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 SD14042679

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 208 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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443715 | | <0.5 | 7.60 | 5 | 2070 | 1.8 | <2 | 1.03 | <0.5 | 5 | 28 | 18 | 1.61 | 20 | 4.24 | 30 |
| N443716 | | <0.5 | 7.56 | <5 | 1860 | 1.8 | <2 | 1.88 | <0.5 | 9 | 43 | 43 | 2.90 | 20 | 4.20 | 80 |
| N443717 | | <0.5 | 7.66 | <5 | 2200 | 2.1 | <2 | 1.88 | <0.5 | 7 | 41 | 30 | 2.51 | 20 | 4.30 | 50 |
| N443718 | | <0.5 | 7.44 | 8 | 1820 | 2.6 | <2 | 1.99 | <0.5 | 7 | 50 | 17 | 2.92 | 20 | 3.93 | 60 |
| N443719 | | <0.5 | 8.07 | <5 | 2150 | 2.1 | <2 | 1.19 | <0.5 | 6 | 35 | 52 | 2.09 | 20 | 4.37 | 40 |
| N443720 | | <0.5 | 7.69 | <5 | 1970 | 2.6 | <2 | 1.76 | <0.5 | 9 | 51 | 34 | 2.75 | 20 | 4.35 | 50 |
| N443721 | | <0.5 | 7.89 | <5 | 2000 | 2.5 | <2 | 1.53 | <0.5 | 7 | 42 | 32 | 2.52 | 20 | 4.32 | 50 |
| N443722 | | <0.5 | 7.04 | <5 | 1730 | 0.7 | <2 | 0.84 | <0.5 | 4 | 37 | 3 | 0.92 | 20 | 3.62 | <10 |
| N443723 | | <0.5 | 8.01 | <5 | 1880 | 2.0 | <2 | 1.32 | <0.5 | 6 | 37 | 26 | 2.18 | 20 | 4.48 | 50 |
| N443724 | | <0.5 | 7.64 | <5 | 1710 | 1.5 | <2 | 1.26 | <0.5 | 4 | 32 | 17 | 2.09 | 20 | 4.40 | 40 |
| N443725 | | <0.5 | 7.19 | 6 | 300 | 6.0 | <2 | 5.86 | <0.5 | 32 | 141 | 13 | 5.41 | 20 | 0.93 | 30 |
| N443726 | | <0.5 | 7.81 | <5 | 1450 | 2.8 | <2 | 0.86 | <0.5 | 4 | 22 | 14 | 1.94 | 30 | 4.39 | 40 |
| N443727 | | <0.5 | 7.85 | <5 | 1450 | 4.0 | <2 | 0.98 | <0.5 | 6 | 33 | 14 | 2.25 | 30 | 4.25 | 60 |
| N443728 | | <0.5 | 6.89 | 6 | 2490 | 3.6 | <2 | 5.15 | <0.5 | 31 | 137 | 24 | 7.60 | 20 | 2.73 | 70 |
| N443729 | | <0.5 | 7.38 | 5 | 2380 | 3.4 | <2 | 4.98 | <0.5 | 27 | 189 | 101 | 5.82 | 20 | 3.02 | 60 |
| N443730 | | <0.5 | 8.13 | <5 | 3020 | 1.0 | <2 | 1.75 | <0.5 | 6 | 46 | 60 | 2.49 | 20 | 4.19 | 40 |
| N443731 | | <0.5 | 8.42 | <5 | 2310 | 1.2 | <2 | 1.31 | <0.5 | 6 | 40 | 31 | 2.11 | 20 | 4.98 | 40 |
| N443732 | | <0.5 | 8.34 | <5 | 2700 | 1.2 | <2 | 1.61 | <0.5 | 10 | 46 | 686 | 3.13 | 20 | 4.57 | 40 |
| N443733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443734 | | <0.5 | 8.30 | <5 | 1750 | 2.1 | <2 | 0.86 | <0.5 | 5 | 25 | 50 | 2.07 | 20 | 4.29 | 50 |
| N443735 | | <0.5 | 8.19 | <5 | 1960 | 2.5 | <2 | 0.75 | <0.5 | 1 | 17 | 34 | 1.41 | 20 | 4.76 | 30 |
| N443736 | | <0.5 | 8.05 | <5 | 1470 | 2.5 | <2 | 0.91 | <0.5 | 5 | 24 | 17 | 1.99 | 30 | 4.36 | 50 |
| N443737 | | <0.5 | 8.17 | <5 | 2070 | 2.0 | <2 | 1.40 | <0.5 | 6 | 36 | 20 | 2.44 | 20 | 4.55 | 50 |
| N443738 | | <0.5 | 7.85 | <5 | 1790 | 2.2 | <2 | 1.51 | <0.5 | 7 | 40 | 14 | 2.55 | 20 | 4.38 | 50 |
| N443739 | | <0.5 | 8.41 | 5 | 1820 | 1.9 | <2 | 1.03 | <0.5 | 6 | 34 | 33 | 2.22 | 20 | 4.41 | 40 |
| N443740 | | <0.5 | 8.38 | <5 | 1960 | 1.5 | <2 | 1.20 | <0.5 | 4 | 35 | 56 | 1.98 | 20 | 4.57 | 50 |
| N443741 | | <0.5 | 8.15 | <5 | 1960 | 1.7 | <2 | 1.09 | <0.5 | 7 | 44 | 37 | 2.32 | 20 | 4.19 | 40 |
| N443742 | | <0.5 | 7.65 | <5 | 2950 | 2.0 | <2 | 2.47 | <0.5 | 10 | 68 | 52 | 2.93 | 20 | 3.86 | 40 |
| N443743 | | <0.5 | 8.12 | <5 | 1860 | 1.9 | <2 | 1.35 | <0.5 | 5 | 36 | 30 | 2.26 | 20 | 4.41 | 50 |
| N443744 | | <0.5 | 8.15 | <5 | 1420 | 2.9 | <2 | 0.86 | <0.5 | 3 | 28 | 14 | 1.83 | 20 | 4.35 | 40 |
| N443745 | | <0.5 | 7.85 | <5 | 1430 | 2.0 | <2 | 1.07 | <0.5 | 5 | 30 | 23 | 2.20 | 30 | 4.41 | 50 |
| N443746 | | <0.5 | 7.77 | <5 | 1910 | 2.0 | <2 | 1.65 | <0.5 | 6 | 39 | 76 | 2.45 | 20 | 4.13 | 50 |
| N443747 | | <0.5 | 8.54 | <5 | 1850 | 2.4 | <2 | 1.08 | <0.5 | 5 | 28 | 24 | 2.02 | 20 | 4.51 | 40 |
| N443748 | | <0.5 | 6.63 | <5 | 2040 | 3.1 | <2 | 3.96 | <0.5 | 28 | 193 | 45 | 6.09 | 20 | 3.36 | 90 |
| N443749 | | <0.5 | 8.61 | <5 | 2030 | 1.8 | <2 | 1.41 | <0.5 | 9 | 52 | 2 | 3.26 | 30 | 4.86 | 30 |
| N443750 | | <0.5 | 8.35 | <5 | 2020 | 2.1 | <2 | 1.69 | <0.5 | 6 | 51 | 11 | 2.77 | 20 | 4.36 | 50 |
| N443751 | | <0.5 | 8.65 | 6 | 1940 | 1.6 | <2 | 1.24 | <0.5 | 6 | 38 | 21 | 2.34 | 20 | 4.85 | 50 |
| N443752 | | <0.5 | 8.68 | <5 | 1950 | 1.6 | <2 | 1.26 | <0.5 | 5 | 37 | 19 | 2.25 | 30 | 4.67 | 50 |
| N443753 | | <0.5 | 8.89 | <5 | 1430 | 5.8 | <2 | 0.99 | <0.5 | 5 | 29 | 7 | 2.27 | 30 | 4.49 | 50 |
| L179351 | | <0.5 | 6.92 | 7 | 660 | 1.8 | <2 | 5.11 | <0.5 | 32 | 155 | 56 | 6.30 | 20 | 2.41 | 20 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
| N443715 | | 0.50 | 395 | <1 | 4.49 | 9 | 490 | 34 | <0.01 | <5 | 3 | 1505 | <20 | 0.15 | 10 | <10 |
| N443716 | | 1.01 | 706 | <1 | 4.06 | 17 | 1020 | 27 | <0.01 | <5 | 6 | 1335 | <20 | 0.40 | <10 | <10 |
| N443717 | | 0.97 | 651 | <1 | 4.11 | 14 | 960 | 25 | <0.01 | <5 | 6 | 1470 | <20 | 0.26 | <10 | <10 |
| N443718 | | 1.05 | 764 | <1 | 4.14 | 18 | 930 | 28 | <0.01 | <5 | 7 | 1290 | <20 | 0.29 | <10 | <10 |
| N443719 | | 0.79 | 449 | <1 | 4.32 | 18 | 800 | 33 | 0.07 | <5 | 4 | 1345 | <20 | 0.20 | <10 | <10 |
| N443720 | | 1.03 | 636 | <1 | 4.15 | 18 | 1180 | 28 | 0.01 | <5 | 6 | 1330 | 20 | 0.24 | <10 | <10 |
| N443721 | | 0.85 | 633 | <1 | 4.51 | 19 | 770 | 33 | 0.01 | <5 | 5 | 1370 | <20 | 0.23 | <10 | <10 |
| N443722 | | 0.44 | 278 | <1 | 4.70 | 18 | 210 | 10 | 0.02 | <5 | 3 | 362 | <20 | 0.05 | <10 | <10 |
| N443723 | | 0.76 | 511 | <1 | 4.64 | 15 | 750 | 29 | 0.01 | <5 | 4 | 1335 | <20 | 0.22 | <10 | <10 |
| N443724 | | 0.65 | 466 | <1 | 4.30 | 12 | 640 | 26 | <0.01 | <5 | 4 | 1220 | <20 | 0.22 | <10 | <10 |
| N443725 | | 3.01 | 1145 | <1 | 3.70 | 94 | 440 | 44 | 0.01 | <5 | 30 | 573 | 20 | 0.40 | <10 | <10 |
| N443726 | | 0.47 | 453 | <1 | 4.59 | 8 | 380 | 29 | 0.01 | <5 | 3 | 916 | <20 | 0.20 | <10 | <10 |
| N443727 | | 0.67 | 561 | <1 | 4.62 | 12 | 590 | 52 | 0.02 | <5 | 4 | 980 | 30 | 0.22 | <10 | 10 |
| N443728 | | 3.59 | 1325 | <1 | 2.76 | 28 | 4200 | 12 | 0.01 | <5 | 31 | 1740 | <20 | 0.66 | 10 | <10 |
| N443729 | | 3.11 | 990 | 2 | 3.05 | 59 | 2330 | 17 | 0.02 | <5 | 19 | 1840 | 20 | 0.41 | 10 | <10 |
| N443730 | | 0.90 | 589 | <1 | 4.26 | 18 | 950 | 24 | 0.01 | <5 | 5 | 2270 | <20 | 0.25 | <10 | <10 |
| N443731 | | 0.74 | 457 | <1 | 4.44 | 17 | 690 | 25 | 0.01 | <5 | 4 | 1460 | <20 | 0.20 | <10 | <10 |
| N443732 | | 0.96 | 636 | <1 | 4.28 | 18 | 870 | 20 | 0.07 | <5 | 6 | 1500 | <20 | 0.25 | <10 | <10 |
| N443733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443734 | | 0.49 | 480 | <1 | 4.78 | 9 | 540 | 39 | 0.03 | <5 | 2 | 1225 | <20 | 0.22 | <10 | <10 |
| N443735 | | 0.41 | 346 | <1 | 4.58 | 7 | 260 | 37 | 0.02 | <5 | 3 | 1240 | <20 | 0.12 | <10 | <10 |
| N443736 | | 0.53 | 446 | <1 | 4.77 | 8 | 470 | 21 | <0.01 | <5 | 3 | 969 | <20 | 0.21 | 10 | <10 |
| N443737 | | 0.84 | 528 | <1 | 4.47 | 15 | 860 | 29 | <0.01 | <5 | 5 | 1405 | <20 | 0.25 | <10 | <10 |
| N443738 | | 0.83 | 635 | <1 | 4.37 | 16 | 810 | 26 | <0.01 | <5 | 5 | 1245 | <20 | 0.26 | <10 | <10 |
| N443739 | | 0.76 | 421 | <1 | 4.77 | 16 | 700 | 24 | <0.01 | <5 | 4 | 1195 | <20 | 0.21 | <10 | <10 |
| N443740 | | 0.71 | 447 | <1 | 4.52 | 16 | 710 | 23 | 0.01 | <5 | 4 | 1310 | <20 | 0.21 | <10 | <10 |
| N443741 | | 0.83 | 571 | <1 | 4.57 | 18 | 730 | 20 | <0.01 | <5 | 4 | 1300 | <20 | 0.22 | <10 | <10 |
| N443742 | | 1.40 | 804 | <1 | 4.13 | 27 | 840 | 23 | 0.01 | <5 | 9 | 2030 | <20 | 0.22 | <10 | <10 |
| N443743 | | 0.75 | 551 | <1 | 4.52 | 13 | 660 | 25 | 0.01 | <5 | 4 | 1290 | <20 | 0.21 | <10 | <10 |
| N443744 | | 0.51 | 376 | <1 | 4.73 | 10 | 440 | 34 | <0.01 | <5 | 3 | 997 | <20 | 0.18 | <10 | <10 |
| N443745 | | 0.68 | 503 | <1 | 4.54 | 10 | 560 | 24 | <0.01 | <5 | 3 | 982 | <20 | 0.23 | <10 | <10 |
| N443746 | | 0.84 | 637 | <1 | 4.44 | 16 | 830 | 24 | 0.01 | <5 | 5 | 1320 | <20 | 0.23 | <10 | <10 |
| N443747 | | 0.52 | 408 | <1 | 4.68 | 9 | 500 | 30 | <0.01 | <5 | 3 | 1325 | <20 | 0.17 | <10 | <10 |
| N443748 | | 3.11 | 1480 | <1 | 3.37 | 64 | 2400 | 15 | 0.01 | <5 | 15 | 1255 | <20 | 0.50 | <10 | <10 |
| N443749 | | 0.91 | 504 | <1 | 4.09 | 19 | 780 | 27 | <0.01 | <5 | 5 | 1265 | <20 | 0.29 | <10 | <10 |
| N443750 | | 0.90 | 517 | <1 | 4.57 | 14 | 770 | 22 | <0.01 | <5 | 6 | 1365 | <20 | 0.26 | <10 | <10 |
| N443751 | | 0.66 | 415 | <1 | 4.46 | 12 | 720 | 21 | 0.01 | <5 | 4 | 1265 | <20 | 0.23 | <10 | <10 |
| N443752 | | 0.63 | 468 | <1 | 4.68 | 11 | 710 | 20 | <0.01 | <5 | 4 | 1410 | <20 | 0.23 | <10 | <10 |
| N443753 | | 0.52 | 526 | <1 | 5.16 | 9 | 480 | 41 | 0.01 | <5 | 3 | 1100 | 30 | 0.21 | <10 | <10 |
| L179351 | | 3.59 | 1265 | <1 | 2.77 | 38 | 1720 | <2 | 0.48 | <5 | 22 | 450 | <20 | 0.30 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|
| N443715 | | 42 | <10 | 44 |
| N443716 | | 81 | <10 | 81 |
| N443717 | | 71 | <10 | 67 |
| N443718 | | 84 | <10 | 82 |
| N443719 | | 60 | <10 | 63 |
| N443720 | | 75 | <10 | 79 |
| N443721 | | 66 | <10 | 75 |
| N443722 | | 24 | <10 | 24 |
| N443723 | | 62 | <10 | 57 |
| N443724 | | 57 | <10 | 49 |
| N443725 | | 202 | <10 | 99 |
| N443726 | | 50 | <10 | 46 |
| N443727 | | 61 | <10 | 63 |
| N443728 | | 249 | <10 | 112 |
| N443729 | | 163 | <10 | 65 |
| N443730 | | 72 | <10 | 63 |
| N443731 | | 57 | <10 | 44 |
| N443732 | | 90 | <10 | 57 |
| N443733 | | NSS | NSS | NSS |
| N443734 | | 56 | <10 | 46 |
| N443735 | | 35 | <10 | 32 |
| N443736 | | 53 | <10 | 42 |
| N443737 | | 64 | <10 | 60 |
| N443738 | | 72 | <10 | 65 |
| N443739 | | 59 | <10 | 45 |
| N443740 | | 54 | <10 | 43 |
| N443741 | | 62 | <10 | 59 |
| N443742 | | 81 | <10 | 82 |
| N443743 | | 59 | <10 | 55 |
| N443744 | | 48 | <10 | 40 |
| N443745 | | 58 | <10 | 55 |
| N443746 | | 66 | <10 | 56 |
| N443747 | | 50 | <10 | 46 |
| N443748 | | 171 | <10 | 201 |
| N443749 | | 92 | <10 | 64 |
| N443750 | | 76 | <10 | 47 |
| N443751 | | 64 | <10 | 37 |
| N443752 | | 56 | <10 | 48 |
| N443753 | | 53 | <10 | 65 |
| L179351 | | 190 | 10 | 77 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L179352 | | <0.5 | 6.16 | 5 | 110 | 0.7 | <2 | 4.38 | <0.5 | 30 | 302 | 35 | 4.91 | 20 | 0.38 | 20 |
| L179353 | | 0.7 | 7.65 | 8 | 2360 | 1.3 | <2 | 1.22 | <0.5 | 13 | 46 | 14 | 2.19 | 20 | 1.06 | 50 |
| L179354 | | <0.5 | 4.69 | 8 | 320 | 1.1 | <2 | 2.30 | <0.5 | 24 | 53 | 165 | 3.79 | 10 | 1.05 | 50 |
| L179355 | | <0.5 | 7.50 | 9 | 50 | <0.5 | <2 | 6.38 | <0.5 | 39 | 211 | 75 | 7.70 | 20 | 0.37 | <10 |
| L179356 | | <0.5 | 5.44 | 5 | 30 | <0.5 | <2 | 3.18 | <0.5 | 139 | 2570 | 43 | 8.94 | 10 | 0.11 | <10 |
| L179357 | | <0.5 | 7.17 | <5 | 130 | 0.7 | <2 | 4.85 | <0.5 | 39 | 322 | 36 | 7.10 | 20 | 0.64 | <10 |
| L179358 | | <0.5 | 3.29 | <5 | 70 | <0.5 | <2 | 7.87 | 0.7 | 78 | 1165 | 199 | 9.25 | 10 | 0.16 | <10 |
| L179359 | | <0.5 | 6.36 | <5 | 10 | <0.5 | <2 | 4.71 | 0.6 | 66 | 827 | 98 | 8.55 | 10 | 0.06 | <10 |
| L179360 | | <0.5 | 8.09 | 32 | 250 | 0.8 | <2 | 3.13 | 0.5 | 56 | 15 | 175 | 8.08 | 20 | 0.95 | <10 |
| L179361 | | <0.5 | 5.23 | <5 | 20 | <0.5 | 5 | 4.78 | 0.7 | 77 | 970 | 70 | 8.35 | 10 | 0.12 | <10 |
| L179362 | | <0.5 | 7.29 | <5 | 620 | 1.3 | <2 | 2.42 | 0.7 | 55 | 13 | 219 | 10.20 | 20 | 2.65 | 20 |
| L179363 | | <0.5 | 7.82 | <5 | 390 | 1.1 | <2 | 3.08 | <0.5 | 43 | 228 | 69 | 8.13 | 20 | 1.30 | <10 |
| L179364 | | <0.5 | 6.31 | 5 | 400 | 1.5 | <2 | 5.56 | 0.5 | 45 | 334 | 69 | 7.19 | 20 | 1.31 | 30 |
| L179365 | | <0.5 | 6.25 | <5 | 70 | <0.5 | <2 | 5.79 | <0.5 | 42 | 349 | 89 | 5.65 | 10 | 0.82 | 20 |
| L179366 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179367 | | <0.5 | 7.93 | 5 | 180 | <0.5 | <2 | 4.81 | 0.8 | 56 | 101 | 88 | 7.70 | 20 | 0.59 | <10 |
| L179368 | | <0.5 | 7.49 | <5 | 80 | <0.5 | <2 | 4.52 | <0.5 | 39 | 177 | 76 | 7.59 | 20 | 0.71 | <10 |
| L179369 | | <0.5 | 7.74 | <5 | 160 | <0.5 | <2 | 6.00 | <0.5 | 50 | 239 | 88 | 8.07 | 20 | 0.56 | <10 |
| L179370 | | <0.5 | 5.76 | 10 | 1110 | 2.0 | <2 | 5.37 | 0.5 | 33 | 265 | 102 | 5.48 | 20 | 2.55 | 30 |
| L179371 | | <0.5 | 7.33 | <5 | 160 | 0.6 | <2 | 2.17 | <0.5 | 31 | 161 | 30 | 5.27 | 20 | 0.42 | 10 |
| L179372 | | <0.5 | 4.87 | 9 | 120 | <0.5 | <2 | 8.05 | 0.7 | 22 | 25 | 18 | 8.16 | 10 | 0.34 | <10 |
| L179373 | | <0.5 | 7.99 | <5 | 290 | 0.7 | <2 | 2.61 | <0.5 | 14 | 66 | 49 | 3.59 | 20 | 0.98 | 10 |
| L179374 | | <0.5 | 8.12 | 24 | 940 | 1.5 | <2 | 1.44 | <0.5 | 15 | 174 | 37 | 2.65 | 20 | 2.25 | 30 |
| L179375 | | <0.5 | 7.67 | 46 | 790 | 1.7 | <2 | 0.83 | <0.5 | 16 | 160 | 34 | 2.72 | 20 | 2.04 | 30 |
| L179376 | | <0.5 | 7.77 | 11 | 20 | <0.5 | <2 | 5.17 | 0.6 | 47 | 130 | 14 | 7.91 | 20 | 0.05 | <10 |
| L179377 | | <0.5 | 7.80 | 12 | 20 | 0.5 | <2 | 5.10 | 0.5 | 44 | 139 | 79 | 8.11 | 20 | 0.01 | <10 |
| L179378 | | <0.5 | 8.52 | 24 | 20 | <0.5 | <2 | 4.04 | <0.5 | 37 | 134 | 19 | 6.91 | 20 | 0.01 | <10 |
| L179379 | | <0.5 | 7.28 | 7 | 20 | <0.5 | <2 | 4.49 | 0.5 | 41 | 123 | 10 | 7.08 | 20 | 0.01 | <10 |
| L179521 | | <0.5 | 7.22 | 5 | 760 | 1.7 | <2 | 3.11 | <0.5 | 31 | 161 | 41 | 6.11 | 20 | 0.99 | 30 |
| L179522 | | <0.5 | 7.11 | 8 | 550 | 1.6 | <2 | 2.42 | <0.5 | 21 | 77 | 45 | 5.42 | 20 | 0.96 | 20 |
| L179523 | | <0.5 | 5.99 | <5 | 120 | 0.7 | 7 | 4.88 | <0.5 | 43 | 9 | 6 | 13.80 | 20 | 0.35 | 10 |
| L179524 | | <0.5 | 6.44 | 20 | 690 | 1.5 | <2 | 3.82 | <0.5 | 28 | 269 | 44 | 5.13 | 20 | 1.89 | 20 |
| L179525 | | <0.5 | 7.82 | 33 | 930 | 1.6 | <2 | 0.64 | <0.5 | 20 | 231 | 41 | 3.88 | 20 | 2.23 | 30 |
| L179526 | | <0.5 | 7.51 | <5 | 1300 | 1.6 | <2 | 3.85 | <0.5 | 25 | 150 | 50 | 5.57 | 20 | 2.77 | 30 |
| L179527 | | <0.5 | 6.57 | <5 | 190 | 0.5 | <2 | 4.94 | <0.5 | 12 | 9 | 16 | 4.41 | 20 | 0.55 | 10 |
| L179528 | | <0.5 | 7.47 | <5 | 1000 | 2.1 | 3 | 3.00 | <0.5 | 17 | 70 | 57 | 5.12 | 20 | 2.47 | 30 |
| I272679 | | <0.5 | 7.26 | 16 | 1850 | 1.5 | 2 | 4.93 | <0.5 | 29 | 96 | 19 | 6.04 | 20 | 3.01 | 30 |
| I272680 | | <0.5 | 9.10 | 7 | 500 | 0.9 | <2 | 2.48 | <0.5 | 14 | 13 | 19 | 4.85 | 20 | 1.28 | 10 |
| L174301 | | <0.5 | 7.75 | 15 | 100 | <0.5 | <2 | 7.38 | <0.5 | 39 | 187 | 101 | 8.50 | 20 | 0.16 | <10 |
| L174302 | | <0.5 | 6.00 | <5 | 240 | 1.8 | <2 | 1.31 | <0.5 | 4 | 7 | 13 | 4.17 | 20 | 1.23 | 20 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L179352 | | 3.46 | 1000 | 2 | 4.12 | 150 | 780 | 5 | 0.20 | <5 | 19 | 380 | <20 | 0.15 | <10 | <10 |
| L179353 | | 0.46 | 395 | 5 | 5.87 | 27 | 850 | 34 | 1.01 | <5 | 2 | 397 | <20 | 0.16 | <10 | <10 |
| L179354 | | 3.13 | 694 | <1 | 2.64 | 96 | 2650 | 8 | 0.27 | <5 | 12 | 305 | <20 | 0.13 | <10 | <10 |
| L179355 | | 4.75 | 1320 | <1 | 2.15 | 73 | 380 | <2 | 0.01 | <5 | 39 | 147 | <20 | 0.45 | <10 | <10 |
| L179356 | | 5.41 | 2320 | <1 | 0.46 | 2360 | 110 | <2 | 0.20 | <5 | 34 | 55 | <20 | 0.27 | <10 | <10 |
| L179357 | | 4.84 | 1295 | <1 | 3.22 | 81 | 420 | <2 | 0.05 | <5 | 39 | 382 | <20 | 0.48 | <10 | <10 |
| L179358 | | 9.52 | 1660 | <1 | 1.01 | 364 | 230 | <2 | 0.04 | <5 | 47 | 82 | <20 | 0.43 | <10 | <10 |
| L179359 | | 7.02 | 1220 | <1 | 3.45 | 396 | 220 | <2 | 0.24 | <5 | 39 | 112 | <20 | 0.40 | <10 | <10 |
| L179360 | | 2.69 | 1445 | <1 | 2.47 | 56 | 590 | 3 | 1.03 | <5 | 59 | 188 | <20 | 1.10 | <10 | <10 |
| L179361 | | 9.39 | 1425 | <1 | 1.12 | 449 | 190 | <2 | 0.01 | <5 | 34 | 88 | <20 | 0.33 | <10 | <10 |
| L179362 | | 2.62 | 1565 | <1 | 2.40 | 57 | 1000 | 3 | 0.20 | <5 | 27 | 422 | <20 | 0.93 | <10 | <10 |
| L179363 | | 5.12 | 1320 | <1 | 3.39 | 84 | 700 | <2 | <0.01 | <5 | 37 | 393 | <20 | 0.56 | <10 | <10 |
| L179364 | | 5.64 | 1500 | <1 | 2.72 | 103 | 2730 | <2 | 0.16 | <5 | 26 | 267 | <20 | 0.51 | <10 | <10 |
| L179365 | | 5.87 | 1015 | <1 | 3.62 | 236 | 1100 | <2 | 0.40 | <5 | 19 | 425 | <20 | 0.43 | <10 | <10 |
| L179366 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L179367 | | 3.62 | 1185 | <1 | 2.45 | 110 | 510 | 4 | 0.22 | <5 | 48 | 441 | <20 | 0.76 | <10 | <10 |
| L179368 | | 4.22 | 1260 | <1 | 3.55 | 59 | 400 | <2 | 0.05 | <5 | 39 | 312 | <20 | 0.45 | <10 | <10 |
| L179369 | | 4.66 | 1490 | <1 | 2.87 | 115 | 310 | <2 | 0.07 | <5 | 40 | 460 | <20 | 0.46 | <10 | <10 |
| L179370 | | 3.91 | 1175 | <1 | 2.85 | 70 | 2640 | 15 | 0.21 | <5 | 24 | 552 | <20 | 0.22 | <10 | <10 |
| L179371 | | 4.10 | 576 | <1 | 2.59 | 106 | 640 | <2 | <0.01 | <5 | 20 | 202 | <20 | 0.23 | <10 | <10 |
| L179372 | | 2.53 | 3450 | 11 | 1.38 | 29 | 510 | <2 | 0.03 | <5 | 11 | 162 | <20 | 0.18 | <10 | <10 |
| L179373 | | 0.46 | 731 | <1 | 2.68 | 27 | 890 | 2 | <0.01 | <5 | 14 | 177 | <20 | 0.33 | <10 | <10 |
| L179374 | | 0.74 | 367 | <1 | 2.24 | 55 | 990 | 14 | 0.11 | <5 | 9 | 477 | <20 | 0.17 | <10 | <10 |
| L179375 | | 0.71 | 418 | <1 | 2.22 | 54 | 770 | 19 | 0.08 | <5 | 9 | 411 | <20 | 0.12 | <10 | <10 |
| L179376 | | 4.13 | 1525 | <1 | 3.62 | 95 | 460 | <2 | <0.01 | <5 | 30 | 385 | <20 | 0.62 | <10 | <10 |
| L179377 | | 3.30 | 1160 | <1 | 2.40 | 74 | 480 | 2 | 0.01 | <5 | 34 | 276 | <20 | 0.73 | <10 | <10 |
| L179378 | | 3.84 | 761 | <1 | 4.07 | 104 | 500 | 2 | 0.01 | <5 | 31 | 263 | <20 | 0.68 | <10 | <10 |
| L179379 | | 3.50 | 1040 | <1 | 2.39 | 90 | 420 | <2 | <0.01 | <5 | 27 | 119 | <20 | 0.35 | <10 | <10 |
| L179521 | | 2.66 | 1150 | <1 | 3.18 | 115 | 850 | 11 | 0.01 | <5 | 18 | 1100 | <20 | 0.40 | <10 | 10 |
| L179522 | | 2.33 | 1170 | <1 | 2.56 | 58 | 530 | 17 | 0.06 | 6 | 20 | 714 | <20 | 0.36 | <10 | <10 |
| L179523 | | 1.76 | 1960 | <1 | 1.77 | <1 | 860 | <2 | 0.06 | 7 | 48 | 141 | <20 | 1.83 | <10 | <10 |
| L179524 | | 2.54 | 947 | <1 | 2.32 | 99 | 1070 | 2 | 0.26 | 7 | 23 | 466 | <20 | 0.32 | <10 | <10 |
| L179525 | | 0.61 | 529 | 1 | 2.61 | 76 | 890 | 20 | 0.24 | 7 | 13 | 285 | <20 | 0.16 | <10 | <10 |
| L179526 | | 3.30 | 1160 | <1 | 2.16 | 42 | 1640 | 6 | <0.01 | <5 | 23 | 284 | <20 | 0.43 | <10 | <10 |
| L179527 | | 0.68 | 1165 | <1 | 1.97 | 11 | 680 | 2 | <0.01 | <5 | 12 | 196 | <20 | 0.35 | <10 | <10 |
| L179528 | | 0.81 | 1020 | <1 | 2.42 | 21 | 1800 | 10 | <0.01 | <5 | 15 | 373 | <20 | 0.31 | <10 | <10 |
| I272679 | | 3.69 | 1100 | <1 | 2.58 | 46 | 2480 | 10 | <0.01 | 8 | 25 | 1485 | <20 | 0.37 | <10 | <10 |
| I272680 | | 0.93 | 1610 | <1 | 2.85 | 26 | 790 | 4 | <0.01 | <5 | 13 | 255 | <20 | 0.45 | <10 | <10 |
| L174301 | | 2.63 | 1415 | 46 | 2.48 | 97 | 480 | 6 | 0.24 | <5 | 42 | 488 | <20 | 0.88 | <10 | <10 |
| L174302 | | 0.86 | 480 | <1 | 3.20 | 1 | 700 | 4 | 0.01 | <5 | 18 | 213 | <20 | 0.45 | <10 | <10 |

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

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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 SD14042679

| 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 |
|---|---|---|---|---|
| L179352 | | 110 | 10 | 87 |
| L179353 | | 31 | 10 | 13 |
| L179354 | | 70 | 10 | 25 |
| L179355 | | 231 | <10 | 84 |
| L179356 | | 206 | <10 | 132 |
| L179357 | | 224 | <10 | 76 |
| L179358 | | 218 | <10 | 75 |
| L179359 | | 239 | <10 | 88 |
| L179360 | | 508 | 10 | 227 |
| L179361 | | 206 | <10 | 94 |
| L179362 | | 344 | <10 | 108 |
| L179363 | | 255 | <10 | 81 |
| L179364 | | 210 | <10 | 129 |
| L179365 | | 160 | <10 | 71 |
| L179366 | | NSS | NSS | NSS |
| L179367 | | 337 | <10 | 142 |
| L179368 | | 227 | <10 | 76 |
| L179369 | | 245 | <10 | 88 |
| L179370 | | 175 | <10 | 83 |
| L179371 | | 138 | <10 | 119 |
| L179372 | | 73 | <10 | 92 |
| L179373 | | 115 | <10 | 77 |
| L179374 | | 73 | <10 | 32 |
| L179375 | | 66 | <10 | 59 |
| L179376 | | 247 | 10 | 141 |
| L179377 | | 274 | <10 | 86 |
| L179378 | | 236 | <10 | 88 |
| L179379 | | 219 | <10 | 76 |
| L179521 | | 156 | <10 | 114 |
| L179522 | | 147 | <10 | 101 |
| L179523 | | 71 | <10 | 99 |
| L179524 | | 140 | <10 | 84 |
| L179525 | | 91 | <10 | 100 |
| L179526 | | 180 | <10 | 87 |
| L179527 | | 106 | <10 | 70 |
| L179528 | | 151 | <10 | 93 |
| I272679 | | 227 | <10 | 91 |
| I272680 | | 128 | <10 | 105 |
| L174301 | | 372 | <10 | 78 |
| L174302 | | 46 | <10 | 90 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174303 | | <0.5 | 6.94 | 15 | 200 | <0.5 | 2 | 6.35 | <0.5 | 41 | 117 | 61 | 11.25 | 20 | 0.49 | <10 |
| L174304 | | <0.5 | 7.08 | 6 | 2090 | 2.1 | <2 | 2.45 | <0.5 | 9 | 45 | 18 | 2.74 | 20 | 1.97 | 10 |
| L174305 | | <0.5 | 7.12 | 7 | 40 | <0.5 | 2 | 8.40 | <0.5 | 41 | 190 | 100 | 8.41 | 20 | 0.07 | <10 |
| L174306 | | <0.5 | 6.99 | 10 | 10 | <0.5 | <2 | 11.55 | <0.5 | 38 | 187 | 114 | 7.71 | 20 | 0.02 | <10 |
| L174307 | | <0.5 | 6.60 | 9 | 70 | <0.5 | <2 | 9.88 | <0.5 | 29 | 34 | 93 | 8.83 | 20 | 0.13 | <10 |
| L174308 | | <0.5 | 7.36 | 6 | 2030 | 2.9 | <2 | 1.68 | <0.5 | 5 | 36 | 5 | 2.27 | 20 | 2.50 | 20 |
| L174309 | | <0.5 | 6.84 | 18 | 110 | 0.5 | <2 | 6.87 | <0.5 | 35 | 78 | 93 | 9.22 | 20 | 0.48 | <10 |
| L174310 | | <0.5 | 7.17 | <5 | 2120 | 2.3 | <2 | 1.61 | <0.5 | 4 | 23 | 34 | 1.78 | 20 | 1.58 | 20 |
| L174311 | | <0.5 | 6.71 | 9 | 260 | 1.6 | <2 | 6.07 | <0.5 | 40 | 174 | 128 | 8.48 | 20 | 0.62 | <10 |
| L174312 | | <0.5 | 6.63 | 9 | 160 | <0.5 | <2 | 7.04 | <0.5 | 42 | 195 | 96 | 8.88 | 20 | 0.38 | <10 |
| L174313 | | <0.5 | 7.37 | 8 | 3460 | 2.8 | <2 | 2.48 | <0.5 | 6 | 47 | 23 | 2.51 | 20 | 3.02 | 20 |
| L174314 | | <0.5 | 6.69 | 13 | 90 | <0.5 | 10 | 7.01 | <0.5 | 34 | 73 | 47 | 9.46 | 20 | 0.19 | <10 |
| L174315 | | <0.5 | 7.29 | 10 | 2980 | 2.8 | <2 | 1.18 | <0.5 | 4 | 37 | 6 | 1.93 | 20 | 2.69 | 10 |
| L174316 | | <0.5 | 7.37 | 6 | 2900 | 2.6 | <2 | 1.21 | <0.5 | 5 | 32 | 6 | 2.27 | 20 | 2.52 | 20 |
| L174317 | | <0.5 | 7.54 | 19 | 30 | <0.5 | <2 | 6.26 | <0.5 | 46 | 246 | 140 | 8.20 | 20 | 0.05 | <10 |
| L174318 | | <0.5 | 6.16 | 9 | 50 | 0.9 | <2 | 8.95 | <0.5 | 19 | 183 | 34 | 6.20 | 10 | 0.03 | <10 |
| L174319 | | <0.5 | 8.11 | <5 | 210 | 0.5 | <2 | 4.17 | <0.5 | 13 | 25 | 33 | 3.47 | 20 | 1.08 | 10 |
| L174320 | | <0.5 | 7.12 | 10 | 2610 | 2.2 | <2 | 1.45 | <0.5 | 9 | 43 | 8 | 2.38 | 20 | 2.67 | 20 |
| L174321 | | <0.5 | 7.22 | <5 | 450 | 2.0 | <2 | 2.42 | <0.5 | 3 | 40 | <1 | 1.75 | 20 | 1.82 | 20 |
| L174322 | | <0.5 | 7.02 | <5 | 2300 | 1.7 | <2 | 1.29 | <0.5 | 2 | 14 | 2 | 1.38 | 20 | 1.96 | 10 |
| L174323 | | <0.5 | 6.41 | 9 | 240 | 0.9 | <2 | 6.33 | <0.5 | 34 | 76 | 107 | 8.02 | 20 | 1.14 | <10 |
| L174324 | | <0.5 | 7.00 | <5 | 2350 | 2.5 | <2 | 2.02 | <0.5 | 2 | 24 | 6 | 1.67 | 20 | 1.39 | 10 |
| L174325 | | <0.5 | 7.39 | <5 | 2490 | 2.5 | <2 | 1.42 | <0.5 | 6 | 54 | 12 | 2.38 | 20 | 2.58 | 20 |
| L174326 | | <0.5 | 6.47 | <5 | 3940 | 2.2 | <2 | 1.99 | <0.5 | 6 | 37 | 2 | 2.27 | 20 | 2.57 | 20 |
| L174327 | | <0.5 | 6.82 | 5 | 230 | <0.5 | <2 | 4.74 | <0.5 | 30 | 421 | 96 | 5.60 | 10 | 1.70 | <10 |
| L174328 | | <0.5 | 6.87 | <5 | 6280 | 2.3 | <2 | 1.47 | <0.5 | 6 | 29 | 11 | 2.42 | 20 | 1.93 | 10 |
| L174329 | | <0.5 | 6.48 | <5 | 80 | <0.5 | <2 | 4.82 | <0.5 | 42 | 110 | 92 | 7.73 | 20 | 0.10 | <10 |
| L174330 | | <0.5 | 2.41 | <5 | 30 | <0.5 | <2 | 7.36 | <0.5 | 16 | 71 | 28 | 3.79 | 10 | 0.05 | <10 |
| L174331 | | <0.5 | 5.60 | <5 | 50 | <0.5 | <2 | 2.12 | <0.5 | 32 | 94 | 94 | 7.08 | 10 | 0.07 | <10 |
| L174332 | | <0.5 | 6.96 | <5 | 530 | 2.7 | <2 | 1.18 | <0.5 | 4 | 41 | 7 | 1.92 | 20 | 2.28 | 20 |
| L174333 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174334 | | <0.5 | 8.38 | <5 | 20 | <0.5 | 4 | 1.06 | <0.5 | 22 | 17 | 632 | 6.33 | 30 | 0.09 | <10 |
| L174335 | | <0.5 | 6.67 | 5 | 30 | <0.5 | <2 | 5.29 | <0.5 | 44 | 107 | 105 | 10.25 | 20 | 0.06 | <10 |
| L174336 | | <0.5 | 6.89 | <5 | 20 | <0.5 | <2 | 4.32 | <0.5 | 33 | 101 | 77 | 8.28 | 20 | 0.05 | 10 |
| L174337 | | <0.5 | 3.31 | <5 | 20 | <0.5 | <2 | 3.04 | <0.5 | 20 | 101 | 45 | 4.71 | 10 | 0.05 | <10 |
| L174338 | | <0.5 | 6.90 | 5 | 70 | <0.5 | 2 | 5.99 | <0.5 | 49 | 141 | 106 | 8.44 | 20 | 0.09 | <10 |
| L174339 | | <0.5 | 6.60 | 13 | 20 | <0.5 | <2 | 4.72 | <0.5 | 41 | 123 | 92 | 9.61 | 20 | 0.06 | <10 |
| L174340 | | <0.5 | 7.15 | 5 | 40 | <0.5 | 5 | 5.46 | <0.5 | 41 | 196 | 141 | 7.00 | 10 | 0.03 | <10 |
| L174341 | | <0.5 | 6.82 | 9 | 20 | <0.5 | <2 | 3.94 | <0.5 | 34 | 50 | 59 | 9.96 | 20 | 0.05 | 10 |
| L174342 | | <0.5 | 6.52 | 5 | 90 | <0.5 | <2 | 4.91 | <0.5 | 42 | 31 | 75 | 11.90 | 20 | 0.12 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174303 | | 3.08 | 1500 | <1 | 2.58 | 78 | 790 | 5 | 0.25 | 5 | 42 | 474 | <20 | 1.18 | <10 | <10 |
| L174304 | | 0.95 | 463 | <1 | 3.78 | 25 | 540 | 20 | 0.04 | <5 | 8 | 668 | <20 | 0.23 | <10 | <10 |
| L174305 | | 4.32 | 1390 | <1 | 2.16 | 110 | 350 | <2 | 0.10 | 6 | 37 | 250 | <20 | 0.66 | <10 | <10 |
| L174306 | | 1.95 | 1070 | <1 | 0.86 | 98 | 310 | <2 | 0.09 | <5 | 40 | 237 | <20 | 0.61 | 10 | <10 |
| L174307 | | 3.15 | 1755 | <1 | 1.85 | 32 | 450 | <2 | 0.08 | <5 | 37 | 112 | <20 | 0.82 | 10 | <10 |
| L174308 | | 0.76 | 339 | <1 | 3.58 | 18 | 590 | 11 | 0.01 | <5 | 6 | 1015 | <20 | 0.19 | <10 | <10 |
| L174309 | | 2.61 | 1360 | <1 | 2.57 | 58 | 530 | 9 | 0.03 | 7 | 41 | 478 | <20 | 0.98 | <10 | <10 |
| L174310 | | 0.53 | 316 | <1 | 4.60 | 11 | 520 | 15 | <0.01 | <5 | 4 | 1115 | <20 | 0.15 | <10 | <10 |
| L174311 | | 3.85 | 1330 | 2 | 1.87 | 101 | 440 | 4 | 0.07 | <5 | 36 | 303 | <20 | 0.77 | <10 | <10 |
| L174312 | | 4.24 | 1450 | 2 | 2.08 | 110 | 350 | 4 | 0.45 | <5 | 36 | 571 | <20 | 0.64 | <10 | <10 |
| L174313 | | 0.82 | 454 | <1 | 3.40 | 20 | 690 | 14 | 0.04 | <5 | 6 | 1465 | <20 | 0.19 | <10 | <10 |
| L174314 | | 2.65 | 1545 | <1 | 2.88 | 52 | 560 | 5 | 0.03 | 7 | 41 | 463 | <20 | 0.97 | 10 | <10 |
| L174315 | | 0.61 | 281 | <1 | 4.23 | 12 | 540 | 10 | 0.01 | <5 | 4 | 1400 | <20 | 0.15 | <10 | <10 |
| L174316 | | 0.51 | 347 | <1 | 3.76 | 15 | 470 | 19 | 0.06 | <5 | 6 | 593 | <20 | 0.15 | <10 | <10 |
| L174317 | | 5.50 | 1265 | <1 | 1.89 | 165 | 200 | 3 | 0.08 | 5 | 37 | 309 | <20 | 0.49 | <10 | <10 |
| L174318 | | 2.85 | 2230 | <1 | 0.31 | 88 | 160 | <2 | 0.02 | <5 | 27 | 625 | <20 | 0.38 | <10 | <10 |
| L174319 | | 1.67 | 393 | <1 | 2.57 | 35 | 550 | 5 | <0.01 | <5 | 9 | 287 | <20 | 0.33 | <10 | <10 |
| L174320 | | 0.76 | 383 | <1 | 4.03 | 20 | 670 | 15 | 0.03 | <5 | 6 | 1365 | <20 | 0.17 | <10 | <10 |
| L174321 | | 0.41 | 417 | <1 | 4.06 | 16 | 770 | 9 | 0.01 | <5 | 6 | 343 | <20 | 0.16 | <10 | <10 |
| L174322 | | 0.18 | 328 | <1 | 4.47 | 6 | 400 | 49 | 0.05 | 7 | 3 | 816 | <20 | 0.11 | <10 | <10 |
| L174323 | | 2.50 | 999 | <1 | 0.87 | 39 | 310 | 4 | 0.09 | 9 | 37 | 299 | <20 | 0.55 | <10 | <10 |
| L174324 | | 0.31 | 349 | <1 | 4.41 | 11 | 530 | 17 | 0.05 | 5 | 4 | 1100 | <20 | 0.14 | <10 | <10 |
| L174325 | | 0.53 | 413 | <1 | 4.13 | 21 | 700 | 8 | 0.12 | 6 | 7 | 761 | <20 | 0.11 | <10 | <10 |
| L174326 | | 0.58 | 438 | <1 | 2.66 | 19 | 690 | 9 | 0.12 | <5 | 6 | 814 | <20 | 0.10 | <10 | <10 |
| L174327 | | 3.51 | 899 | 1 | 1.49 | 78 | 180 | <2 | <0.01 | <5 | 30 | 118 | <20 | 0.33 | <10 | <10 |
| L174328 | | 0.43 | 363 | <1 | 2.92 | 14 | 470 | 8 | 0.24 | <5 | 6 | 776 | <20 | 0.13 | <10 | <10 |
| L174329 | | 4.13 | 1355 | <1 | 2.66 | 56 | 270 | 3 | 0.08 | 5 | 39 | 147 | <20 | 0.60 | <10 | <10 |
| L174330 | | 1.38 | 788 | <1 | 0.42 | 36 | 140 | 4 | 0.03 | <5 | 12 | 12 | <20 | 0.20 | <10 | <10 |
| L174331 | | 3.27 | 1120 | <1 | 1.53 | 40 | 300 | <2 | 0.04 | <5 | 32 | 52 | <20 | 0.49 | <10 | <10 |
| L174332 | | 0.44 | 265 | <1 | 2.44 | 16 | 630 | 5 | 0.02 | 6 | 6 | 162 | <20 | 0.14 | <10 | <10 |
| L174333 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174334 | | 1.91 | 419 | <1 | 4.76 | 31 | 420 | <2 | 0.10 | <5 | 33 | 30 | <20 | 0.69 | <10 | <10 |
| L174335 | | 3.11 | 1585 | 1 | 1.61 | 79 | 810 | 4 | 0.17 | 9 | 41 | 149 | <20 | 1.14 | <10 | <10 |
| L174336 | | 3.11 | 1335 | <1 | 1.78 | 62 | 520 | <2 | 0.06 | <5 | 40 | 94 | <20 | 0.85 | <10 | <10 |
| L174337 | | 2.21 | 864 | <1 | 0.45 | 38 | 130 | 3 | 0.06 | <5 | 15 | 43 | <20 | 0.26 | <10 | <10 |
| L174338 | | 3.15 | 1610 | <1 | 2.15 | 89 | 770 | 3 | 0.17 | <5 | 42 | 134 | <20 | 0.96 | <10 | <10 |
| L174339 | | 3.58 | 1630 | <1 | 1.64 | 75 | 660 | <2 | 0.17 | 8 | 38 | 25 | <20 | 1.00 | <10 | <10 |
| L174340 | | 3.75 | 1345 | <1 | 2.75 | 124 | 260 | 5 | 0.11 | 7 | 36 | 162 | <20 | 0.57 | <10 | <10 |
| L174341 | | 3.67 | 1385 | <1 | 1.67 | 42 | 790 | 4 | 0.11 | <5 | 41 | 82 | <20 | 1.18 | 10 | <10 |
| L174342 | | 2.41 | 1610 | <1 | 2.41 | 31 | 630 | 3 | 0.09 | <5 | 45 | 112 | <20 | 1.26 | <10 | <10 |

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

ALS Canada Ltd.
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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 SD14042679

| 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 |
|---|---|---|---|---|
| L174303 | | 434 | <10 | 119 |
| L174304 | | 60 | <10 | 65 |
| L174305 | | 320 | <10 | 84 |
| L174306 | | 316 | <10 | 49 |
| L174307 | | 374 | <10 | 84 |
| L174308 | | 49 | <10 | 58 |
| L174309 | | 420 | <10 | 79 |
| L174310 | | 32 | <10 | 37 |
| L174311 | | 338 | <10 | 131 |
| L174312 | | 310 | <10 | 86 |
| L174313 | | 48 | <10 | 43 |
| L174314 | | 410 | <10 | 83 |
| L174315 | | 35 | <10 | 48 |
| L174316 | | 48 | <10 | 57 |
| L174317 | | 282 | <10 | 77 |
| L174318 | | 243 | <10 | 56 |
| L174319 | | 98 | <10 | 27 |
| L174320 | | 47 | <10 | 58 |
| L174321 | | 50 | <10 | 47 |
| L174322 | | 20 | <10 | 55 |
| L174323 | | 293 | <10 | 97 |
| L174324 | | 34 | <10 | 45 |
| L174325 | | 52 | <10 | 53 |
| L174326 | | 42 | <10 | 56 |
| L174327 | | 232 | <10 | 95 |
| L174328 | | 50 | <10 | 55 |
| L174329 | | 337 | <10 | 90 |
| L174330 | | 106 | <10 | 54 |
| L174331 | | 247 | <10 | 102 |
| L174332 | | 47 | <10 | 42 |
| L174333 | | NSS | NSS | NSS |
| L174334 | | 418 | <10 | 61 |
| L174335 | | 419 | <10 | 110 |
| L174336 | | 385 | <10 | 85 |
| L174337 | | 136 | <10 | 70 |
| L174338 | | 375 | <10 | 93 |
| L174339 | | 375 | <10 | 118 |
| L174340 | | 301 | <10 | 80 |
| L174341 | | 396 | <10 | 118 |
| L174342 | | 504 | <10 | 98 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
| L174343 | | <0.5 | 6.92 | <5 | 20 | <0.5 | <2 | 5.16 | <0.5 | 40 | 228 | 132 | 7.45 | 10 | 0.04 | <10 |
| L174344 | | <0.5 | 6.01 | <5 | 1250 | 1.7 | <2 | 1.65 | <0.5 | 11 | 89 | 59 | 2.77 | 20 | 3.22 | 30 |
| L174345 | | <0.5 | 7.15 | <5 | 40 | <0.5 | <2 | 5.28 | <0.5 | 37 | 71 | 85 | 8.07 | 20 | 0.07 | 10 |
| L174346 | | <0.5 | 7.32 | <5 | 30 | <0.5 | <2 | 6.53 | <0.5 | 38 | 225 | 84 | 7.32 | 20 | 0.05 | <10 |
| L174347 | | <0.5 | 6.90 | <5 | 70 | <0.5 | 2 | 5.46 | <0.5 | 45 | 114 | 101 | 8.50 | 20 | 0.21 | <10 |
| L174348 | | <0.5 | 7.09 | 5 | 150 | <0.5 | 2 | 4.34 | <0.5 | 38 | 117 | 40 | 6.22 | 20 | 0.60 | 10 |
| L174349 | | <0.5 | 6.53 | 5 | 50 | <0.5 | <2 | 6.02 | <0.5 | 33 | 114 | 52 | 8.78 | 20 | 0.22 | <10 |
| L174350 | | <0.5 | 6.86 | <5 | 30 | <0.5 | <2 | 5.83 | <0.5 | 41 | 113 | 62 | 9.54 | 20 | 0.07 | <10 |
| L174619 | | <0.5 | 6.32 | <5 | 60 | 0.5 | <2 | 4.93 | <0.5 | 31 | 112 | 3 | 7.23 | 20 | 0.45 | 10 |
| L174620 | | <0.5 | 6.44 | 7 | 50 | <0.5 | 2 | 4.18 | <0.5 | 37 | 154 | 20 | 7.00 | 20 | 0.10 | <10 |
| L174651 | | <0.5 | 6.70 | <5 | 60 | <0.5 | 4 | 4.43 | <0.5 | 18 | 67 | 23 | 4.96 | 10 | 0.17 | 10 |
| L174652 | | <0.5 | 6.90 | <5 | 60 | <0.5 | <2 | 5.52 | <0.5 | 45 | 126 | 107 | 10.30 | 20 | 0.29 | <10 |
| L174653 | | <0.5 | 6.59 | 5 | 90 | 0.5 | 2 | 7.44 | <0.5 | 42 | 79 | 91 | 10.30 | 20 | 0.21 | <10 |
| L174654 | | <0.5 | 6.50 | <5 | 190 | <0.5 | <2 | 5.10 | <0.5 | 42 | 77 | 89 | 8.37 | 20 | 0.37 | <10 |
| L174655 | | <0.5 | 7.76 | <5 | 210 | 0.9 | <2 | 6.27 | <0.5 | 30 | 77 | 20 | 6.89 | 20 | 0.73 | <10 |
| L174656 | | <0.5 | 6.37 | <5 | 30 | <0.5 | <2 | 7.18 | <0.5 | 42 | 80 | 84 | 8.76 | 20 | 0.05 | <10 |
| L174657 | | <0.5 | 6.75 | <5 | 420 | 1.9 | 3 | 1.69 | <0.5 | 5 | 47 | 3 | 1.74 | 20 | 1.14 | 20 |
| L174658 | | <0.5 | 6.72 | <5 | 100 | <0.5 | <2 | 4.76 | <0.5 | 47 | 114 | 85 | 10.25 | 20 | 0.06 | <10 |
| L174659 | | <0.5 | 6.73 | <5 | 30 | <0.5 | 7 | 6.65 | <0.5 | 49 | 136 | 96 | 10.20 | 20 | 0.07 | <10 |
| L174660 | | <0.5 | 6.71 | <5 | 90 | <0.5 | <2 | 5.20 | <0.5 | 47 | 80 | 102 | 8.86 | 20 | 0.19 | <10 |
| L174661 | | <0.5 | 6.87 | <5 | 40 | <0.5 | 6 | 5.74 | <0.5 | 49 | 89 | 104 | 9.64 | 20 | 0.06 | <10 |
| L174662 | | <0.5 | 7.97 | <5 | 90 | <0.5 | 5 | 4.79 | <0.5 | 35 | 107 | 51 | 8.01 | 20 | 0.19 | <10 |
| L174663 | | <0.5 | 6.87 | 6 | 30 | <0.5 | 2 | 6.62 | <0.5 | 44 | 90 | 60 | 8.67 | 20 | 0.03 | <10 |
| L174664 | | 0.5 | 6.63 | <5 | 10 | 0.9 | 6 | 1.22 | <0.5 | 44 | 83 | 2960 | 7.76 | 20 | 0.03 | <10 |
| L174665 | | <0.5 | 7.06 | <5 | 40 | <0.5 | 2 | 4.90 | <0.5 | 51 | 88 | 106 | 10.50 | 20 | 0.07 | <10 |
| L174666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174667 | | <0.5 | 6.80 | 6 | 30 | <0.5 | 4 | 4.99 | <0.5 | 47 | 85 | 88 | 8.95 | 20 | 0.07 | <10 |
| L174668 | | <0.5 | 6.75 | <5 | 90 | <0.5 | <2 | 6.06 | <0.5 | 45 | 84 | 108 | 10.95 | 20 | 0.14 | <10 |
| L174669 | | <0.5 | 6.59 | 6 | 50 | <0.5 | 3 | 4.77 | <0.5 | 35 | 143 | 68 | 6.64 | 10 | 0.13 | <10 |
| L174670 | | <0.5 | 8.44 | <5 | 40 | <0.5 | 3 | 4.52 | <0.5 | 33 | 88 | 51 | 8.29 | 20 | 0.23 | <10 |
| L174671 | | <0.5 | 8.06 | <5 | 70 | 1.1 | <2 | 1.75 | <0.5 | 40 | 126 | 2 | 6.84 | 20 | 0.37 | 20 |
| L174672 | | <0.5 | 7.12 | <5 | 50 | <0.5 | 3 | 3.53 | <0.5 | 21 | 76 | 40 | 3.76 | 10 | 0.09 | 10 |
| L174673 | | <0.5 | 9.15 | <5 | 230 | 0.5 | <2 | 1.64 | <0.5 | 30 | 65 | 46 | 7.26 | 20 | 1.28 | <10 |
| L174674 | | <0.5 | 7.44 | 11 | 40 | <0.5 | <2 | 5.22 | 0.5 | 36 | 60 | 79 | 6.41 | 20 | 0.07 | 10 |
| L174675 | | <0.5 | 7.12 | 109 | 40 | 0.6 | 4 | 2.85 | 15.9 | 40 | 17 | 87 | 9.09 | 20 | 0.03 | <10 |
| L174676 | | <0.5 | 6.15 | 7 | 30 | <0.5 | <2 | 5.89 | <0.5 | 40 | 122 | 80 | 9.84 | 20 | 0.05 | <10 |
| L174677 | | <0.5 | 6.39 | 12 | 110 | 1.5 | 2 | 5.71 | <0.5 | 42 | 42 | 66 | 11.65 | 20 | 0.11 | <10 |
| L174678 | | <0.5 | 6.65 | 7 | 40 | <0.5 | <2 | 4.36 | <0.5 | 20 | 30 | 90 | 7.74 | 10 | 0.23 | <10 |
| L174679 | | <0.5 | 6.71 | 12 | 30 | <0.5 | 3 | 5.96 | <0.5 | 38 | 175 | 62 | 8.27 | 20 | 0.48 | <10 |
| L174680 | | <0.5 | 6.12 | 16 | 20 | <0.5 | <2 | 10.05 | <0.5 | 16 | 47 | 38 | 7.13 | 20 | 0.05 | 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 SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174343 | | 4.25 | 1415 | 1 | 1.54 | 84 | 180 | <2 | 0.07 | 6 | 40 | 166 | <20 | 0.47 | <10 | <10 |
| L174344 | | 1.03 | 444 | 1 | 2.58 | 46 | 940 | 10 | 0.11 | <5 | 8 | 395 | <20 | 0.22 | <10 | <10 |
| L174345 | | 3.17 | 1220 | <1 | 2.10 | 51 | 370 | 5 | 0.02 | 6 | 42 | 151 | <20 | 0.78 | <10 | <10 |
| L174346 | | 4.26 | 1470 | 1 | 2.41 | 98 | 220 | <2 | 0.02 | <5 | 37 | 103 | <20 | 0.44 | 10 | <10 |
| L174347 | | 3.17 | 1705 | 1 | 2.14 | 69 | 1170 | 4 | 0.09 | <5 | 47 | 138 | <20 | 1.09 | <10 | <10 |
| L174348 | | 4.24 | 965 | 1 | 2.52 | 180 | 570 | 3 | <0.01 | <5 | 18 | 146 | <20 | 0.50 | <10 | <10 |
| L174349 | | 2.69 | 1340 | <1 | 1.61 | 41 | 1750 | 6 | 0.08 | <5 | 38 | 136 | <20 | 0.81 | <10 | <10 |
| L174350 | | 3.44 | 1580 | <1 | 2.44 | 62 | 1210 | 3 | 0.07 | <5 | 43 | 48 | <20 | 1.07 | <10 | <10 |
| L174619 | | 2.60 | 1420 | <1 | 1.37 | 65 | 400 | <2 | <0.01 | <5 | 33 | 64 | <20 | 0.50 | <10 | <10 |
| L174620 | | 3.64 | 1205 | <1 | 1.89 | 84 | 320 | 2 | <0.01 | 5 | 32 | 68 | <20 | 0.51 | <10 | <10 |
| L174651 | | 1.66 | 1000 | <1 | 2.74 | 58 | 510 | <2 | <0.01 | <5 | 17 | 166 | <20 | 0.40 | <10 | <10 |
| L174652 | | 3.95 | 1655 | <1 | 1.59 | 69 | 1210 | <2 | 0.14 | 7 | 44 | 115 | <20 | 1.11 | <10 | <10 |
| L174653 | | 2.87 | 2030 | <1 | 0.68 | 68 | 1090 | 5 | 0.15 | <5 | 44 | 179 | <20 | 1.06 | <10 | <10 |
| L174654 | | 3.38 | 1805 | <1 | 1.82 | 62 | 1040 | 3 | 0.10 | 5 | 43 | 89 | <20 | 1.04 | <10 | <10 |
| L174655 | | 2.62 | 1330 | <1 | 2.57 | 47 | 900 | 2 | 0.06 | <5 | 31 | 254 | <20 | 0.83 | <10 | <10 |
| L174656 | | 2.56 | 1830 | 1 | 0.90 | 62 | 1030 | <2 | 0.17 | <5 | 44 | 260 | <20 | 1.06 | <10 | <10 |
| L174657 | | 0.81 | 199 | <1 | 3.78 | 24 | 730 | 4 | 0.01 | 7 | 6 | 147 | <20 | 0.14 | <10 | <10 |
| L174658 | | 3.24 | 2570 | 1 | 1.60 | 69 | 1130 | 3 | 0.02 | 6 | 47 | 85 | <20 | 1.08 | <10 | <10 |
| L174659 | | 4.25 | 1585 | <1 | 0.87 | 122 | 1040 | <2 | 0.12 | <5 | 42 | 166 | <20 | 0.98 | <10 | <10 |
| L174660 | | 3.29 | 1830 | 1 | 2.32 | 67 | 1060 | 2 | 0.14 | 5 | 45 | 93 | <20 | 1.10 | 10 | <10 |
| L174661 | | 2.73 | 1855 | <1 | 1.90 | 68 | 1120 | 8 | 0.16 | <5 | 47 | 139 | <20 | 1.09 | <10 | <10 |
| L174662 | | 3.33 | 1210 | <1 | 2.37 | 73 | 950 | <2 | 0.02 | <5 | 29 | 306 | <20 | 0.81 | <10 | <10 |
| L174663 | | 2.57 | 1615 | 1 | 0.98 | 59 | 1040 | 2 | 0.13 | <5 | 48 | 672 | <20 | 1.09 | <10 | <10 |
| L174664 | | 5.67 | 1225 | <1 | 1.76 | 62 | 1060 | 2 | 0.30 | <5 | 41 | 16 | <20 | 1.00 | <10 | <10 |
| L174665 | | 2.87 | 1980 | <1 | 1.34 | 70 | 1040 | <2 | 0.05 | <5 | 45 | 121 | <20 | 1.06 | <10 | <10 |
| L174666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174667 | | 2.34 | 1715 | <1 | 2.40 | 66 | 910 | <2 | 0.17 | <5 | 43 | 21 | <20 | 1.08 | <10 | <10 |
| L174668 | | 3.34 | 1985 | <1 | 1.39 | 71 | 1100 | <2 | 0.07 | <5 | 46 | 185 | <20 | 1.06 | <10 | <10 |
| L174669 | | 2.83 | 1190 | <1 | 3.72 | 65 | 750 | 2 | 0.26 | <5 | 44 | 65 | <20 | 0.92 | <10 | <10 |
| L174670 | | 3.78 | 1075 | <1 | 2.68 | 54 | 1030 | 2 | 0.01 | <5 | 34 | 189 | <20 | 0.90 | <10 | <10 |
| L174671 | | 5.86 | 1030 | <1 | 1.83 | 93 | 550 | 3 | <0.01 | <5 | 22 | 148 | <20 | 0.56 | <10 | <10 |
| L174672 | | 2.22 | 991 | <1 | 2.36 | 54 | 370 | 5 | 0.02 | <5 | 18 | 102 | <20 | 0.38 | <10 | <10 |
| L174673 | | 3.50 | 1395 | <1 | 0.57 | 88 | 470 | <2 | 0.02 | <5 | 23 | 114 | <20 | 0.52 | <10 | <10 |
| L174674 | | 2.16 | 1505 | <1 | 2.33 | 61 | 960 | 19 | 0.02 | <5 | 44 | 49 | <20 | 1.24 | <10 | <10 |
| L174675 | | 2.57 | 1510 | <1 | 2.64 | 32 | 630 | 769 | 0.22 | <5 | 48 | 45 | <20 | 1.32 | <10 | <10 |
| L174676 | | 4.33 | 1625 | <1 | 0.97 | 55 | 1100 | <2 | 0.02 | <5 | 42 | 217 | <20 | 1.01 | <10 | <10 |
| L174677 | | 2.13 | 1705 | <1 | 1.46 | 43 | 540 | 9 | 0.13 | <5 | 42 | 169 | <20 | 1.15 | <10 | <10 |
| L174678 | | 2.17 | 1125 | <1 | 2.94 | 23 | 420 | 4 | 0.07 | <5 | 38 | 61 | <20 | 0.82 | <10 | <10 |
| L174679 | | 3.87 | 1160 | <1 | 1.17 | 104 | 380 | 2 | 0.09 | <5 | 34 | 30 | <20 | 0.68 | <10 | <10 |
| L174680 | | 1.24 | 1355 | 1 | 0.17 | 22 | 440 | 5 | 0.17 | <5 | 32 | 201 | <20 | 0.68 | <10 | <10 |

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

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|
| L174343 | | 292 | <10 | 111 |
| L174344 | | 105 | 10 | 34 |
| L174345 | | 423 | <10 | 80 |
| L174346 | | 249 | <10 | 68 |
| L174347 | | 388 | <10 | 90 |
| L174348 | | 174 | <10 | 81 |
| L174349 | | 170 | <10 | 87 |
| L174350 | | 355 | <10 | 92 |
| L174619 | | 279 | <10 | 65 |
| L174620 | | 262 | <10 | 81 |
| L174651 | | 142 | <10 | 59 |
| L174652 | | 359 | <10 | 106 |
| L174653 | | 376 | <10 | 119 |
| L174654 | | 367 | <10 | 105 |
| L174655 | | 277 | <10 | 49 |
| L174656 | | 373 | <10 | 89 |
| L174657 | | 52 | <10 | 20 |
| L174658 | | 375 | <10 | 122 |
| L174659 | | 333 | <10 | 100 |
| L174660 | | 387 | <10 | 103 |
| L174661 | | 394 | <10 | 137 |
| L174662 | | 252 | <10 | 77 |
| L174663 | | 409 | <10 | 81 |
| L174664 | | 354 | <10 | 100 |
| L174665 | | 392 | <10 | 115 |
| L174666 | | NSS | NSS | NSS |
| L174667 | | 382 | <10 | 98 |
| L174668 | | 388 | <10 | 111 |
| L174669 | | 333 | <10 | 67 |
| L174670 | | 298 | <10 | 56 |
| L174671 | | 215 | <10 | 97 |
| L174672 | | 152 | <10 | 103 |
| L174673 | | 195 | <10 | 94 |
| L174674 | | 396 | <10 | 155 |
| L174675 | | 606 | <10 | 2760 |
| L174676 | | 339 | <10 | 101 |
| L174677 | | 470 | <10 | 145 |
| L174678 | | 395 | <10 | 72 |
| L174679 | | 309 | <10 | 71 |
| L174680 | | 321 | <10 | 46 |

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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 SD14042679

| 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 |
| L174681 | | <0.5 | 7.20 | <5 | 1010 | 2.7 | <2 | 1.78 | <0.5 | 5 | 117 | 4 | 3.50 | 20 | 2.61 | 20 |
| L174682 | | <0.5 | 7.13 | <5 | 2390 | 2.7 | <2 | 1.61 | <0.5 | 7 | 50 | 4 | 2.19 | 20 | 2.39 | 20 |
| L174683 | | <0.5 | 7.89 | <5 | 330 | 0.5 | <2 | 3.39 | <0.5 | 19 | 50 | 43 | 4.38 | 20 | 0.30 | 10 |
| L174684 | | <0.5 | 8.19 | <5 | 260 | 0.5 | <2 | 3.71 | <0.5 | 29 | 93 | 52 | 5.48 | 20 | 1.11 | 10 |
| L174685 | | <0.5 | 7.82 | <5 | 220 | <0.5 | <2 | 2.20 | <0.5 | 20 | 39 | 39 | 4.32 | 20 | 1.79 | 10 |
| L174686 | | <0.5 | 6.99 | <5 | 70 | <0.5 | 5 | 7.27 | <0.5 | 45 | 74 | 136 | 7.77 | 20 | 0.33 | 10 |
| L174687 | | <0.5 | 7.53 | <5 | 320 | 0.5 | 3 | 3.63 | <0.5 | 19 | 34 | 33 | 5.18 | 20 | 0.69 | 10 |
| L174688 | | <0.5 | 6.23 | 5 | 10 | 0.7 | <2 | 6.41 | <0.5 | 23 | 79 | 52 | 5.34 | 10 | 0.03 | <10 |
| L174689 | | <0.5 | 8.35 | <5 | 40 | <0.5 | <2 | 6.61 | <0.5 | 51 | 157 | 136 | 6.79 | 20 | 0.06 | <10 |
| L174690 | | <0.5 | 8.86 | <5 | 50 | <0.5 | <2 | 5.81 | <0.5 | 56 | 172 | 145 | 7.22 | 20 | 0.05 | <10 |
| L174691 | | <0.5 | 7.55 | 13 | 30 | <0.5 | <2 | 7.48 | <0.5 | 40 | 127 | 70 | 4.62 | 20 | 0.07 | <10 |
| L174692 | | <0.5 | 8.34 | <5 | 70 | 1.2 | <2 | 4.09 | <0.5 | 45 | 156 | 74 | 5.91 | 20 | 0.28 | <10 |
| L174693 | | <0.5 | 7.33 | <5 | 20 | <0.5 | 2 | 7.22 | <0.5 | 52 | 144 | 123 | 8.30 | 20 | 0.03 | <10 |
| L174694 | | <0.5 | 7.65 | 6 | 30 | 0.6 | <2 | 6.88 | <0.5 | 19 | 14 | 49 | 4.44 | 20 | 0.10 | 10 |
| L174695 | | <0.5 | 7.49 | 8 | 250 | <0.5 | <2 | 3.13 | <0.5 | 18 | 15 | 41 | 4.94 | 10 | 0.92 | 10 |
| L174696 | | <0.5 | 6.39 | <5 | 20 | <0.5 | 3 | 2.68 | <0.5 | 39 | 104 | 2680 | 6.19 | 10 | 0.03 | <10 |
| L174697 | | <0.5 | 5.94 | 5 | 20 | <0.5 | 2 | 6.40 | 0.5 | 45 | 25 | 101 | 10.35 | 20 | 0.01 | <10 |
| L174698 | | <0.5 | 6.84 | 9 | 330 | 1.3 | 2 | 3.86 | <0.5 | 41 | 61 | 66 | 10.25 | 20 | 0.80 | <10 |
| L174699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174700 | | <0.5 | 7.44 | 10 | 60 | <0.5 | 3 | 7.30 | <0.5 | 43 | 255 | 105 | 7.14 | 20 | 0.13 | <10 |
| L174701 | | <0.5 | 7.73 | 5 | 200 | 1.4 | 2 | 1.50 | <0.5 | 29 | 89 | 28 | 6.72 | 20 | 2.59 | <10 |
| L174702 | | <0.5 | 7.00 | <5 | 2830 | 2.6 | 2 | 1.51 | <0.5 | 7 | 44 | 16 | 2.79 | 20 | 2.61 | 20 |
| L174703 | | <0.5 | 6.15 | <5 | 1340 | 4.2 | <2 | 2.57 | <0.5 | 10 | 106 | 21 | 3.14 | 20 | 2.64 | 10 |
| L174704 | | <0.5 | 7.06 | 17 | 60 | 3.6 | <2 | 11.25 | <0.5 | 42 | 109 | 301 | 12.40 | 20 | 0.06 | <10 |
| L174705 | | <0.5 | 6.87 | 5 | 110 | <0.5 | <2 | 6.21 | <0.5 | 45 | 133 | 79 | 9.54 | 20 | 0.36 | <10 |
| L174706 | | <0.5 | 6.08 | 9 | 70 | <0.5 | 9 | 6.18 | <0.5 | 34 | 39 | 63 | 11.70 | 20 | 0.29 | <10 |
| L174707 | | <0.5 | 6.69 | 12 | 390 | 0.6 | <2 | 5.58 | <0.5 | 44 | 105 | 97 | 10.60 | 20 | 0.91 | <10 |
| L174708 | | <0.5 | 6.58 | 10 | 100 | <0.5 | 4 | 7.43 | <0.5 | 39 | 108 | 28 | 10.50 | 20 | 0.32 | <10 |
| L174709 | | <0.5 | 6.94 | 5 | 2890 | 2.3 | <2 | 2.05 | <0.5 | 9 | 49 | 36 | 2.76 | 20 | 2.27 | 20 |
| L174710 | | <0.5 | 7.13 | <5 | 2800 | 2.9 | 2 | 1.77 | <0.5 | 8 | 41 | 13 | 2.68 | 20 | 2.74 | 20 |
| L174711 | | <0.5 | 7.20 | 5 | 2460 | 2.6 | <2 | 1.33 | <0.5 | 7 | 42 | 9 | 2.65 | 20 | 2.45 | 20 |
| L174712 | | <0.5 | 7.26 | 8 | 2590 | 2.4 | <2 | 1.09 | <0.5 | 7 | 54 | 15 | 2.89 | 20 | 2.58 | 20 |
| L174713 | | <0.5 | 6.13 | 8 | 20 | <0.5 | <2 | 4.04 | <0.5 | 37 | 14 | 106 | 7.77 | 20 | 0.03 | <10 |
| L174714 | | <0.5 | 7.18 | 7 | 3150 | 2.5 | <2 | 0.84 | <0.5 | 5 | 22 | 5 | 1.81 | 20 | 1.10 | 20 |
| L174715 | | <0.5 | 6.76 | 8 | 50 | <0.5 | <2 | 8.38 | <0.5 | 34 | 174 | 87 | 7.02 | 20 | 0.26 | <10 |
| L174716 | | <0.5 | 7.60 | 13 | 50 | <0.5 | 4 | 6.68 | <0.5 | 39 | 184 | 91 | 7.97 | 20 | 0.08 | <10 |
| L174717 | | <0.5 | 6.10 | 7 | 40 | 0.6 | 6 | 6.11 | <0.5 | 39 | 38 | 73 | 11.70 | 20 | 0.01 | <10 |
| L174718 | | <0.5 | 6.45 | 12 | 70 | <0.5 | 4 | 3.82 | <0.5 | 29 | 35 | 94 | 8.62 | 20 | 0.31 | <10 |
| L174719 | | <0.5 | 8.07 | 5 | 630 | 1.3 | <2 | 0.91 | <0.5 | 25 | 21 | 3 | 3.31 | 20 | 2.99 | 10 |
| L174720 | | <0.5 | 7.35 | 15 | 130 | <0.5 | 3 | 3.34 | <0.5 | 41 | 222 | 76 | 7.65 | 20 | 1.17 | <10 |

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

ALS Canada Ltd.
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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174681 | | 1.60 | 354 | <1 | 3.87 | 40 | 950 | 6 | 0.01 | <5 | 10 | 244 | <20 | 0.28 | <10 | <10 |
| L174682 | | 0.64 | 363 | <1 | 3.65 | 24 | 720 | 11 | 0.08 | <5 | 6 | 525 | <20 | 0.13 | <10 | <10 |
| L174683 | | 2.36 | 796 | <1 | 3.79 | 83 | 410 | 3 | 0.01 | <5 | 14 | 151 | <20 | 0.40 | <10 | <10 |
| L174684 | | 2.79 | 702 | <1 | 1.95 | 74 | 400 | <2 | 0.02 | <5 | 20 | 105 | <20 | 0.50 | <10 | <10 |
| L174685 | | 2.32 | 577 | <1 | 2.25 | 87 | 530 | <2 | 0.02 | <5 | 16 | 119 | <20 | 0.43 | <10 | <10 |
| L174686 | | 4.14 | 1370 | <1 | 1.39 | 113 | 310 | 4 | 0.10 | <5 | 35 | 153 | <20 | 0.49 | <10 | <10 |
| L174687 | | 2.63 | 686 | <1 | 1.85 | 81 | 460 | 2 | 0.05 | <5 | 16 | 202 | <20 | 0.40 | <10 | <10 |
| L174688 | | 1.66 | 4220 | <1 | 0.84 | 68 | 120 | <2 | 0.05 | <5 | 19 | 50 | <20 | 0.34 | <10 | <10 |
| L174689 | | 2.17 | 1730 | <1 | 2.18 | 152 | 260 | <2 | 0.07 | <5 | 38 | 147 | <20 | 0.70 | <10 | <10 |
| L174690 | | 2.17 | 1570 | <1 | 2.88 | 166 | 260 | <2 | 0.11 | <5 | 42 | 110 | <20 | 0.74 | <10 | <10 |
| L174691 | | 1.13 | 1120 | 1 | 1.03 | 115 | 260 | <2 | 0.06 | <5 | 27 | 20 | <20 | 0.47 | <10 | <10 |
| L174692 | | 1.91 | 1260 | <1 | 3.45 | 148 | 340 | 7 | 0.09 | <5 | 25 | 137 | <20 | 0.53 | <10 | <10 |
| L174693 | | 4.86 | 1330 | <1 | 1.01 | 159 | 270 | <2 | 0.03 | 6 | 30 | 293 | <20 | 0.62 | <10 | <10 |
| L174694 | | 1.87 | 751 | <1 | 1.23 | 52 | 490 | 5 | <0.01 | <5 | 16 | 208 | <20 | 0.43 | 10 | <10 |
| L174695 | | 2.01 | 751 | 1 | 2.99 | 56 | 510 | <2 | 0.01 | <5 | 17 | 112 | <20 | 0.45 | <10 | <10 |
| L174696 | | 4.10 | 975 | <1 | 2.15 | 108 | 190 | 4 | 0.23 | <5 | 19 | 32 | <20 | 0.45 | <10 | <10 |
| L174697 | | 2.81 | 2690 | <1 | 0.80 | 61 | 1220 | 8 | 0.02 | 5 | 42 | 98 | <20 | 1.27 | <10 | <10 |
| L174698 | | 1.93 | 1495 | <1 | 2.04 | 52 | 540 | 6 | 1.64 | 6 | 46 | 104 | <20 | 1.23 | <10 | <10 |
| L174699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174700 | | 3.65 | 1295 | <1 | 2.08 | 108 | 200 | 5 | 0.12 | <5 | 37 | 152 | <20 | 0.44 | <10 | <10 |
| L174701 | | 3.05 | 742 | <1 | 0.03 | 40 | 200 | <2 | <0.01 | 5 | 43 | 21 | <20 | 0.73 | <10 | <10 |
| L174702 | | 0.90 | 467 | <1 | 3.79 | 18 | 550 | 25 | 0.01 | <5 | 8 | 1390 | <20 | 0.22 | <10 | <10 |
| L174703 | | 1.20 | 505 | <1 | 3.07 | 50 | 650 | 11 | 0.05 | <5 | 9 | 529 | <20 | 0.20 | <10 | <10 |
| L174704 | | 3.04 | 3670 | <1 | 0.39 | 81 | 790 | 12 | 0.22 | 8 | 43 | 322 | <20 | 1.18 | <10 | <10 |
| L174705 | | 3.72 | 1485 | <1 | 2.18 | 75 | 480 | <2 | 0.09 | <5 | 42 | 133 | <20 | 0.78 | <10 | <10 |
| L174706 | | 2.70 | 1635 | <1 | 1.37 | 33 | 1030 | 7 | 0.20 | 5 | 42 | 283 | <20 | 1.34 | <10 | <10 |
| L174707 | | 3.96 | 1410 | <1 | 1.73 | 80 | 710 | 5 | 0.05 | 6 | 40 | 812 | <20 | 1.06 | <10 | <10 |
| L174708 | | 2.91 | 1385 | 26 | 2.11 | 76 | 710 | 3 | 0.01 | <5 | 39 | 464 | <20 | 1.09 | <10 | <10 |
| L174709 | | 0.95 | 448 | <1 | 3.62 | 24 | 530 | 10 | 0.18 | <5 | 8 | 2130 | <20 | 0.18 | 10 | <10 |
| L174710 | | 0.74 | 414 | <1 | 3.16 | 23 | 510 | 27 | 0.16 | 8 | 8 | 622 | <20 | 0.17 | 10 | <10 |
| L174711 | | 0.66 | 388 | <1 | 3.70 | 21 | 440 | 17 | 0.10 | <5 | 7 | 886 | <20 | 0.16 | <10 | <10 |
| L174712 | | 0.77 | 447 | <1 | 3.96 | 27 | 530 | 30 | 0.04 | <5 | 8 | 1065 | <20 | 0.20 | <10 | <10 |
| L174713 | | 2.80 | 907 | <1 | 2.09 | 32 | 380 | 8 | 0.06 | 5 | 35 | 183 | <20 | 0.70 | 10 | <10 |
| L174714 | | 0.32 | 306 | <1 | 4.95 | 12 | 490 | 15 | 0.19 | <5 | 4 | 918 | <20 | 0.14 | <10 | <10 |
| L174715 | | 3.48 | 1195 | <1 | 0.70 | 94 | 190 | <2 | 0.11 | 5 | 33 | 81 | <20 | 0.44 | 10 | <10 |
| L174716 | | 3.15 | 1250 | <1 | 1.66 | 102 | 330 | <2 | 0.04 | <5 | 39 | 142 | <20 | 0.67 | <10 | <10 |
| L174717 | | 3.71 | 1720 | <1 | 0.04 | 49 | 1100 | <2 | 0.44 | <5 | 41 | 115 | <20 | 1.31 | 10 | <10 |
| L174718 | | 2.55 | 1485 | <1 | 1.72 | 31 | 460 | 4 | 0.04 | 6 | 38 | 207 | <20 | 0.83 | <10 | <10 |
| L174719 | | 1.08 | 348 | <1 | 2.59 | 11 | 830 | 5 | 0.53 | <5 | 6 | 105 | <20 | 0.22 | <10 | <10 |
| L174720 | | 3.89 | 1280 | <1 | 1.00 | 100 | 440 | 2 | 0.06 | <5 | 39 | 63 | <20 | 0.69 | <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 SD14042679

| 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 |
|---|---|---|---|---|
| L174681 | | 71 | <10 | 35 |
| L174682 | | 52 | <10 | 45 |
| L174683 | | 138 | <10 | 59 |
| L174684 | | 214 | <10 | 70 |
| L174685 | | 156 | <10 | 66 |
| L174686 | | 247 | <10 | 75 |
| L174687 | | 146 | <10 | 75 |
| L174688 | | 166 | <10 | 90 |
| L174689 | | 314 | <10 | 77 |
| L174690 | | 336 | <10 | 73 |
| L174691 | | 214 | <10 | 60 |
| L174692 | | 250 | <10 | 75 |
| L174693 | | 283 | <10 | 68 |
| L174694 | | 154 | <10 | 72 |
| L174695 | | 157 | <10 | 82 |
| L174696 | | 200 | <10 | 76 |
| L174697 | | 415 | <10 | 223 |
| L174698 | | 507 | <10 | 122 |
| L174699 | | NSS | NSS | NSS |
| L174700 | | 257 | <10 | 69 |
| L174701 | | 357 | <10 | 66 |
| L174702 | | 60 | <10 | 68 |
| L174703 | | 76 | <10 | 53 |
| L174704 | | 445 | <10 | 118 |
| L174705 | | 358 | <10 | 99 |
| L174706 | | 460 | <10 | 115 |
| L174707 | | 414 | <10 | 100 |
| L174708 | | 410 | <10 | 76 |
| L174709 | | 60 | <10 | 59 |
| L174710 | | 58 | <10 | 63 |
| L174711 | | 58 | <10 | 56 |
| L174712 | | 59 | <10 | 73 |
| L174713 | | 343 | <10 | 121 |
| L174714 | | 31 | <10 | 40 |
| L174715 | | 259 | <10 | 66 |
| L174716 | | 330 | <10 | 68 |
| L174717 | | 434 | <10 | 116 |
| L174718 | | 389 | <10 | 86 |
| L174719 | | 68 | <10 | 39 |
| L174720 | | 315 | <10 | 80 |

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# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
| L174721 | | <0.5 | 8.03 | 5 | 140 | 0.7 | <2 | 4.37 | <0.5 | 29 | 105 | 19 | 6.36 | 30 | 0.65 | 10 |
| L174722 | | <0.5 | 7.21 | 17 | 80 | 1.2 | <2 | 5.19 | <0.5 | 36 | 119 | 95 | 8.68 | 10 | 0.07 | <10 |
| L174723 | | <0.5 | 7.23 | 14 | 90 | <0.5 | <2 | 5.60 | <0.5 | 38 | 187 | 99 | 7.63 | 20 | 0.11 | <10 |
| L174724 | | <0.5 | 6.84 | 28 | 30 | <0.5 | 7 | 6.24 | <0.5 | 36 | 201 | 99 | 7.88 | 20 | 0.05 | <10 |
| L174725 | | <0.5 | 7.04 | 9 | 30 | <0.5 | 4 | 4.12 | <0.5 | 37 | 119 | 107 | 8.10 | 20 | 0.05 | <10 |
| L174726 | | <0.5 | 6.87 | <5 | 30 | <0.5 | 3 | 2.47 | <0.5 | 38 | 102 | 110 | 8.46 | 20 | 0.11 | <10 |
| L174727 | | <0.5 | 7.14 | <5 | 70 | <0.5 | 3 | 3.31 | <0.5 | 43 | 131 | 64 | 9.62 | 20 | 0.28 | <10 |
| L174728 | | <0.5 | 7.49 | 10 | 110 | <0.5 | <2 | 5.52 | <0.5 | 40 | 236 | 92 | 8.19 | 20 | 0.28 | <10 |

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# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
| L174721 | | 2.47 | 1110 | <1 | 2.53 | 106 | 890 | <2 | 0.09 | <5 | 21 | 186 | <20 | 0.82 | <10 | <10 |
| L174722 | | 2.79 | 1965 | <1 | 2.38 | 71 | 410 | <2 | 0.09 | 5 | 39 | 120 | <20 | 0.81 | 10 | <10 |
| L174723 | | 4.04 | 1180 | <1 | 1.57 | 91 | 280 | <2 | 0.09 | <5 | 37 | 151 | <20 | 0.53 | 10 | <10 |
| L174724 | | 4.50 | 1250 | <1 | 1.43 | 70 | 210 | 2 | 0.07 | 7 | 40 | 293 | <20 | 0.50 | <10 | <10 |
| L174725 | | 4.33 | 1280 | <1 | 2.92 | 63 | 230 | 4 | <0.01 | 8 | 44 | 134 | <20 | 0.60 | <10 | <10 |
| L174726 | | 3.83 | 899 | <1 | 2.45 | 59 | 300 | <2 | 0.01 | 8 | 40 | 56 | <20 | 0.58 | <10 | <10 |
| L174727 | | 3.33 | 1460 | <1 | 1.67 | 72 | 440 | 4 | 0.04 | <5 | 41 | 41 | <20 | 0.87 | <10 | <10 |
| L174728 | | 5.16 | 1270 | <1 | 1.29 | 133 | 160 | <2 | 0.04 | 7 | 37 | 122 | <20 | 0.54 | 10 | <10 |

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

# CERTIFICATE OF ANALYSIS SD14042679

| 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 |
|---|---|---|---|---|
| L174721 | | 196 | <10 | 97 |
| L174722 | | 349 | <10 | 90 |
| L174723 | | 276 | <10 | 73 |
| L174724 | | 288 | <10 | 83 |
| L174725 | | 328 | <10 | 97 |
| L174726 | | 321 | <10 | 87 |
| L174727 | | 368 | <10 | 104 |
| L174728 | | 302 | <10 | 78 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042679

## 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