 | 1.98 | 20 |
| L178855 | | <0.5 | 7.42 | 75 | 620 | 0.8 | <2 | 1.65 | <0.5 | 28 | 162 | 72 | 5.48 | 20 | 1.27 | 10 |
| L178856 | | <0.5 | 8.04 | <5 | 2700 | 5.5 | <2 | 2.96 | <0.5 | 12 | 25 | 60 | 5.15 | 20 | 6.68 | 80 |
| L178857 | | <0.5 | 6.70 | 13 | 660 | 1.4 | <2 | 2.41 | <0.5 | 25 | 286 | 54 | 4.39 | 20 | 3.41 | 20 |
| L178858 | | <0.5 | 6.66 | 27 | 1330 | 3.5 | <2 | 4.74 | <0.5 | 26 | 157 | 162 | 5.71 | 20 | 4.09 | 40 |
| L178859 | | <0.5 | 7.73 | 7 | 1510 | 4.1 | <2 | 1.83 | <0.5 | 7 | 68 | 5 | 2.08 | 20 | 4.29 | 30 |
| L178860 | | <0.5 | 7.07 | <5 | 1560 | 2.1 | <2 | 3.57 | <0.5 | 26 | 191 | 6 | 3.43 | 20 | 3.86 | 40 |
| L178861 | | <0.5 | 7.64 | 14 | 7240 | 5.3 | <2 | 2.01 | <0.5 | 10 | 27 | 25 | 3.79 | 20 | 6.62 | 90 |
| L178862 | | <0.5 | 6.89 | 35 | 2200 | 2.7 | <2 | 3.87 | <0.5 | 33 | 145 | 102 | 6.18 | 20 | 4.00 | 40 |
| L179380 | | <0.5 | 7.97 | <5 | 60 | <0.5 | <2 | 3.37 | <0.5 | 44 | 129 | 6 | 7.88 | 20 | 0.07 | <10 |
| L179381 | | <0.5 | 7.83 | <5 | 280 | 0.7 | <2 | 3.32 | <0.5 | 30 | 32 | 36 | 5.24 | 20 | 0.87 | 10 |
| L179382 | | <0.5 | 6.82 | 5 | 290 | 0.7 | <2 | 4.35 | <0.5 | 24 | 21 | 40 | 7.66 | 20 | 0.91 | 10 |
| L179383 | | <0.5 | 8.32 | 33 | 440 | 0.7 | <2 | 2.48 | <0.5 | 25 | 20 | 37 | 6.35 | 20 | 1.27 | 10 |
| L179384 | | <0.5 | 8.16 | 6 | 350 | 0.7 | <2 | 3.27 | <0.5 | 30 | 13 | 29 | 4.54 | 20 | 1.83 | 10 |
| L179385 | | <0.5 | 6.92 | <5 | 310 | 0.6 | <2 | 2.68 | <0.5 | 13 | 15 | 38 | 4.09 | 20 | 1.10 | <10 |
| L179386 | | <0.5 | 8.13 | 5 | 290 | 1.1 | <2 | 4.36 | <0.5 | 18 | 26 | 20 | 5.32 | 20 | 0.38 | 10 |
| L179387 | | <0.5 | 6.82 | 9 | 280 | 0.6 | 3 | 7.80 | <0.5 | 29 | 20 | 52 | 6.84 | 20 | 0.92 | 10 |
| L179388 | | <0.5 | 6.79 | <5 | 60 | <0.5 | <2 | 5.12 | 0.6 | 49 | 109 | 94 | 10.45 | 20 | 0.16 | <10 |
| L179389 | | <0.5 | 7.18 | <5 | 70 | <0.5 | <2 | 6.08 | <0.5 | 51 | 176 | 118 | 9.09 | 20 | 0.11 | <10 |
| L179390 | | <0.5 | 6.89 | <5 | 110 | <0.5 | <2 | 6.06 | <0.5 | 43 | 201 | 103 | 7.79 | 20 | 0.19 | <10 |
| L179391 | | <0.5 | 7.15 | 20 | 30 | <0.5 | <2 | 7.57 | <0.5 | 40 | 123 | 134 | 7.56 | 20 | 0.01 | <10 |
| L179392 | | <0.5 | 7.46 | <5 | 30 | <0.5 | <2 | 5.76 | <0.5 | 51 | 230 | 116 | 7.83 | 20 | 0.05 | <10 |
| L179393 | | <0.5 | 7.13 | <5 | 90 | <0.5 | <2 | 6.21 | 0.5 | 46 | 137 | 83 | 9.25 | 20 | 0.14 | <10 |
| L179394 | | <0.5 | 7.24 | 26 | 70 | 0.5 | <2 | 6.35 | <0.5 | 44 | 171 | 103 | 9.07 | 20 | 0.04 | <10 |
| L179395 | | <0.5 | 7.04 | <5 | 20 | <0.5 | 5 | 5.88 | 0.5 | 50 | 90 | 228 | 9.31 | 20 | 0.01 | <10 |
| L179396 | | <0.5 | 6.92 | <5 | 80 | <0.5 | 3 | 5.76 | 0.6 | 43 | 134 | 89 | 10.55 | 20 | 0.22 | <10 |
| L179397 | | <0.5 | 6.16 | <5 | 30 | <0.5 | 3 | 9.70 | <0.5 | 36 | 89 | 85 | 8.60 | 10 | 0.10 | <10 |
| L179398 | | <0.5 | 7.36 | <5 | 30 | <0.5 | 4 | 5.28 | <0.5 | 42 | 143 | 107 | 9.80 | 20 | 0.08 | <10 |
| L179399 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179400 | | <0.5 | 6.67 | <5 | 80 | <0.5 | 5 | 6.08 | <0.5 | 48 | 78 | 112 | 10.00 | 20 | 0.22 | <10 |
| L179537 | | <0.5 | 6.24 | <5 | 60 | <0.5 | 2 | 5.38 | <0.5 | 29 | 83 | 79 | 5.94 | 10 | 0.16 | <10 |
| L179538 | | <0.5 | 6.82 | 5 | 40 | <0.5 | <2 | 5.78 | <0.5 | 40 | 45 | 77 | 9.18 | 20 | 0.08 | <10 |
| L179539 | | <0.5 | 6.59 | <5 | 40 | 1.4 | 5 | 1.83 | <0.5 | 15 | 15 | 35 | 4.89 | 20 | 0.04 | 20 |
| L179540 | | <0.5 | 6.78 | <5 | 90 | 0.5 | 6 | 4.25 | <0.5 | 46 | 56 | 85 | 8.70 | 20 | 0.11 | <10 |
| L179541 | | <0.5 | 7.32 | <5 | 30 | <0.5 | 10 | 5.88 | <0.5 | 35 | 110 | 150 | 7.29 | 20 | 0.04 | <10 |
| L179542 | | <0.5 | 7.74 | <5 | 140 | <0.5 | 5 | 6.21 | <0.5 | 39 | 232 | 98 | 7.39 | 20 | 0.58 | <10 |

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

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
| L178851 | | 3.59 | 1030 | <1 | 2.96 | 60 | 1730 | 20 | <0.01 | 6 | 26 | 1380 | 20 | 0.34 | <10 | <10 |
| L178852 | | 2.53 | 1150 | <1 | 2.34 | 68 | 1580 | 13 | 0.04 | <5 | 20 | 1390 | <20 | 0.23 | <10 | <10 |
| L178853 | | 2.08 | 992 | <1 | 2.82 | 96 | 1280 | 9 | 0.13 | <5 | 17 | 508 | <20 | 0.29 | <10 | <10 |
| L178854 | | 1.91 | 896 | <1 | 0.71 | 102 | 700 | 3 | 0.17 | <5 | 20 | 249 | <20 | 0.25 | <10 | <10 |
| L178855 | | 2.09 | 770 | <1 | 1.97 | 90 | 650 | 7 | 0.20 | <5 | 22 | 262 | <20 | 0.38 | <10 | <10 |
| L178856 | | 1.11 | 1410 | <1 | 1.68 | 11 | 2180 | 22 | 0.01 | <5 | 10 | 1190 | 20 | 0.40 | <10 | <10 |
| L178857 | | 2.05 | 878 | <1 | 2.14 | 148 | 680 | 5 | 0.13 | <5 | 17 | 311 | <20 | 0.25 | <10 | <10 |
| L178858 | | 2.72 | 1100 | <1 | 1.33 | 46 | 2670 | 9 | 0.01 | 6 | 20 | 1110 | 20 | 0.38 | <10 | <10 |
| L178859 | | 0.83 | 489 | <1 | 3.72 | 20 | 710 | 17 | 0.05 | <5 | 6 | 492 | 30 | 0.12 | <10 | <10 |
| L178860 | | 1.84 | 993 | <1 | 3.07 | 61 | 1590 | 12 | 0.38 | <5 | 14 | 538 | 20 | 0.17 | <10 | <10 |
| L178861 | | 0.93 | 887 | <1 | 0.13 | 14 | 3580 | 37 | 0.18 | 10 | 4 | 2400 | 30 | 0.23 | <10 | <10 |
| L178862 | | 3.74 | 961 | <1 | 2.06 | 45 | 2810 | 13 | 0.02 | <5 | 22 | 1020 | <20 | 0.50 | <10 | <10 |
| L179380 | | 4.17 | 924 | <1 | 2.31 | 81 | 520 | 2 | <0.01 | <5 | 31 | 89 | <20 | 0.55 | <10 | <10 |
| L179381 | | 0.49 | 1500 | <1 | 2.35 | 47 | 900 | 6 | 0.02 | <5 | 14 | 183 | <20 | 0.26 | <10 | <10 |
| L179382 | | 1.11 | 2600 | <1 | 1.42 | 37 | 790 | 6 | 0.04 | <5 | 22 | 228 | <20 | 0.29 | <10 | <10 |
| L179383 | | 0.90 | 1540 | <1 | 2.19 | 25 | 1010 | 3 | 0.18 | <5 | 15 | 147 | <20 | 0.35 | <10 | <10 |
| L179384 | | 0.80 | 955 | <1 | 2.10 | 36 | 930 | 6 | 0.31 | <5 | 15 | 121 | <20 | 0.34 | <10 | <10 |
| L179385 | | 0.38 | 982 | <1 | 2.41 | 14 | 570 | 2 | 0.01 | <5 | 10 | 160 | <20 | 0.22 | <10 | <10 |
| L179386 | | 1.42 | 1250 | <1 | 3.03 | 17 | 750 | 2 | <0.01 | <5 | 21 | 326 | <20 | 0.42 | <10 | <10 |
| L179387 | | 2.50 | 2910 | <1 | 1.43 | 29 | 740 | 2 | 0.84 | <5 | 24 | 246 | <20 | 0.44 | <10 | <10 |
| L179388 | | 3.65 | 1520 | <1 | 1.71 | 79 | 820 | <2 | 0.17 | <5 | 41 | 130 | <20 | 1.12 | <10 | <10 |
| L179389 | | 4.69 | 1420 | <1 | 1.96 | 106 | 440 | <2 | 0.20 | <5 | 36 | 68 | <20 | 0.73 | <10 | <10 |
| L179390 | | 3.58 | 1800 | <1 | 2.05 | 92 | 320 | 3 | 0.01 | <5 | 38 | 93 | <20 | 0.58 | <10 | <10 |
| L179391 | | 2.40 | 1240 | <1 | 1.04 | 53 | 290 | <2 | 0.07 | 5 | 44 | 256 | <20 | 0.60 | <10 | <10 |
| L179392 | | 3.18 | 1300 | <1 | 1.23 | 94 | 290 | <2 | 0.09 | <5 | 41 | 156 | <20 | 0.64 | <10 | <10 |
| L179393 | | 3.81 | 1510 | <1 | 1.48 | 71 | 450 | 2 | 0.09 | <5 | 44 | 141 | <20 | 0.75 | <10 | <10 |
| L179394 | | 3.11 | 1340 | <1 | 1.10 | 96 | 510 | <2 | 0.08 | <5 | 40 | 253 | <20 | 0.82 | 10 | <10 |
| L179395 | | 4.66 | 1470 | <1 | 1.21 | 82 | 260 | <2 | 0.12 | <5 | 47 | 173 | <20 | 0.64 | <10 | <10 |
| L179396 | | 3.37 | 1530 | 1 | 1.80 | 68 | 810 | 10 | 0.18 | <5 | 44 | 150 | <20 | 1.16 | <10 | <10 |
| L179397 | | 2.38 | 1830 | <1 | 1.07 | 72 | 790 | 4 | 0.12 | <5 | 36 | 97 | <20 | 0.98 | 10 | <10 |
| L179398 | | 3.61 | 1560 | <1 | 1.68 | 75 | 740 | 2 | 0.15 | 7 | 41 | 181 | <20 | 1.08 | <10 | <10 |
| L179399 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179400 | | 3.41 | 1975 | <1 | 1.23 | 68 | 1060 | 4 | 0.14 | <5 | 43 | 136 | <20 | 1.04 | <10 | <10 |
| L179537 | | 2.59 | 1100 | 2 | 2.89 | 42 | 260 | 10 | 0.07 | <5 | 31 | 59 | <20 | 0.53 | <10 | <10 |
| L179538 | | 2.23 | 1720 | <1 | 1.95 | 43 | 590 | 2 | 0.16 | <5 | 45 | 90 | <20 | 1.22 | <10 | <10 |
| L179539 | | 1.28 | 666 | 1 | 3.57 | 10 | 510 | <2 | 0.05 | <5 | 21 | 32 | <20 | 0.50 | <10 | <10 |
| L179540 | | 3.11 | 1615 | <1 | 2.70 | 44 | 580 | 4 | 0.23 | <5 | 45 | 94 | <20 | 1.19 | <10 | <10 |
| L179541 | | 3.49 | 1180 | <1 | 1.95 | 48 | 310 | 5 | 0.04 | 5 | 40 | 113 | <20 | 0.56 | <10 | <10 |
| L179542 | | 4.33 | 1185 | <1 | 1.43 | 73 | 240 | 2 | 0.04 | <5 | 38 | 102 | <20 | 0.49 | <10 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

| 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 |
|---|---|---|---|---|
| L178851 | | 185 | <10 | 78 |
| L178852 | | 147 | <10 | 64 |
| L178853 | | 138 | <10 | 79 |
| L178854 | | 146 | <10 | 86 |
| L178855 | | 175 | <10 | 115 |
| L178856 | | 201 | <10 | 121 |
| L178857 | | 121 | <10 | 84 |
| L178858 | | 180 | <10 | 81 |
| L178859 | | 55 | <10 | 21 |
| L178860 | | 112 | <10 | 26 |
| L178861 | | 191 | <10 | 119 |
| L178862 | | 188 | <10 | 103 |
| L179380 | | 261 | <10 | 83 |
| L179381 | | 101 | <10 | 109 |
| L179382 | | 128 | <10 | 184 |
| L179383 | | 132 | <10 | 123 |
| L179384 | | 115 | <10 | 172 |
| L179385 | | 74 | <10 | 90 |
| L179386 | | 169 | <10 | 106 |
| L179387 | | 172 | <10 | 80 |
| L179388 | | 407 | <10 | 111 |
| L179389 | | 332 | <10 | 89 |
| L179390 | | 295 | <10 | 84 |
| L179391 | | 353 | <10 | 68 |
| L179392 | | 323 | <10 | 76 |
| L179393 | | 363 | <10 | 89 |
| L179394 | | 358 | <10 | 83 |
| L179395 | | 371 | <10 | 98 |
| L179396 | | 447 | <10 | 101 |
| L179397 | | 370 | <10 | 105 |
| L179398 | | 401 | <10 | 101 |
| L179399 | | NSS | NSS | NSS |
| L179400 | | 371 | <10 | 103 |
| L179537 | | 298 | <10 | 88 |
| L179538 | | 504 | <10 | 104 |
| L179539 | | 149 | <10 | 79 |
| L179540 | | 502 | <10 | 130 |
| L179541 | | 307 | <10 | 58 |
| L179542 | | 269 | <10 | 70 |

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

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**Finalized Date: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042820

## 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