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: 24-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042672

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 107 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

**Signature:**
Colin Ramshaw, Vancouver Laboratory Manager

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I279924 | | <0.5 | 8.27 | <5 | 2470 | 1.1 | <2 | 0.80 | <0.5 | 5 | 30 | 21 | 1.50 | 20 | 4.85 | 20 |
| I279925 | | <0.5 | 7.83 | <5 | 2240 | 1.5 | <2 | 1.97 | <0.5 | 9 | 54 | 13 | 2.95 | 20 | 4.29 | 40 |
| I279926 | | 0.5 | 8.45 | <5 | 9650 | 1.1 | <2 | 1.05 | <0.5 | 6 | 16 | 183 | 2.33 | 20 | 4.96 | 30 |
| I279927 | | <0.5 | 8.32 | <5 | 2080 | 1.8 | <2 | 1.60 | <0.5 | 8 | 48 | 22 | 2.59 | 20 | 4.52 | 50 |
| I279928 | | <0.5 | 7.71 | <5 | 2260 | 1.7 | <2 | 1.87 | <0.5 | 11 | 58 | 28 | 3.06 | 20 | 4.43 | 50 |
| I279929 | | <0.5 | 8.01 | <5 | 2480 | 1.5 | <2 | 1.58 | <0.5 | 7 | 45 | 15 | 2.36 | 20 | 4.52 | 40 |
| I279930 | | <0.5 | 8.27 | <5 | 2220 | 1.3 | <2 | 1.10 | <0.5 | 8 | 48 | 3 | 2.31 | 20 | 4.48 | 30 |
| I279931 | | <0.5 | 7.98 | <5 | 2430 | 1.6 | <2 | 1.67 | <0.5 | 8 | 46 | 28 | 2.40 | 20 | 4.29 | 40 |
| I279932 | | <0.5 | 7.48 | 5 | 2100 | 1.5 | <2 | 1.66 | <0.5 | 9 | 52 | 23 | 2.52 | 20 | 4.26 | 40 |
| I279933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279934 | | <0.5 | 7.65 | <5 | 2030 | 1.5 | 3 | 1.42 | <0.5 | 8 | 42 | 20 | 2.23 | 20 | 4.32 | 40 |
| I279935 | | <0.5 | 8.48 | <5 | 2110 | 2.0 | <2 | 1.47 | <0.5 | 8 | 49 | 22 | 2.71 | 20 | 4.68 | 50 |
| I279936 | | <0.5 | 8.05 | 5 | 2360 | 1.8 | <2 | 2.03 | <0.5 | 11 | 56 | 17 | 3.07 | 20 | 4.46 | 50 |
| I279937 | | <0.5 | 7.98 | <5 | 2430 | 1.4 | 4 | 1.80 | <0.5 | 8 | 53 | 14 | 2.71 | 20 | 4.38 | 40 |
| I279938 | | <0.5 | 7.80 | <5 | 2200 | 1.3 | 2 | 1.52 | <0.5 | 8 | 43 | 7 | 2.34 | 20 | 4.56 | 40 |
| I279939 | | <0.5 | 7.70 | <5 | 2330 | 1.4 | <2 | 2.27 | <0.5 | 8 | 64 | 12 | 2.93 | 20 | 4.25 | 40 |
| I279940 | | <0.5 | 7.77 | <5 | 2260 | 1.5 | 2 | 1.49 | <0.5 | 8 | 49 | 15 | 2.35 | 20 | 4.49 | 40 |
| I279941 | | <0.5 | 7.66 | <5 | 2220 | 1.4 | <2 | 1.52 | <0.5 | 8 | 45 | 21 | 2.26 | 20 | 4.37 | 40 |
| I279942 | | <0.5 | 8.08 | <5 | 2580 | 1.1 | 7 | 1.46 | <0.5 | 8 | 46 | 16 | 2.34 | 20 | 4.56 | 30 |
| I279943 | | <0.5 | 8.23 | <5 | 2390 | 1.3 | 3 | 1.70 | <0.5 | 9 | 50 | 28 | 2.63 | 20 | 4.54 | 40 |
| I279944 | | <0.5 | 5.19 | 5 | 1460 | 3.3 | <2 | 7.05 | <0.5 | 31 | 179 | 94 | 8.88 | 20 | 2.55 | 110 |
| I279945 | | <0.5 | 7.93 | <5 | 2340 | 1.6 | <2 | 1.82 | <0.5 | 9 | 54 | 29 | 2.65 | 20 | 4.48 | 40 |
| I279946 | | <0.5 | 7.97 | <5 | 2230 | 1.4 | <2 | 1.64 | <0.5 | 8 | 46 | 24 | 2.41 | 20 | 4.49 | 40 |
| I279947 | | <0.5 | 7.93 | <5 | 2230 | 1.7 | <2 | 1.86 | <0.5 | 9 | 50 | 30 | 2.87 | 20 | 4.30 | 50 |
| I279948 | | <0.5 | 7.47 | <5 | 1500 | 4.0 | <2 | 1.74 | <0.5 | 15 | 130 | 28 | 2.92 | 20 | 3.59 | 30 |
| I279949 | | <0.5 | 6.33 | <5 | 5310 | 1.5 | <2 | 5.43 | <0.5 | 28 | 90 | 27 | 6.38 | 10 | 4.75 | 90 |
| I279950 | | <0.5 | 7.48 | <5 | 2430 | 1.7 | 3 | 2.40 | <0.5 | 12 | 57 | 43 | 3.51 | 20 | 4.33 | 60 |
| I279951 | | <0.5 | 7.73 | <5 | 2030 | 2.0 | <2 | 1.86 | <0.5 | 14 | 91 | 11 | 3.01 | 20 | 4.31 | 50 |
| I279952 | | <0.5 | 7.29 | <5 | 3530 | 0.9 | <2 | 2.52 | <0.5 | 9 | 64 | 7 | 2.52 | 10 | 4.11 | 30 |
| I279953 | | <0.5 | 8.63 | <5 | 2590 | 1.4 | 2 | 1.42 | <0.5 | 8 | 40 | 30 | 2.76 | 20 | 5.05 | 40 |
| I279954 | | <0.5 | 8.19 | <5 | 2600 | 1.1 | <2 | 1.73 | <0.5 | 8 | 50 | 20 | 2.50 | 20 | 4.71 | 30 |
| I279955 | | <0.5 | 6.91 | <5 | 2890 | 1.1 | <2 | 2.92 | <0.5 | 14 | 76 | 159 | 3.99 | 20 | 4.19 | 40 |
| I279956 | | <0.5 | 7.66 | <5 | 2610 | 1.7 | 7 | 2.47 | <0.5 | 14 | 57 | 40 | 3.70 | 20 | 4.66 | 80 |
| I279957 | | <0.5 | 7.04 | <5 | 3840 | 1.1 | 2 | 3.77 | <0.5 | 17 | 73 | 88 | 4.58 | 20 | 4.82 | 60 |
| I279958 | | <0.5 | 6.61 | <5 | 3970 | 2.2 | 4 | 5.90 | <0.5 | 30 | 94 | 145 | 5.83 | 10 | 4.73 | 90 |
| I279959 | | <0.5 | 8.36 | <5 | 590 | 0.8 | <2 | 5.84 | <0.5 | 32 | 212 | 78 | 10.70 | 20 | 1.19 | 10 |
| I279960 | | <0.5 | 7.84 | <5 | 4660 | 1.1 | <2 | 2.50 | <0.5 | 11 | 61 | 21 | 3.30 | 20 | 4.35 | 60 |
| I279961 | | <0.5 | 7.92 | <5 | 2490 | 0.9 | <2 | 1.47 | <0.5 | 7 | 45 | 25 | 2.22 | 20 | 5.27 | 20 |
| I279962 | | <0.5 | 7.84 | <5 | 4670 | 1.0 | <2 | 1.16 | <0.5 | 4 | 25 | 22 | 1.52 | 20 | 4.56 | 20 |
| I279963 | | 0.5 | 7.82 | <5 | 3480 | 1.2 | <2 | 1.72 | <0.5 | 10 | 81 | 25 | 2.52 | 20 | 3.70 | 30 |

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

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
| I279924 | | 0.49 | 254 | <1 | 4.49 | 11 | 630 | 28 | 0.01 | <5 | 2 | 1730 | <20 | 0.12 | <10 | <10 |
| I279925 | | 1.12 | 687 | <1 | 4.21 | 21 | 1120 | 24 | <0.01 | <5 | 7 | 1695 | <20 | 0.22 | <10 | <10 |
| I279926 | | 0.53 | 397 | <1 | 4.04 | 11 | 740 | 25 | 0.01 | 7 | 3 | 5520 | 20 | 0.14 | <10 | <10 |
| I279927 | | 0.95 | 601 | <1 | 4.46 | 20 | 970 | 22 | <0.01 | <5 | 5 | 1490 | <20 | 0.21 | <10 | <10 |
| I279928 | | 1.18 | 635 | <1 | 4.17 | 23 | 1140 | 23 | 0.01 | 7 | 7 | 1500 | <20 | 0.25 | <10 | <10 |
| I279929 | | 0.87 | 511 | <1 | 4.27 | 18 | 900 | 25 | <0.01 | 5 | 5 | 1765 | <20 | 0.19 | 10 | <10 |
| I279930 | | 0.84 | 453 | <1 | 4.32 | 22 | 930 | 19 | <0.01 | <5 | 5 | 1430 | <20 | 0.20 | <10 | <10 |
| I279931 | | 0.93 | 545 | <1 | 4.35 | 18 | 970 | 26 | <0.01 | <5 | 5 | 1760 | <20 | 0.19 | <10 | <10 |
| I279932 | | 0.92 | 706 | 1 | 4.00 | 19 | 920 | 22 | 0.01 | <5 | 5 | 1550 | <20 | 0.21 | <10 | <10 |
| I279933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279934 | | 0.79 | 499 | <1 | 4.30 | 17 | 820 | 19 | <0.01 | <5 | 4 | 1510 | <20 | 0.18 | <10 | <10 |
| I279935 | | 1.01 | 614 | <1 | 4.43 | 20 | 940 | 30 | <0.01 | <5 | 6 | 1410 | <20 | 0.22 | <10 | <10 |
| I279936 | | 1.13 | 705 | <1 | 4.35 | 23 | 1170 | 31 | <0.01 | <5 | 6 | 1780 | <20 | 0.26 | <10 | <10 |
| I279937 | | 0.97 | 569 | <1 | 4.20 | 20 | 1120 | 25 | <0.01 | <5 | 6 | 1830 | <20 | 0.22 | <10 | <10 |
| I279938 | | 0.82 | 531 | <1 | 4.03 | 15 | 880 | 25 | <0.01 | 6 | 5 | 1600 | <20 | 0.20 | <10 | <10 |
| I279939 | | 1.18 | 672 | <1 | 4.19 | 23 | 1110 | 24 | 0.01 | <5 | 7 | 1710 | <20 | 0.23 | <10 | <10 |
| I279940 | | 0.89 | 601 | <1 | 4.13 | 19 | 920 | 24 | <0.01 | <5 | 5 | 1610 | <20 | 0.22 | <10 | <10 |
| I279941 | | 0.84 | 529 | <1 | 4.13 | 18 | 870 | 22 | <0.01 | <5 | 5 | 1630 | <20 | 0.19 | <10 | <10 |
| I279942 | | 0.91 | 508 | <1 | 4.22 | 19 | 930 | 23 | <0.01 | 5 | 5 | 1890 | <20 | 0.19 | <10 | <10 |
| I279943 | | 0.94 | 623 | <1 | 4.32 | 19 | 950 | 29 | <0.01 | <5 | 5 | 1820 | <20 | 0.22 | <10 | <10 |
| I279944 | | 3.87 | 2170 | <1 | 2.84 | 71 | 2970 | 14 | <0.01 | 7 | 25 | 1260 | <20 | 0.52 | <10 | <10 |
| I279945 | | 1.00 | 637 | <1 | 4.20 | 22 | 970 | 24 | <0.01 | 5 | 6 | 1690 | <20 | 0.23 | <10 | <10 |
| I279946 | | 0.92 | 517 | <1 | 4.26 | 17 | 910 | 26 | <0.01 | <5 | 5 | 1660 | <20 | 0.21 | <10 | <10 |
| I279947 | | 1.02 | 589 | <1 | 4.20 | 20 | 1110 | 28 | <0.01 | <5 | 6 | 1670 | <20 | 0.23 | <10 | <10 |
| I279948 | | 1.17 | 619 | <1 | 4.43 | 79 | 520 | 20 | 0.01 | <5 | 9 | 930 | 30 | 0.25 | <10 | <10 |
| I279949 | | 3.20 | 1350 | <1 | 2.15 | 34 | 3870 | 14 | 0.02 | <5 | 21 | 2930 | <20 | 0.48 | <10 | <10 |
| I279950 | | 1.33 | 798 | <1 | 3.77 | 19 | 1470 | 21 | <0.01 | <5 | 8 | 1640 | <20 | 0.30 | <10 | <10 |
| I279951 | | 1.56 | 752 | <1 | 4.17 | 33 | 1550 | 24 | <0.01 | <5 | 5 | 1280 | <20 | 0.28 | <10 | <10 |
| I279952 | | 1.24 | 663 | <1 | 3.34 | 22 | 730 | 19 | <0.01 | <5 | 7 | 1930 | <20 | 0.18 | <10 | <10 |
| I279953 | | 0.88 | 559 | <1 | 4.32 | 14 | 980 | 27 | 0.01 | <5 | 5 | 1590 | <20 | 0.24 | <10 | <10 |
| I279954 | | 0.96 | 578 | <1 | 4.19 | 21 | 970 | 23 | <0.01 | <5 | 5 | 1930 | <20 | 0.18 | <10 | <10 |
| I279955 | | 1.68 | 863 | <1 | 3.49 | 26 | 1770 | 21 | 0.01 | <5 | 9 | 2040 | <20 | 0.29 | <10 | <10 |
| I279956 | | 1.32 | 765 | <1 | 3.84 | 23 | 1460 | 25 | 0.01 | 5 | 8 | 1820 | <20 | 0.43 | <10 | <10 |
| I279957 | | 2.01 | 996 | <1 | 3.01 | 25 | 2470 | 17 | 0.01 | <5 | 13 | 2530 | <20 | 0.33 | <10 | <10 |
| I279958 | | 3.46 | 1225 | <1 | 1.72 | 38 | 3840 | 13 | 0.01 | <5 | 22 | 2730 | <20 | 0.52 | <10 | <10 |
| I279959 | | 2.83 | 3360 | <1 | 2.93 | 114 | 1050 | 6 | 0.20 | 11 | 26 | 924 | <20 | 0.47 | 10 | <10 |
| I279960 | | 1.24 | 737 | <1 | 3.90 | 30 | 2130 | 24 | 0.01 | 5 | 7 | 3060 | <20 | 0.23 | <10 | <10 |
| I279961 | | 0.84 | 484 | <1 | 3.81 | 17 | 850 | 26 | <0.01 | <5 | 5 | 1530 | <20 | 0.16 | <10 | <10 |
| I279962 | | 0.53 | 294 | <1 | 4.24 | 7 | 560 | 24 | <0.01 | <5 | 3 | 2960 | <20 | 0.10 | <10 | <10 |
| I279963 | | 1.23 | 545 | <1 | 4.36 | 24 | 1120 | 22 | <0.01 | 6 | 6 | 2500 | <20 | 0.21 | <10 | <10 |

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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
|---|---|---|---|---|
| I279924 | | 34 | <10 | 30 |
| I279925 | | 77 | <10 | 77 |
| I279926 | | 59 | <10 | 53 |
| I279927 | | 64 | <10 | 63 |
| I279928 | | 80 | <10 | 75 |
| I279929 | | 59 | <10 | 51 |
| I279930 | | 55 | <10 | 62 |
| I279931 | | 63 | <10 | 56 |
| I279932 | | 66 | <10 | 70 |
| I279933 | | NSS | NSS | NSS |
| I279934 | | 56 | <10 | 54 |
| I279935 | | 68 | <10 | 63 |
| I279936 | | 81 | <10 | 85 |
| I279937 | | 69 | <10 | 66 |
| I279938 | | 60 | <10 | 56 |
| I279939 | | 77 | <10 | 66 |
| I279940 | | 60 | <10 | 59 |
| I279941 | | 59 | <10 | 51 |
| I279942 | | 60 | <10 | 59 |
| I279943 | | 64 | <10 | 67 |
| I279944 | | 245 | <10 | 193 |
| I279945 | | 69 | <10 | 65 |
| I279946 | | 62 | <10 | 57 |
| I279947 | | 82 | <10 | 74 |
| I279948 | | 82 | <10 | 70 |
| I279949 | | 172 | <10 | 133 |
| I279950 | | 97 | <10 | 99 |
| I279951 | | 83 | <10 | 115 |
| I279952 | | 54 | <10 | 53 |
| I279953 | | 73 | <10 | 62 |
| I279954 | | 61 | <10 | 60 |
| I279955 | | 113 | <10 | 101 |
| I279956 | | 107 | <10 | 94 |
| I279957 | | 122 | <10 | 101 |
| I279958 | | 173 | <10 | 122 |
| I279959 | | 213 | <10 | 119 |
| I279960 | | 88 | <10 | 86 |
| I279961 | | 54 | <10 | 53 |
| I279962 | | 44 | <10 | 30 |
| I279963 | | 64 | <10 | 129 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I279964 | | <0.5 | 8.05 | <5 | 2270 | 1.2 | <2 | 1.82 | <0.5 | 9 | 51 | 8 | 2.70 | 20 | 4.36 | 40 |
| I279965 | | <0.5 | 7.32 | <5 | 4660 | 1.0 | <2 | 3.71 | <0.5 | 18 | 100 | 3 | 4.67 | 20 | 4.83 | 60 |
| I279966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279967 | | <0.5 | 7.52 | <5 | 2970 | 1.7 | 3 | 2.87 | <0.5 | 13 | 76 | 36 | 3.78 | 20 | 4.44 | 50 |
| I279968 | | <0.5 | 7.32 | <5 | 3890 | 1.5 | <2 | 3.60 | <0.5 | 16 | 77 | 56 | 4.26 | 10 | 4.79 | 70 |
| I279969 | | <0.5 | 6.97 | <5 | 4500 | 1.5 | 3 | 4.67 | <0.5 | 23 | 84 | 7 | 5.55 | 10 | 4.53 | 70 |
| I279970 | | <0.5 | 8.71 | <5 | 860 | 1.9 | <2 | 2.65 | <0.5 | 8 | 13 | 13 | 2.15 | 20 | 1.68 | 10 |
| I279971 | | <0.5 | 5.89 | <5 | 4300 | 0.9 | 2 | 6.83 | <0.5 | 35 | 100 | 153 | 7.61 | 20 | 3.58 | 70 |
| I279972 | | <0.5 | 7.58 | <5 | 2830 | 1.5 | 2 | 2.77 | <0.5 | 17 | 78 | 26 | 4.30 | 20 | 4.93 | 50 |
| I279973 | | <0.5 | 6.30 | <5 | 510 | 2.2 | <2 | 0.35 | <0.5 | 2 | 26 | 8 | 1.59 | 20 | 3.92 | 10 |
| I279974 | | <0.5 | 7.83 | <5 | 2970 | 1.7 | 2 | 2.75 | <0.5 | 14 | 76 | 30 | 3.58 | 20 | 4.73 | 60 |
| I279975 | | <0.5 | 6.63 | <5 | 250 | <0.5 | <2 | 8.81 | <0.5 | 36 | 296 | 57 | 9.99 | 20 | 0.42 | <10 |
| I279976 | | <0.5 | 6.99 | <5 | 3350 | 1.3 | <2 | 3.95 | <0.5 | 18 | 70 | 56 | 4.67 | 20 | 5.00 | 70 |
| I279977 | | <0.5 | 6.82 | <5 | 300 | <0.5 | <2 | 8.03 | <0.5 | 52 | 330 | 33 | 8.49 | 10 | 0.96 | 10 |
| I279978 | | <0.5 | 6.34 | <5 | 270 | <0.5 | <2 | 8.24 | <0.5 | 63 | 288 | 183 | 13.15 | 20 | 0.72 | <10 |
| I279979 | | <0.5 | 8.91 | <5 | 520 | 1.3 | <2 | 0.55 | <0.5 | 2 | 13 | 8 | 1.90 | 20 | 1.66 | 20 |
| I279980 | | <0.5 | 2.15 | <5 | 420 | 2.9 | <2 | 11.90 | 0.7 | 45 | 235 | 2 | 7.13 | 10 | 1.14 | 100 |
| I279981 | | <0.5 | 7.73 | 5 | 2860 | 2.0 | <2 | 2.63 | <0.5 | 13 | 73 | 26 | 3.68 | 20 | 4.69 | 40 |
| I279982 | | <0.5 | 7.16 | <5 | 1690 | 1.8 | <2 | 1.35 | <0.5 | 5 | 33 | 7 | 1.40 | 20 | 3.32 | 20 |
| I279983 | | <0.5 | 7.90 | <5 | 2570 | 1.7 | <2 | 1.99 | <0.5 | 10 | 53 | 22 | 3.20 | 20 | 4.79 | 70 |
| I279984 | | <0.5 | 6.95 | <5 | 1060 | 2.6 | <2 | 0.51 | <0.5 | 2 | 23 | 21 | 1.01 | 20 | 3.03 | 10 |
| I279985 | | <0.5 | 6.69 | <5 | 250 | 0.5 | <2 | 7.65 | <0.5 | 50 | 357 | 28 | 10.05 | 20 | 0.96 | 10 |
| I279986 | | <0.5 | 7.05 | <5 | 2760 | 2.2 | 3 | 6.42 | <0.5 | 40 | 221 | 109 | 7.27 | 20 | 1.73 | 30 |
| I279987 | | <0.5 | 6.57 | <5 | 500 | 1.3 | <2 | 7.48 | <0.5 | 47 | 409 | 23 | 7.52 | 20 | 0.88 | 50 |
| I279988 | | <0.5 | 5.26 | 7 | 230 | 1.0 | <2 | 9.54 | <0.5 | 71 | 483 | 129 | 5.71 | 10 | 0.90 | 220 |
| I279989 | | <0.5 | 8.09 | <5 | 1900 | 1.4 | 2 | 1.19 | <0.5 | 6 | 38 | 19 | 2.02 | 20 | 4.36 | 30 |
| I279990 | | <0.5 | 8.43 | <5 | 1910 | 0.8 | 2 | 0.96 | <0.5 | 7 | 27 | 73 | 2.09 | 20 | 4.97 | 30 |
| I279991 | | <0.5 | 8.15 | <5 | 2200 | 1.2 | <2 | 1.21 | <0.5 | 6 | 44 | 12 | 2.07 | 20 | 4.34 | 30 |
| I279992 | | <0.5 | 7.88 | <5 | 2830 | 1.1 | <2 | 1.39 | <0.5 | 6 | 38 | 41 | 1.83 | 20 | 4.38 | 20 |
| I279993 | | <0.5 | 8.56 | <5 | 2800 | 1.3 | <2 | 1.32 | <0.5 | 6 | 46 | 35 | 2.30 | 20 | 4.70 | 50 |
| I279994 | | <0.5 | 7.83 | <5 | 3400 | 1.2 | <2 | 1.43 | <0.5 | 7 | 53 | 10 | 1.96 | 20 | 4.65 | 30 |
| I279995 | | <0.5 | 8.22 | <5 | 2120 | 0.8 | <2 | 1.08 | <0.5 | 4 | 31 | 10 | 2.00 | 20 | 4.73 | 30 |
| I279996 | | <0.5 | 7.91 | <5 | 6470 | 1.5 | 3 | 2.89 | <0.5 | 15 | 82 | 15 | 3.72 | 20 | 2.75 | 30 |
| I279997 | | <0.5 | 8.39 | <5 | 2500 | 0.8 | 3 | 1.02 | <0.5 | 6 | 30 | 39 | 1.66 | 20 | 4.41 | 20 |
| I279998 | | <0.5 | 8.04 | <5 | 2850 | 0.9 | <2 | 1.02 | <0.5 | 6 | 34 | 9 | 1.69 | 20 | 5.25 | 20 |
| I279999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I280000 | | <0.5 | 8.12 | 5 | 2300 | 1.4 | 3 | 1.94 | <0.5 | 11 | 66 | 35 | 2.67 | 20 | 4.28 | 40 |
| N443601 | | <0.5 | 8.07 | <5 | 2100 | 1.1 | 4 | 0.79 | <0.5 | 4 | 27 | 14 | 1.42 | 20 | 4.65 | 20 |
| N443602 | | <0.5 | 8.09 | <5 | 2490 | 1.1 | 2 | 1.21 | <0.5 | 6 | 41 | 22 | 1.72 | 20 | 4.61 | 20 |
| N443603 | | <0.5 | 8.17 | <5 | 2530 | 1.5 | <2 | 1.30 | <0.5 | 7 | 48 | 38 | 2.27 | 20 | 4.17 | 40 |

***** 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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
| I279964 | | 1.01 | 597 | <1 | 4.18 | 19 | 970 | 24 | <0.01 | <5 | 6 | 1630 | <20 | 0.24 | <10 | <10 |
| I279965 | | 2.22 | 1045 | <1 | 2.94 | 36 | 2350 | 18 | <0.01 | <5 | 13 | 3280 | <20 | 0.34 | <10 | <10 |
| I279966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I279967 | | 1.64 | 870 | <1 | 3.68 | 27 | 1730 | 24 | 0.01 | 9 | 10 | 2170 | <20 | 0.28 | <10 | <10 |
| I279968 | | 1.94 | 947 | <1 | 3.10 | 29 | 1990 | 19 | 0.01 | <5 | 12 | 2310 | <20 | 0.42 | <10 | <10 |
| I279969 | | 2.66 | 1160 | <1 | 2.68 | 33 | 3060 | 19 | 0.01 | 5 | 17 | 2870 | <20 | 0.41 | <10 | <10 |
| I279970 | | 0.59 | 421 | <1 | 5.45 | 12 | 500 | 31 | 0.01 | 9 | 4 | 1410 | <20 | 0.17 | <10 | <10 |
| I279971 | | 4.02 | 1395 | <1 | 1.96 | 35 | 4270 | 21 | 0.09 | 6 | 27 | 2350 | <20 | 0.59 | <10 | <10 |
| I279972 | | 1.90 | 807 | 1 | 3.27 | 25 | 2080 | 17 | 0.01 | 6 | 12 | 1790 | <20 | 0.34 | <10 | <10 |
| I279973 | | 0.17 | 170 | <1 | 3.07 | 4 | 190 | 19 | <0.01 | 6 | 1 | 231 | 20 | 0.09 | <10 | <10 |
| I279974 | | 1.70 | 725 | <1 | 3.59 | 28 | 1640 | 23 | 0.01 | <5 | 9 | 1890 | <20 | 0.35 | <10 | <10 |
| I279975 | | 4.64 | 2290 | 2 | 1.44 | 130 | 540 | 7 | 0.27 | <5 | 42 | 624 | <20 | 0.60 | <10 | <10 |
| I279976 | | 2.11 | 963 | <1 | 2.74 | 24 | 2580 | 19 | 0.02 | <5 | 14 | 2280 | <20 | 0.36 | <10 | <10 |
| I279977 | | 4.60 | 2060 | <1 | 2.66 | 170 | 310 | 8 | 0.07 | 8 | 39 | 494 | <20 | 0.44 | <10 | <10 |
| I279978 | | 4.30 | 2620 | <1 | 1.58 | 94 | 490 | 5 | 0.92 | <5 | 39 | 370 | <20 | 0.60 | <10 | <10 |
| I279979 | | 0.30 | 214 | <1 | 7.05 | 6 | 270 | 28 | 0.01 | <5 | 1 | 877 | <20 | 0.13 | <10 | <10 |
| I279980 | | 5.67 | 2490 | <1 | 2.26 | 127 | >10000 | 10 | 0.01 | 7 | 43 | 725 | <20 | 0.23 | <10 | <10 |
| I279981 | | 1.64 | 805 | <1 | 3.79 | 26 | 1740 | 25 | <0.01 | <5 | 9 | 1820 | <20 | 0.25 | <10 | <10 |
| I279982 | | 0.65 | 422 | <1 | 4.16 | 13 | 540 | 14 | 0.01 | <5 | 3 | 589 | <20 | 0.12 | <10 | <10 |
| I279983 | | 1.18 | 759 | <1 | 3.94 | 18 | 1280 | 27 | <0.01 | <5 | 7 | 1830 | <20 | 0.39 | 10 | <10 |
| I279984 | | 0.15 | 560 | <1 | 4.21 | 5 | 150 | 15 | 0.01 | <5 | 1 | 492 | <20 | 0.08 | <10 | <10 |
| I279985 | | 4.11 | 2480 | 2 | 1.94 | 134 | 490 | 5 | 0.06 | 6 | 40 | 547 | <20 | 0.61 | <10 | <10 |
| I279986 | | 4.54 | 1365 | 2 | 2.24 | 128 | 2030 | 8 | 0.39 | 5 | 30 | 2420 | <20 | 0.55 | <10 | <10 |
| I279987 | | 5.85 | 1700 | <1 | 2.07 | 254 | 2160 | 5 | 0.10 | <5 | 27 | 908 | <20 | 0.48 | <10 | <10 |
| I279988 | | 8.34 | 1300 | <1 | 0.87 | 411 | 2870 | 11 | 0.66 | <5 | 28 | 900 | 30 | 0.33 | <10 | <10 |
| I279989 | | 0.69 | 446 | <1 | 4.30 | 16 | 730 | 24 | <0.01 | <5 | 4 | 1410 | <20 | 0.19 | <10 | <10 |
| I279990 | | 0.63 | 377 | <1 | 4.45 | 14 | 820 | 23 | 0.01 | 6 | 3 | 1440 | <20 | 0.19 | <10 | <10 |
| I279991 | | 0.74 | 421 | <1 | 4.31 | 18 | 730 | 26 | <0.01 | <5 | 4 | 1660 | <20 | 0.17 | 10 | <10 |
| I279992 | | 0.71 | 451 | <1 | 4.47 | 11 | 540 | 22 | <0.01 | <5 | 5 | 1960 | <20 | 0.14 | <10 | <10 |
| I279993 | | 0.82 | 444 | <1 | 4.43 | 17 | 890 | 24 | 0.01 | 5 | 4 | 1880 | <20 | 0.24 | <10 | <10 |
| I279994 | | 0.98 | 460 | <1 | 3.96 | 23 | 1270 | 21 | 0.01 | <5 | 12 | 2100 | <20 | 0.15 | <10 | <10 |
| I279995 | | 0.59 | 362 | <1 | 4.22 | 10 | 580 | 23 | <0.01 | <5 | 3 | 1500 | <20 | 0.21 | <10 | <10 |
| I279996 | | 1.62 | 653 | 1 | 4.40 | 41 | 1620 | 22 | 0.04 | 6 | 8 | 6160 | 20 | 0.25 | <10 | <10 |
| I279997 | | 0.55 | 398 | <1 | 4.50 | 12 | 530 | 24 | <0.01 | <5 | 3 | 1735 | <20 | 0.14 | <10 | <10 |
| I279998 | | 0.62 | 369 | <1 | 4.04 | 13 | 590 | 22 | 0.01 | 5 | 3 | 2190 | <20 | 0.13 | <10 | <10 |
| I279999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I280000 | | 1.14 | 645 | <1 | 4.25 | 25 | 980 | 26 | <0.01 | 8 | 6 | 1755 | <20 | 0.23 | <10 | <10 |
| N443601 | | 0.46 | 289 | <1 | 4.35 | 8 | 460 | 27 | <0.01 | <5 | 3 | 1435 | <20 | 0.13 | <10 | <10 |
| N443602 | | 0.67 | 494 | 1 | 4.36 | 14 | 630 | 25 | <0.01 | 6 | 4 | 1815 | <20 | 0.12 | <10 | <10 |
| N443603 | | 0.80 | 553 | <1 | 4.61 | 18 | 790 | 27 | 0.01 | 7 | 5 | 1445 | <20 | 0.19 | <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.**
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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
|---|---|---|---|---|
| I279964 | | 75 | <10 | 53 |
| I279965 | | 116 | <10 | 122 |
| I279966 | | NSS | NSS | NSS |
| I279967 | | 101 | <10 | 103 |
| I279968 | | 123 | <10 | 87 |
| I279969 | | 154 | <10 | 122 |
| I279970 | | 54 | <10 | 54 |
| I279971 | | 238 | <10 | 120 |
| I279972 | | 124 | <10 | 85 |
| I279973 | | 22 | <10 | 23 |
| I279974 | | 100 | <10 | 83 |
| I279975 | | 279 | <10 | 70 |
| I279976 | | 135 | <10 | 97 |
| I279977 | | 241 | <10 | 78 |
| I279978 | | 264 | <10 | 91 |
| I279979 | | 45 | <10 | 19 |
| I279980 | | 242 | <10 | 178 |
| I279981 | | 97 | <10 | 85 |
| I279982 | | 33 | <10 | 43 |
| I279983 | | 93 | <10 | 92 |
| I279984 | | 18 | <10 | 23 |
| I279985 | | 262 | <10 | 92 |
| I279986 | | 211 | <10 | 123 |
| I279987 | | 191 | <10 | 152 |
| I279988 | | 159 | <10 | 193 |
| I279989 | | 54 | <10 | 52 |
| I279990 | | 56 | <10 | 50 |
| I279991 | | 54 | <10 | 51 |
| I279992 | | 50 | <10 | 39 |
| I279993 | | 63 | <10 | 51 |
| I279994 | | 61 | <10 | 45 |
| I279995 | | 54 | <10 | 33 |
| I279996 | | 105 | <10 | 65 |
| I279997 | | 42 | <10 | 35 |
| I279998 | | 44 | <10 | 36 |
| I279999 | | NSS | NSS | NSS |
| I280000 | | 75 | <10 | 68 |
| N443601 | | 36 | <10 | 32 |
| N443602 | | 45 | <10 | 43 |
| N443603 | | 62 | <10 | 58 |

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North Vancouver BC V7H 0A7
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**Finalized Date: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443604 | | <0.5 | 7.99 | <5 | 2000 | 1.2 | <2 | 1.13 | <0.5 | 8 | 40 | 15 | 2.02 | 20 | 4.43 | 30 |
| N443605 | | <0.5 | 8.12 | <5 | 1820 | 2.4 | 3 | 1.32 | <0.5 | 8 | 38 | 37 | 2.19 | 20 | 4.88 | 40 |
| N443606 | | <0.5 | 8.41 | <5 | 1830 | 1.6 | 2 | 1.19 | <0.5 | 7 | 41 | 23 | 2.33 | 20 | 4.68 | 50 |
| N443607 | | <0.5 | 8.19 | 5 | 1980 | 1.5 | 3 | 1.38 | <0.5 | 7 | 39 | 41 | 2.36 | 20 | 4.40 | 50 |
| N443608 | | <0.5 | 8.08 | <5 | 3180 | 1.3 | <2 | 2.24 | <0.5 | 12 | 71 | 30 | 2.87 | 20 | 3.91 | 40 |
| N443609 | | <0.5 | 8.35 | 6 | 2120 | 1.4 | <2 | 1.19 | <0.5 | 8 | 49 | 19 | 2.23 | 20 | 4.60 | 30 |
| N443610 | | <0.5 | 8.34 | <5 | 2120 | 1.5 | 3 | 1.38 | <0.5 | 9 | 48 | 12 | 2.27 | 20 | 4.49 | 30 |
| N443611 | | <0.5 | 8.13 | <5 | 1890 | 1.7 | 4 | 1.41 | <0.5 | 8 | 48 | 16 | 2.28 | 20 | 4.30 | 40 |
| N443612 | | <0.5 | 8.20 | <5 | 3100 | 1.3 | 3 | 1.59 | <0.5 | 8 | 45 | 33 | 2.22 | 20 | 4.15 | 30 |
| N443613 | | <0.5 | 8.38 | <5 | 2550 | 1.2 | <2 | 1.38 | <0.5 | 7 | 45 | 12 | 2.35 | 20 | 4.92 | 40 |
| N443614 | | <0.5 | 8.05 | <5 | 2270 | 1.3 | 3 | 1.28 | <0.5 | 7 | 47 | 21 | 1.98 | 20 | 4.48 | 30 |
| N443615 | | <0.5 | 8.30 | <5 | 2560 | 1.4 | <2 | 1.44 | <0.5 | 8 | 44 | 20 | 2.26 | 20 | 4.59 | 30 |
| N443616 | | <0.5 | 7.65 | <5 | 2760 | 1.3 | 3 | 2.27 | <0.5 | 13 | 115 | 4 | 2.98 | 20 | 3.80 | 30 |
| N443617 | | <0.5 | 8.55 | <5 | 2220 | 1.2 | 2 | 1.23 | <0.5 | 6 | 39 | 10 | 1.84 | 20 | 4.53 | 30 |
| N443618 | | <0.5 | 8.56 | <5 | 1990 | 1.5 | 4 | 1.26 | <0.5 | 7 | 37 | 14 | 2.15 | 20 | 4.62 | 40 |
| N443619 | | <0.5 | 7.80 | <5 | 2020 | 1.1 | 5 | 1.64 | <0.5 | 11 | 94 | 12 | 2.12 | 20 | 3.81 | 20 |
| N443620 | | <0.5 | 8.04 | <5 | 2810 | 1.6 | 3 | 2.32 | <0.5 | 11 | 56 | 27 | 3.02 | 20 | 4.31 | 40 |
| I272651 | | <0.5 | 7.70 | 7 | 70 | 0.5 | 5 | 6.83 | <0.5 | 55 | 166 | 129 | 9.38 | 20 | 0.22 | <10 |
| I272652 | | <0.5 | 7.88 | 9 | 90 | <0.5 | 3 | 5.20 | <0.5 | 60 | 153 | 105 | 8.89 | 20 | 0.16 | <10 |
| I272653 | | <0.5 | 7.11 | 5 | 320 | 0.8 | 3 | 3.06 | <0.5 | 8 | 26 | 13 | 2.45 | 20 | 1.28 | 10 |
| I272654 | | <0.5 | 7.00 | <5 | 110 | <0.5 | 3 | 5.52 | <0.5 | 27 | 27 | 18 | 8.59 | 20 | 0.32 | 10 |
| I272655 | | <0.5 | 7.21 | <5 | 280 | 0.5 | <2 | 4.45 | <0.5 | 20 | 24 | 55 | 5.51 | 20 | 0.81 | 10 |
| I272656 | | <0.5 | 8.35 | 7 | 280 | 0.7 | 4 | 3.11 | <0.5 | 19 | 31 | 36 | 5.08 | 20 | 0.90 | 10 |
| I272657 | | <0.5 | 7.46 | 6 | 230 | 0.6 | 2 | 3.91 | <0.5 | 16 | 16 | 18 | 4.88 | 20 | 0.72 | 10 |
| I272658 | | <0.5 | 7.01 | <5 | 220 | 0.5 | <2 | 4.07 | <0.5 | 23 | 25 | 52 | 5.88 | 20 | 0.67 | 10 |
| I272659 | | 0.9 | 8.14 | 8 | 360 | 0.8 | <2 | 2.50 | <0.5 | 14 | 21 | 17 | 3.42 | 20 | 1.18 | 10 |
| I272660 | | <0.5 | 7.07 | <5 | 180 | <0.5 | <2 | 5.62 | <0.5 | 28 | 54 | 87 | 6.02 | 20 | 0.56 | 10 |

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# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
| N443604 | | 0.69 | 427 | 1 | 4.21 | 15 | 700 | 25 | <0.01 | <5 | 4 | 1480 | <20 | 0.18 | <10 | <10 |
| N443605 | | 0.95 | 697 | <1 | 4.16 | 18 | 660 | 16 | <0.01 | 5 | 5 | 923 | <20 | 0.19 | <10 | <10 |
| N443606 | | 0.71 | 528 | 1 | 4.47 | 15 | 700 | 26 | <0.01 | <5 | 4 | 1305 | <20 | 0.25 | <10 | <10 |
| N443607 | | 0.79 | 513 | <1 | 4.44 | 16 | 750 | 26 | <0.01 | <5 | 4 | 1405 | <20 | 0.29 | <10 | <10 |
| N443608 | | 1.31 | 742 | 1 | 4.51 | 29 | 1210 | 21 | 0.01 | <5 | 7 | 2360 | <20 | 0.24 | <10 | <10 |
| N443609 | | 0.81 | 435 | <1 | 4.41 | 16 | 800 | 24 | 0.01 | 7 | 4 | 1480 | <20 | 0.19 | <10 | <10 |
| N443610 | | 0.76 | 566 | <1 | 4.43 | 18 | 720 | 22 | <0.01 | <5 | 4 | 1555 | <20 | 0.20 | <10 | <10 |
| N443611 | | 0.81 | 603 | <1 | 4.49 | 18 | 790 | 26 | <0.01 | 5 | 5 | 1390 | <20 | 0.22 | <10 | <10 |
| N443612 | | 0.83 | 514 | <1 | 4.66 | 20 | 940 | 30 | <0.01 | 7 | 5 | 2460 | <20 | 0.18 | <10 | <10 |
| N443613 | | 0.88 | 570 | <1 | 4.23 | 18 | 870 | 26 | 0.01 | <5 | 5 | 1630 | <20 | 0.20 | <10 | <10 |
| N443614 | | 0.86 | 492 | <1 | 4.15 | 19 | 790 | 22 | <0.01 | <5 | 4 | 1505 | <20 | 0.17 | <10 | <10 |
| N443615 | | 0.81 | 555 | <1 | 4.40 | 17 | 760 | 28 | <0.01 | 5 | 4 | 1890 | <20 | 0.19 | <10 | <10 |
| N443616 | | 1.65 | 710 | <1 | 4.29 | 41 | 1210 | 24 | 0.01 | <5 | 7 | 2070 | <20 | 0.24 | <10 | <10 |
| N443617 | | 0.65 | 386 | <1 | 4.57 | 15 | 670 | 23 | 0.01 | <5 | 4 | 1650 | <20 | 0.15 | <10 | <10 |
| N443618 | | 0.67 | 519 | <1 | 4.59 | 12 | 660 | 24 | <0.01 | <5 | 4 | 1420 | <20 | 0.23 | <10 | <10 |
| N443619 | | 1.09 | 551 | <1 | 4.76 | 45 | 630 | 13 | 0.01 | 5 | 6 | 796 | <20 | 0.13 | <10 | <10 |
| N443620 | | 1.19 | 749 | <1 | 4.20 | 24 | 1170 | 27 | 0.01 | 5 | 7 | 2060 | <20 | 0.23 | <10 | <10 |
| I272651 | | 2.84 | 3120 | <1 | 1.85 | 96 | 1110 | 3 | 0.17 | <5 | 50 | 229 | <20 | 1.11 | <10 | <10 |
| I272652 | | 3.90 | 1525 | <1 | 2.05 | 160 | 290 | 3 | 0.17 | <5 | 36 | 369 | <20 | 0.70 | 10 | <10 |
| I272653 | | 0.49 | 626 | <1 | 1.99 | 8 | 840 | 2 | <0.01 | <5 | 12 | 198 | <20 | 0.41 | <10 | <10 |
| I272654 | | 1.55 | 1600 | <1 | 1.76 | 34 | 860 | 2 | <0.01 | 5 | 20 | 141 | <20 | 0.32 | <10 | <10 |
| I272655 | | 1.06 | 923 | 1 | 2.15 | 14 | 840 | 3 | 0.02 | <5 | 20 | 179 | <20 | 0.35 | <10 | <10 |
| I272656 | | 0.96 | 636 | 1 | 2.08 | 16 | 1160 | 6 | 0.03 | <5 | 13 | 225 | <20 | 0.38 | <10 | <10 |
| I272657 | | 0.90 | 1240 | <1 | 2.36 | 18 | 810 | <2 | <0.01 | 10 | 10 | 203 | <20 | 0.30 | <10 | <10 |
| I272658 | | 0.96 | 918 | <1 | 1.71 | 16 | 780 | 5 | 0.01 | <5 | 23 | 163 | <20 | 0.33 | <10 | <10 |
| I272659 | | 0.60 | 482 | <1 | 2.19 | 10 | 1000 | 2 | <0.01 | 5 | 14 | 233 | <20 | 0.48 | <10 | <10 |
| I272660 | | 1.76 | 1430 | <1 | 2.23 | 47 | 700 | 2 | <0.01 | <5 | 19 | 195 | <20 | 0.38 | <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: 24-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042672

| 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 |
|---|---|---|---|---|
| N443604 | | 54 | <10 | 45 |
| N443605 | | 63 | <10 | 74 |
| N443606 | | 66 | <10 | 59 |
| N443607 | | 71 | <10 | 54 |
| N443608 | | 81 | <10 | 85 |
| N443609 | | 57 | <10 | 50 |
| N443610 | | 59 | <10 | 54 |
| N443611 | | 60 | <10 | 60 |
| N443612 | | 63 | <10 | 53 |
| N443613 | | 62 | <10 | 51 |
| N443614 | | 57 | <10 | 51 |
| N443615 | | 62 | <10 | 63 |
| N443616 | | 83 | <10 | 90 |
| N443617 | | 51 | <10 | 36 |
| N443618 | | 60 | <10 | 49 |
| N443619 | | 51 | <10 | 58 |
| N443620 | | 74 | <10 | 72 |
| I272651 | | 397 | <10 | 107 |
| I272652 | | 302 | <10 | 83 |
| I272653 | | 122 | <10 | 43 |
| I272654 | | 142 | <10 | 174 |
| I272655 | | 140 | <10 | 107 |
| I272656 | | 146 | <10 | 100 |
| I272657 | | 95 | <10 | 99 |
| I272658 | | 149 | <10 | 120 |
| I272659 | | 146 | <10 | 67 |
| I272660 | | 144 | <10 | 122 |

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# CERTIFICATE OF ANALYSIS SD14042672

## 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