ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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


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

# CERTIFICATE SD14042676

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 120 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

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

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

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

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

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I272551 | | <0.5 | 7.64 | <5 | 2820 | 2.0 | <2 | 1.57 | <0.5 | 10 | 46 | 50 | 2.30 | 20 | 1.89 | 20 |
| I272552 | | <0.5 | 7.51 | <5 | 950 | 0.9 | <2 | 5.90 | <0.5 | 33 | 191 | 129 | 6.40 | 20 | 1.29 | 20 |
| I272553 | | <0.5 | 7.50 | <5 | 1140 | 1.3 | <2 | 4.60 | <0.5 | 26 | 44 | 81 | 6.20 | 20 | 2.25 | 20 |
| I272554 | | <0.5 | 7.64 | <5 | 1030 | 1.1 | <2 | 5.66 | 0.5 | 28 | 55 | 60 | 6.97 | 20 | 1.54 | 20 |
| I272555 | | <0.5 | 7.04 | <5 | 1520 | 2.8 | <2 | 0.90 | <0.5 | 7 | 79 | 2 | 1.59 | 20 | 2.58 | 20 |
| I272556 | | <0.5 | 8.33 | <5 | 1720 | 3.9 | <2 | 0.89 | <0.5 | 6 | 39 | 47 | 1.59 | 20 | 2.55 | 30 |
| I272557 | | <0.5 | 8.03 | <5 | 1370 | 3.2 | <2 | 1.08 | <0.5 | 4 | 81 | 1 | 2.11 | 20 | 3.88 | 30 |
| I272558 | | <0.5 | 7.36 | <5 | 1710 | 2.0 | <2 | 1.02 | <0.5 | 5 | 57 | 4 | 1.70 | 20 | 3.62 | 20 |
| I272559 | | <0.5 | 7.60 | <5 | 2020 | 2.8 | <2 | 0.92 | <0.5 | 5 | 51 | 1 | 1.74 | 20 | 4.02 | 30 |
| I272560 | | <0.5 | 7.64 | <5 | 1640 | 4.1 | <2 | 1.00 | <0.5 | 9 | 86 | 3 | 2.52 | 20 | 4.02 | 30 |
| N459055 | | <0.5 | 6.95 | <5 | 1580 | 1.4 | <2 | 1.38 | <0.5 | 7 | 49 | 13 | 1.78 | 20 | 1.55 | 30 |
| N459056 | | <0.5 | 1.69 | <5 | 10 | <0.5 | <2 | 0.59 | <0.5 | 90 | 1135 | <1 | 5.17 | <10 | 0.01 | <10 |
| N459057 | | <0.5 | 7.47 | <5 | 970 | 2.5 | <2 | 1.96 | <0.5 | 17 | 94 | 36 | 2.64 | 20 | 1.96 | 30 |
| N459058 | | <0.5 | 5.41 | <5 | 310 | 0.7 | <2 | 1.93 | <0.5 | 12 | 48 | 23 | 2.31 | 10 | 0.52 | 10 |
| N459059 | | <0.5 | 7.50 | <5 | 100 | <0.5 | <2 | 8.02 | 0.5 | 38 | 222 | 61 | 8.15 | 20 | 0.40 | <10 |
| N459060 | | <0.5 | 6.37 | <5 | 220 | 0.9 | <2 | 3.24 | <0.5 | 19 | 7 | 30 | 10.80 | 20 | 0.97 | 10 |
| N459061 | | <0.5 | 6.99 | 15 | 170 | 0.7 | <2 | 6.16 | 0.5 | 49 | 101 | 51 | 7.13 | 20 | 0.49 | <10 |
| N459062 | | <0.5 | 5.97 | 7 | 120 | <0.5 | <2 | 5.34 | <0.5 | 54 | 653 | 68 | 6.89 | 10 | 0.33 | <10 |
| N459063 | | <0.5 | 6.55 | <5 | 170 | <0.5 | <2 | 2.95 | 0.5 | 59 | 311 | 106 | 8.65 | 20 | 0.55 | <10 |
| N459064 | | <0.5 | 7.15 | <5 | 1170 | 1.3 | <2 | 2.05 | <0.5 | 17 | 177 | 17 | 3.28 | 20 | 1.81 | 20 |
| N459065 | | <0.5 | 7.14 | 9 | 190 | 0.5 | <2 | 6.00 | 0.5 | 47 | 97 | 121 | 10.65 | 20 | 0.33 | <10 |
| N459066 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459067 | | <0.5 | 7.77 | 7 | 170 | <0.5 | <2 | 6.92 | 0.5 | 42 | 238 | 76 | 7.73 | 20 | 0.58 | <10 |
| N459068 | | <0.5 | 7.14 | <5 | 1510 | 1.4 | <2 | 2.28 | <0.5 | 20 | 179 | 20 | 3.57 | 20 | 2.29 | 20 |
| N459077 | | <0.5 | 7.58 | <5 | 2410 | 1.9 | <2 | 1.94 | <0.5 | 11 | 50 | 76 | 3.22 | 20 | 4.08 | 50 |
| N459078 | | <0.5 | 7.78 | <5 | 2350 | 1.9 | <2 | 1.75 | <0.5 | 8 | 45 | 25 | 2.63 | 20 | 4.13 | 50 |
| N459079 | | <0.5 | 7.56 | <5 | 1970 | 1.8 | <2 | 1.15 | <0.5 | 8 | 45 | 29 | 2.46 | 20 | 3.89 | 40 |
| N459080 | | <0.5 | 7.66 | <5 | 2070 | 1.9 | <2 | 1.44 | <0.5 | 8 | 49 | 30 | 2.44 | 20 | 4.09 | 50 |
| N459081 | | <0.5 | 7.91 | <5 | 1890 | 1.5 | <2 | 1.05 | <0.5 | 6 | 47 | 26 | 2.48 | 20 | 3.19 | 40 |
| N459082 | | <0.5 | 7.71 | <5 | 100 | 1.5 | <2 | 0.32 | <0.5 | 7 | 40 | 5 | 1.69 | 20 | 0.09 | 40 |
| N459083 | | <0.5 | 7.88 | <5 | 2180 | 1.9 | <2 | 1.38 | <0.5 | 7 | 45 | 19 | 2.28 | 20 | 4.18 | 40 |
| N459084 | | <0.5 | 8.21 | 6 | 2580 | 1.7 | <2 | 1.45 | <0.5 | 6 | 40 | 42 | 2.25 | 20 | 4.67 | 40 |
| N459085 | | <0.5 | 7.83 | <5 | 2490 | 2.3 | <2 | 2.14 | <0.5 | 11 | 54 | 92 | 3.52 | 20 | 4.41 | 60 |
| N459086 | | <0.5 | 8.95 | <5 | 2540 | 1.2 | <2 | 0.55 | <0.5 | 8 | 56 | 49 | 3.06 | 20 | 4.54 | 50 |
| N459087 | | <0.5 | 8.20 | <5 | 2400 | 2.4 | <2 | 1.86 | <0.5 | 4 | 43 | 30 | 2.45 | 20 | 4.04 | 40 |
| N459088 | | <0.5 | 8.44 | 5 | 2650 | 1.4 | <2 | 0.89 | <0.5 | 6 | 42 | 35 | 2.28 | 20 | 4.55 | 40 |
| N459089 | | <0.5 | 7.79 | <5 | 2070 | 1.0 | <2 | 2.22 | <0.5 | 9 | 54 | 60 | 3.18 | 20 | 3.63 | 40 |
| N459090 | | <0.5 | 8.33 | <5 | 1830 | 1.1 | <2 | 1.13 | <0.5 | 4 | 46 | 50 | 1.95 | 20 | 4.61 | 30 |
| N459091 | | <0.5 | 8.06 | <5 | 1870 | 1.1 | <2 | 0.86 | <0.5 | 3 | 36 | 13 | 1.79 | 20 | 4.03 | 30 |
| N459092 | | <0.5 | 7.14 | <5 | 2440 | 1.5 | <2 | 4.22 | <0.5 | 30 | 241 | 74 | 5.55 | 20 | 2.60 | 50 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
| I272551 | | 0.96 | 402 | <1 | 4.32 | 18 | 1230 | 7 | 1.00 | <5 | 7 | 597 | <20 | 0.09 | <10 | <10 |
| I272552 | | 3.85 | 1205 | <1 | 2.78 | 62 | 1170 | 11 | 0.04 | <5 | 28 | 1035 | <20 | 0.51 | <10 | <10 |
| I272553 | | 2.44 | 1160 | <1 | 3.16 | 21 | 1280 | 14 | 0.03 | <5 | 22 | 1505 | <20 | 0.55 | <10 | <10 |
| I272554 | | 2.82 | 1295 | <1 | 2.71 | 23 | 1510 | 11 | 0.05 | <5 | 26 | 1155 | <20 | 0.60 | <10 | <10 |
| I272555 | | 0.62 | 355 | <1 | 4.46 | 36 | 370 | 13 | 0.11 | <5 | 5 | 547 | <20 | 0.09 | <10 | <10 |
| I272556 | | 0.40 | 283 | <1 | 5.89 | 17 | 620 | 12 | 1.10 | <5 | 3 | 696 | 20 | 0.06 | <10 | <10 |
| I272557 | | 0.60 | 462 | <1 | 4.43 | 22 | 610 | 18 | 0.04 | <5 | 5 | 547 | <20 | 0.12 | <10 | <10 |
| I272558 | | 0.50 | 379 | <1 | 4.11 | 16 | 420 | 24 | 0.27 | <5 | 4 | 732 | <20 | 0.09 | <10 | <10 |
| I272559 | | 0.52 | 396 | <1 | 4.03 | 20 | 510 | 13 | 0.03 | <5 | 4 | 553 | <20 | 0.07 | <10 | <10 |
| I272560 | | 0.82 | 492 | <1 | 3.75 | 25 | 810 | 25 | 0.03 | <5 | 7 | 651 | 20 | 0.10 | <10 | <10 |
| N459055 | | 0.65 | 441 | <1 | 4.37 | 22 | 420 | 9 | 0.09 | <5 | 4 | 668 | <20 | 0.10 | <10 | <10 |
| N459056 | | 20.9 | 818 | <1 | 0.01 | 2090 | 50 | 2 | 0.03 | <5 | 12 | 2 | <20 | 0.09 | <10 | <10 |
| N459057 | | 1.12 | 532 | 1 | 4.33 | 46 | 720 | 9 | 0.64 | <5 | 6 | 565 | <20 | 0.14 | <10 | <10 |
| N459058 | | 1.02 | 408 | 7 | 3.28 | 26 | 480 | 10 | 0.72 | <5 | 7 | 401 | <20 | 0.12 | <10 | <10 |
| N459059 | | 3.70 | 1465 | <1 | 1.39 | 127 | 280 | 7 | 0.14 | <5 | 36 | 265 | <20 | 0.45 | <10 | <10 |
| N459060 | | 1.26 | 1795 | <1 | 2.86 | 2 | 1480 | 9 | 0.05 | <5 | 33 | 202 | <20 | 0.90 | <10 | <10 |
| N459061 | | 3.55 | 1635 | <1 | 2.28 | 74 | 360 | 3 | 0.16 | <5 | 44 | 325 | <20 | 0.49 | <10 | <10 |
| N459062 | | 6.07 | 1225 | <1 | 2.28 | 268 | 200 | 6 | 0.07 | <5 | 35 | 116 | <20 | 0.35 | <10 | <10 |
| N459063 | | 5.34 | 1365 | <1 | 1.32 | 118 | 210 | 4 | 0.35 | <5 | 42 | 72 | <20 | 0.38 | <10 | <10 |
| N459064 | | 2.21 | 639 | 2 | 3.79 | 88 | 810 | 10 | 0.05 | <5 | 10 | 508 | <20 | 0.26 | <10 | <10 |
| N459065 | | 3.85 | 1930 | <1 | 1.01 | 64 | 410 | 8 | 0.81 | <5 | 45 | 456 | <20 | 0.67 | <10 | <10 |
| N459066 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459067 | | 3.94 | 1445 | <1 | 1.81 | 129 | 290 | 3 | 0.07 | <5 | 36 | 214 | <20 | 0.45 | <10 | <10 |
| N459068 | | 2.37 | 674 | <1 | 3.16 | 94 | 930 | 14 | 0.05 | <5 | 11 | 706 | <20 | 0.28 | <10 | <10 |
| N459077 | | 1.14 | 691 | <1 | 3.81 | 20 | 1340 | 30 | <0.01 | <5 | 8 | 1700 | <20 | 0.25 | <10 | <10 |
| N459078 | | 0.92 | 594 | 1 | 4.14 | 18 | 1080 | 20 | 0.01 | <5 | 6 | 1670 | <20 | 0.23 | <10 | <10 |
| N459079 | | 0.83 | 532 | <1 | 4.20 | 20 | 820 | 30 | <0.01 | <5 | 5 | 1330 | <20 | 0.20 | <10 | <10 |
| N459080 | | 0.82 | 577 | <1 | 4.31 | 19 | 880 | 28 | <0.01 | <5 | 5 | 1505 | <20 | 0.22 | <10 | <10 |
| N459081 | | 0.91 | 409 | <1 | 4.51 | 18 | 870 | 28 | 0.01 | <5 | 5 | 1215 | <20 | 0.21 | <10 | <10 |
| N459082 | | 1.47 | 139 | <1 | 6.57 | 19 | 870 | 14 | <0.01 | <5 | 4 | 726 | <20 | 0.14 | <10 | <10 |
| N459083 | | 0.79 | 568 | <1 | 4.27 | 19 | 900 | 25 | <0.01 | <5 | 5 | 1490 | <20 | 0.20 | <10 | <10 |
| N459084 | | 0.80 | 535 | <1 | 4.30 | 24 | 890 | 37 | 0.02 | <5 | 4 | 1310 | <20 | 0.14 | <10 | <10 |
| N459085 | | 1.28 | 767 | <1 | 4.13 | 25 | 1390 | 32 | 0.01 | <5 | 8 | 1785 | <20 | 0.30 | <10 | <10 |
| N459086 | | 0.76 | 468 | <1 | 5.05 | 25 | 1020 | 25 | 0.02 | <5 | 6 | 901 | <20 | 0.16 | 10 | <10 |
| N459087 | | 0.75 | 616 | <1 | 4.94 | 21 | 880 | 22 | 0.03 | <5 | 5 | 1070 | <20 | 0.12 | <10 | <10 |
| N459088 | | 0.47 | 483 | <1 | 4.62 | 17 | 750 | 34 | 0.02 | <5 | 5 | 1660 | <20 | 0.17 | <10 | <10 |
| N459089 | | 0.93 | 801 | <1 | 4.85 | 24 | 1320 | 8 | 0.08 | 6 | 7 | 1375 | <20 | 0.18 | <10 | <10 |
| N459090 | | 0.42 | 516 | <1 | 4.49 | 18 | 760 | 16 | 0.02 | 7 | 4 | 1150 | <20 | 0.13 | <10 | <10 |
| N459091 | | 0.45 | 345 | <1 | 4.55 | 17 | 520 | 25 | 0.01 | <5 | 3 | 1295 | <20 | 0.14 | <10 | <10 |
| N459092 | | 4.20 | 1030 | <1 | 3.29 | 98 | 2320 | 8 | 0.01 | 6 | 20 | 1725 | <20 | 0.47 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|
| I272551 | | 91 | 10 | 36 |
| I272552 | | 227 | <10 | 104 |
| I272553 | | 237 | <10 | 114 |
| I272554 | | 264 | <10 | 123 |
| I272555 | | 42 | <10 | 20 |
| I272556 | | 17 | <10 | 9 |
| I272557 | | 53 | <10 | 21 |
| I272558 | | 43 | <10 | 24 |
| I272559 | | 44 | <10 | 19 |
| I272560 | | 65 | <10 | 50 |
| N459055 | | 41 | <10 | 35 |
| N459056 | | 67 | <10 | 54 |
| N459057 | | 58 | <10 | 40 |
| N459058 | | 39 | <10 | 39 |
| N459059 | | 277 | <10 | 96 |
| N459060 | | 91 | <10 | 139 |
| N459061 | | 256 | <10 | 106 |
| N459062 | | 222 | <10 | 92 |
| N459063 | | 262 | <10 | 94 |
| N459064 | | 84 | <10 | 75 |
| N459065 | | 332 | <10 | 147 |
| N459066 | | NSS | NSS | NSS |
| N459067 | | 250 | <10 | 101 |
| N459068 | | 93 | <10 | 84 |
| N459077 | | 91 | <10 | 76 |
| N459078 | | 70 | <10 | 72 |
| N459079 | | 66 | <10 | 66 |
| N459080 | | 64 | <10 | 70 |
| N459081 | | 62 | <10 | 37 |
| N459082 | | 68 | <10 | 16 |
| N459083 | | 59 | <10 | 62 |
| N459084 | | 60 | <10 | 66 |
| N459085 | | 98 | <10 | 88 |
| N459086 | | 68 | <10 | 48 |
| N459087 | | 56 | <10 | 17 |
| N459088 | | 58 | <10 | 43 |
| N459089 | | 71 | 40 | 31 |
| N459090 | | 57 | <10 | 21 |
| N459091 | | 48 | 10 | 15 |
| N459092 | | 160 | <10 | 117 |

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# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459093 | | <0.5 | 6.03 | <5 | 1950 | 1.4 | <2 | 7.91 | <0.5 | 44 | 333 | 80 | 8.22 | 20 | 2.20 | 40 |
| N459094 | | <0.5 | 4.28 | <5 | 3270 | 1.0 | 3 | 8.47 | 0.5 | 58 | 326 | 152 | 10.15 | 10 | 2.82 | 30 |
| N459095 | | <0.5 | 9.01 | <5 | 800 | 1.0 | <2 | 0.82 | <0.5 | 3 | 6 | 7 | 1.95 | 20 | 4.78 | 20 |
| N459096 | | <0.5 | 8.19 | <5 | 1720 | 2.1 | <2 | 0.88 | <0.5 | 9 | 43 | 5 | 1.96 | 20 | 4.59 | 30 |
| N459097 | | <0.5 | 8.20 | 16 | 1570 | 1.3 | <2 | 1.79 | <0.5 | 8 | 55 | 6 | 2.14 | 20 | 0.95 | 40 |
| N459098 | | <0.5 | 7.37 | 9 | 1450 | 1.5 | <2 | 2.11 | <0.5 | 12 | 98 | 30 | 2.92 | 20 | 1.79 | 20 |
| N459099 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459100 | | <0.5 | 7.63 | <5 | 1320 | 1.3 | <2 | 0.76 | <0.5 | 15 | 93 | 8 | 2.66 | 20 | 2.77 | 30 |
| N459101 | | <0.5 | 7.74 | <5 | 90 | <0.5 | <2 | 5.42 | <0.5 | 47 | 80 | 103 | 9.74 | 20 | 0.35 | <10 |
| N459102 | | <0.5 | 8.47 | <5 | 230 | <0.5 | <2 | 5.50 | <0.5 | 36 | 273 | 38 | 5.75 | 20 | 1.08 | <10 |
| N459103 | | <0.5 | 7.48 | <5 | 80 | <0.5 | <2 | 10.50 | <0.5 | 22 | 171 | 143 | 5.68 | 20 | 0.30 | <10 |
| N459104 | | <0.5 | 2.74 | <5 | 20 | <0.5 | <2 | 2.42 | <0.5 | 109 | 1430 | 24 | 10.15 | 10 | 0.06 | <10 |
| N459105 | | <0.5 | 7.19 | 7 | 100 | <0.5 | <2 | 7.50 | <0.5 | 40 | 437 | 60 | 6.77 | 10 | 0.56 | <10 |
| N459106 | | <0.5 | 7.66 | <5 | 130 | <0.5 | <2 | 6.76 | <0.5 | 50 | 107 | 116 | 10.35 | 20 | 0.58 | <10 |
| N459107 | | <0.5 | 7.85 | <5 | 130 | <0.5 | <2 | 6.18 | <0.5 | 45 | 167 | 90 | 9.88 | 20 | 0.44 | <10 |
| N459108 | | <0.5 | 7.63 | <5 | 160 | 0.5 | 6 | 7.33 | <0.5 | 43 | 123 | 71 | 9.61 | 20 | 0.52 | 10 |
| N459109 | | <0.5 | 5.35 | <5 | 110 | 2.8 | <2 | 10.45 | <0.5 | 75 | 469 | 9 | 6.67 | 10 | 0.24 | 10 |
| N459110 | | <0.5 | 6.98 | <5 | 60 | <0.5 | 2 | 6.27 | <0.5 | 41 | 200 | 251 | 10.00 | 20 | 0.35 | <10 |
| N459111 | | <0.5 | 8.45 | <5 | 170 | <0.5 | <2 | 6.70 | <0.5 | 44 | 275 | 102 | 7.14 | 10 | 0.61 | <10 |
| N459112 | | <0.5 | 8.97 | <5 | 580 | <0.5 | <2 | 6.08 | <0.5 | 31 | 365 | 93 | 6.04 | 10 | 1.52 | <10 |
| N459113 | | <0.5 | 7.90 | <5 | 380 | 0.5 | <2 | 6.89 | <0.5 | 43 | 290 | 66 | 6.70 | 20 | 1.25 | <10 |
| N459114 | | <0.5 | 7.41 | <5 | 100 | <0.5 | <2 | 8.43 | <0.5 | 44 | 138 | 270 | 8.89 | 20 | 0.41 | <10 |
| N459115 | | <0.5 | 7.10 | <5 | 200 | <0.5 | <2 | 5.55 | <0.5 | 51 | 80 | 94 | 10.60 | 20 | 0.95 | <10 |
| N459116 | | <0.5 | 7.06 | <5 | 180 | <0.5 | <2 | 5.32 | <0.5 | 49 | 76 | 80 | 10.15 | 20 | 0.83 | <10 |
| N459117 | | <0.5 | 5.54 | <5 | 40 | <0.5 | 3 | 2.66 | <0.5 | 74 | 1150 | 17 | 7.61 | 10 | 0.06 | <10 |
| N459118 | | <0.5 | 6.83 | <5 | 250 | 1.0 | <2 | 5.34 | <0.5 | 19 | 7 | 14 | 8.58 | 20 | 0.65 | 10 |
| N459119 | | <0.5 | 7.82 | <5 | 70 | <0.5 | <2 | 6.86 | <0.5 | 50 | 74 | 70 | 7.16 | 20 | 0.48 | <10 |
| N459120 | | <0.5 | 2.01 | 7 | 10 | <0.5 | <2 | 4.55 | <0.5 | 103 | 2070 | 64 | 7.74 | 10 | 0.01 | <10 |
| N459121 | | <0.5 | 3.91 | 24 | 30 | <0.5 | <2 | 4.83 | 0.6 | 101 | 1415 | 26 | 9.01 | 10 | 0.03 | <10 |
| N459122 | | <0.5 | 6.90 | <5 | 30 | <0.5 | <2 | 8.09 | <0.5 | 46 | 244 | 276 | 8.91 | 20 | 0.14 | 10 |
| N459123 | | <0.5 | 7.42 | <5 | 30 | <0.5 | <2 | 8.37 | 1.3 | 31 | 173 | 74 | 7.09 | 20 | 0.13 | <10 |
| N459124 | | <0.5 | 7.11 | <5 | 110 | <0.5 | <2 | 5.76 | <0.5 | 41 | 246 | 66 | 8.40 | 20 | 0.58 | <10 |
| N459125 | | <0.5 | 2.39 | <5 | <10 | <0.5 | <2 | 4.62 | <0.5 | 94 | 2240 | 12 | 8.48 | 10 | 0.02 | <10 |
| N459126 | | <0.5 | 7.29 | 5 | 110 | <0.5 | <2 | 7.20 | <0.5 | 38 | 201 | 49 | 8.17 | 20 | 0.49 | <10 |
| N459127 | | <0.5 | 8.03 | <5 | 230 | <0.5 | <2 | 6.47 | <0.5 | 33 | 125 | 136 | 7.09 | 20 | 1.00 | <10 |
| N459128 | | <0.5 | 6.09 | <5 | 40 | <0.5 | 3 | 9.48 | <0.5 | 46 | 14 | 243 | 12.15 | 20 | 0.11 | 10 |
| N459129 | | <0.5 | 6.75 | <5 | 110 | <0.5 | <2 | 8.23 | <0.5 | 45 | 284 | 114 | 7.79 | 10 | 0.32 | <10 |
| N459130 | | <0.5 | 6.83 | <5 | 400 | <0.5 | <2 | 5.81 | <0.5 | 50 | 374 | 57 | 8.06 | 10 | 1.18 | <10 |
| N459131 | | <0.5 | 7.40 | <5 | 70 | <0.5 | 2 | 8.68 | <0.5 | 46 | 346 | 64 | 8.17 | 20 | 0.22 | <10 |
| N459132 | | <0.5 | 6.66 | <5 | 1300 | 1.5 | <2 | 5.42 | <0.5 | 30 | 344 | 44 | 4.82 | 20 | 1.59 | 50 |

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
| N459093 | | 5.93 | 1805 | <1 | 1.89 | 90 | 3660 | 9 | 0.07 | <5 | 37 | 1880 | <20 | 0.63 | <10 | <10 |
| N459094 | | 7.39 | 1535 | <1 | 0.71 | 81 | 4450 | 11 | 0.19 | 5 | 49 | 667 | <20 | 0.68 | <10 | <10 |
| N459095 | | 0.21 | 177 | <1 | 5.21 | 2 | 90 | 72 | 0.03 | <5 | 1 | 555 | <20 | 0.14 | <10 | <10 |
| N459096 | | 0.99 | 254 | <1 | 4.50 | 19 | 730 | 32 | 0.16 | <5 | 4 | 703 | <20 | 0.13 | <10 | <10 |
| N459097 | | 0.82 | 474 | <1 | 6.50 | 29 | 610 | 10 | 0.53 | <5 | 5 | 638 | <20 | 0.13 | <10 | <10 |
| N459098 | | 1.31 | 455 | <1 | 4.08 | 46 | 920 | 9 | 0.41 | <5 | 6 | 615 | <20 | 0.27 | <10 | <10 |
| N459099 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459100 | | 1.11 | 392 | <1 | 3.66 | 44 | 840 | 4 | 0.18 | <5 | 6 | 445 | <20 | 0.29 | <10 | <10 |
| N459101 | | 3.20 | 1490 | <1 | 2.60 | 81 | 410 | 3 | 0.22 | <5 | 46 | 158 | <20 | 0.76 | <10 | <10 |
| N459102 | | 4.27 | 991 | <1 | 2.38 | 183 | 130 | 6 | 0.13 | <5 | 17 | 279 | <20 | 0.26 | <10 | <10 |
| N459103 | | 2.42 | 856 | <1 | 0.84 | 66 | 170 | 3 | 0.10 | <5 | 31 | 426 | <20 | 0.31 | <10 | <10 |
| N459104 | | 17.50 | 1730 | <1 | 0.05 | 882 | 170 | 4 | 0.02 | 7 | 15 | 32 | <20 | 0.22 | <10 | <10 |
| N459105 | | 6.16 | 1280 | <1 | 1.56 | 116 | 240 | <2 | 0.04 | <5 | 38 | 208 | <20 | 0.33 | <10 | <10 |
| N459106 | | 4.05 | 1695 | <1 | 1.93 | 83 | 440 | 6 | 0.06 | <5 | 45 | 224 | <20 | 0.76 | <10 | <10 |
| N459107 | | 4.39 | 1575 | <1 | 2.21 | 93 | 430 | <2 | 0.05 | <5 | 41 | 245 | <20 | 0.73 | <10 | <10 |
| N459108 | | 3.60 | 1950 | <1 | 2.30 | 97 | 540 | 10 | <0.01 | <5 | 38 | 245 | <20 | 0.74 | <10 | <10 |
| N459109 | | 8.31 | 1300 | <1 | 0.66 | 620 | 950 | 9 | 0.02 | <5 | 25 | 370 | <20 | 0.28 | <10 | <10 |
| N459110 | | 5.02 | 1325 | <1 | 1.89 | 129 | 320 | 2 | 0.26 | <5 | 32 | 186 | <20 | 0.46 | 10 | <10 |
| N459111 | | 4.78 | 1205 | <1 | 1.82 | 196 | 220 | 5 | 0.02 | <5 | 26 | 247 | <20 | 0.37 | <10 | <10 |
| N459112 | | 3.66 | 1140 | <1 | 1.92 | 89 | 180 | 4 | 0.12 | <5 | 29 | 356 | <20 | 0.35 | <10 | <10 |
| N459113 | | 4.78 | 1230 | <1 | 1.50 | 218 | 220 | <2 | 0.09 | <5 | 19 | 375 | <20 | 0.34 | <10 | <10 |
| N459114 | | 3.67 | 1465 | <1 | 1.49 | 111 | 370 | <2 | 0.15 | 5 | 36 | 328 | <20 | 0.59 | <10 | <10 |
| N459115 | | 3.80 | 1425 | <1 | 2.28 | 85 | 450 | 2 | 0.08 | <5 | 41 | 288 | <20 | 0.73 | <10 | <10 |
| N459116 | | 4.46 | 1650 | <1 | 2.29 | 85 | 410 | 8 | 0.01 | <5 | 38 | 284 | <20 | 0.70 | <10 | <10 |
| N459117 | | 13.00 | 958 | <1 | 0.14 | 640 | 110 | 4 | 0.02 | <5 | 33 | 14 | <20 | 0.21 | <10 | <10 |
| N459118 | | 1.05 | 2840 | <1 | 2.22 | 15 | 1590 | 2 | 0.04 | 7 | 36 | 210 | <20 | 1.00 | <10 | <10 |
| N459119 | | 3.23 | 1910 | <1 | 2.67 | 83 | 350 | 3 | 0.04 | <5 | 47 | 299 | <20 | 0.70 | <10 | <10 |
| N459120 | | 17.15 | 1325 | <1 | 0.06 | 1165 | 120 | 2 | 0.51 | <5 | 14 | 62 | <20 | 0.13 | <10 | <10 |
| N459121 | | 13.50 | 1330 | <1 | 0.08 | 701 | 280 | 50 | 0.25 | <5 | 23 | 17 | <20 | 0.32 | <10 | <10 |
| N459122 | | 4.47 | 1360 | <1 | 0.50 | 122 | 430 | 6 | 0.14 | <5 | 37 | 171 | <20 | 0.52 | <10 | <10 |
| N459123 | | 3.72 | 1025 | <1 | 1.74 | 63 | 330 | 4 | 0.02 | <5 | 32 | 225 | <20 | 0.44 | <10 | <10 |
| N459124 | | 4.91 | 1470 | <1 | 1.96 | 81 | 390 | 4 | 0.14 | <5 | 40 | 161 | <20 | 0.51 | <10 | <10 |
| N459125 | | 15.95 | 1530 | <1 | 0.21 | 967 | 50 | <2 | 0.02 | <5 | 16 | 87 | <20 | 0.16 | <10 | <10 |
| N459126 | | 4.41 | 1305 | <1 | 1.72 | 77 | 430 | 5 | 0.01 | 5 | 41 | 160 | <20 | 0.59 | <10 | <10 |
| N459127 | | 4.18 | 1210 | <1 | 2.37 | 80 | 220 | <2 | 0.24 | <5 | 40 | 241 | <20 | 0.43 | 10 | <10 |
| N459128 | | 2.80 | 1705 | <1 | 0.59 | 39 | 390 | 2 | 0.72 | 6 | 48 | 825 | <20 | 1.03 | <10 | <10 |
| N459129 | | 4.53 | 1430 | <1 | 2.23 | 120 | 410 | 3 | 0.65 | <5 | 38 | 248 | <20 | 0.54 | <10 | <10 |
| N459130 | | 6.73 | 1315 | <1 | 1.35 | 175 | 340 | 3 | 0.01 | <5 | 32 | 160 | <20 | 0.40 | <10 | <10 |
| N459131 | | 3.43 | 2180 | <1 | 1.10 | 118 | 340 | <2 | 0.13 | <5 | 41 | 86 | <20 | 0.48 | <10 | <10 |
| N459132 | | 4.99 | 830 | <1 | 2.66 | 258 | 1800 | 7 | 0.17 | <5 | 16 | 1225 | <20 | 0.47 | <10 | <10 |

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

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**P.O. BOX 996**
**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|
| N459093 | | 267 | <10 | 172 |
| N459094 | | 354 | <10 | 142 |
| N459095 | | 59 | <10 | 20 |
| N459096 | | 51 | <10 | 54 |
| N459097 | | 54 | <10 | 31 |
| N459098 | | 76 | <10 | 81 |
| N459099 | | NSS | NSS | NSS |
| N459100 | | 79 | <10 | 54 |
| N459101 | | 335 | <10 | 110 |
| N459102 | | 161 | <10 | 64 |
| N459103 | | 212 | <10 | 40 |
| N459104 | | 113 | <10 | 93 |
| N459105 | | 193 | <10 | 76 |
| N459106 | | 339 | <10 | 138 |
| N459107 | | 320 | <10 | 110 |
| N459108 | | 295 | <10 | 137 |
| N459109 | | 223 | <10 | 118 |
| N459110 | | 239 | <10 | 176 |
| N459111 | | 217 | <10 | 73 |
| N459112 | | 193 | <10 | 74 |
| N459113 | | 208 | <10 | 89 |
| N459114 | | 276 | <10 | 116 |
| N459115 | | 315 | <10 | 134 |
| N459116 | | 321 | <10 | 107 |
| N459117 | | 195 | <10 | 94 |
| N459118 | | 66 | <10 | 160 |
| N459119 | | 317 | <10 | 131 |
| N459120 | | 84 | <10 | 113 |
| N459121 | | 150 | <10 | 203 |
| N459122 | | 245 | <10 | 106 |
| N459123 | | 220 | <10 | 337 |
| N459124 | | 254 | <10 | 129 |
| N459125 | | 99 | <10 | 77 |
| N459126 | | 255 | <10 | 106 |
| N459127 | | 249 | <10 | 60 |
| N459128 | | 733 | <10 | 95 |
| N459129 | | 233 | <10 | 98 |
| N459130 | | 220 | <10 | 79 |
| N459131 | | 246 | <10 | 107 |
| N459132 | | 130 | <10 | 101 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459133 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459134 | | <0.5 | 7.42 | <5 | 50 | <0.5 | 2 | 7.67 | <0.5 | 45 | 284 | 89 | 7.54 | 20 | 0.22 | <10 |
| N459135 | | <0.5 | 7.47 | <5 | 160 | 0.5 | <2 | 6.63 | <0.5 | 46 | 335 | 28 | 8.34 | 20 | 0.36 | <10 |
| N459136 | | <0.5 | 8.35 | 36 | 380 | 0.9 | <2 | 4.26 | <0.5 | 43 | 346 | 66 | 5.31 | 10 | 0.90 | 10 |
| N459137 | | <0.5 | 7.62 | <5 | 350 | <0.5 | <2 | 8.59 | <0.5 | 36 | 377 | 22 | 5.20 | 10 | 0.86 | <10 |
| N459138 | | <0.5 | 7.55 | <5 | 80 | <0.5 | <2 | 6.56 | <0.5 | 54 | 392 | 248 | 7.89 | 20 | 0.27 | <10 |
| N459139 | | <0.5 | 5.42 | <5 | 60 | <0.5 | <2 | 7.03 | <0.5 | 18 | 241 | 30 | 6.89 | 10 | 0.21 | <10 |
| N459140 | | <0.5 | 4.90 | <5 | 70 | <0.5 | <2 | 6.92 | <0.5 | 70 | 924 | 21 | 8.44 | 10 | 0.20 | <10 |
| N459141 | | <0.5 | 4.74 | <5 | 70 | <0.5 | <2 | 5.79 | <0.5 | 69 | 1060 | 13 | 8.35 | 10 | 0.29 | <10 |
| N459142 | | <0.5 | 5.01 | <5 | 10 | <0.5 | <2 | 6.32 | <0.5 | 84 | 1135 | 14 | 8.87 | 10 | 0.06 | <10 |
| N459143 | | <0.5 | 6.78 | <5 | 60 | <0.5 | <2 | 7.36 | <0.5 | 47 | 95 | 139 | 8.91 | 10 | 0.29 | <10 |
| N459144 | | <0.5 | 7.34 | <5 | 50 | <0.5 | <2 | 7.47 | <0.5 | 53 | 105 | 140 | 9.08 | 20 | 0.26 | <10 |
| N459145 | | <0.5 | 6.81 | <5 | 50 | <0.5 | <2 | 7.67 | <0.5 | 48 | 89 | 101 | 7.38 | 20 | 0.16 | <10 |
| N459146 | | <0.5 | 7.09 | <5 | 100 | <0.5 | <2 | 7.86 | <0.5 | 49 | 90 | 118 | 9.49 | 10 | 0.49 | <10 |
| N459147 | | <0.5 | 4.54 | 9 | 70 | <0.5 | <2 | 6.94 | <0.5 | 69 | 1150 | 43 | 8.47 | 10 | 0.09 | <10 |
| N459148 | | <0.5 | 7.23 | 6 | 240 | <0.5 | 2 | 3.23 | <0.5 | 32 | 103 | 153 | 6.74 | 10 | 0.88 | <10 |
| N459149 | | <0.5 | 5.49 | <5 | 170 | <0.5 | 2 | 6.41 | <0.5 | 66 | 657 | 87 | 8.52 | 10 | 0.62 | <10 |
| N459150 | | <0.5 | 7.13 | 6 | 1780 | 1.5 | <2 | 1.16 | <0.5 | 4 | 31 | 24 | 1.47 | 20 | 2.67 | 40 |
| N459151 | | <0.5 | 6.99 | <5 | 950 | 1.1 | <2 | 1.88 | <0.5 | 11 | 88 | 9 | 2.79 | 20 | 1.90 | 20 |
| N459152 | | <0.5 | 6.92 | <5 | 1520 | 1.1 | <2 | 2.31 | <0.5 | 12 | 102 | 13 | 2.85 | 20 | 1.56 | 20 |
| N459153 | | <0.5 | 6.79 | <5 | 810 | 1.0 | <2 | 2.27 | <0.5 | 15 | 108 | 11 | 3.02 | 20 | 1.50 | 20 |
| N459154 | | <0.5 | 7.66 | 6 | 1640 | 2.3 | <2 | 0.94 | <0.5 | 7 | 46 | 97 | 2.41 | 20 | 4.24 | 50 |
| N459155 | | <0.5 | 7.46 | 12 | 1310 | 2.3 | <2 | 1.17 | <0.5 | 7 | 54 | 15 | 2.34 | 10 | 2.07 | 50 |
| N459156 | | <0.5 | 3.60 | 309 | 300 | 0.6 | <2 | 4.71 | <0.5 | 54 | 921 | 23 | 4.68 | 10 | 0.55 | 10 |
| N459157 | | <0.5 | 6.63 | 11 | 790 | 0.9 | <2 | 1.63 | <0.5 | 10 | 86 | 21 | 2.12 | 20 | 1.09 | 20 |
| N459158 | | <0.5 | 6.82 | 6 | 1370 | 1.7 | <2 | 2.29 | <0.5 | 13 | 128 | 10 | 2.78 | 20 | 2.59 | 20 |
| N459159 | | <0.5 | 6.59 | <5 | 1030 | 1.3 | 3 | 2.41 | <0.5 | 15 | 154 | 16 | 3.18 | 20 | 1.64 | 30 |
| N459160 | | <0.5 | 7.09 | 7 | 1560 | 1.2 | <2 | 0.89 | <0.5 | 2 | 37 | 10 | 1.51 | 10 | 2.20 | 40 |
| N459161 | | <0.5 | 3.11 | 261 | 350 | 1.1 | 2 | 9.91 | <0.5 | 75 | 1605 | 47 | 5.44 | 10 | 1.06 | <10 |
| N459162 | | <0.5 | 7.25 | 7 | 930 | 1.3 | <2 | 1.78 | <0.5 | 16 | 67 | 24 | 3.41 | 20 | 1.97 | 20 |
| N459163 | | <0.5 | 6.79 | 5 | 490 | 1.1 | <2 | 2.62 | <0.5 | 15 | 96 | 13 | 2.68 | 20 | 1.35 | 20 |
| N459164 | | <0.5 | 6.67 | 5 | 1390 | 1.4 | <2 | 2.82 | <0.5 | 22 | 182 | 33 | 3.31 | 20 | 1.47 | 30 |
| N459069 | | <0.5 | 6.94 | <5 | 80 | <0.5 | <2 | 7.19 | <0.5 | 40 | 70 | 46 | 9.52 | 20 | 0.30 | <10 |
| N459070 | | <0.5 | 7.20 | <5 | 60 | <0.5 | 4 | 6.46 | <0.5 | 37 | 91 | 66 | 7.14 | 10 | 0.27 | <10 |
| N459071 | | <0.5 | 8.08 | <5 | 430 | <0.5 | 8 | 4.40 | <0.5 | 42 | 250 | 58 | 7.40 | 10 | 1.00 | <10 |
| N459072 | | <0.5 | 7.21 | <5 | 170 | 0.5 | 12 | 4.72 | <0.5 | 49 | 49 | 71 | 11.25 | 20 | 0.57 | 10 |
| N459073 | | <0.5 | 6.73 | <5 | 170 | 0.6 | 7 | 6.34 | <0.5 | 47 | 69 | 81 | 9.32 | 20 | 0.63 | 10 |
| N459074 | | <0.5 | 7.90 | <5 | 480 | 1.6 | 3 | 2.27 | <0.5 | 8 | 47 | 11 | 2.77 | 20 | 0.96 | 40 |
| N459075 | | <0.5 | 8.40 | <5 | 470 | 1.3 | 2 | 1.32 | <0.5 | 2 | 40 | 6 | 2.33 | 20 | 0.76 | 30 |
| N459076 | | <0.5 | 7.59 | 5 | 2600 | 1.7 | <2 | 2.18 | <0.5 | 12 | 70 | 50 | 3.77 | 20 | 4.09 | 50 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459133 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459134 | | 4.45 | 1765 | <1 | 1.92 | 112 | 330 | <2 | 0.06 | <5 | 40 | 132 | <20 | 0.46 | 10 | <10 |
| N459135 | | 3.92 | 2100 | <1 | 2.14 | 134 | 360 | 4 | 0.08 | <5 | 43 | 388 | <20 | 0.51 | <10 | <10 |
| N459136 | | 3.41 | 1300 | <1 | 3.91 | 149 | 690 | 3 | 0.09 | <5 | 40 | 289 | <20 | 0.52 | <10 | <10 |
| N459137 | | 5.99 | 1000 | <1 | 1.17 | 110 | 130 | <2 | <0.01 | <5 | 31 | 434 | <20 | 0.22 | <10 | <10 |
| N459138 | | 3.57 | 1740 | <1 | 2.61 | 159 | 340 | <2 | 0.78 | <5 | 42 | 193 | <20 | 0.47 | <10 | <10 |
| N459139 | | 2.19 | 1375 | <1 | 0.71 | 78 | 220 | <2 | 0.33 | <5 | 26 | 328 | <20 | 0.30 | <10 | <10 |
| N459140 | | 9.85 | 1620 | <1 | 0.64 | 478 | 140 | 4 | <0.01 | <5 | 33 | 34 | <20 | 0.30 | <10 | <10 |
| N459141 | | 9.94 | 1590 | <1 | 0.80 | 371 | 170 | <2 | <0.01 | <5 | 36 | 52 | <20 | 0.31 | <10 | <10 |
| N459142 | | 11.40 | 1455 | <1 | 0.44 | 508 | 160 | <2 | <0.01 | <5 | 31 | 12 | <20 | 0.32 | <10 | <10 |
| N459143 | | 4.12 | 1360 | <1 | 0.90 | 66 | 310 | 2 | 0.12 | <5 | 43 | 115 | <20 | 0.49 | 10 | <10 |
| N459144 | | 2.82 | 2200 | <1 | 1.35 | 82 | 330 | 2 | 0.14 | <5 | 47 | 156 | <20 | 0.53 | <10 | <10 |
| N459145 | | 3.60 | 1785 | <1 | 1.93 | 74 | 320 | <2 | 0.05 | <5 | 43 | 92 | <20 | 0.49 | <10 | <10 |
| N459146 | | 3.95 | 1980 | <1 | 1.10 | 81 | 310 | <2 | 0.09 | <5 | 45 | 185 | <20 | 0.50 | <10 | <10 |
| N459147 | | 9.99 | 1415 | <1 | 0.48 | 520 | 170 | 17 | 0.06 | <5 | 28 | 12 | <20 | 0.27 | <10 | <10 |
| N459148 | | 4.14 | 1145 | <1 | 3.12 | 75 | 360 | 9 | 1.58 | <5 | 44 | 169 | <20 | 0.47 | <10 | <10 |
| N459149 | | 7.67 | 1575 | <1 | 0.88 | 283 | 180 | 5 | 0.04 | <5 | 30 | 130 | <20 | 0.35 | <10 | <10 |
| N459150 | | 0.49 | 322 | <1 | 4.27 | 16 | 430 | 14 | 0.53 | <5 | 3 | 634 | 20 | 0.10 | <10 | <10 |
| N459151 | | 1.42 | 348 | <1 | 3.65 | 42 | 820 | 13 | 0.15 | 5 | 6 | 472 | <20 | 0.25 | 10 | <10 |
| N459152 | | 1.38 | 512 | <1 | 4.38 | 51 | 800 | 11 | 0.15 | <5 | 7 | 713 | <20 | 0.25 | <10 | <10 |
| N459153 | | 1.90 | 453 | <1 | 3.74 | 61 | 830 | 12 | 0.12 | <5 | 8 | 430 | <20 | 0.25 | <10 | <10 |
| N459154 | | 0.52 | 452 | <1 | 3.58 | 23 | 760 | 16 | 0.42 | <5 | 4 | 713 | 20 | 0.13 | <10 | <10 |
| N459155 | | 0.56 | 424 | <1 | 4.49 | 23 | 700 | 10 | 0.84 | 6 | 4 | 707 | 20 | 0.13 | <10 | <10 |
| N459156 | | 7.91 | 1000 | <1 | 1.11 | 930 | 90 | 5 | 0.37 | 6 | 12 | 727 | <20 | 0.07 | 10 | <10 |
| N459157 | | 0.99 | 348 | 3 | 4.58 | 36 | 560 | 27 | 0.93 | <5 | 5 | 511 | <20 | 0.16 | <10 | <10 |
| N459158 | | 1.73 | 494 | <1 | 3.39 | 63 | 730 | 18 | 0.07 | <5 | 7 | 618 | <20 | 0.21 | <10 | <10 |
| N459159 | | 1.78 | 660 | <1 | 3.39 | 76 | 880 | 8 | 0.22 | <5 | 10 | 655 | <20 | 0.20 | <10 | <10 |
| N459160 | | 0.42 | 369 | <1 | 3.71 | 15 | 390 | 10 | 0.02 | <5 | 3 | 582 | <20 | 0.10 | <10 | <10 |
| N459161 | | 6.93 | 1630 | <1 | 0.04 | 1000 | 720 | 3 | 0.04 | <5 | 19 | 910 | <20 | 0.08 | <10 | <10 |
| N459162 | | 1.82 | 542 | <1 | 3.32 | 42 | 840 | 10 | 0.14 | <5 | 11 | 367 | <20 | 0.30 | <10 | <10 |
| N459163 | | 1.56 | 495 | <1 | 3.78 | 53 | 630 | 14 | 0.27 | <5 | 9 | 412 | <20 | 0.21 | <10 | <10 |
| N459164 | | 2.62 | 695 | <1 | 3.81 | 117 | 850 | 26 | 0.15 | <5 | 10 | 682 | <20 | 0.15 | <10 | <10 |
| N459069 | | 3.76 | 1885 | <1 | 2.11 | 61 | 350 | <2 | 0.03 | <5 | 43 | 224 | <20 | 0.63 | <10 | <10 |
| N459070 | | 4.87 | 1335 | <1 | 2.32 | 77 | 210 | <2 | 0.03 | <5 | 38 | 118 | <20 | 0.43 | <10 | <10 |
| N459071 | | 4.52 | 1435 | <1 | 2.30 | 54 | 180 | 3 | 0.06 | <5 | 46 | 238 | <20 | 0.34 | <10 | <10 |
| N459072 | | 3.31 | 1665 | <1 | 2.38 | 41 | 650 | <2 | 0.13 | <5 | 44 | 187 | <20 | 1.06 | 10 | <10 |
| N459073 | | 3.62 | 1550 | <1 | 1.57 | 59 | 600 | 3 | 0.13 | <5 | 41 | 203 | <20 | 0.80 | 10 | <10 |
| N459074 | | 1.22 | 303 | <1 | 6.11 | 21 | 1350 | 11 | <0.01 | <5 | 7 | 829 | <20 | 0.14 | <10 | <10 |
| N459075 | | 0.41 | 238 | <1 | 6.88 | 10 | 950 | 18 | <0.01 | <5 | 7 | 713 | <20 | 0.19 | <10 | <10 |
| N459076 | | 1.53 | 725 | <1 | 4.00 | 25 | 1730 | 19 | 0.01 | <5 | 10 | 1315 | <20 | 0.32 | 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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042676

| 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 |
|---|---|---|---|---|
| N459133 | | NSS | NSS | NSS |
| N459134 | | 245 | <10 | 83 |
| N459135 | | 266 | <10 | 92 |
| N459136 | | 235 | <10 | 81 |
| N459137 | | 148 | <10 | 39 |
| N459138 | | 250 | <10 | 71 |
| N459139 | | 185 | <10 | 47 |
| N459140 | | 209 | <10 | 83 |
| N459141 | | 198 | <10 | 91 |
| N459142 | | 195 | <10 | 90 |
| N459143 | | 277 | <10 | 87 |
| N459144 | | 293 | <10 | 103 |
| N459145 | | 272 | <10 | 89 |
| N459146 | | 283 | <10 | 100 |
| N459147 | | 176 | <10 | 91 |
| N459148 | | 287 | <10 | 143 |
| N459149 | | 221 | <10 | 87 |
| N459150 | | 26 | <10 | 16 |
| N459151 | | 69 | <10 | 73 |
| N459152 | | 64 | <10 | 67 |
| N459153 | | 75 | <10 | 68 |
| N459154 | | 41 | <10 | 32 |
| N459155 | | 43 | 10 | 24 |
| N459156 | | 77 | <10 | 80 |
| N459157 | | 43 | 10 | 31 |
| N459158 | | 69 | <10 | 66 |
| N459159 | | 86 | <10 | 96 |
| N459160 | | 32 | <10 | 21 |
| N459161 | | 131 | <10 | 63 |
| N459162 | | 95 | <10 | 78 |
| N459163 | | 80 | <10 | 57 |
| N459164 | | 75 | <10 | 60 |
| N459069 | | 296 | <10 | 89 |
| N459070 | | 252 | <10 | 59 |
| N459071 | | 279 | <10 | 91 |
| N459072 | | 401 | <10 | 130 |
| N459073 | | 307 | <10 | 107 |
| N459074 | | 72 | <10 | 17 |
| N459075 | | 50 | <10 | 21 |
| N459076 | | 101 | <10 | 84 |

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# CERTIFICATE OF ANALYSIS SD14042676

## 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