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 SD14042821

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 164 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

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

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

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N438851 | | <0.5 | 6.73 | <5 | 60 | <0.5 | <2 | 5.99 | 0.5 | 48 | 107 | 121 | 10.85 | 20 | 0.05 | <10 |
| N438852 | | <0.5 | 6.73 | <5 | 80 | 0.8 | 2 | 5.95 | 0.6 | 50 | 109 | 123 | 11.00 | 20 | 0.25 | <10 |
| N438853 | | <0.5 | 7.68 | <5 | 60 | <0.5 | <2 | 6.29 | <0.5 | 39 | 124 | 104 | 6.81 | 20 | 0.08 | <10 |
| N438854 | | <0.5 | 7.48 | 11 | 60 | <0.5 | <2 | 7.64 | 0.6 | 46 | 235 | 96 | 6.73 | 20 | 0.11 | <10 |
| N438855 | | <0.5 | 7.58 | <5 | 100 | <0.5 | <2 | 7.08 | <0.5 | 46 | 235 | 102 | 7.73 | 20 | 0.08 | <10 |
| N438856 | | <0.5 | 7.96 | 20 | 30 | <0.5 | <2 | 6.19 | <0.5 | 50 | 239 | 116 | 9.06 | 20 | 0.03 | <10 |
| N438857 | | <0.5 | 6.47 | <5 | 80 | 0.5 | <2 | 5.56 | 0.6 | 38 | 4 | 23 | 10.35 | 20 | 0.11 | <10 |
| N438858 | | <0.5 | 6.47 | 7 | 100 | <0.5 | 2 | 3.67 | 0.6 | 46 | 82 | 52 | 12.05 | 20 | 0.20 | <10 |
| N438859 | | <0.5 | 8.22 | 40 | 120 | <0.5 | 2 | 3.72 | <0.5 | 62 | 179 | 164 | 9.98 | 20 | 0.13 | <10 |
| N438860 | | <0.5 | 6.81 | <5 | 80 | <0.5 | 2 | 7.01 | 0.5 | 41 | 163 | 106 | 7.82 | 10 | 0.32 | <10 |
| N438861 | | <0.5 | 7.34 | 13 | 30 | <0.5 | <2 | 7.19 | <0.5 | 44 | 174 | 155 | 7.74 | 20 | 0.02 | <10 |
| N438862 | | <0.5 | 6.53 | 7 | 50 | 0.6 | <2 | 4.86 | <0.5 | 34 | 83 | 123 | 8.06 | 20 | 0.02 | <10 |
| N438863 | | <0.5 | 7.42 | 7 | 20 | <0.5 | 5 | 7.52 | <0.5 | 44 | 216 | 127 | 7.69 | 20 | 0.03 | <10 |
| N438864 | | <0.5 | 7.20 | 6 | 30 | <0.5 | <2 | 4.85 | 0.9 | 58 | 118 | 145 | 11.85 | 20 | 0.03 | <10 |
| N438865 | | <0.5 | 7.82 | <5 | 60 | <0.5 | <2 | 4.17 | 0.6 | 54 | 129 | 95 | 10.65 | 20 | 0.03 | <10 |
| N438866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I272581 | | <0.5 | 7.32 | 8 | 4420 | 34.9 | <2 | 3.54 | <0.5 | 19 | 37 | 368 | 5.41 | 20 | 5.03 | 120 |
| I272582 | | <0.5 | 8.56 | 34 | 300 | 0.9 | <2 | 1.25 | <0.5 | 30 | 34 | 28 | 4.07 | 20 | 1.14 | 10 |
| I272583 | | <0.5 | 6.93 | 5 | 280 | 0.6 | <2 | 4.95 | <0.5 | 36 | 12 | 26 | 6.02 | 20 | 0.86 | 10 |
| N443754 | | <0.5 | 8.71 | <5 | 1480 | 7.3 | <2 | 0.97 | <0.5 | 6 | 25 | 14 | 2.24 | 30 | 4.41 | 70 |
| N443755 | | <0.5 | 8.66 | <5 | 1380 | 5.6 | <2 | 0.77 | <0.5 | 5 | 24 | 19 | 2.07 | 30 | 4.80 | 40 |
| N443756 | | <0.5 | 8.57 | <5 | 1410 | 5.5 | <2 | 0.85 | <0.5 | 4 | 22 | 18 | 2.15 | 30 | 4.47 | 50 |
| N443757 | | <0.5 | 8.72 | <5 | 1840 | 2.1 | <2 | 1.18 | <0.5 | 7 | 39 | 27 | 2.35 | 20 | 4.53 | 40 |
| N443758 | | <0.5 | 8.95 | <5 | 2790 | 0.8 | <2 | 1.72 | <0.5 | 10 | 60 | 15 | 2.59 | 20 | 4.03 | 30 |
| N443759 | | <0.5 | 9.13 | <5 | 3750 | 0.7 | <2 | 2.23 | <0.5 | 12 | 75 | 42 | 2.92 | 20 | 4.06 | 30 |
| N443760 | | <0.5 | 8.95 | <5 | 2040 | 1.8 | <2 | 1.11 | <0.5 | 7 | 42 | 14 | 2.20 | 20 | 4.63 | 40 |
| N443761 | | <0.5 | 8.86 | <5 | 2810 | 1.4 | <2 | 1.66 | <0.5 | 8 | 44 | 35 | 2.56 | 20 | 4.62 | 40 |
| N443762 | | <0.5 | 8.96 | <5 | 3930 | 1.0 | <2 | 1.89 | <0.5 | 9 | 49 | 13 | 2.68 | 20 | 4.51 | 40 |
| N443763 | | <0.5 | 8.73 | 5 | 1360 | 5.2 | <2 | 0.77 | <0.5 | 4 | 17 | 2 | 1.90 | 30 | 4.45 | 40 |
| N443764 | | <0.5 | 8.69 | <5 | 1640 | 2.3 | <2 | 0.77 | <0.5 | 5 | 25 | 23 | 1.95 | 30 | 4.79 | 30 |
| N443765 | | <0.5 | 8.44 | 5 | 3230 | 7.4 | <2 | 2.36 | <0.5 | 10 | 78 | 50 | 3.91 | 20 | 4.49 | 40 |
| N443766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443767 | | <0.5 | 8.83 | <5 | 1590 | 1.7 | <2 | 0.84 | <0.5 | 2 | 22 | 13 | 1.32 | 20 | 4.87 | 30 |
| N443768 | | <0.5 | 8.95 | <5 | 1180 | 1.7 | <2 | 1.40 | <0.5 | 2 | 21 | 8 | 1.68 | 30 | 3.35 | 60 |
| N443769 | | <0.5 | 8.94 | <5 | 1890 | 1.8 | <2 | 1.26 | <0.5 | 7 | 37 | 25 | 2.50 | 20 | 4.70 | 50 |
| N443770 | | <0.5 | 9.10 | <5 | 1540 | 2.7 | <2 | 1.30 | <0.5 | 6 | 31 | 31 | 2.42 | 30 | 4.74 | 60 |
| N443771 | | <0.5 | 8.91 | <5 | 2420 | 1.4 | <2 | 1.16 | <0.5 | 7 | 38 | 7 | 2.30 | 20 | 4.36 | 40 |
| N443772 | | <0.5 | 8.62 | <5 | 1760 | 3.3 | <2 | 1.15 | <0.5 | 9 | 45 | 27 | 2.98 | 30 | 4.08 | 60 |
| N443773 | | <0.5 | 8.51 | <5 | 200 | 1.4 | <2 | 0.37 | <0.5 | 8 | 98 | <1 | 1.88 | 30 | 0.05 | 60 |
| N443774 | | <0.5 | 8.93 | <5 | 1920 | 1.8 | <2 | 1.13 | <0.5 | 7 | 35 | 39 | 2.36 | 30 | 4.77 | 60 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N438851 | | 3.77 | 1680 | <1 | 1.86 | 83 | 790 | <2 | 0.14 | <5 | 41 | 265 | <20 | 1.17 | <10 | <10 |
| N438852 | | 3.00 | 2150 | <1 | 1.56 | 85 | 790 | <2 | 0.13 | <5 | 40 | 105 | <20 | 1.14 | <10 | <10 |
| N438853 | | 3.44 | 1295 | <1 | 1.71 | 69 | 320 | <2 | 0.02 | <5 | 41 | 178 | <20 | 0.67 | <10 | <10 |
| N438854 | | 4.31 | 1515 | <1 | 1.41 | 109 | 190 | 11 | 0.02 | <5 | 34 | 175 | <20 | 0.42 | <10 | <10 |
| N438855 | | 4.79 | 1995 | <1 | 1.61 | 114 | 200 | <2 | 0.07 | <5 | 36 | 82 | <20 | 0.47 | <10 | <10 |
| N438856 | | 3.78 | 1875 | <1 | 2.39 | 95 | 210 | <2 | 0.11 | <5 | 45 | 71 | <20 | 0.52 | <10 | <10 |
| N438857 | | 1.96 | 2040 | 1 | 1.37 | 13 | 750 | <2 | 0.04 | 7 | 42 | 229 | <20 | 1.33 | <10 | <10 |
| N438858 | | 3.37 | 1795 | <1 | 1.87 | 72 | 1210 | <2 | 0.21 | <5 | 44 | 77 | <20 | 1.55 | <10 | <10 |
| N438859 | | 3.61 | 2270 | <1 | 2.97 | 182 | 320 | <2 | 0.20 | <5 | 36 | 58 | <20 | 0.81 | <10 | <10 |
| N438860 | | 4.45 | 1330 | 1 | 1.33 | 68 | 190 | <2 | 0.07 | <5 | 43 | 96 | <20 | 0.45 | <10 | <10 |
| N438861 | | 3.98 | 1445 | <1 | 1.36 | 102 | 380 | <2 | 0.09 | <5 | 40 | 159 | <20 | 0.69 | <10 | <10 |
| N438862 | | 3.09 | 1150 | <1 | 2.52 | 41 | 330 | <2 | 0.08 | <5 | 39 | 295 | <20 | 0.62 | <10 | <10 |
| N438863 | | 4.73 | 1345 | <1 | 1.03 | 104 | 200 | <2 | 0.17 | <5 | 38 | 160 | <20 | 0.45 | <10 | <10 |
| N438864 | | 3.39 | 2270 | <1 | 1.89 | 83 | 820 | 5 | 0.12 | <5 | 43 | 193 | <20 | 1.20 | <10 | <10 |
| N438865 | | 2.82 | 1885 | <1 | 3.25 | 90 | 940 | <2 | 0.13 | <5 | 47 | 77 | <20 | 1.30 | <10 | <10 |
| N438866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I272581 | | 1.30 | 1455 | <1 | 0.11 | 21 | 2520 | 37 | 0.37 | <5 | 12 | 2310 | 30 | 0.54 | <10 | <10 |
| I272582 | | 0.14 | 1120 | 1 | 2.84 | 40 | 810 | 4 | 0.01 | <5 | 12 | 176 | <20 | 0.20 | <10 | <10 |
| I272583 | | 0.76 | 1930 | <1 | 1.88 | 14 | 900 | 5 | 0.56 | <5 | 12 | 215 | <20 | 0.16 | <10 | 10 |
| N443754 | | 0.55 | 653 | <1 | 5.03 | 10 | 520 | 63 | 0.01 | <5 | 3 | 1050 | 60 | 0.22 | 10 | <10 |
| N443755 | | 0.49 | 499 | <1 | 4.85 | 8 | 420 | 43 | 0.01 | <5 | 3 | 898 | 30 | 0.21 | <10 | <10 |
| N443756 | | 0.53 | 488 | <1 | 4.93 | 10 | 490 | 28 | 0.02 | <5 | 3 | 971 | 30 | 0.21 | <10 | <10 |
| N443757 | | 0.74 | 407 | 1 | 4.63 | 15 | 710 | 36 | 0.02 | <5 | 4 | 1180 | <20 | 0.21 | <10 | <10 |
| N443758 | | 1.03 | 516 | <1 | 4.72 | 24 | 900 | 19 | <0.01 | <5 | 5 | 2200 | <20 | 0.24 | <10 | <10 |
| N443759 | | 1.37 | 603 | <1 | 4.67 | 28 | 1210 | 22 | 0.01 | <5 | 7 | 2920 | <20 | 0.25 | <10 | <10 |
| N443760 | | 0.79 | 509 | <1 | 4.87 | 15 | 720 | 23 | <0.01 | <5 | 4 | 1080 | <20 | 0.20 | <10 | <10 |
| N443761 | | 0.87 | 541 | <1 | 4.68 | 18 | 860 | 25 | 0.01 | <5 | 5 | 1880 | <20 | 0.22 | <10 | <10 |
| N443762 | | 0.92 | 560 | <1 | 4.43 | 19 | 930 | 26 | 0.01 | <5 | 6 | 2860 | <20 | 0.25 | <10 | <10 |
| N443763 | | 0.40 | 397 | <1 | 5.13 | 6 | 370 | 60 | <0.01 | <5 | 2 | 881 | 30 | 0.19 | <10 | <10 |
| N443764 | | 0.52 | 374 | <1 | 4.93 | 9 | 370 | 25 | <0.01 | <5 | 3 | 987 | <20 | 0.21 | <10 | <10 |
| N443765 | | 1.93 | 884 | 1 | 3.93 | 26 | 1930 | 55 | 0.63 | <5 | 11 | 2170 | 30 | 0.33 | <10 | <10 |
| N443766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443767 | | 0.30 | 295 | <1 | 4.83 | 6 | 500 | 14 | 0.02 | <5 | 2 | 545 | <20 | 0.06 | <10 | <10 |
| N443768 | | 0.64 | 641 | <1 | 5.59 | 13 | 200 | 15 | 0.01 | <5 | 3 | 547 | <20 | 0.12 | <10 | <10 |
| N443769 | | 0.69 | 493 | <1 | 4.65 | 15 | 690 | 34 | 0.01 | 5 | 4 | 1060 | <20 | 0.25 | <10 | <10 |
| N443770 | | 0.60 | 644 | <1 | 4.98 | 11 | 630 | 29 | <0.01 | <5 | 4 | 1060 | <20 | 0.24 | <10 | <10 |
| N443771 | | 0.71 | 472 | <1 | 4.81 | 14 | 710 | 27 | 0.01 | <5 | 4 | 1730 | <20 | 0.22 | <10 | <10 |
| N443772 | | 0.83 | 646 | <1 | 4.87 | 17 | 760 | 31 | 0.01 | <5 | 5 | 1090 | 30 | 0.30 | <10 | <10 |
| N443773 | | 3.51 | 151 | <1 | 6.27 | 21 | 1700 | 7 | 0.01 | <5 | 7 | 230 | 20 | 0.13 | <10 | <10 |
| N443774 | | 0.73 | 643 | <1 | 4.82 | 15 | 720 | 24 | <0.01 | <5 | 4 | 1260 | <20 | 0.23 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|
| N438851 | | 416 | <10 | 119 |
| N438852 | | 406 | <10 | 118 |
| N438853 | | 354 | <10 | 70 |
| N438854 | | 244 | <10 | 101 |
| N438855 | | 265 | <10 | 73 |
| N438856 | | 313 | <10 | 80 |
| N438857 | | 415 | <10 | 105 |
| N438858 | | 439 | <10 | 145 |
| N438859 | | 346 | <10 | 122 |
| N438860 | | 263 | <10 | 70 |
| N438861 | | 318 | <10 | 73 |
| N438862 | | 305 | <10 | 71 |
| N438863 | | 256 | <10 | 70 |
| N438864 | | 446 | <10 | 145 |
| N438865 | | 472 | <10 | 129 |
| N438866 | | NSS | NSS | NSS |
| I272581 | | 380 | <10 | 62 |
| I272582 | | 75 | <10 | 90 |
| I272583 | | 80 | <10 | 123 |
| N443754 | | 55 | <10 | 82 |
| N443755 | | 51 | <10 | 51 |
| N443756 | | 54 | <10 | 51 |
| N443757 | | 63 | <10 | 55 |
| N443758 | | 69 | <10 | 56 |
| N443759 | | 79 | <10 | 68 |
| N443760 | | 57 | <10 | 59 |
| N443761 | | 66 | <10 | 63 |
| N443762 | | 72 | <10 | 59 |
| N443763 | | 48 | <10 | 49 |
| N443764 | | 52 | <10 | 50 |
| N443765 | | 118 | <10 | 103 |
| N443766 | | NSS | NSS | NSS |
| N443767 | | 38 | <10 | 7 |
| N443768 | | 42 | <10 | 12 |
| N443769 | | 65 | <10 | 101 |
| N443770 | | 60 | <10 | 77 |
| N443771 | | 60 | <10 | 65 |
| N443772 | | 78 | <10 | 70 |
| N443773 | | 74 | <10 | 28 |
| N443774 | | 62 | <10 | 77 |

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# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N443775 | | <0.5 | 8.35 | <5 | 1520 | 4.7 | <2 | 1.05 | <0.5 | 5 | 25 | 18 | 2.07 | 30 | 4.51 | 50 |
| N443776 | | <0.5 | 8.51 | <5 | 1700 | 8.9 | <2 | 1.20 | <0.5 | 5 | 38 | 18 | 2.57 | 30 | 4.55 | 30 |
| N443777 | | <0.5 | 8.77 | <5 | 1480 | 2.4 | <2 | 1.09 | <0.5 | 7 | 26 | 14 | 2.32 | 30 | 4.74 | 60 |
| N459185 | | <0.5 | 6.98 | <5 | 210 | 0.5 | <2 | 4.48 | 0.6 | 49 | 49 | 108 | 11.15 | 20 | 0.69 | <10 |
| N459186 | | <0.5 | 8.63 | <5 | 240 | 0.5 | <2 | 4.83 | <0.5 | 38 | 344 | 124 | 6.76 | 10 | 0.46 | <10 |
| N459187 | | <0.5 | 5.72 | 25 | 50 | <0.5 | <2 | 5.08 | <0.5 | 69 | 815 | 5 | 8.28 | 10 | 0.15 | <10 |
| N459188 | | <0.5 | 7.21 | <5 | 140 | <0.5 | <2 | 6.89 | <0.5 | 52 | 319 | 72 | 6.87 | 10 | 0.24 | <10 |
| N459189 | | <0.5 | 7.46 | <5 | 110 | <0.5 | <2 | 6.97 | 0.6 | 52 | 75 | 94 | 8.67 | 20 | 0.47 | <10 |
| N459190 | | <0.5 | 6.99 | <5 | 220 | 1.0 | <2 | 3.51 | 0.7 | 19 | 6 | 24 | 11.20 | 20 | 0.72 | 10 |
| N459191 | | <0.5 | 8.76 | 8 | 270 | <0.5 | <2 | 7.37 | <0.5 | 44 | 311 | 80 | 6.47 | 20 | 0.47 | <10 |
| N459192 | | <0.5 | 7.19 | <5 | 190 | <0.5 | <2 | 5.91 | 0.5 | 42 | 234 | 24 | 7.01 | 20 | 0.61 | <10 |
| N459193 | | <0.5 | 6.78 | <5 | 180 | 0.5 | <2 | 4.69 | 0.7 | 44 | 15 | 65 | 10.55 | 20 | 0.56 | <10 |
| N459194 | | <0.5 | 6.17 | <5 | 300 | <0.5 | <2 | 4.11 | <0.5 | 54 | 344 | 118 | 8.57 | 10 | 0.61 | <10 |
| N459195 | | <0.5 | 7.34 | <5 | 50 | <0.5 | <2 | 7.82 | 0.6 | 54 | 103 | 161 | 9.67 | 30 | 0.13 | <10 |
| N459196 | | <0.5 | 7.62 | <5 | 60 | <0.5 | <2 | 6.58 | 0.5 | 53 | 211 | 145 | 8.03 | 20 | 0.05 | <10 |
| N459197 | | <0.5 | 7.32 | <5 | 70 | <0.5 | <2 | 8.44 | 0.5 | 52 | 103 | 133 | 7.57 | 20 | 0.24 | <10 |
| N459198 | | <0.5 | 8.20 | <5 | 370 | <0.5 | <2 | 4.17 | <0.5 | 56 | 132 | 200 | 6.58 | 20 | 1.05 | <10 |
| N459199 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459200 | | <0.5 | 7.06 | 6 | 110 | <0.5 | <2 | 7.40 | <0.5 | 30 | 76 | 35 | 7.86 | 30 | 0.23 | <10 |
| N459201 | | <0.5 | 6.23 | <5 | 30 | <0.5 | <2 | 4.31 | <0.5 | 54 | 597 | 63 | 7.39 | 10 | 0.04 | <10 |
| N459202 | | <0.5 | 7.87 | <5 | 70 | 0.5 | <2 | 8.62 | 0.7 | 56 | 266 | 132 | 10.20 | 20 | 0.49 | <10 |
| N459203 | | <0.5 | 8.95 | <5 | 350 | 0.6 | <2 | 7.50 | <0.5 | 50 | 354 | 66 | 7.01 | 20 | 0.98 | <10 |
| N459204 | | <0.5 | 8.58 | <5 | 190 | <0.5 | <2 | 7.51 | <0.5 | 50 | 340 | 100 | 7.11 | 20 | 1.68 | <10 |
| N459205 | | <0.5 | 8.02 | 7 | 2860 | 1.8 | <2 | 2.88 | <0.5 | 15 | 69 | 63 | 3.83 | 20 | 4.80 | 60 |
| N459206 | | <0.5 | 8.22 | <5 | 2360 | 2.0 | <2 | 1.98 | <0.5 | 9 | 47 | 40 | 2.90 | 20 | 4.33 | 50 |
| N459207 | | <0.5 | 7.39 | 5 | 3210 | 1.9 | <2 | 3.56 | <0.5 | 19 | 69 | 42 | 4.57 | 20 | 4.67 | 70 |
| N459208 | | <0.5 | 7.19 | <5 | 3130 | 2.2 | <2 | 3.93 | <0.5 | 20 | 67 | 57 | 4.79 | 20 | 4.64 | 70 |
| N459209 | | <0.5 | 7.48 | <5 | 2900 | 2.4 | <2 | 4.07 | <0.5 | 21 | 70 | 129 | 5.07 | 20 | 4.68 | 70 |
| N459210 | | <0.5 | 7.74 | <5 | 3250 | 1.9 | <2 | 4.07 | <0.5 | 21 | 68 | 27 | 4.82 | 20 | 4.86 | 60 |
| N459211 | | <0.5 | 4.48 | <5 | 70 | <0.5 | <2 | 5.87 | 0.5 | 83 | 1415 | 8 | 7.78 | 10 | 0.57 | <10 |
| N459212 | | <0.5 | 6.83 | <5 | 140 | <0.5 | <2 | 5.30 | 0.6 | 46 | 82 | 74 | 8.99 | 20 | 0.35 | <10 |
| N459213 | | <0.5 | 5.44 | 16 | 30 | <0.5 | <2 | 5.27 | <0.5 | 66 | 935 | 79 | 7.32 | 10 | 0.03 | <10 |
| N459214 | | <0.5 | 8.30 | <5 | 180 | <0.5 | <2 | 6.14 | <0.5 | 54 | 129 | 123 | 7.22 | 20 | 0.46 | <10 |
| N459215 | | <0.5 | 6.89 | <5 | 430 | <0.5 | <2 | 7.54 | 0.6 | 57 | 89 | 55 | 8.31 | 20 | 0.65 | <10 |
| N459216 | | <0.5 | 6.73 | <5 | 50 | <0.5 | <2 | 4.38 | 0.6 | 52 | 316 | 56 | 12.20 | 20 | 0.14 | <10 |
| N459217 | | <0.5 | 7.80 | <5 | 110 | <0.5 | <2 | 6.00 | <0.5 | 56 | 109 | 107 | 8.78 | 20 | 0.29 | <10 |
| N459218 | | <0.5 | 6.93 | <5 | 330 | <0.5 | <2 | 6.17 | <0.5 | 49 | 70 | 138 | 9.04 | 20 | 0.27 | <10 |
| N459219 | | <0.5 | 6.01 | <5 | 1130 | 1.4 | <2 | 6.01 | <0.5 | 36 | 260 | 120 | 6.04 | 20 | 1.64 | 80 |
| N459220 | | <0.5 | 4.57 | <5 | 170 | <0.5 | <2 | 5.32 | <0.5 | 74 | 1555 | 15 | 7.81 | 10 | 0.25 | <10 |
| N459221 | | <0.5 | 4.09 | 10 | 10 | <0.5 | <2 | 5.20 | 0.6 | 74 | 1825 | 7 | 7.50 | 10 | 0.01 | <10 |

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

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N443775 | | 0.55 | 593 | <1 | 4.76 | 11 | 500 | 29 | 0.01 | <5 | 3 | 909 | 20 | 0.21 | <10 | <10 |
| N443776 | | 0.76 | 619 | <1 | 4.69 | 12 | 670 | 65 | 0.02 | <5 | 5 | 1220 | 50 | 0.23 | <10 | <10 |
| N443777 | | 0.59 | 754 | <1 | 4.98 | 11 | 590 | 26 | <0.01 | <5 | 3 | 998 | <20 | 0.24 | <10 | <10 |
| N459185 | | 3.57 | 1605 | 27 | 1.95 | 46 | 660 | 6 | 0.20 | <5 | 39 | 151 | <20 | 0.90 | <10 | <10 |
| N459186 | | 4.54 | 1200 | <1 | 3.25 | 104 | 240 | 2 | 0.04 | <5 | 40 | 200 | <20 | 0.35 | <10 | <10 |
| N459187 | | 9.65 | 1450 | <1 | 1.26 | 442 | 270 | 2 | <0.01 | <5 | 32 | 67 | <20 | 0.32 | <10 | <10 |
| N459188 | | 3.57 | 1505 | 1 | 2.32 | 113 | 310 | <2 | 0.01 | <5 | 39 | 174 | <20 | 0.43 | <10 | <10 |
| N459189 | | 4.03 | 1475 | <1 | 1.61 | 80 | 350 | <2 | <0.01 | <5 | 45 | 161 | <20 | 0.65 | <10 | <10 |
| N459190 | | 1.30 | 3070 | <1 | 1.15 | 1 | 1600 | 3 | 0.21 | <5 | 36 | 134 | <20 | 1.02 | <10 | <10 |
| N459191 | | 4.67 | 1195 | <1 | 1.48 | 228 | 200 | <2 | 0.04 | <5 | 23 | 155 | <20 | 0.28 | <10 | <10 |
| N459192 | | 4.18 | 1910 | <1 | 2.32 | 67 | 360 | <2 | <0.01 | <5 | 39 | 197 | <20 | 0.44 | <10 | <10 |
| N459193 | | 2.95 | 1345 | 3 | 1.82 | 47 | 510 | <2 | 0.43 | <5 | 45 | 146 | <20 | 0.87 | <10 | <10 |
| N459194 | | 6.01 | 1180 | 2 | 2.38 | 101 | 250 | <2 | 0.17 | <5 | 44 | 50 | <20 | 0.44 | <10 | <10 |
| N459195 | | 3.72 | 1705 | 1 | 0.83 | 70 | 330 | <2 | 0.46 | <5 | 43 | 173 | <20 | 0.50 | <10 | <10 |
| N459196 | | 3.60 | 1810 | 1 | 1.83 | 103 | 370 | <2 | 0.05 | <5 | 44 | 138 | <20 | 0.65 | <10 | <10 |
| N459197 | | 2.98 | 2120 | 1 | 0.95 | 83 | 350 | <2 | 0.28 | <5 | 45 | 246 | <20 | 0.51 | <10 | <10 |
| N459198 | | 4.13 | 1500 | 1 | 2.62 | 77 | 420 | <2 | 0.79 | <5 | 53 | 157 | <20 | 0.54 | <10 | <10 |
| N459199 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459200 | | 2.30 | 1235 | 1 | 1.47 | 56 | 550 | <2 | 0.03 | <5 | 38 | 149 | <20 | 0.59 | <10 | <10 |
| N459201 | | 6.12 | 1175 | <1 | 2.85 | 162 | 250 | <2 | 0.13 | <5 | 37 | 71 | <20 | 0.38 | <10 | <10 |
| N459202 | | 5.14 | 1680 | 1 | 2.30 | 141 | 270 | <2 | 0.04 | <5 | 50 | 198 | <20 | 0.59 | <10 | <10 |
| N459203 | | 5.19 | 1115 | <1 | 2.10 | 277 | 130 | 2 | 0.06 | <5 | 25 | 568 | <20 | 0.36 | <10 | <10 |
| N459204 | | 5.31 | 1305 | <1 | 1.34 | 265 | 160 | <2 | 0.03 | <5 | 25 | 188 | <20 | 0.35 | 10 | <10 |
| N459205 | | 1.61 | 894 | <1 | 3.75 | 24 | 1820 | 16 | <0.01 | <5 | 10 | 1970 | <20 | 0.28 | <10 | <10 |
| N459206 | | 1.04 | 649 | <1 | 4.36 | 17 | 1200 | 19 | <0.01 | <5 | 6 | 1770 | <20 | 0.23 | <10 | <10 |
| N459207 | | 1.98 | 957 | <1 | 3.36 | 26 | 2480 | 14 | <0.01 | <5 | 13 | 2270 | <20 | 0.36 | <10 | <10 |
| N459208 | | 2.11 | 1055 | 1 | 3.13 | 26 | 2680 | 14 | <0.01 | <5 | 14 | 2200 | <20 | 0.39 | <10 | <10 |
| N459209 | | 2.34 | 1120 | 1 | 3.24 | 26 | 2860 | 13 | 0.01 | <5 | 15 | 1960 | <20 | 0.39 | <10 | <10 |
| N459210 | | 2.59 | 1345 | 1 | 2.81 | 25 | 2700 | 12 | <0.01 | <5 | 14 | 2130 | <20 | 0.33 | <10 | <10 |
| N459211 | | 11.40 | 1565 | <1 | 0.39 | 652 | 150 | <2 | 0.12 | <5 | 29 | 54 | <20 | 0.24 | <10 | <10 |
| N459212 | | 4.00 | 1555 | 1 | 2.16 | 52 | 350 | <2 | 0.04 | <5 | 40 | 173 | <20 | 0.49 | 10 | <10 |
| N459213 | | 7.97 | 1280 | <1 | 2.15 | 458 | 150 | <2 | 0.16 | <5 | 35 | 23 | <20 | 0.29 | <10 | <10 |
| N459214 | | 2.06 | 1625 | 2 | 3.11 | 113 | 520 | <2 | 0.28 | <5 | 53 | 166 | <20 | 0.84 | <10 | <10 |
| N459215 | | 5.58 | 1685 | 10 | 1.03 | 182 | 290 | <2 | 0.09 | <5 | 33 | 181 | <20 | 0.29 | <10 | <10 |
| N459216 | | 6.35 | 2690 | <1 | 0.84 | 95 | 360 | <2 | 0.30 | <5 | 34 | 83 | <20 | 0.46 | <10 | <10 |
| N459217 | | 3.70 | 1915 | <1 | 2.72 | 76 | 340 | <2 | 0.04 | <5 | 50 | 166 | <20 | 0.55 | <10 | <10 |
| N459218 | | 4.40 | 1345 | 1 | 2.77 | 82 | 260 | <2 | 0.39 | <5 | 44 | 307 | <20 | 0.45 | <10 | <10 |
| N459219 | | 3.88 | 1240 | <1 | 3.31 | 77 | 3050 | 4 | 0.92 | <5 | 24 | 666 | <20 | 0.26 | <10 | <10 |
| N459220 | | 13.00 | 1345 | <1 | 0.19 | 821 | 130 | <2 | 0.09 | <5 | 28 | 56 | <20 | 0.24 | <10 | <10 |
| N459221 | | 13.10 | 1260 | <1 | 0.10 | 849 | 120 | <2 | <0.01 | <5 | 27 | 12 | <20 | 0.23 | <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 SD14042821

| 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 |
|---|---|---|---|---|
| N443775 | | 52 | <10 | 61 |
| N443776 | | 68 | <10 | 77 |
| N443777 | | 60 | <10 | 59 |
| N459185 | | 335 | <10 | 122 |
| N459186 | | 231 | <10 | 85 |
| N459187 | | 193 | <10 | 92 |
| N459188 | | 233 | <10 | 73 |
| N459189 | | 312 | <10 | 98 |
| N459190 | | 66 | <10 | 172 |
| N459191 | | 177 | <10 | 72 |
| N459192 | | 240 | <10 | 89 |
| N459193 | | 390 | <10 | 99 |
| N459194 | | 248 | <10 | 99 |
| N459195 | | 294 | <10 | 107 |
| N459196 | | 317 | <10 | 82 |
| N459197 | | 287 | <10 | 83 |
| N459198 | | 331 | <10 | 139 |
| N459199 | | NSS | NSS | NSS |
| N459200 | | 271 | <10 | 89 |
| N459201 | | 234 | <10 | 86 |
| N459202 | | 334 | <10 | 110 |
| N459203 | | 201 | <10 | 93 |
| N459204 | | 203 | <10 | 79 |
| N459205 | | 103 | <10 | 101 |
| N459206 | | 79 | <10 | 78 |
| N459207 | | 135 | <10 | 102 |
| N459208 | | 140 | <10 | 100 |
| N459209 | | 141 | <10 | 113 |
| N459210 | | 133 | <10 | 144 |
| N459211 | | 187 | <10 | 76 |
| N459212 | | 272 | <10 | 95 |
| N459213 | | 198 | <10 | 77 |
| N459214 | | 349 | <10 | 101 |
| N459215 | | 197 | <10 | 85 |
| N459216 | | 289 | <10 | 123 |
| N459217 | | 321 | <10 | 90 |
| N459218 | | 286 | <10 | 70 |
| N459219 | | 185 | 10 | 77 |
| N459220 | | 162 | <10 | 85 |
| N459221 | | 161 | <10 | 74 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459222 | | <0.5 | 4.18 | <5 | 50 | <0.5 | <2 | 5.12 | 0.5 | 73 | 1680 | 29 | 7.40 | 10 | 0.12 | <10 |
| N459223 | | <0.5 | 5.15 | <5 | 50 | <0.5 | <2 | 5.44 | <0.5 | 59 | 852 | 10 | 7.83 | 10 | 0.11 | <10 |
| N459224 | | <0.5 | 4.30 | <5 | 40 | <0.5 | <2 | 4.11 | <0.5 | 86 | 1765 | 55 | 7.72 | 10 | 0.30 | <10 |
| N459225 | | <0.5 | 4.19 | 6 | 10 | <0.5 | <2 | 4.39 | 0.7 | 78 | 1625 | 29 | 7.56 | 10 | 0.05 | <10 |
| N459226 | | <0.5 | 7.18 | <5 | 50 | <0.5 | <2 | 5.59 | <0.5 | 56 | 389 | 84 | 8.09 | 10 | 0.10 | <10 |
| N459227 | | <0.5 | 5.57 | <5 | 90 | <0.5 | 3 | 6.59 | <0.5 | 76 | 940 | 41 | 8.94 | 10 | 0.21 | <10 |
| N459228 | | <0.5 | 4.51 | <5 | 90 | <0.5 | <2 | 5.44 | 0.5 | 77 | 1180 | 4 | 7.79 | 10 | 0.19 | <10 |
| N459229 | | <0.5 | 5.46 | <5 | 30 | <0.5 | <2 | 5.83 | <0.5 | 65 | 927 | 19 | 7.98 | 10 | 0.11 | <10 |
| N459230 | | <0.5 | 2.37 | <5 | 40 | <0.5 | <2 | 4.43 | <0.5 | 87 | 1240 | 11 | 6.39 | 10 | 0.01 | <10 |
| N459231 | | <0.5 | 6.94 | <5 | 280 | <0.5 | <2 | 5.39 | <0.5 | 51 | 184 | 111 | 9.44 | 20 | 0.75 | <10 |
| N459232 | | <0.5 | 5.49 | <5 | 130 | <0.5 | <2 | 6.92 | <0.5 | 68 | 858 | 31 | 8.98 | 10 | 0.35 | <10 |
| N459233 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459234 | | <0.5 | 7.74 | <5 | 550 | 1.1 | <2 | 6.87 | <0.5 | 34 | 230 | 73 | 6.08 | 20 | 0.49 | 60 |
| N459235 | | <0.5 | 3.76 | <5 | 40 | <0.5 | <2 | 4.84 | 0.5 | 88 | 1550 | 84 | 7.56 | 10 | 0.06 | <10 |
| N459236 | | <0.5 | 5.63 | <5 | 30 | 0.9 | <2 | 5.89 | <0.5 | 76 | 798 | 28 | 9.49 | 20 | 0.04 | <10 |
| N459237 | | <0.5 | 6.34 | <5 | 160 | <0.5 | <2 | 6.88 | <0.5 | 58 | 478 | 75 | 8.47 | 10 | 0.17 | <10 |
| N459238 | | <0.5 | 6.52 | <5 | 130 | <0.5 | <2 | 8.07 | 0.5 | 52 | 271 | 67 | 8.24 | 20 | 0.44 | <10 |
| N459239 | | <0.5 | 5.24 | <5 | 80 | <0.5 | <2 | 8.11 | 0.6 | 58 | 495 | 56 | 8.22 | 20 | 0.42 | <10 |
| N459240 | | <0.5 | 7.38 | <5 | 160 | <0.5 | <2 | 7.50 | <0.5 | 44 | 214 | 46 | 9.05 | 20 | 0.60 | <10 |
| N459241 | | <0.5 | 6.12 | <5 | 90 | <0.5 | <2 | 5.17 | <0.5 | 36 | 153 | 77 | 7.42 | 20 | 0.26 | <10 |
| N459242 | | 0.6 | 7.84 | 23 | 40 | <0.5 | <2 | 5.19 | 82.7 | 97 | 121 | 468 | 7.51 | 20 | 0.12 | 10 |
| N459243 | | <0.5 | 7.72 | 7 | 2480 | 1.8 | <2 | 2.72 | <0.5 | 27 | 180 | 53 | 5.03 | 20 | 3.82 | 40 |
| N459244 | | <0.5 | 7.32 | 5 | 940 | 1.1 | 2 | 2.41 | <0.5 | 32 | 126 | 9 | 3.32 | 20 | 2.01 | 20 |
| N459245 | | <0.5 | 6.75 | 64 | 1190 | 1.1 | <2 | 2.47 | <0.5 | 14 | 98 | 27 | 2.79 | 20 | 2.34 | 20 |
| N459246 | | <0.5 | 7.81 | 7 | 910 | 1.2 | <2 | 2.95 | <0.5 | 15 | 73 | 4 | 3.40 | 20 | 1.67 | 20 |
| N459247 | | <0.5 | 7.44 | 6 | 1280 | 1.5 | 2 | 1.77 | <0.5 | 18 | 77 | 16 | 3.21 | 20 | 1.94 | 20 |
| N459248 | | <0.5 | 8.05 | <5 | 190 | 1.8 | 2 | 1.86 | <0.5 | 11 | 69 | 42 | 2.64 | 20 | 0.59 | 60 |
| N459249 | | <0.5 | 6.82 | <5 | 410 | 0.6 | <2 | 6.60 | <0.5 | 39 | 154 | 83 | 7.06 | 20 | 0.68 | <10 |
| N459250 | | <0.5 | 8.50 | <5 | 80 | 1.5 | 2 | 1.09 | <0.5 | 7 | 36 | 1 | 2.19 | 20 | 0.07 | 40 |
| N459251 | | <0.5 | 8.97 | <5 | 2340 | 1.3 | <2 | 1.39 | <0.5 | 10 | 47 | 36 | 2.66 | 20 | 4.85 | 50 |
| N459252 | | <0.5 | 8.68 | <5 | 2030 | 1.6 | <2 | 0.99 | <0.5 | 7 | 51 | 5 | 2.70 | 20 | 4.03 | 40 |
| N459253 | | <0.5 | 8.66 | <5 | 1900 | 1.6 | <2 | 1.66 | <0.5 | 11 | 54 | 11 | 3.10 | 20 | 4.36 | 50 |
| N459254 | | <0.5 | 8.26 | <5 | 1650 | 1.2 | <2 | 1.22 | <0.5 | 8 | 35 | 33 | 2.36 | 20 | 4.36 | 40 |
| N459255 | | <0.5 | 8.06 | <5 | 1770 | 2.2 | <2 | 1.23 | <0.5 | 9 | 33 | 35 | 2.31 | 20 | 4.90 | 50 |
| N459256 | | <0.5 | 8.19 | <5 | 1420 | 1.3 | 2 | 1.02 | <0.5 | 5 | 61 | 50 | 2.63 | 20 | 4.49 | 40 |
| N459257 | | <0.5 | 8.72 | <5 | 1680 | 1.2 | <2 | 1.45 | <0.5 | 8 | 42 | 22 | 2.35 | 20 | 3.84 | 40 |
| N459258 | | <0.5 | 5.32 | <5 | 140 | <0.5 | <2 | 9.97 | <0.5 | 86 | 1360 | 127 | 8.30 | 10 | 0.19 | <10 |
| N459259 | | <0.5 | 8.34 | <5 | 1050 | 1.0 | 2 | 1.13 | <0.5 | 10 | 45 | 15 | 2.88 | 20 | 1.82 | 40 |
| N459260 | | <0.5 | 8.10 | <5 | 2610 | 2.0 | <2 | 2.37 | <0.5 | 13 | 62 | 40 | 3.50 | 20 | 4.16 | 50 |
| N459261 | | <0.5 | 8.58 | <5 | 2300 | 1.8 | <2 | 1.52 | <0.5 | 8 | 44 | 18 | 2.57 | 20 | 4.50 | 40 |

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

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

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N459222 | | 13.55 | 1295 | 5 | 0.17 | 961 | 100 | <2 | 0.03 | <5 | 27 | 49 | <20 | 0.23 | <10 | <10 |
| N459223 | | 9.10 | 1395 | <1 | 1.69 | 397 | 200 | <2 | 0.01 | <5 | 32 | 93 | <20 | 0.30 | <10 | <10 |
| N459224 | | 13.35 | 1415 | <1 | 0.19 | 1015 | 110 | <2 | <0.01 | <5 | 28 | 30 | <20 | 0.24 | <10 | <10 |
| N459225 | | 14.55 | 1300 | <1 | 0.20 | 844 | 130 | <2 | <0.01 | <5 | 26 | 26 | <20 | 0.23 | <10 | <10 |
| N459226 | | 4.81 | 1315 | <1 | 3.08 | 132 | 180 | <2 | 0.18 | <5 | 43 | 252 | <20 | 0.37 | <10 | <10 |
| N459227 | | 9.34 | 1580 | <1 | 1.16 | 377 | 180 | 4 | 0.02 | 6 | 37 | 75 | <20 | 0.34 | <10 | <10 |
| N459228 | | 13.35 | 1340 | <1 | 0.25 | 920 | 120 | <2 | 0.03 | <5 | 31 | 38 | <20 | 0.30 | <10 | <10 |
| N459229 | | 9.33 | 1520 | <1 | 1.79 | 525 | 190 | 2 | 0.01 | <5 | 33 | 114 | <20 | 0.31 | <10 | <10 |
| N459230 | | 16.95 | 1065 | <1 | 0.13 | 1510 | 110 | 7 | 0.08 | <5 | 17 | 102 | <20 | 0.13 | <10 | <10 |
| N459231 | | 4.62 | 1705 | <1 | 2.58 | 90 | 230 | 6 | 0.44 | 6 | 40 | 178 | <20 | 0.45 | <10 | <10 |
| N459232 | | 8.95 | 1605 | <1 | 1.23 | 376 | 180 | 3 | 0.01 | <5 | 38 | 140 | <20 | 0.38 | <10 | <10 |
| N459233 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459234 | | 4.43 | 1110 | <1 | 3.47 | 101 | 1620 | 10 | 0.44 | 6 | 24 | 1185 | 20 | 0.38 | <10 | <10 |
| N459235 | | 15.55 | 1220 | <1 | 0.35 | 1100 | 130 | 2 | 0.13 | <5 | 25 | 50 | <20 | 0.20 | <10 | <10 |
| N459236 | | 12.65 | 1975 | <1 | 0.64 | 470 | 270 | <2 | 0.02 | 11 | 36 | 15 | <20 | 0.35 | <10 | <10 |
| N459237 | | 6.04 | 1535 | <1 | 1.72 | 171 | 220 | <2 | 0.14 | <5 | 40 | 128 | <20 | 0.41 | <10 | <10 |
| N459238 | | 6.79 | 1545 | <1 | 1.34 | 93 | 210 | <2 | 0.02 | <5 | 42 | 330 | <20 | 0.40 | <10 | <10 |
| N459239 | | 6.64 | 1570 | <1 | 0.63 | 184 | 170 | 2 | 0.04 | 7 | 34 | 108 | <20 | 0.34 | <10 | <10 |
| N459240 | | 4.38 | 1545 | 1 | 2.28 | 99 | 350 | 4 | 0.05 | <5 | 44 | 335 | <20 | 0.58 | <10 | <10 |
| N459241 | | 3.49 | 2260 | <1 | 1.83 | 60 | 460 | <2 | 0.01 | <5 | 34 | 123 | <20 | 0.47 | <10 | <10 |
| N459242 | | 1.70 | 1075 | 4 | 1.95 | 132 | 500 | 5 | 2.15 | 11 | 24 | 170 | <20 | 0.38 | <10 | <10 |
| N459243 | | 3.26 | 751 | <1 | 3.56 | 66 | 2110 | 21 | 0.35 | <5 | 15 | 656 | <20 | 0.40 | <10 | <10 |
| N459244 | | 1.71 | 661 | <1 | 4.31 | 73 | 840 | 12 | 1.00 | <5 | 9 | 480 | <20 | 0.13 | <10 | <10 |
| N459245 | | 1.36 | 482 | <1 | 2.63 | 46 | 820 | 9 | 0.91 | 5 | 7 | 547 | <20 | 0.21 | <10 | <10 |
| N459246 | | 1.65 | 614 | <1 | 3.44 | 55 | 910 | 4 | 0.11 | <5 | 9 | 586 | <20 | 0.27 | <10 | <10 |
| N459247 | | 1.80 | 477 | <1 | 3.89 | 48 | 710 | 13 | 0.14 | <5 | 10 | 635 | <20 | 0.19 | <10 | <10 |
| N459248 | | 0.88 | 595 | <1 | 6.36 | 28 | 1300 | 4 | 0.40 | 6 | 7 | 265 | 20 | 0.13 | <10 | <10 |
| N459249 | | 3.71 | 1930 | <1 | 1.41 | 64 | 470 | <2 | 0.01 | 6 | 37 | 215 | <20 | 0.39 | <10 | <10 |
| N459250 | | 1.12 | 213 | <1 | 6.92 | 15 | 810 | 12 | <0.01 | 5 | 4 | 699 | <20 | 0.12 | <10 | <10 |
| N459251 | | 0.70 | 485 | <1 | 4.45 | 21 | 930 | 30 | 0.01 | 6 | 5 | 1545 | <20 | 0.16 | <10 | <10 |
| N459252 | | 0.57 | 687 | <1 | 4.76 | 19 | 1190 | 14 | 0.01 | <5 | 8 | 1060 | <20 | 0.10 | <10 | <10 |
| N459253 | | 1.07 | 652 | <1 | 4.71 | 22 | 990 | 20 | 0.01 | 9 | 7 | 1320 | <20 | 0.27 | <10 | <10 |
| N459254 | | 0.66 | 453 | <1 | 4.63 | 14 | 710 | 21 | 0.01 | <5 | 4 | 1030 | <20 | 0.24 | <10 | <10 |
| N459255 | | 0.48 | 472 | 1 | 3.97 | 13 | 690 | 14 | 0.17 | 5 | 3 | 802 | <20 | 0.11 | <10 | <10 |
| N459256 | | 0.43 | 549 | <1 | 4.77 | 28 | 870 | 13 | 0.02 | <5 | 4 | 648 | <20 | 0.12 | <10 | <10 |
| N459257 | | 0.73 | 255 | <1 | 4.68 | 15 | 840 | 22 | 0.01 | 5 | 5 | 1345 | <20 | 0.20 | <10 | <10 |
| N459258 | | 9.10 | 1945 | <1 | 0.53 | 677 | 90 | <2 | 0.48 | <5 | 34 | 128 | <20 | 0.30 | <10 | <10 |
| N459259 | | 1.48 | 230 | <1 | 5.53 | 17 | 1080 | 9 | 0.01 | <5 | 6 | 1190 | <20 | 0.18 | <10 | <10 |
| N459260 | | 1.38 | 802 | <1 | 4.21 | 26 | 1410 | 22 | 0.01 | 5 | 8 | 1980 | <20 | 0.23 | <10 | <10 |
| N459261 | | 0.91 | 531 | <1 | 4.69 | 19 | 870 | 24 | <0.01 | 5 | 5 | 1660 | <20 | 0.23 | <10 | <10 |

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

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|
| N459222 | | 152 | <10 | 69 |
| N459223 | | 206 | <10 | 80 |
| N459224 | | 164 | <10 | 70 |
| N459225 | | 153 | <10 | 86 |
| N459226 | | 254 | <10 | 74 |
| N459227 | | 225 | <10 | 92 |
| N459228 | | 176 | <10 | 76 |
| N459229 | | 204 | <10 | 84 |
| N459230 | | 89 | <10 | 78 |
| N459231 | | 260 | <10 | 85 |
| N459232 | | 226 | <10 | 97 |
| N459233 | | NSS | NSS | NSS |
| N459234 | | 188 | <10 | 83 |
| N459235 | | 138 | <10 | 55 |
| N459236 | | 232 | <10 | 151 |
| N459237 | | 243 | <10 | 91 |
| N459238 | | 241 | <10 | 115 |
| N459239 | | 214 | <10 | 84 |
| N459240 | | 299 | <10 | 60 |
| N459241 | | 218 | <10 | 87 |
| N459242 | | 157 | <10 | 3230 |
| N459243 | | 132 | <10 | 84 |
| N459244 | | 73 | <10 | 53 |
| N459245 | | 69 | 10 | 39 |
| N459246 | | 79 | <10 | 82 |
| N459247 | | 82 | <10 | 68 |
| N459248 | | 46 | <10 | 27 |
| N459249 | | 232 | <10 | 92 |
| N459250 | | 59 | <10 | 18 |
| N459251 | | 62 | <10 | 43 |
| N459252 | | 66 | <10 | 9 |
| N459253 | | 82 | <10 | 79 |
| N459254 | | 68 | <10 | 48 |
| N459255 | | 58 | <10 | 11 |
| N459256 | | 67 | <10 | 17 |
| N459257 | | 59 | <10 | 17 |
| N459258 | | 200 | <10 | 142 |
| N459259 | | 73 | <10 | 31 |
| N459260 | | 88 | <10 | 79 |
| N459261 | | 64 | <10 | 61 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N459262 | | <0.5 | 8.66 | <5 | 2780 | 1.5 | <2 | 1.59 | <0.5 | 9 | 42 | 24 | 2.41 | 20 | 4.51 | 30 |
| N459263 | | <0.5 | 8.27 | <5 | 2390 | 2.2 | <2 | 1.75 | <0.5 | 9 | 46 | 31 | 2.53 | 20 | 4.38 | 50 |
| N459264 | | <0.5 | 8.12 | <5 | 2560 | 2.0 | <2 | 1.57 | <0.5 | 9 | 41 | 40 | 2.83 | 20 | 4.15 | 50 |
| N459265 | | <0.5 | 5.24 | <5 | 150 | <0.5 | <2 | 9.50 | 0.7 | 60 | 821 | 355 | 10.90 | 10 | 0.58 | <10 |
| N459266 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459267 | | <0.5 | 2.89 | 5 | 30 | <0.5 | <2 | 9.69 | <0.5 | 86 | 1480 | 16 | 6.86 | <10 | 0.09 | <10 |
| N459268 | | <0.5 | 3.37 | <5 | 1110 | 2.9 | <2 | 9.52 | <0.5 | 58 | 174 | 27 | 8.95 | 20 | 2.22 | 110 |
| N459269 | | <0.5 | 7.54 | <5 | 2370 | 2.7 | <2 | 2.36 | <0.5 | 14 | 64 | 73 | 3.58 | 20 | 4.04 | 60 |
| N459270 | | <0.5 | 7.87 | <5 | 2180 | 1.7 | <2 | 1.65 | <0.5 | 9 | 44 | 36 | 2.51 | 20 | 4.32 | 40 |
| N459271 | | <0.5 | 8.29 | <5 | 2360 | 1.7 | 2 | 1.80 | <0.5 | 9 | 47 | 33 | 2.72 | 20 | 4.39 | 40 |
| N459272 | | <0.5 | 8.60 | <5 | 2330 | 1.6 | <2 | 1.04 | <0.5 | 7 | 34 | 30 | 1.97 | 20 | 4.66 | 40 |
| N459273 | | <0.5 | 8.36 | <5 | 2370 | 1.7 | <2 | 1.47 | <0.5 | 7 | 41 | 14 | 2.20 | 20 | 4.48 | 30 |
| N459274 | | <0.5 | 8.65 | <5 | 2450 | 1.8 | <2 | 1.55 | <0.5 | 6 | 41 | 43 | 2.28 | 20 | 4.94 | 40 |
| N459275 | | <0.5 | 7.87 | <5 | 1250 | 2.0 | 3 | 3.00 | <0.5 | 22 | 120 | 77 | 4.58 | 20 | 2.47 | 20 |
| N459276 | | <0.5 | 8.35 | <5 | 2210 | 1.9 | <2 | 1.69 | <0.5 | 9 | 46 | 21 | 2.50 | 20 | 4.19 | 40 |
| N459277 | | <0.5 | 8.31 | <5 | 2300 | 1.6 | <2 | 1.73 | <0.5 | 9 | 46 | 23 | 2.67 | 20 | 4.21 | 40 |
| N459278 | | <0.5 | 8.20 | <5 | 2480 | 2.2 | <2 | 1.58 | <0.5 | 10 | 45 | 31 | 2.84 | 20 | 4.49 | 40 |
| N459279 | | <0.5 | 6.66 | <5 | 160 | <0.5 | <2 | 7.96 | 0.7 | 54 | 41 | 138 | 11.60 | 20 | 0.46 | 10 |
| N459280 | | <0.5 | 5.73 | <5 | 370 | 1.6 | <2 | 4.78 | <0.5 | 38 | 292 | 27 | 6.91 | 10 | 2.10 | 20 |
| N459281 | | <0.5 | 7.67 | 6 | 1370 | 1.3 | <2 | 3.48 | <0.5 | 17 | 63 | 7 | 3.60 | 20 | 1.82 | 20 |
| N459282 | | <0.5 | 7.56 | <5 | 1120 | 1.3 | <2 | 2.50 | <0.5 | 21 | 91 | 14 | 4.05 | 20 | 1.72 | 20 |
| N459283 | | <0.5 | 7.95 | 8 | 2460 | 2.4 | 2 | 1.80 | <0.5 | 15 | 34 | 52 | 3.77 | 20 | 4.40 | 50 |
| N459284 | | <0.5 | 7.24 | 64 | 2250 | 2.7 | <2 | 3.33 | <0.5 | 23 | 76 | 94 | 5.46 | 20 | 2.96 | 60 |
| N459285 | | <0.5 | 7.42 | <5 | 180 | <0.5 | <2 | 5.72 | <0.5 | 58 | 251 | 93 | 8.59 | 20 | 0.31 | <10 |
| N451807 | | <0.5 | 7.62 | 13 | 840 | 1.5 | <2 | 0.89 | <0.5 | 21 | 178 | 40 | 4.25 | 20 | 1.28 | 20 |
| N451808 | | <0.5 | 8.26 | 40 | 700 | 1.6 | <2 | 0.19 | <0.5 | 19 | 185 | 65 | 3.89 | 20 | 1.80 | 30 |
| N451809 | | <0.5 | 7.25 | 28 | 880 | 1.6 | 2 | 3.66 | <0.5 | 19 | 226 | 59 | 4.39 | 20 | 1.88 | 20 |
| N451810 | | <0.5 | 8.39 | 62 | 1020 | 1.9 | 2 | 1.45 | <0.5 | 25 | 352 | 73 | 4.45 | 20 | 3.05 | 20 |
| N451811 | | <0.5 | 8.23 | 50 | 890 | 1.4 | <2 | 0.43 | <0.5 | 12 | 155 | 38 | 2.30 | 20 | 2.13 | 20 |
| N451812 | | <0.5 | 7.01 | 14 | 890 | 1.3 | <2 | 1.04 | <0.5 | 20 | 184 | 26 | 3.58 | 20 | 1.45 | 20 |
| N451813 | | <0.5 | 4.86 | 15 | 750 | 0.5 | <2 | 2.06 | <0.5 | 42 | 627 | 105 | 3.94 | 10 | 0.84 | 10 |
| N451814 | | <0.5 | 8.12 | 5 | 1200 | 2.0 | 2 | 0.45 | <0.5 | 18 | 212 | 5 | 1.95 | 20 | 2.04 | 30 |
| N451815 | | <0.5 | 6.88 | 32 | 650 | 0.6 | <2 | 4.09 | <0.5 | 34 | 153 | 78 | 6.04 | 20 | 1.37 | 10 |
| N451816 | | <0.5 | 7.36 | 86 | 740 | 1.4 | <2 | 0.82 | <0.5 | 13 | 203 | 28 | 3.65 | 20 | 1.66 | 20 |
| L174447 | | <0.5 | 7.97 | 35 | 630 | 1.3 | <2 | 1.16 | <0.5 | 18 | 168 | 44 | 3.42 | 20 | 1.85 | 30 |
| L174448 | | <0.5 | 7.52 | 29 | 700 | 1.5 | <2 | 0.78 | <0.5 | 13 | 192 | 29 | 3.54 | 20 | 1.61 | 20 |
| L174449 | | <0.5 | 7.04 | 21 | 750 | 1.4 | <2 | 0.27 | <0.5 | 10 | 164 | 15 | 3.36 | 20 | 1.77 | 20 |
| L174450 | | <0.5 | 6.83 | 19 | 850 | 1.4 | <2 | 2.20 | <0.5 | 17 | 169 | 11 | 3.31 | 20 | 1.97 | 20 |
| N451801 | | <0.5 | 7.47 | 35 | 920 | 1.9 | <2 | 3.17 | <0.5 | 22 | 196 | 69 | 4.46 | 20 | 2.35 | 20 |
| N451802 | | <0.5 | 8.02 | 25 | 700 | 1.4 | <2 | 0.77 | <0.5 | 22 | 187 | 25 | 3.79 | 20 | 1.99 | 30 |

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

ALS Canada Ltd.
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To: **OSISKO MINING LTD.**
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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N459262 | | 0.91 | 517 | <1 | 4.60 | 19 | 940 | 22 | 0.01 | <5 | 5 | 1850 | <20 | 0.18 | <10 | <10 |
| N459263 | | 0.97 | 597 | <1 | 4.43 | 25 | 1120 | 28 | 0.01 | <5 | 6 | 1760 | <20 | 0.23 | <10 | <10 |
| N459264 | | 0.89 | 576 | <1 | 4.13 | 15 | 1090 | 28 | 0.01 | <5 | 6 | 1860 | <20 | 0.31 | <10 | <10 |
| N459265 | | 5.38 | 2530 | <1 | 0.51 | 464 | 180 | 6 | 2.33 | <5 | 33 | 146 | <20 | 0.26 | <10 | <10 |
| N459266 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459267 | | 11.30 | 1300 | <1 | 0.27 | 1310 | 90 | <2 | 0.07 | <5 | 20 | 40 | <20 | 0.17 | <10 | <10 |
| N459268 | | 6.52 | 1830 | 1 | 1.36 | 78 | 7930 | 8 | 0.01 | <5 | 42 | 554 | <20 | 0.72 | <10 | <10 |
| N459269 | | 1.35 | 845 | <1 | 3.87 | 27 | 1550 | 29 | <0.01 | <5 | 8 | 1700 | <20 | 0.28 | <10 | <10 |
| N459270 | | 0.91 | 588 | <1 | 4.14 | 22 | 1080 | 23 | 0.01 | <5 | 6 | 1500 | <20 | 0.20 | <10 | <10 |
| N459271 | | 0.99 | 624 | <1 | 4.32 | 19 | 1120 | 29 | 0.01 | <5 | 6 | 1760 | <20 | 0.19 | <10 | <10 |
| N459272 | | 0.65 | 437 | <1 | 4.55 | 15 | 770 | 27 | 0.01 | <5 | 3 | 1510 | <20 | 0.18 | <10 | <10 |
| N459273 | | 0.79 | 460 | <1 | 4.44 | 15 | 860 | 25 | 0.01 | 6 | 5 | 1850 | <20 | 0.16 | <10 | <10 |
| N459274 | | 0.76 | 460 | <1 | 4.11 | 16 | 850 | 30 | <0.01 | <5 | 6 | 1180 | <20 | 0.19 | <10 | <10 |
| N459275 | | 2.45 | 1170 | <1 | 4.23 | 30 | 1640 | 17 | 0.02 | <5 | 17 | 1140 | <20 | 0.33 | <10 | <10 |
| N459276 | | 0.88 | 631 | <1 | 4.44 | 19 | 890 | 21 | 0.01 | <5 | 5 | 1700 | <20 | 0.21 | <10 | <10 |
| N459277 | | 0.94 | 601 | <1 | 4.36 | 20 | 1040 | 27 | <0.01 | <5 | 6 | 1740 | <20 | 0.21 | <10 | <10 |
| N459278 | | 0.94 | 615 | <1 | 4.12 | 17 | 1140 | 25 | 0.01 | <5 | 6 | 1720 | <20 | 0.20 | <10 | <10 |
| N459279 | | 3.81 | 1270 | <1 | 1.18 | 45 | 630 | 14 | 0.14 | <5 | 53 | 795 | <20 | 1.05 | <10 | <10 |
| N459280 | | 4.37 | 1310 | <1 | 2.85 | 56 | 2140 | 9 | 0.10 | 6 | 32 | 440 | <20 | 0.33 | <10 | <10 |
| N459281 | | 1.81 | 623 | <1 | 3.46 | 40 | 890 | 8 | 0.10 | <5 | 12 | 880 | <20 | 0.31 | <10 | <10 |
| N459282 | | 1.91 | 720 | <1 | 3.40 | 55 | 890 | 6 | 0.07 | <5 | 13 | 601 | <20 | 0.26 | <10 | <10 |
| N459283 | | 1.01 | 745 | <1 | 3.24 | 17 | 1450 | 26 | 0.35 | 6 | 9 | 1200 | 20 | 0.24 | <10 | <10 |
| N459284 | | 2.17 | 1020 | <1 | 2.78 | 32 | 2220 | 31 | 0.89 | 9 | 16 | 1420 | 20 | 0.34 | <10 | <10 |
| N459285 | | 4.34 | 1770 | <1 | 2.65 | 153 | 360 | 5 | 0.44 | <5 | 47 | 230 | <20 | 0.52 | <10 | <10 |
| N451807 | | 1.07 | 590 | <1 | 3.07 | 92 | 720 | 9 | 0.11 | <5 | 14 | 325 | <20 | 0.17 | <10 | <10 |
| N451808 | | 1.04 | 363 | 2 | 2.48 | 89 | 960 | 14 | 0.02 | <5 | 15 | 236 | <20 | 0.17 | <10 | <10 |
| N451809 | | 1.66 | 787 | <1 | 1.11 | 104 | 1110 | 5 | 0.03 | 7 | 15 | 340 | <20 | 0.18 | <10 | <10 |
| N451810 | | 1.22 | 685 | <1 | 0.59 | 113 | 1280 | 3 | 0.03 | <5 | 18 | 446 | <20 | 0.11 | <10 | <10 |
| N451811 | | 0.46 | 303 | <1 | 2.23 | 36 | 850 | 9 | 0.28 | <5 | 8 | 366 | <20 | 0.13 | <10 | <10 |
| N451812 | | 1.48 | 470 | <1 | 2.50 | 57 | 820 | 6 | 0.18 | <5 | 12 | 305 | <20 | 0.24 | <10 | <10 |
| N451813 | | 5.50 | 682 | 2 | 2.89 | 382 | 400 | 4 | 0.22 | <5 | 11 | 234 | <20 | 0.04 | <10 | <10 |
| N451814 | | 0.51 | 210 | <1 | 3.04 | 83 | 860 | 5 | 0.13 | <5 | 12 | 293 | <20 | 0.24 | <10 | <10 |
| N451815 | | 2.35 | 1050 | <1 | 0.86 | 65 | 440 | <2 | 0.03 | <5 | 36 | 451 | <20 | 0.28 | <10 | <10 |
| N451816 | | 1.41 | 410 | 1 | 2.95 | 70 | 850 | 6 | 0.10 | <5 | 14 | 346 | <20 | 0.28 | <10 | <10 |
| L174447 | | 1.02 | 565 | <1 | 2.67 | 64 | 860 | 8 | 0.09 | <5 | 13 | 431 | <20 | 0.25 | <10 | <10 |
| L174448 | | 1.46 | 425 | <1 | 2.87 | 57 | 790 | 19 | 0.16 | <5 | 13 | 408 | <20 | 0.30 | <10 | <10 |
| L174449 | | 1.23 | 310 | <1 | 1.91 | 52 | 690 | 14 | 0.06 | <5 | 12 | 259 | <20 | 0.25 | <10 | <10 |
| L174450 | | 1.51 | 549 | <1 | 2.18 | 59 | 800 | <2 | 0.10 | 8 | 11 | 561 | <20 | 0.21 | <10 | <10 |
| N451801 | | 1.78 | 732 | 2 | 1.62 | 105 | 930 | 4 | 0.04 | <5 | 16 | 742 | <20 | 0.22 | <10 | <10 |
| N451802 | | 1.14 | 438 | <1 | 2.28 | 63 | 840 | 2 | 0.29 | <5 | 14 | 299 | <20 | 0.18 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|
| N459262 | | 58 | <10 | 59 |
| N459263 | | 67 | <10 | 70 |
| N459264 | | 80 | <10 | 65 |
| N459265 | | 179 | <10 | 164 |
| N459266 | | NSS | NSS | NSS |
| N459267 | | 115 | <10 | 57 |
| N459268 | | 245 | <10 | 185 |
| N459269 | | 97 | <10 | 107 |
| N459270 | | 63 | <10 | 68 |
| N459271 | | 67 | <10 | 72 |
| N459272 | | 49 | <10 | 56 |
| N459273 | | 53 | <10 | 50 |
| N459274 | | 57 | <10 | 34 |
| N459275 | | 139 | <10 | 123 |
| N459276 | | 62 | <10 | 68 |
| N459277 | | 66 | <10 | 67 |
| N459278 | | 74 | <10 | 76 |
| N459279 | | 427 | <10 | 119 |
| N459280 | | 248 | <10 | 86 |
| N459281 | | 93 | <10 | 77 |
| N459282 | | 111 | <10 | 85 |
| N459283 | | 101 | <10 | 77 |
| N459284 | | 145 | <10 | 90 |
| N459285 | | 295 | <10 | 111 |
| N451807 | | 108 | <10 | 114 |
| N451808 | | 107 | <10 | 86 |
| N451809 | | 140 | <10 | 72 |
| N451810 | | 140 | <10 | 48 |
| N451811 | | 53 | <10 | 26 |
| N451812 | | 93 | <10 | 77 |
| N451813 | | 61 | <10 | 50 |
| N451814 | | 107 | <10 | 46 |
| N451815 | | 201 | <10 | 84 |
| N451816 | | 106 | <10 | 66 |
| L174447 | | 100 | <10 | 56 |
| L174448 | | 98 | <10 | 74 |
| L174449 | | 89 | <10 | 60 |
| L174450 | | 91 | <10 | 48 |
| N451801 | | 131 | <10 | 63 |
| N451802 | | 101 | <10 | 68 |

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

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N451803 | | <0.5 | 7.79 | 18 | 900 | 1.5 | <2 | 0.53 | <0.5 | 16 | 172 | 41 | 3.80 | 20 | 1.95 | 20 |
| N451804 | | <0.5 | 7.02 | 16 | 750 | 1.1 | <2 | 1.18 | <0.5 | 27 | 161 | 38 | 4.24 | 20 | 2.13 | 20 |
| N451805 | | <0.5 | 5.99 | 51 | 120 | <0.5 | <2 | 0.33 | <0.5 | 13 | 130 | 36 | 2.76 | 10 | 0.20 | 30 |
| N451806 | | <0.5 | 5.38 | <5 | 160 | <0.5 | <2 | 4.38 | 0.6 | 37 | 8 | 66 | 8.37 | 20 | 0.38 | <10 |

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# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
| N451803 | | 1.75 | 503 | <1 | 2.71 | 60 | 850 | 10 | 0.03 | <5 | 12 | 382 | <20 | 0.32 | <10 | <10 |
| N451804 | | 1.44 | 542 | <1 | 1.81 | 76 | 570 | 4 | 0.16 | 8 | 17 | 135 | <20 | 0.21 | <10 | <10 |
| N451805 | | 1.49 | 199 | <1 | 3.67 | 54 | 500 | 2 | 0.14 | 5 | 8 | 97 | <20 | 0.21 | <10 | <10 |
| N451806 | | 1.86 | 2130 | <1 | 1.79 | 23 | 520 | <2 | 0.10 | 6 | 35 | 67 | <20 | 0.46 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

| 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 |
|---|---|---|---|---|
| N451803 | | 98 | <10 | 66 |
| N451804 | | 128 | <10 | 91 |
| N451805 | | 58 | <10 | 61 |
| N451806 | | 327 | <10 | 114 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042821

## 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