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 SD14042677

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 123 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 SD14042677

| 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 |
| L178731 | | <0.5 | 7.83 | 24 | 1860 | 2.7 | 2 | 4.51 | <0.5 | 25 | 94 | 115 | 6.00 | 20 | 3.69 | 90 |
| L178732 | | <0.5 | 7.07 | 25 | 2420 | 3.7 | <2 | 4.36 | <0.5 | 18 | 68 | 100 | 5.20 | 20 | 4.39 | 90 |
| L178733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178734 | | <0.5 | 6.91 | 12 | 1160 | 1.8 | <2 | 5.35 | <0.5 | 13 | 77 | 77 | 4.72 | 10 | 2.64 | 60 |
| L178735 | | <0.5 | 9.78 | 12 | 2460 | 7.3 | <2 | 0.84 | <0.5 | 13 | 11 | 82 | 3.85 | 30 | 4.21 | 60 |
| L178736 | | <0.5 | 8.06 | 19 | 2460 | 3.7 | <2 | 2.60 | <0.5 | 15 | 24 | 87 | 4.46 | 20 | 5.18 | 50 |
| L178737 | | <0.5 | 7.08 | 17 | 1240 | 1.7 | <2 | 3.36 | <0.5 | 13 | 17 | 53 | 4.93 | 20 | 2.43 | 20 |
| L178738 | | <0.5 | 6.31 | <5 | 6630 | 2.5 | <2 | 2.76 | <0.5 | 15 | 29 | 33 | 4.58 | 10 | 3.54 | 60 |
| L178739 | | <0.5 | 8.47 | 13 | 2790 | 7.9 | 3 | 2.46 | <0.5 | 10 | 10 | 67 | 3.66 | 20 | 4.03 | 50 |
| L178740 | | <0.5 | 7.31 | 10 | 1000 | 1.1 | <2 | 2.54 | <0.5 | 20 | 197 | 21 | 4.39 | 20 | 1.16 | 30 |
| L178741 | | <0.5 | 5.71 | 8 | 2160 | 1.6 | <2 | 5.52 | <0.5 | 29 | 247 | 50 | 5.78 | 10 | 2.16 | 30 |
| L178742 | | <0.5 | 7.18 | 15 | 3060 | 1.8 | 4 | 3.46 | <0.5 | 29 | 200 | 19 | 5.60 | 20 | 3.55 | 50 |
| L178743 | | <0.5 | 6.91 | 10 | 2540 | 1.6 | <2 | 2.61 | <0.5 | 27 | 199 | 15 | 5.19 | 20 | 2.60 | 40 |
| L178744 | | <0.5 | 6.90 | 21 | 2100 | 1.7 | <2 | 4.68 | <0.5 | 31 | 211 | 13 | 5.59 | 20 | 2.59 | 50 |
| L178745 | | <0.5 | 6.55 | 36 | 1040 | 1.6 | 5 | 2.88 | <0.5 | 29 | 352 | 66 | 4.96 | 10 | 1.89 | 20 |
| L178746 | | <0.5 | 6.71 | 6 | 1670 | 1.5 | <2 | 5.90 | <0.5 | 30 | 200 | 15 | 5.58 | 20 | 2.31 | 50 |
| L178747 | | <0.5 | 7.61 | <5 | 50 | <0.5 | <2 | 6.56 | <0.5 | 39 | 16 | 137 | 9.97 | 20 | 0.14 | <10 |
| L178748 | | <0.5 | 6.22 | 12 | 580 | 1.1 | 2 | 1.99 | <0.5 | 24 | 206 | 55 | 4.95 | 20 | 1.42 | 30 |
| L178749 | | <0.5 | 8.26 | 9 | 2100 | 3.7 | 3 | 2.50 | <0.5 | 13 | 14 | 80 | 4.68 | 20 | 3.88 | 70 |
| L178750 | | <0.5 | 6.69 | 7 | 880 | 1.1 | <2 | 2.05 | <0.5 | 23 | 177 | 42 | 4.23 | 20 | 1.36 | 20 |
| L178751 | | <0.5 | 6.64 | 9 | 580 | 1.2 | 2 | 1.94 | <0.5 | 19 | 196 | 48 | 3.10 | 10 | 1.58 | 20 |
| L178752 | | <0.5 | 5.58 | 5 | 840 | 1.0 | <2 | 3.69 | <0.5 | 26 | 188 | 37 | 4.76 | 10 | 1.53 | 20 |
| L178753 | | <0.5 | 7.10 | 30 | 780 | 1.0 | 3 | 2.05 | <0.5 | 26 | 220 | 47 | 5.36 | 20 | 2.48 | 20 |
| L178754 | | <0.5 | 9.25 | 9 | 2530 | 4.1 | 3 | 1.71 | <0.5 | 15 | 14 | 104 | 4.66 | 20 | 5.92 | 90 |
| L178755 | | <0.5 | 6.82 | 30 | 1500 | 2.1 | <2 | 4.38 | <0.5 | 24 | 90 | 104 | 5.12 | 20 | 3.21 | 50 |
| L178756 | | <0.5 | 7.02 | 16 | 1900 | 2.8 | <2 | 4.56 | <0.5 | 27 | 169 | 82 | 5.73 | 20 | 3.07 | 40 |
| L178757 | | <0.5 | 7.74 | 29 | 400 | 1.0 | 4 | 1.44 | <0.5 | 27 | 190 | 38 | 4.85 | 20 | 1.20 | 20 |
| L178758 | | <0.5 | 7.20 | <5 | 2320 | 2.7 | 6 | 3.65 | <0.5 | 15 | 117 | 35 | 3.91 | 20 | 3.38 | 70 |
| L178759 | | <0.5 | 5.53 | 33 | 600 | 0.9 | <2 | 2.03 | <0.5 | 13 | 104 | 6 | 2.73 | 10 | 2.10 | 20 |
| L178760 | | <0.5 | 6.76 | <5 | 1560 | 2.0 | <2 | 2.24 | <0.5 | 8 | 81 | 13 | 2.26 | 20 | 2.61 | 20 |
| L178761 | | <0.5 | 6.72 | 29 | 2730 | 3.7 | <2 | 4.52 | <0.5 | 26 | 103 | 106 | 5.94 | 20 | 6.38 | 70 |
| L178762 | | <0.5 | 6.73 | 33 | 2540 | 5.4 | <2 | 4.39 | <0.5 | 27 | 160 | 129 | 6.42 | 20 | 2.91 | 100 |
| L178763 | | <0.5 | 8.44 | 30 | 6110 | 10.7 | <2 | 2.52 | <0.5 | 11 | 5 | 112 | 4.55 | 20 | 5.70 | 80 |
| L178764 | | <0.5 | 6.88 | 5 | 2630 | 2.4 | 2 | 6.15 | <0.5 | 27 | 49 | 100 | 6.63 | 20 | 2.76 | 90 |
| L178765 | | <0.5 | 6.14 | 9 | 590 | 0.9 | 4 | 2.61 | <0.5 | 18 | 159 | 43 | 3.88 | 10 | 1.36 | 20 |
| L178766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178767 | | <0.5 | 9.63 | 5 | 2860 | 5.3 | 5 | 1.16 | <0.5 | 5 | 2 | 93 | 2.61 | 20 | 6.69 | 70 |
| L178768 | | <0.5 | 5.81 | 52 | 660 | 0.9 | 2 | 4.48 | <0.5 | 25 | 135 | 31 | 4.96 | 10 | 2.56 | 20 |
| L178769 | | <0.5 | 8.06 | 5 | 40 | <0.5 | <2 | 3.39 | <0.5 | 42 | 276 | 25 | 6.53 | 10 | 0.05 | <10 |
| L178770 | | <0.5 | 9.76 | 8 | 4100 | 4.4 | <2 | 1.35 | <0.5 | 10 | 2 | 49 | 3.54 | 20 | 5.73 | 60 |

***** 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 SD14042677

| 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 |
| L178731 | | 2.74 | 964 | <1 | 2.90 | 26 | 2440 | 37 | 0.03 | 5 | 21 | 1265 | 30 | 0.45 | <10 | <10 |
| L178732 | | 2.08 | 1240 | <1 | 0.12 | 16 | 2210 | 27 | 0.20 | <5 | 16 | 1245 | 30 | 0.19 | <10 | <10 |
| L178733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178734 | | 2.02 | 1490 | <1 | 4.08 | 12 | 1980 | 23 | 0.17 | 6 | 15 | 1230 | 20 | 0.30 | <10 | <10 |
| L178735 | | 0.81 | 481 | <1 | 0.39 | 8 | 2170 | 20 | 0.04 | <5 | 5 | 667 | 20 | 0.23 | <10 | <10 |
| L178736 | | 0.84 | 936 | 1 | 2.23 | 8 | 2230 | 33 | 0.01 | <5 | 6 | 1500 | 20 | 0.30 | <10 | <10 |
| L178737 | | 1.34 | 1170 | <1 | 2.82 | 7 | 1270 | 2 | <0.01 | <5 | 13 | 730 | <20 | 0.35 | <10 | <10 |
| L178738 | | 1.47 | 1050 | <1 | 2.30 | 13 | 2110 | 80 | 0.13 | 5 | 15 | 1335 | 20 | 0.19 | <10 | <10 |
| L178739 | | 0.97 | 991 | <1 | 0.33 | 2 | 1990 | 32 | 0.02 | <5 | 4 | 1010 | 20 | 0.20 | <10 | <10 |
| L178740 | | 2.39 | 989 | <1 | 3.30 | 130 | 810 | 2 | 0.08 | <5 | 15 | 702 | <20 | 0.31 | <10 | <10 |
| L178741 | | 2.59 | 1140 | <1 | 0.88 | 102 | 1420 | 6 | 0.04 | <5 | 22 | 351 | <20 | 0.17 | <10 | <10 |
| L178742 | | 3.96 | 965 | 2 | 2.13 | 65 | 1640 | 20 | <0.01 | 9 | 26 | 1075 | <20 | 0.36 | <10 | <10 |
| L178743 | | 2.91 | 863 | 1 | 2.76 | 59 | 1670 | 24 | <0.01 | 10 | 23 | 961 | <20 | 0.25 | <10 | <10 |
| L178744 | | 4.19 | 1160 | 1 | 2.73 | 70 | 1680 | 23 | <0.01 | 9 | 27 | 1470 | 20 | 0.35 | <10 | <10 |
| L178745 | | 1.66 | 895 | 1 | 2.14 | 186 | 900 | 12 | 0.10 | <5 | 19 | 578 | <20 | 0.32 | 10 | <10 |
| L178746 | | 3.69 | 1080 | 1 | 2.08 | 66 | 1560 | 25 | <0.01 | 5 | 26 | 1285 | <20 | 0.32 | <10 | 10 |
| L178747 | | 2.22 | 1585 | 1 | 1.38 | 21 | 350 | <2 | 0.03 | 5 | 43 | 152 | <20 | 0.57 | 10 | <10 |
| L178748 | | 1.76 | 1045 | 1 | 2.20 | 103 | 850 | 5 | 0.10 | <5 | 15 | 333 | <20 | 0.24 | <10 | <10 |
| L178749 | | 1.03 | 1160 | 1 | 3.43 | 7 | 2810 | 23 | 0.01 | 6 | 6 | 1255 | 20 | 0.30 | <10 | <10 |
| L178750 | | 1.66 | 628 | 1 | 1.99 | 100 | 690 | 3 | 0.11 | <5 | 16 | 384 | <20 | 0.21 | <10 | <10 |
| L178751 | | 1.56 | 433 | 1 | 1.90 | 102 | 590 | 6 | 0.07 | <5 | 12 | 380 | <20 | 0.17 | <10 | <10 |
| L178752 | | 1.87 | 1115 | 1 | 1.53 | 107 | 600 | 9 | 0.11 | 7 | 16 | 535 | <20 | 0.17 | <10 | 10 |
| L178753 | | 1.22 | 1070 | 1 | 1.63 | 151 | 1100 | 5 | 0.07 | <5 | 20 | 363 | <20 | 0.25 | <10 | <10 |
| L178754 | | 0.57 | 1095 | 1 | 2.55 | 8 | 3060 | 9 | 0.02 | 5 | 6 | 814 | 30 | 0.35 | <10 | <10 |
| L178755 | | 2.08 | 975 | 1 | 2.78 | 35 | 2200 | 7 | 0.01 | 7 | 17 | 996 | <20 | 0.38 | <10 | <10 |
| L178756 | | 2.55 | 1110 | 1 | 1.27 | 69 | 2400 | 5 | 0.21 | 8 | 19 | 1130 | <20 | 0.33 | <10 | <10 |
| L178757 | | 2.16 | 608 | 2 | 4.01 | 138 | 630 | 13 | 0.01 | 8 | 18 | 374 | <20 | 0.20 | <10 | <10 |
| L178758 | | 1.91 | 797 | 1 | 3.37 | 31 | 1620 | 19 | 0.06 | 10 | 12 | 1390 | 20 | 0.32 | <10 | <10 |
| L178759 | | 1.28 | 467 | 1 | 2.33 | 54 | 350 | 11 | 0.05 | 7 | 8 | 565 | <20 | 0.12 | <10 | <10 |
| L178760 | | 1.33 | 569 | <1 | 3.28 | 51 | 780 | 10 | 0.05 | 8 | 6 | 586 | <20 | 0.19 | <10 | <10 |
| L178761 | | 2.61 | 1130 | 1 | 0.27 | 30 | 2870 | 36 | 0.10 | 8 | 23 | 1300 | 20 | 0.49 | 10 | <10 |
| L178762 | | 2.89 | 1170 | <1 | 1.10 | 71 | 3150 | 23 | 0.03 | <5 | 22 | 879 | 30 | 0.56 | <10 | <10 |
| L178763 | | 0.79 | 1285 | 1 | 2.48 | 5 | 1450 | 44 | 0.55 | 7 | 6 | 1205 | 30 | 0.42 | <10 | <10 |
| L178764 | | 2.69 | 1310 | <1 | 2.70 | 28 | 3360 | 28 | 0.09 | <5 | 22 | 2320 | 20 | 0.45 | <10 | <10 |
| L178765 | | 1.79 | 664 | 1 | 2.26 | 82 | 610 | 7 | 0.13 | 8 | 15 | 390 | <20 | 0.21 | <10 | <10 |
| L178766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L178767 | | 0.58 | 533 | 1 | 1.88 | 1 | 1310 | 28 | 0.01 | 13 | 3 | 801 | 20 | 0.25 | <10 | <10 |
| L178768 | | 2.07 | 1220 | 1 | 0.11 | 104 | 620 | 12 | 0.08 | 5 | 12 | 390 | <20 | 0.19 | <10 | <10 |
| L178769 | | 4.63 | 1085 | <1 | 3.17 | 147 | 160 | 2 | <0.01 | <5 | 36 | 130 | <20 | 0.43 | <10 | <10 |
| L178770 | | 0.50 | 1020 | 1 | 2.90 | 1 | 1210 | 26 | 0.04 | 12 | 3 | 904 | 20 | 0.27 | <10 | <10 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
|---|---|---|---|---|
| L178731 | | 216 | <10 | 135 |
| L178732 | | 272 | 10 | 93 |
| L178733 | | NSS | NSS | NSS |
| L178734 | | 116 | <10 | 47 |
| L178735 | | 128 | <10 | 110 |
| L178736 | | 120 | <10 | 103 |
| L178737 | | 143 | <10 | 109 |
| L178738 | | 145 | <10 | 118 |
| L178739 | | 88 | 10 | 84 |
| L178740 | | 109 | <10 | 80 |
| L178741 | | 162 | <10 | 84 |
| L178742 | | 180 | <10 | 94 |
| L178743 | | 180 | <10 | 78 |
| L178744 | | 179 | <10 | 96 |
| L178745 | | 142 | <10 | 93 |
| L178746 | | 177 | <10 | 86 |
| L178747 | | 303 | <10 | 101 |
| L178748 | | 131 | <10 | 86 |
| L178749 | | 125 | <10 | 104 |
| L178750 | | 120 | <10 | 109 |
| L178751 | | 84 | <10 | 64 |
| L178752 | | 108 | <10 | 80 |
| L178753 | | 143 | 10 | 155 |
| L178754 | | 126 | <10 | 150 |
| L178755 | | 150 | <10 | 69 |
| L178756 | | 167 | <10 | 104 |
| L178757 | | 132 | <10 | 96 |
| L178758 | | 112 | <10 | 98 |
| L178759 | | 58 | 10 | 38 |
| L178760 | | 55 | <10 | 45 |
| L178761 | | 217 | <10 | 117 |
| L178762 | | 237 | <10 | 166 |
| L178763 | | 265 | <10 | 113 |
| L178764 | | 234 | <10 | 137 |
| L178765 | | 115 | <10 | 75 |
| L178766 | | NSS | NSS | NSS |
| L178767 | | 85 | <10 | 73 |
| L178768 | | 115 | <10 | 64 |
| L178769 | | 238 | <10 | 97 |
| L178770 | | 95 | <10 | 106 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Ag ppm 0.5 | ME-ICP61 Al % 0.01 | ME-ICP61 As ppm 5 | ME-ICP61 Ba ppm 10 | ME-ICP61 Be ppm 0.5 | ME-ICP61 Bi ppm 2 | ME-ICP61 Ca % 0.01 | ME-ICP61 Cd ppm 0.5 | ME-ICP61 Co ppm 1 | ME-ICP61 Cr ppm 1 | ME-ICP61 Cu ppm 1 | ME-ICP61 Fe % 0.01 | ME-ICP61 Ga ppm 10 | ME-ICP61 K % 0.01 | ME-ICP61 La ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I272561 | | <0.5 | 6.32 | 8 | 2530 | 4.0 | <2 | 5.31 | <0.5 | 18 | 37 | 105 | 5.96 | 20 | 6.12 | 120 |
| I272562 | | <0.5 | 7.32 | <5 | 3440 | 1.5 | <2 | 3.89 | <0.5 | 17 | 115 | 1 | 4.55 | 20 | 2.85 | 50 |
| I272563 | | <0.5 | 7.01 | 5 | 3090 | 1.8 | 3 | 3.64 | <0.5 | 16 | 66 | 88 | 4.44 | 10 | 5.42 | 60 |
| I272564 | | <0.5 | 4.48 | 6 | 2220 | 1.2 | 2 | 9.33 | <0.5 | 27 | 208 | 5 | 5.67 | 10 | 1.07 | 40 |
| I272565 | | <0.5 | 8.07 | <5 | 2360 | 1.7 | <2 | 1.20 | <0.5 | 5 | 32 | 18 | 2.00 | 20 | 4.55 | 40 |
| I272566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I272567 | | <0.5 | 6.51 | 17 | 2880 | 2.8 | 2 | 4.12 | <0.5 | 24 | 64 | 139 | 6.95 | 20 | 5.38 | 110 |
| I272568 | | <0.5 | 6.77 | <5 | 1990 | 2.1 | <2 | 3.87 | <0.5 | 27 | 230 | 5 | 4.72 | 20 | 2.52 | 40 |
| I272569 | | <0.5 | 8.22 | <5 | 1710 | 1.2 | <2 | 0.74 | <0.5 | 4 | 26 | 19 | 1.85 | 20 | 4.32 | 40 |
| I272570 | | 0.6 | 6.10 | 10 | 320 | 5.0 | <2 | 6.36 | <0.5 | 22 | 109 | 104 | 5.42 | 20 | 1.56 | 120 |
| I272571 | | <0.5 | 7.24 | <5 | 3240 | 3.5 | <2 | 3.06 | <0.5 | 17 | 76 | 28 | 4.44 | 20 | 3.63 | 60 |
| I272572 | | <0.5 | 7.12 | 12 | 3970 | 2.8 | <2 | 4.07 | <0.5 | 19 | 24 | 206 | 6.09 | 20 | 4.47 | 130 |
| I272573 | | <0.5 | 7.47 | <5 | 1540 | 1.5 | <2 | 1.41 | <0.5 | 8 | 71 | 2 | 2.43 | 20 | 4.15 | 30 |
| I272574 | | <0.5 | 6.91 | 8 | 1950 | 1.8 | <2 | 2.48 | <0.5 | 9 | 35 | 19 | 2.97 | 20 | 2.37 | 20 |
| I272575 | | <0.5 | 6.60 | 22 | 1980 | 5.3 | <2 | 0.08 | <0.5 | 6 | 45 | 42 | 2.37 | 20 | 4.03 | 30 |
| I272576 | | <0.5 | 7.85 | 8 | 1890 | 5.6 | <2 | 0.86 | <0.5 | 11 | 54 | 32 | 2.86 | 20 | 3.96 | 40 |
| I272577 | | <0.5 | 6.91 | 7 | 3210 | 8.4 | <2 | 4.41 | <0.5 | 21 | 21 | 197 | 6.97 | 20 | 4.28 | 120 |
| I272578 | | <0.5 | 7.27 | 5 | 2880 | 3.6 | <2 | 3.12 | <0.5 | 15 | 73 | 38 | 4.51 | 20 | 3.41 | 70 |
| I272579 | | <0.5 | 7.11 | <5 | 270 | 2.1 | <2 | 3.92 | <0.5 | 30 | 115 | 69 | 5.16 | 20 | 2.67 | 10 |
| I272580 | | <0.5 | 7.41 | <5 | 1080 | 2.0 | <2 | 2.03 | <0.5 | 6 | 78 | 2 | 2.30 | 20 | 3.62 | 30 |
| I272674 | | <0.5 | 7.70 | <5 | 210 | 0.6 | <2 | 3.53 | <0.5 | 16 | 36 | 39 | 5.82 | 20 | 0.63 | 10 |
| I272675 | | <0.5 | 8.37 | <5 | 340 | 0.7 | <2 | 3.18 | <0.5 | 19 | 42 | 40 | 6.05 | 20 | 1.02 | 10 |
| I272676 | | <0.5 | 7.92 | <5 | 300 | 0.8 | <2 | 3.02 | <0.5 | 13 | 19 | 16 | 4.80 | 20 | 1.11 | 10 |
| I272677 | | <0.5 | 9.46 | <5 | 410 | 1.1 | <2 | 1.08 | <0.5 | 10 | 4 | 21 | 2.99 | 20 | 1.25 | 10 |
| I272678 | | <0.5 | 7.50 | <5 | 310 | 0.6 | <2 | 3.55 | <0.5 | 37 | 72 | 53 | 4.64 | 20 | 1.06 | 10 |
| N459165 | | <0.5 | 7.19 | <5 | 690 | 0.9 | <2 | 3.46 | <0.5 | 8 | 35 | 10 | 2.44 | 20 | 2.33 | 20 |
| N459166 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459167 | | <0.5 | 7.08 | <5 | 1400 | 1.3 | <2 | 3.12 | <0.5 | 15 | 156 | 22 | 3.28 | 20 | 1.93 | 30 |
| N459168 | | <0.5 | 7.41 | <5 | 1400 | 1.2 | <2 | 1.47 | <0.5 | 18 | 198 | 18 | 3.80 | 20 | 1.23 | 30 |
| N459169 | | <0.5 | 7.57 | <5 | 1040 | 1.2 | <2 | 1.61 | <0.5 | 12 | 43 | 11 | 2.97 | 20 | 1.77 | 20 |
| N459170 | | <0.5 | 7.02 | 6 | 1410 | 1.9 | <2 | 1.90 | <0.5 | 10 | 89 | 76 | 2.67 | 20 | 2.90 | 30 |
| N459171 | | <0.5 | 7.19 | 8 | 1430 | 2.2 | <2 | 2.31 | <0.5 | 9 | 93 | 13 | 2.62 | 20 | 2.94 | 30 |
| N459172 | | <0.5 | 7.69 | <5 | 800 | 2.4 | <2 | 0.75 | <0.5 | 2 | 18 | 8 | 1.32 | 20 | 2.67 | 30 |
| N459173 | | <0.5 | 6.86 | <5 | 1760 | 3.1 | <2 | 2.06 | <0.5 | 14 | 50 | 67 | 3.30 | 20 | 2.93 | 40 |
| N459174 | | <0.5 | 7.59 | <5 | 1170 | 1.4 | <2 | 2.40 | <0.5 | 15 | 88 | 17 | 3.69 | 20 | 2.22 | 20 |
| N459175 | | <0.5 | 7.33 | <5 | 2330 | 1.9 | <2 | 3.77 | <0.5 | 23 | 117 | 46 | 4.46 | 20 | 3.35 | 30 |
| N459176 | | <0.5 | 6.84 | <5 | 200 | 0.8 | <2 | 3.07 | <0.5 | 17 | 105 | 72 | 2.64 | 20 | 0.54 | 30 |
| N459177 | | <0.5 | 7.31 | 11 | 240 | <0.5 | <2 | 5.87 | <0.5 | 50 | 88 | 94 | 6.84 | 20 | 0.73 | <10 |
| N459178 | | <0.5 | 7.56 | <5 | 250 | <0.5 | <2 | 5.22 | <0.5 | 42 | 276 | 75 | 6.89 | 10 | 0.45 | <10 |
| N459179 | | <0.5 | 7.19 | 11 | 130 | <0.5 | <2 | 4.90 | <0.5 | 46 | 338 | 22 | 7.41 | 20 | 0.39 | <10 |

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

ALS Canada Ltd.
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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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
| I272561 | | 2.13 | 1620 | 2 | 0.68 | 22 | 3390 | 19 | 0.32 | 9 | 16 | 586 | 30 | 0.65 | <10 | <10 |
| I272562 | | 2.08 | 974 | 1 | 3.89 | 51 | 1950 | 13 | 0.01 | <5 | 14 | 2570 | <20 | 0.35 | <10 | <10 |
| I272563 | | 2.12 | 937 | <1 | 2.62 | 27 | 2560 | 18 | 0.01 | 5 | 13 | 1725 | <20 | 0.35 | <10 | <10 |
| I272564 | | 4.96 | 1855 | 1 | 2.44 | 88 | 2660 | 14 | 0.01 | <5 | 37 | 2310 | <20 | 0.24 | <10 | <10 |
| I272565 | | 0.65 | 463 | 1 | 4.52 | 13 | 660 | 27 | 0.01 | <5 | 4 | 1545 | <20 | 0.19 | <10 | <10 |
| I272566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I272567 | | 1.09 | 1595 | <1 | 0.12 | 30 | 3550 | 31 | 0.09 | 22 | 25 | 1190 | 30 | 0.48 | 10 | <10 |
| I272568 | | 3.01 | 949 | 1 | 2.68 | 74 | 1820 | 16 | 0.03 | 9 | 22 | 1170 | <20 | 0.19 | <10 | <10 |
| I272569 | | 0.47 | 324 | <1 | 5.03 | 10 | 530 | 16 | 0.01 | <5 | 2 | 814 | <20 | 0.22 | <10 | <10 |
| I272570 | | 2.57 | 1165 | 2 | 3.15 | 49 | 3580 | 24 | 2.22 | 13 | 15 | 4810 | 40 | 0.30 | <10 | <10 |
| I272571 | | 1.77 | 1270 | <1 | 3.43 | 31 | 1830 | 30 | 0.08 | 7 | 13 | 1355 | 20 | 0.29 | <10 | 10 |
| I272572 | | 1.39 | 1410 | 1 | 0.12 | 24 | 2890 | 45 | 0.21 | <5 | 11 | 1975 | 30 | 0.55 | <10 | <10 |
| I272573 | | 0.65 | 485 | <1 | 3.98 | 25 | 840 | 15 | 0.61 | 5 | 5 | 444 | <20 | 0.10 | <10 | <10 |
| I272574 | | 0.91 | 902 | 1 | 3.05 | 14 | 880 | 15 | 0.01 | 13 | 7 | 1055 | <20 | 0.20 | <10 | <10 |
| I272575 | | 0.22 | 373 | 2 | 0.09 | 12 | 560 | 18 | 0.05 | 7 | 8 | 74 | <20 | 0.12 | <10 | <10 |
| I272576 | | 0.70 | 412 | 3 | 0.48 | 18 | 780 | 25 | 0.19 | 7 | 10 | 270 | <20 | 0.18 | <10 | <10 |
| I272577 | | 1.54 | 1680 | <1 | 0.35 | 23 | 3340 | 42 | 0.32 | 10 | 15 | 2340 | 20 | 0.72 | <10 | <10 |
| I272578 | | 1.59 | 1110 | 1 | 4.19 | 29 | 1810 | 34 | 0.12 | 7 | 13 | 959 | 20 | 0.30 | <10 | <10 |
| I272579 | | 3.09 | 1170 | 1 | 1.86 | 77 | 710 | 2 | 0.03 | 5 | 35 | 190 | <20 | 0.50 | 10 | <10 |
| I272580 | | 1.09 | 624 | <1 | 4.11 | 29 | 810 | 13 | 0.07 | 6 | 6 | 409 | 20 | 0.15 | <10 | <10 |
| I272674 | | 1.03 | 1125 | 1 | 2.06 | 24 | 790 | 5 | 0.03 | 9 | 13 | 189 | <20 | 0.35 | <10 | <10 |
| I272675 | | 1.24 | 1435 | 1 | 1.91 | 27 | 830 | 9 | <0.01 | <5 | 24 | 198 | <20 | 0.56 | <10 | <10 |
| I272676 | | 1.00 | 897 | <1 | 2.32 | 18 | 850 | 4 | <0.01 | <5 | 13 | 218 | <20 | 0.39 | <10 | <10 |
| I272677 | | 0.77 | 584 | 1 | 3.33 | 6 | 1140 | 7 | <0.01 | 7 | 10 | 328 | <20 | 0.35 | <10 | <10 |
| I272678 | | 1.05 | 869 | <1 | 2.24 | 53 | 890 | 6 | 0.03 | <5 | 18 | 165 | <20 | 0.42 | <10 | <10 |
| N459165 | | 1.24 | 579 | <1 | 3.06 | 27 | 760 | 7 | 0.06 | <5 | 8 | 441 | <20 | 0.23 | <10 | <10 |
| N459166 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459167 | | 2.40 | 661 | <1 | 3.19 | 90 | 870 | 19 | 0.13 | 6 | 10 | 559 | <20 | 0.23 | <10 | <10 |
| N459168 | | 2.94 | 709 | <1 | 4.07 | 110 | 1020 | 14 | 0.28 | 6 | 12 | 395 | <20 | 0.19 | <10 | <10 |
| N459169 | | 1.39 | 410 | <1 | 3.36 | 33 | 870 | 10 | 0.05 | <5 | 9 | 491 | <20 | 0.24 | <10 | <10 |
| N459170 | | 1.20 | 545 | <1 | 3.32 | 47 | 800 | 10 | 0.22 | 6 | 6 | 760 | <20 | 0.11 | <10 | <10 |
| N459171 | | 1.31 | 528 | 1 | 3.08 | 49 | 810 | 21 | 0.15 | 5 | 6 | 834 | <20 | 0.15 | <10 | <10 |
| N459172 | | 0.38 | 264 | 1 | 5.22 | 5 | 280 | 28 | 0.09 | <5 | 2 | 426 | 20 | 0.10 | <10 | <10 |
| N459173 | | 1.51 | 583 | 1 | 3.58 | 22 | 1400 | 29 | 0.53 | <5 | 9 | 947 | 20 | 0.23 | <10 | <10 |
| N459174 | | 1.90 | 654 | 1 | 3.30 | 54 | 960 | 9 | 0.26 | <5 | 11 | 487 | <20 | 0.25 | <10 | <10 |
| N459175 | | 2.68 | 801 | <1 | 3.00 | 55 | 1750 | 16 | 0.02 | 7 | 14 | 831 | <20 | 0.40 | <10 | <10 |
| N459176 | | 1.88 | 542 | <1 | 5.08 | 60 | 820 | 12 | 0.55 | 5 | 7 | 371 | <20 | 0.17 | <10 | <10 |
| N459177 | | 3.70 | 1770 | 2 | 2.46 | 81 | 340 | 7 | 0.06 | <5 | 44 | 179 | <20 | 0.52 | <10 | <10 |
| N459178 | | 4.40 | 1180 | <1 | 2.47 | 170 | 230 | 9 | 0.18 | 7 | 27 | 320 | <20 | 0.35 | 10 | <10 |
| N459179 | | 4.10 | 2130 | 3 | 2.50 | 149 | 500 | 6 | <0.01 | <5 | 38 | 146 | <20 | 0.60 | <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 SD14042677

| 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 |
|---|---|---|---|---|
| I272561 | | 454 | 10 | 34 |
| I272562 | | 126 | <10 | 106 |
| I272563 | | 120 | <10 | 89 |
| I272564 | | 159 | <10 | 143 |
| I272565 | | 57 | <10 | 57 |
| I272566 | | NSS | NSS | NSS |
| I272567 | | 261 | 10 | 132 |
| I272568 | | 157 | <10 | 104 |
| I272569 | | 46 | <10 | 36 |
| I272570 | | 307 | 10 | 117 |
| I272571 | | 203 | 10 | 101 |
| I272572 | | 449 | 10 | 159 |
| I272573 | | 57 | 10 | 28 |
| I272574 | | 83 | <10 | 67 |
| I272575 | | 123 | 20 | 37 |
| I272576 | | 107 | 20 | 69 |
| I272577 | | 536 | 10 | 149 |
| I272578 | | 170 | 20 | 66 |
| I272579 | | 250 | 10 | 90 |
| I272580 | | 47 | 10 | 36 |
| I272674 | | 115 | <10 | 121 |
| I272675 | | 210 | <10 | 123 |
| I272676 | | 123 | <10 | 102 |
| I272677 | | 103 | <10 | 66 |
| I272678 | | 140 | <10 | 171 |
| N459165 | | 69 | <10 | 50 |
| N459166 | | NSS | NSS | NSS |
| N459167 | | 85 | <10 | 76 |
| N459168 | | 99 | <10 | 97 |
| N459169 | | 76 | <10 | 69 |
| N459170 | | 59 | <10 | 66 |
| N459171 | | 68 | <10 | 62 |
| N459172 | | 29 | <10 | 19 |
| N459173 | | 86 | <10 | 68 |
| N459174 | | 100 | <10 | 71 |
| N459175 | | 123 | 10 | 91 |
| N459176 | | 53 | <10 | 38 |
| N459177 | | 292 | <10 | 83 |
| N459178 | | 223 | <10 | 99 |
| N459179 | | 254 | <10 | 117 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| Sample Description | Method / Analyte / Units / LOR | ME-ICP61 Ag ppm 0.5 | ME-ICP61 Al % 0.01 | ME-ICP61 As ppm 5 | ME-ICP61 Ba ppm 10 | ME-ICP61 Be ppm 0.5 | ME-ICP61 Bi ppm 2 | ME-ICP61 Ca % 0.01 | ME-ICP61 Cd ppm 0.5 | ME-ICP61 Co ppm 1 | ME-ICP61 Cr ppm 1 | ME-ICP61 Cu ppm 1 | ME-ICP61 Fe % 0.01 | ME-ICP61 Ga ppm 10 | ME-ICP61 K % 0.01 | ME-ICP61 La ppm 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459180 | | <0.5 | 6.14 | <5 | 10 | <0.5 | <2 | 5.93 | <0.5 | 52 | 337 | 25 | 7.67 | 20 | 0.08 | <10 |
| N459181 | | <0.5 | 7.37 | <5 | 170 | <0.5 | <2 | 4.49 | <0.5 | 57 | 111 | 112 | 9.44 | 20 | 0.45 | <10 |
| N459182 | | <0.5 | 4.98 | <5 | 110 | <0.5 | <2 | 5.47 | <0.5 | 78 | 1655 | 18 | 7.85 | 10 | 0.25 | <10 |
| N459183 | | <0.5 | 5.05 | <5 | 20 | <0.5 | 3 | 5.48 | <0.5 | 64 | 777 | 25 | 8.08 | 10 | 0.06 | <10 |
| N459184 | | <0.5 | 7.47 | 20 | 90 | <0.5 | <2 | 6.00 | <0.5 | 55 | 150 | 136 | 8.57 | 10 | 0.41 | <10 |
| I279877 | | <0.5 | 6.92 | <5 | 150 | <0.5 | <2 | 5.01 | <0.5 | 40 | 104 | 66 | 10.25 | 20 | 0.48 | <10 |
| I279878 | | <0.5 | 7.52 | <5 | 70 | <0.5 | <2 | 5.67 | <0.5 | 45 | 197 | 100 | 8.25 | 20 | 0.09 | <10 |
| I279879 | | <0.5 | 7.10 | <5 | 40 | <0.5 | <2 | 5.76 | <0.5 | 39 | 167 | 100 | 8.38 | 20 | 0.04 | <10 |
| I279880 | | <0.5 | 7.25 | <5 | 80 | 0.5 | <2 | 7.98 | <0.5 | 29 | 79 | 41 | 8.29 | 20 | 0.14 | <10 |
| I279881 | | <0.5 | 7.57 | <5 | 90 | <0.5 | <2 | 5.89 | <0.5 | 39 | 225 | 95 | 8.06 | 20 | 0.20 | <10 |
| I279882 | | <0.5 | 7.37 | <5 | 510 | <0.5 | <2 | 5.03 | <0.5 | 41 | 122 | 89 | 9.24 | 20 | 1.16 | <10 |
| I279883 | | <0.5 | 7.20 | <5 | 50 | <0.5 | <2 | 5.22 | <0.5 | 42 | 118 | 107 | 9.36 | 20 | 0.04 | <10 |
| I279884 | | <0.5 | 8.64 | <5 | 270 | <0.5 | <2 | 5.89 | <0.5 | 48 | 213 | 116 | 8.88 | 20 | 0.33 | <10 |
| I279885 | | <0.5 | 7.58 | 6 | 90 | <0.5 | <2 | 7.92 | <0.5 | 42 | 176 | 114 | 8.39 | 10 | 0.12 | <10 |
| I279886 | | <0.5 | 8.05 | 8 | 20 | <0.5 | <2 | 7.07 | <0.5 | 44 | 195 | 117 | 9.11 | 20 | 0.02 | <10 |
| I279887 | | <0.5 | 7.34 | <5 | 40 | <0.5 | <2 | 6.67 | <0.5 | 36 | 156 | 96 | 7.03 | 20 | 0.06 | <10 |
| I279888 | | <0.5 | 7.71 | <5 | 110 | <0.5 | <2 | 4.76 | <0.5 | 43 | 112 | 153 | 8.69 | 20 | 0.12 | <10 |
| I279889 | | <0.5 | 7.50 | <5 | 100 | <0.5 | 5 | 7.22 | <0.5 | 45 | 97 | 94 | 10.15 | 20 | 0.26 | <10 |
| I279890 | | <0.5 | 8.04 | <5 | 50 | <0.5 | <2 | 3.87 | <0.5 | 48 | 216 | 92 | 8.55 | 20 | 0.04 | <10 |
| I279891 | | <0.5 | 7.97 | <5 | 30 | <0.5 | <2 | 6.80 | <0.5 | 37 | 165 | 113 | 6.64 | 20 | 0.03 | <10 |
| I279892 | | <0.5 | 7.44 | <5 | 80 | 0.5 | <2 | 6.61 | <0.5 | 42 | 163 | 112 | 7.15 | 20 | 0.12 | <10 |
| I279893 | | <0.5 | 7.13 | 5 | 70 | <0.5 | <2 | 5.21 | <0.5 | 40 | 193 | 110 | 9.77 | 20 | 0.10 | <10 |
| I279894 | | <0.5 | 7.20 | 5 | 60 | <0.5 | <2 | 5.73 | <0.5 | 35 | 157 | 65 | 7.39 | 20 | 0.04 | <10 |
| I279895 | | <0.5 | 7.46 | <5 | 20 | <0.5 | <2 | 7.47 | <0.5 | 40 | 207 | 92 | 7.54 | 10 | 0.02 | <10 |
| I279896 | | <0.5 | 8.24 | 7 | 100 | <0.5 | <2 | 5.48 | <0.5 | 45 | 247 | 103 | 6.89 | 20 | 0.15 | <10 |
| I279897 | | <0.5 | 7.92 | <5 | 30 | <0.5 | <2 | 6.76 | <0.5 | 40 | 237 | 98 | 8.28 | 20 | 0.02 | <10 |
| I279898 | | <0.5 | 7.44 | <5 | 60 | <0.5 | <2 | 6.17 | <0.5 | 38 | 168 | 104 | 7.30 | 20 | 0.10 | <10 |
| I279899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279900 | | <0.5 | 6.81 | <5 | 30 | 0.5 | <2 | 5.77 | <0.5 | 41 | 179 | 140 | 7.77 | 10 | 0.05 | <10 |
| L174441 | | <0.5 | 7.06 | 18 | 50 | <0.5 | <2 | 4.82 | <0.5 | 36 | 149 | 95 | 7.72 | 10 | 0.15 | <10 |
| L174442 | | <0.5 | 6.88 | <5 | 40 | <0.5 | <2 | 3.72 | <0.5 | 47 | 16 | 206 | 8.40 | 10 | 0.06 | <10 |
| L174443 | | <0.5 | 6.87 | 7 | 1920 | 2.0 | <2 | 3.54 | <0.5 | 19 | 146 | 40 | 4.95 | 20 | 2.10 | 40 |
| L174444 | | <0.5 | 7.71 | 10 | 2010 | 1.1 | <2 | 1.05 | <0.5 | 24 | 196 | 40 | 4.56 | 20 | 0.84 | 30 |
| L174445 | | <0.5 | 8.00 | 35 | 620 | 1.1 | <2 | 0.46 | <0.5 | 14 | 95 | 27 | 2.68 | 20 | 2.20 | 20 |
| L174446 | | <0.5 | 7.52 | 76 | 80 | 1.1 | <2 | 1.00 | <0.5 | 22 | 297 | 51 | 4.85 | 20 | 0.14 | 20 |
| L179529 | | <0.5 | 7.38 | 7 | 50 | <0.5 | <2 | 4.31 | <0.5 | 40 | 163 | 93 | 7.06 | 20 | 0.06 | <10 |
| L179530 | | <0.5 | 6.73 | <5 | 40 | <0.5 | <2 | 5.35 | <0.5 | 38 | 152 | 104 | 6.70 | 10 | 0.04 | <10 |
| L179531 | | <0.5 | 7.00 | 6 | 20 | <0.5 | <2 | 6.53 | <0.5 | 37 | 150 | 102 | 8.09 | 20 | 0.02 | <10 |
| L179532 | | <0.5 | 7.14 | 13 | 20 | <0.5 | <2 | 5.99 | <0.5 | 34 | 163 | 99 | 7.89 | 20 | 0.02 | <10 |
| L179533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
| N459180 | | 5.12 | 2150 | <1 | 1.32 | 263 | 390 | 4 | <0.01 | <5 | 34 | 47 | <20 | 0.46 | <10 | <10 |
| N459181 | | 4.64 | 2010 | <1 | 1.92 | 85 | 350 | 3 | 0.05 | <5 | 41 | 122 | <20 | 0.54 | 10 | <10 |
| N459182 | | 10.95 | 1405 | 1 | 0.52 | 711 | 140 | 7 | <0.01 | 6 | 31 | 64 | <20 | 0.25 | 10 | <10 |
| N459183 | | 11.40 | 1720 | 1 | 0.26 | 348 | 170 | 5 | <0.01 | <5 | 35 | 34 | <20 | 0.34 | <10 | <10 |
| N459184 | | 4.24 | 2050 | <1 | 1.83 | 98 | 380 | <2 | 0.13 | <5 | 49 | 170 | <20 | 0.54 | <10 | <10 |
| I279877 | | 3.40 | 1500 | <1 | 2.49 | 78 | 740 | <2 | 0.12 | <5 | 38 | 151 | <20 | 1.06 | <10 | <10 |
| I279878 | | 1.96 | 2090 | <1 | 1.97 | 100 | 430 | <2 | 0.06 | <5 | 39 | 131 | <20 | 0.82 | <10 | <10 |
| I279879 | | 4.03 | 1540 | <1 | 1.22 | 91 | 380 | <2 | 0.06 | <5 | 36 | 241 | <20 | 0.66 | <10 | <10 |
| I279880 | | 2.31 | 2050 | <1 | 2.08 | 41 | 440 | <2 | 0.04 | <5 | 35 | 272 | <20 | 0.73 | <10 | <10 |
| I279881 | | 4.72 | 1360 | <1 | 1.51 | 109 | 300 | <2 | 0.05 | <5 | 35 | 142 | <20 | 0.57 | <10 | <10 |
| I279882 | | 3.22 | 2040 | <1 | 1.77 | 72 | 410 | <2 | 0.05 | <5 | 34 | 103 | <20 | 0.82 | <10 | <10 |
| I279883 | | 3.76 | 1710 | <1 | 1.40 | 71 | 440 | <2 | 0.12 | <5 | 39 | 139 | <20 | 0.84 | <10 | <10 |
| I279884 | | 2.82 | 1610 | <1 | 2.57 | 121 | 310 | <2 | 0.02 | <5 | 42 | 262 | <20 | 0.71 | <10 | <10 |
| I279885 | | 3.42 | 1530 | <1 | 0.64 | 108 | 280 | <2 | 0.06 | <5 | 38 | 139 | <20 | 0.64 | <10 | <10 |
| I279886 | | 3.23 | 1500 | <1 | 0.68 | 111 | 310 | <2 | 0.05 | <5 | 41 | 125 | <20 | 0.68 | <10 | <10 |
| I279887 | | 3.78 | 1520 | <1 | 1.45 | 91 | 430 | <2 | 0.04 | <5 | 38 | 211 | <20 | 0.73 | <10 | <10 |
| I279888 | | 4.05 | 1580 | <1 | 1.50 | 69 | 280 | <2 | 0.06 | <5 | 47 | 111 | <20 | 0.66 | <10 | <10 |
| I279889 | | 3.61 | 1540 | <1 | 1.24 | 108 | 680 | 3 | 0.15 | <5 | 35 | 143 | <20 | 0.96 | <10 | <10 |
| I279890 | | 2.87 | 1550 | <1 | 3.09 | 118 | 530 | <2 | 0.08 | <5 | 42 | 111 | <20 | 0.87 | <10 | <10 |
| I279891 | | 3.33 | 1100 | <1 | 2.03 | 82 | 450 | <2 | 0.05 | <5 | 39 | 248 | <20 | 0.73 | <10 | <10 |
| I279892 | | 3.89 | 1370 | <1 | 2.16 | 95 | 370 | <2 | 0.09 | <5 | 38 | 98 | <20 | 0.67 | <10 | <10 |
| I279893 | | 3.47 | 1570 | <1 | 2.77 | 68 | 710 | <2 | 0.11 | <5 | 43 | 153 | <20 | 1.00 | <10 | <10 |
| I279894 | | 3.94 | 1390 | <1 | 2.59 | 91 | 360 | <2 | 0.07 | <5 | 37 | 144 | <20 | 0.66 | <10 | <10 |
| I279895 | | 4.18 | 2010 | <1 | 1.35 | 98 | 190 | <2 | 0.09 | <5 | 37 | 104 | <20 | 0.42 | <10 | <10 |
| I279896 | | 3.07 | 1650 | <1 | 2.66 | 116 | 190 | <2 | 0.01 | <5 | 40 | 67 | <20 | 0.49 | <10 | <10 |
| I279897 | | 4.49 | 1560 | <1 | 0.81 | 101 | 210 | <2 | 0.06 | <5 | 41 | 124 | <20 | 0.46 | <10 | <10 |
| I279898 | | 4.09 | 1470 | <1 | 2.01 | 94 | 380 | <2 | 0.06 | <5 | 38 | 88 | <20 | 0.65 | <10 | <10 |
| I279899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279900 | | 3.97 | 1400 | <1 | 1.96 | 96 | 330 | <2 | 0.07 | <5 | 35 | 29 | <20 | 0.62 | <10 | <10 |
| L174441 | | 4.74 | 1340 | <1 | 2.18 | 61 | 210 | <2 | 0.02 | <5 | 42 | 150 | <20 | 0.40 | <10 | <10 |
| L174442 | | 3.54 | 1450 | <1 | 2.49 | 54 | 250 | <2 | 0.21 | 5 | 46 | 106 | <20 | 0.42 | <10 | <10 |
| L174443 | | 3.07 | 1190 | <1 | 3.43 | 66 | 1200 | 11 | 0.04 | <5 | 20 | 1315 | <20 | 0.30 | <10 | <10 |
| L174444 | | 2.72 | 744 | <1 | 4.18 | 113 | 1080 | <2 | 0.11 | 5 | 17 | 296 | <20 | 0.17 | <10 | <10 |
| L174445 | | 0.47 | 391 | <1 | 2.19 | 57 | 390 | <2 | 0.02 | <5 | 10 | 240 | <20 | 0.17 | <10 | <10 |
| L174446 | | 3.17 | 840 | <1 | 3.96 | 107 | 1150 | 91 | 0.03 | <5 | 14 | 364 | <20 | 0.19 | <10 | <10 |
| L179529 | | 4.04 | 1110 | <1 | 2.50 | 91 | 360 | <2 | 0.14 | <5 | 36 | 123 | <20 | 0.65 | <10 | <10 |
| L179530 | | 3.68 | 1510 | <1 | 2.58 | 86 | 340 | <2 | 0.10 | <5 | 34 | 87 | <20 | 0.60 | <10 | <10 |
| L179531 | | 3.63 | 1350 | <1 | 1.37 | 90 | 360 | <2 | 0.05 | <5 | 36 | 130 | <20 | 0.64 | <10 | <10 |
| L179532 | | 3.44 | 1410 | <1 | 1.05 | 86 | 390 | <2 | 0.08 | <5 | 37 | 216 | <20 | 0.66 | <10 | <10 |
| L179533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |

***** 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 SD14042677

| 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 |
|---|---|---|---|---|
| N459180 | | 222 | <10 | 120 |
| N459181 | | 317 | <10 | 175 |
| N459182 | | 182 | <10 | 83 |
| N459183 | | 208 | <10 | 112 |
| N459184 | | 302 | <10 | 89 |
| I279877 | | 387 | <10 | 85 |
| I279878 | | 354 | <10 | 91 |
| I279879 | | 307 | <10 | 79 |
| I279880 | | 387 | <10 | 73 |
| I279881 | | 272 | <10 | 75 |
| I279882 | | 358 | <10 | 91 |
| I279883 | | 366 | <10 | 91 |
| I279884 | | 355 | <10 | 89 |
| I279885 | | 321 | <10 | 80 |
| I279886 | | 346 | <10 | 93 |
| I279887 | | 335 | <10 | 94 |
| I279888 | | 368 | <10 | 86 |
| I279889 | | 361 | <10 | 91 |
| I279890 | | 376 | <10 | 84 |
| I279891 | | 335 | <10 | 82 |
| I279892 | | 312 | <10 | 68 |
| I279893 | | 392 | <10 | 94 |
| I279894 | | 308 | <10 | 80 |
| I279895 | | 243 | <10 | 72 |
| I279896 | | 280 | <10 | 55 |
| I279897 | | 276 | <10 | 71 |
| I279898 | | 312 | <10 | 71 |
| I279899 | | NSS | NSS | NSS |
| I279900 | | 295 | <10 | 86 |
| L174441 | | 255 | <10 | 87 |
| L174442 | | 269 | <10 | 113 |
| L174443 | | 131 | <10 | 96 |
| L174444 | | 126 | <10 | 75 |
| L174445 | | 72 | <10 | 35 |
| L174446 | | 129 | <10 | 127 |
| L179529 | | 306 | <10 | 77 |
| L179530 | | 275 | <10 | 76 |
| L179531 | | 302 | <10 | 64 |
| L179532 | | 313 | <10 | 75 |
| L179533 | | NSS | NSS | NSS |

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# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
| L179534 | | <0.5 | 6.41 | 10 | 70 | <0.5 | <2 | 6.16 | <0.5 | 42 | 100 | 101 | 9.86 | 20 | 0.24 | <10 |
| L179535 | | <0.5 | 6.85 | 5 | 30 | <0.5 | <2 | 5.20 | <0.5 | 45 | 100 | 167 | 8.04 | 10 | 0.03 | <10 |
| L179536 | | <0.5 | 7.70 | 6 | 220 | <0.5 | <2 | 4.85 | <0.5 | 12 | 8 | 106 | 12.10 | 20 | 0.39 | 10 |

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**Finalized Date: 27-MAR-2014**
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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
| L179534 | | 3.50 | 1510 | <1 | 1.31 | 72 | 750 | 9 | 0.12 | <5 | 38 | 145 | <20 | 1.05 | <10 | <10 |
| L179535 | | 3.97 | 1495 | <1 | 1.78 | 69 | 250 | <2 | 0.12 | <5 | 43 | 159 | <20 | 0.61 | <10 | <10 |
| L179536 | | 1.56 | 2050 | <1 | 2.22 | 11 | 670 | <2 | 0.44 | <5 | 11 | 41 | <20 | 0.33 | <10 | <10 |

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# CERTIFICATE OF ANALYSIS SD14042677

| 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 |
|---|---|---|---|---|
| L179534 | | 393 | <10 | 93 |
| L179535 | | 351 | <10 | 82 |
| L179536 | | 96 | <10 | 136 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042677

## 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