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 SD14042943

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 218 Rock samples submitted to our lab in Timmins, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

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

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

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I277557 | | <0.5 | 6.36 | 6 | 290 | 0.7 | <2 | 4.31 | <0.5 | 40 | 448 | 11 | 5.80 | 20 | 2.67 | 10 |
| I277558 | | <0.5 | 6.93 | 21 | 80 | 0.6 | <2 | 3.91 | <0.5 | 32 | 201 | 150 | 4.54 | 20 | 0.99 | 10 |
| I277559 | | <0.5 | 7.96 | <5 | 40 | <0.5 | <2 | 3.60 | <0.5 | 38 | 21 | 17 | 8.15 | 20 | 0.14 | 10 |
| I277560 | | <0.5 | 6.84 | 10 | 4110 | 2.4 | <2 | 2.74 | <0.5 | 13 | 89 | 41 | 2.51 | 20 | 3.10 | 40 |
| I277561 | | <0.5 | 9.22 | 29 | 750 | 3.9 | <2 | 0.95 | <0.5 | 8 | 3 | 15 | 4.87 | 20 | 4.88 | 60 |
| I277562 | | <0.5 | 9.43 | 15 | 2700 | 4.5 | <2 | 1.74 | 0.6 | 10 | 2 | 41 | 3.66 | 20 | 4.50 | 50 |
| I277563 | | <0.5 | 4.53 | 18 | 4590 | 13.9 | <2 | 7.20 | <0.5 | 37 | 408 | 28 | 6.68 | 10 | 2.65 | 130 |
| I277564 | | <0.5 | 8.24 | 12 | 2710 | 4.5 | <2 | 2.67 | <0.5 | 16 | 14 | 102 | 4.15 | 20 | 4.52 | 60 |
| I277565 | | <0.5 | 6.90 | 12 | 380 | 2.4 | <2 | 4.33 | <0.5 | 18 | 60 | 25 | 4.13 | 20 | 2.35 | 80 |
| I277566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I277567 | | <0.5 | 7.44 | 11 | 1100 | 2.0 | <2 | 1.65 | <0.5 | 7 | 51 | 21 | 2.01 | 30 | 0.70 | 50 |
| I277568 | | <0.5 | 9.00 | 8 | 2380 | 5.1 | <2 | 1.84 | <0.5 | 14 | 14 | 89 | 4.57 | 20 | 5.50 | 80 |
| I277569 | | <0.5 | 8.51 | 22 | 3880 | 4.3 | <2 | 2.27 | <0.5 | 16 | 14 | 67 | 4.18 | 20 | 4.91 | 60 |
| I277570 | | <0.5 | 6.46 | 17 | 8370 | 6.0 | <2 | 4.12 | <0.5 | 30 | 25 | 163 | 7.23 | 20 | 4.22 | 160 |
| I277571 | | <0.5 | 6.95 | <5 | 2460 | 2.6 | <2 | 3.09 | <0.5 | 10 | 3 | 31 | 2.89 | 20 | 2.94 | 30 |
| I277572 | | <0.5 | 9.32 | 11 | 2590 | 4.6 | <2 | 1.52 | <0.5 | 16 | 13 | 88 | 4.85 | 30 | 5.43 | 80 |
| I277573 | | <0.5 | 8.82 | 12 | 2650 | 4.8 | <2 | 1.98 | <0.5 | 16 | 14 | 107 | 4.74 | 20 | 5.34 | 70 |
| I277574 | | <0.5 | 7.39 | 7 | 1090 | 2.2 | <2 | 2.69 | <0.5 | 16 | 40 | 34 | 4.99 | 20 | 2.82 | 60 |
| I277575 | | <0.5 | 7.94 | 19 | 2290 | 3.8 | <2 | 2.79 | 0.5 | 18 | 47 | 79 | 5.58 | 20 | 3.80 | 70 |
| I277576 | | <0.5 | 9.56 | 5 | 2640 | 4.8 | <2 | 0.97 | <0.5 | 17 | 15 | 127 | 4.97 | 30 | 7.35 | 80 |
| I277577 | | <0.5 | 9.55 | 6 | 3200 | 5.5 | <2 | 0.94 | <0.5 | 12 | 2 | 87 | 3.71 | 20 | 6.13 | 60 |
| I277578 | | <0.5 | 9.14 | 5 | 2150 | 5.2 | <2 | 0.75 | <0.5 | 14 | 4 | 100 | 4.34 | 20 | 5.10 | 60 |
| I277579 | | <0.5 | 6.66 | <5 | 500 | 2.8 | <2 | 3.60 | <0.5 | 10 | 53 | 14 | 5.23 | 20 | 1.63 | 50 |
| I277580 | | <0.5 | 7.63 | 22 | 2530 | 4.0 | <2 | 3.85 | <0.5 | 23 | 46 | 80 | 5.61 | 20 | 4.16 | 60 |
| I277581 | | <0.5 | 7.24 | 12 | 1130 | 1.3 | <2 | 0.59 | 1.0 | 22 | 197 | 56 | 4.30 | 20 | 6.40 | 20 |
| I277582 | | <0.5 | 6.86 | 8 | 1030 | 1.8 | <2 | 3.92 | <0.5 | 29 | 153 | 76 | 6.47 | 20 | 5.57 | 50 |
| I277583 | | 0.5 | 6.02 | 10 | 820 | 1.0 | <2 | 3.64 | <0.5 | 23 | 194 | 60 | 4.56 | 10 | 4.40 | 20 |
| I277584 | | <0.5 | 8.18 | <5 | 1670 | 2.4 | <2 | 1.16 | <0.5 | 11 | 47 | 6 | 2.95 | 20 | 3.32 | 30 |
| L174895 | | <0.5 | 6.87 | 165 | 1070 | 1.8 | <2 | 2.47 | <0.5 | 14 | 71 | 42 | 4.35 | 20 | 3.10 | 50 |
| L174896 | | <0.5 | 6.87 | 13 | 1490 | 1.4 | <2 | 3.15 | <0.5 | 18 | 72 | 48 | 4.33 | 20 | 1.99 | 50 |
| L174897 | | <0.5 | 7.12 | 18 | 2540 | 1.3 | <2 | 3.59 | <0.5 | 19 | 71 | 40 | 3.88 | 20 | 1.50 | 60 |
| L174898 | | <0.5 | 6.07 | 13 | 760 | 2.3 | <2 | 4.79 | <0.5 | 25 | 180 | 107 | 5.31 | 10 | 2.39 | 40 |
| L174899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174900 | | <0.5 | 7.63 | 75 | 1370 | 2.5 | <2 | 1.83 | <0.5 | 19 | 86 | 9 | 4.81 | 20 | 1.78 | 60 |
| L767501 | | <0.5 | 7.18 | 5 | 1080 | 1.5 | <2 | 3.85 | <0.5 | 8 | 75 | 51 | 4.19 | 20 | 2.24 | 60 |
| L767502 | | <0.5 | 6.40 | 27 | 1040 | 2.6 | <2 | 5.45 | <0.5 | 26 | 184 | 69 | 5.78 | 20 | 2.64 | 40 |
| L767503 | | <0.5 | 7.31 | 15 | 1940 | 1.6 | <2 | 3.07 | <0.5 | 13 | 64 | 67 | 3.76 | 20 | 1.96 | 50 |
| L767504 | | <0.5 | 6.56 | <5 | 190 | <0.5 | <2 | 5.93 | <0.5 | 35 | 195 | 93 | 8.01 | 10 | 0.52 | <10 |
| L767505 | | <0.5 | 7.11 | 36 | 1290 | 1.7 | <2 | 4.29 | <0.5 | 21 | 216 | 83 | 4.35 | 20 | 2.75 | 60 |
| L767506 | | 3.7 | 6.77 | 45 | 740 | 1.4 | 2 | 3.27 | <0.5 | 19 | 75 | 233 | 3.79 | 20 | 2.86 | 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 SD14042943

| 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 |
| I277557 | | 3.49 | 996 | 1 | 0.16 | 305 | 850 | 7 | 0.07 | 10 | 24 | 161 | <20 | 0.38 | 10 | <10 |
| I277558 | | 2.86 | 846 | 6 | 3.08 | 148 | 750 | 6 | 0.40 | 11 | 23 | 167 | <20 | 0.41 | <10 | <10 |
| I277559 | | 2.28 | 729 | <1 | 3.00 | 47 | 350 | 5 | <0.01 | <5 | 35 | 116 | <20 | 0.56 | 10 | <10 |
| I277560 | | 1.55 | 829 | <1 | 2.95 | 79 | 950 | 22 | 0.62 | <5 | 7 | 1490 | <20 | 0.20 | 10 | <10 |
| I277561 | | 0.42 | 902 | 1 | 2.43 | 4 | 1380 | 43 | 2.21 | <5 | 4 | 942 | 20 | 0.11 | 10 | <10 |
| I277562 | | 0.70 | 1675 | <1 | 2.20 | 2 | 1290 | 67 | 1.45 | <5 | 3 | 1000 | 20 | 0.15 | <10 | <10 |
| I277563 | | 5.28 | 1450 | <1 | 1.08 | 107 | 3670 | 29 | 0.07 | <5 | 28 | 2490 | 40 | 0.53 | 20 | <10 |
| I277564 | | 1.00 | 1170 | <1 | 3.26 | 7 | 2040 | 26 | 0.03 | <5 | 7 | 1520 | 20 | 0.31 | 10 | <10 |
| I277565 | | 1.57 | 1095 | <1 | 3.38 | 28 | 1630 | 24 | 1.92 | <5 | 12 | 1145 | 20 | 0.29 | 10 | <10 |
| I277566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I277567 | | 0.72 | 853 | <1 | 5.68 | 31 | 940 | 17 | 0.74 | <5 | 6 | 457 | <20 | 0.12 | <10 | <10 |
| I277568 | | 0.77 | 984 | <1 | 1.55 | 5 | 2730 | 27 | 0.02 | <5 | 6 | 1005 | 30 | 0.33 | 10 | <10 |
| I277569 | | 0.72 | 1235 | <1 | 2.78 | 9 | 2120 | 26 | 0.07 | 7 | 7 | 1580 | 20 | 0.17 | <10 | <10 |
| I277570 | | 1.71 | 1885 | <1 | 1.13 | 20 | 5590 | 30 | 0.21 | <5 | 19 | 2660 | 40 | 0.44 | <10 | <10 |
| I277571 | | 0.85 | 1210 | <1 | 4.36 | 4 | 1570 | 24 | 0.04 | <5 | 2 | 1695 | <20 | 0.12 | 10 | <10 |
| I277572 | | 0.69 | 1095 | <1 | 2.74 | 11 | 2960 | 28 | 0.01 | 5 | 6 | 1170 | 30 | 0.35 | 10 | <10 |
| I277573 | | 0.87 | 1070 | <1 | 2.87 | 7 | 2780 | 41 | 0.01 | 6 | 6 | 1490 | 20 | 0.25 | 10 | <10 |
| I277574 | | 1.23 | 602 | 1 | 2.66 | 29 | 1690 | 18 | 2.93 | 19 | 9 | 721 | 20 | 0.20 | <10 | <10 |
| I277575 | | 1.47 | 1195 | <1 | 3.44 | 19 | 2630 | 60 | 0.04 | 6 | 13 | 1360 | 20 | 0.39 | <10 | <10 |
| I277576 | | 0.49 | 1105 | <1 | 1.53 | 9 | 2910 | 28 | 0.22 | 6 | 6 | 569 | 30 | 0.20 | <10 | <10 |
| I277577 | | 0.50 | 997 | <1 | 1.02 | 3 | 1370 | 31 | 0.02 | 8 | 4 | 844 | 20 | 0.26 | <10 | <10 |
| I277578 | | 0.61 | 863 | <1 | 3.02 | 5 | 1640 | 15 | 0.03 | <5 | 5 | 497 | 20 | 0.31 | <10 | <10 |
| I277579 | | 1.54 | 1180 | <1 | 4.88 | 20 | 2150 | 31 | 0.08 | 12 | 10 | 1730 | 20 | 0.33 | 10 | <10 |
| I277580 | | 1.78 | 1210 | <1 | 3.11 | 21 | 2720 | 21 | 0.01 | 11 | 12 | 1870 | 20 | 0.37 | <10 | <10 |
| I277581 | | 0.80 | 910 | <1 | 0.11 | 96 | 570 | 17 | 0.56 | 14 | 14 | 174 | <20 | 0.19 | <10 | <10 |
| I277582 | | 2.29 | 1065 | <1 | 0.08 | 111 | 1850 | 3 | 0.14 | 12 | 24 | 629 | <20 | 0.38 | <10 | <10 |
| I277583 | | 1.76 | 948 | <1 | 1.30 | 94 | 880 | 22 | 0.16 | 52 | 15 | 716 | <20 | 0.22 | <10 | <10 |
| I277584 | | 1.30 | 383 | <1 | 2.22 | 19 | 1220 | 9 | <0.01 | <5 | 10 | 331 | <20 | 0.25 | <10 | <10 |
| L174895 | | 1.60 | 955 | <1 | 2.80 | 50 | 1800 | 24 | 2.38 | <5 | 11 | 539 | <20 | 0.32 | <10 | <10 |
| L174896 | | 2.11 | 584 | <1 | 3.33 | 45 | 1820 | 9 | 0.08 | <5 | 11 | 576 | <20 | 0.26 | 10 | <10 |
| L174897 | | 2.30 | 1040 | <1 | 3.45 | 48 | 1820 | 17 | 0.52 | <5 | 12 | 1340 | <20 | 0.24 | <10 | <10 |
| L174898 | | 3.47 | 1120 | <1 | 1.72 | 85 | 2350 | 6 | 0.07 | <5 | 19 | 800 | <20 | 0.29 | 10 | <10 |
| L174899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174900 | | 2.00 | 947 | <1 | 3.59 | 46 | 1940 | 43 | 1.04 | <5 | 13 | 572 | <20 | 0.31 | <10 | <10 |
| L767501 | | 2.09 | 935 | <1 | 2.84 | 49 | 1880 | 9 | 0.04 | <5 | 12 | 1305 | <20 | 0.26 | <10 | <10 |
| L767502 | | 3.01 | 1205 | <1 | 1.97 | 71 | 2470 | 8 | 0.01 | <5 | 20 | 817 | <20 | 0.39 | <10 | <10 |
| L767503 | | 2.13 | 759 | 3 | 3.69 | 38 | 1830 | 53 | 0.05 | <5 | 11 | 370 | <20 | 0.32 | <10 | <10 |
| L767504 | | 3.79 | 1700 | <1 | 0.05 | 71 | 200 | 4 | 0.08 | <5 | 38 | 34 | <20 | 0.45 | <10 | <10 |
| L767505 | | 3.00 | 963 | <1 | 1.63 | 135 | 1890 | 9 | 0.11 | <5 | 14 | 707 | <20 | 0.36 | <10 | <10 |
| L767506 | | 1.95 | 656 | 5 | 2.24 | 55 | 1770 | 15 | 2.82 | <5 | 12 | 523 | <20 | 0.33 | <10 | <10 |

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

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

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|
| I277557 | | 137 | <10 | 118 |
| I277558 | | 132 | <10 | 48 |
| I277559 | | 205 | <10 | 72 |
| I277560 | | 65 | <10 | 87 |
| I277561 | | 88 | <10 | 70 |
| I277562 | | 92 | <10 | 315 |
| I277563 | | 186 | <10 | 170 |
| I277564 | | 123 | <10 | 116 |
| I277565 | | 121 | <10 | 72 |
| I277566 | | NSS | NSS | NSS |
| I277567 | | 66 | <10 | 71 |
| I277568 | | 124 | <10 | 140 |
| I277569 | | 136 | <10 | 132 |
| I277570 | | 252 | <10 | 148 |
| I277571 | | 87 | <10 | 104 |
| I277572 | | 133 | <10 | 149 |
| I277573 | | 138 | <10 | 154 |
| I277574 | | 89 | 10 | 58 |
| I277575 | | 171 | <10 | 187 |
| I277576 | | 173 | <10 | 149 |
| I277577 | | 100 | 10 | 128 |
| I277578 | | 118 | <10 | 121 |
| I277579 | | 143 | <10 | 105 |
| I277580 | | 188 | <10 | 151 |
| I277581 | | 103 | 10 | 232 |
| I277582 | | 203 | <10 | 152 |
| I277583 | | 121 | <10 | 92 |
| I277584 | | 85 | <10 | 67 |
| L174895 | | 111 | <10 | 43 |
| L174896 | | 109 | <10 | 75 |
| L174897 | | 110 | <10 | 117 |
| L174898 | | 165 | <10 | 105 |
| L174899 | | NSS | NSS | NSS |
| L174900 | | 124 | <10 | 116 |
| L767501 | | 116 | <10 | 82 |
| L767502 | | 172 | <10 | 84 |
| L767503 | | 109 | <10 | 112 |
| L767504 | | 263 | <10 | 85 |
| L767505 | | 119 | <10 | 202 |
| L767506 | | 108 | <10 | 36 |

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# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L767507 | | <0.5 | 7.59 | 65 | 960 | 1.4 | <2 | 4.03 | <0.5 | 17 | 78 | 48 | 4.18 | 20 | 1.42 | 70 |
| L767508 | | <0.5 | 7.54 | 33 | 3360 | 1.8 | <2 | 2.79 | <0.5 | 20 | 78 | 19 | 4.11 | 20 | 1.64 | 60 |
| L767509 | | <0.5 | 6.93 | 37 | 1830 | 1.6 | <2 | 3.46 | <0.5 | 10 | 125 | 24 | 3.82 | 20 | 2.53 | 50 |
| L767510 | | <0.5 | 6.79 | 97 | 790 | 1.3 | <2 | 2.13 | 1.7 | 11 | 104 | 108 | 2.20 | 20 | 2.47 | 20 |
| L767511 | | <0.5 | 7.05 | 17 | 2100 | 2.1 | <2 | 1.13 | <0.5 | 13 | 56 | 5 | 2.46 | 20 | 3.62 | 50 |
| L767512 | | <0.5 | 6.84 | 29 | 950 | 1.8 | <2 | 2.80 | <0.5 | 12 | 64 | 16 | 3.34 | 20 | 2.98 | 30 |
| L767513 | | <0.5 | 8.18 | 42 | 2070 | 2.2 | <2 | 1.09 | <0.5 | 9 | 33 | 52 | 2.89 | 20 | 3.79 | 40 |
| L767514 | | <0.5 | 6.61 | 82 | 1710 | 1.6 | <2 | 3.43 | <0.5 | 9 | 72 | 13 | 2.99 | 20 | 2.45 | 40 |
| L767515 | | <0.5 | 6.18 | 39 | 1430 | 2.2 | <2 | 1.18 | <0.5 | 7 | 36 | 12 | 1.79 | 20 | 2.81 | 40 |
| L767516 | | 1.5 | 7.39 | 289 | 900 | 1.8 | <2 | 1.66 | <0.5 | 18 | 217 | 154 | 3.90 | 20 | 3.12 | 40 |
| L767517 | | <0.5 | 7.89 | 71 | 850 | 2.0 | 2 | 1.65 | <0.5 | 14 | 44 | 28 | 4.44 | 20 | 2.50 | 40 |
| L767518 | | <0.5 | 8.25 | 18 | 1810 | 2.2 | <2 | 1.37 | <0.5 | 14 | 100 | 12 | 3.49 | 30 | 1.88 | 60 |
| L767519 | | <0.5 | 7.09 | 73 | 1110 | 1.8 | 5 | 3.67 | <0.5 | 11 | 53 | 37 | 4.16 | 20 | 2.37 | 30 |
| L767520 | | 0.5 | 7.09 | 129 | 1090 | 1.8 | <2 | 2.80 | 0.5 | 17 | 55 | 27 | 4.03 | 20 | 2.61 | 30 |
| L767521 | | <0.5 | 6.73 | 46 | 390 | 1.6 | <2 | 2.48 | <0.5 | 7 | 44 | 14 | 3.17 | 20 | 1.93 | 20 |
| L767522 | | 0.6 | 7.47 | 44 | 430 | 2.0 | 2 | 1.74 | <0.5 | 9 | 65 | 26 | 3.06 | 20 | 3.00 | 30 |
| L767523 | | <0.5 | 6.78 | 25 | 590 | 1.8 | <2 | 3.50 | <0.5 | 3 | 54 | 9 | 1.68 | 20 | 2.73 | 30 |
| L767524 | | <0.5 | 6.82 | 47 | 1300 | 1.5 | <2 | 1.83 | <0.5 | 6 | 45 | 6 | 2.09 | 20 | 2.38 | 20 |
| L767525 | | <0.5 | 6.15 | 44 | 1450 | 1.6 | <2 | 2.41 | <0.5 | 14 | 92 | 20 | 3.71 | 20 | 2.25 | 40 |
| L767526 | | <0.5 | 6.73 | 9 | 2010 | 1.3 | <2 | 3.07 | <0.5 | 15 | 90 | 6 | 3.28 | 20 | 1.15 | 40 |
| L767527 | | 0.7 | 6.53 | 70 | 1350 | 1.9 | <2 | 2.23 | 0.5 | 15 | 94 | 21 | 3.63 | 20 | 3.36 | 40 |
| L767528 | | 0.8 | 6.84 | 29 | 1450 | 2.3 | <2 | 1.92 | 1.4 | 7 | 73 | 9 | 1.42 | 20 | 3.54 | 40 |
| L767529 | | <0.5 | 7.70 | 110 | 1090 | 3.3 | <2 | 1.55 | <0.5 | 3 | 59 | 2 | 1.02 | 20 | 2.95 | 10 |
| L767530 | | <0.5 | 7.10 | 88 | 1220 | 1.8 | <2 | 1.85 | 0.5 | 10 | 57 | 22 | 2.89 | 20 | 2.96 | 30 |
| L767531 | | <0.5 | 7.98 | 70 | 1630 | 2.3 | <2 | 1.43 | <0.5 | 12 | 53 | 26 | 2.89 | 20 | 3.51 | 30 |
| L767532 | | <0.5 | 6.79 | 36 | 2030 | 1.6 | <2 | 2.85 | <0.5 | 21 | 68 | 11 | 2.94 | 20 | 2.40 | 30 |
| L767533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L767534 | | <0.5 | 6.82 | 9 | 1790 | 2.2 | 2 | 3.01 | <0.5 | 10 | 147 | 91 | 3.35 | 20 | 2.93 | 30 |
| L767535 | | <0.5 | 7.30 | 22 | 2170 | 2.3 | <2 | 3.44 | <0.5 | 20 | 50 | 48 | 5.32 | 20 | 1.38 | 70 |
| L767536 | | <0.5 | 6.59 | 55 | 1070 | 1.5 | <2 | 3.06 | <0.5 | 14 | 69 | 22 | 3.08 | 20 | 1.69 | 20 |
| L767537 | | <0.5 | 7.27 | 10 | 1770 | 1.6 | <2 | 2.85 | <0.5 | 26 | 136 | 24 | 5.26 | 20 | 2.65 | 50 |
| L767538 | | <0.5 | 6.96 | 11 | 1120 | 2.6 | <2 | 3.88 | <0.5 | 21 | 80 | 103 | 5.00 | 20 | 2.44 | 60 |
| L767539 | | <0.5 | 7.13 | 17 | 2630 | 1.4 | <2 | 3.87 | <0.5 | 20 | 77 | 76 | 5.03 | 20 | 1.83 | 60 |
| L767540 | | <0.5 | 6.89 | 11 | 6660 | 6.2 | 3 | 2.95 | <0.5 | 30 | 96 | 87 | 7.39 | 20 | 3.44 | 140 |
| L767541 | | <0.5 | 7.20 | 5 | 2120 | 1.6 | 3 | 2.09 | <0.5 | 6 | 56 | 246 | 2.67 | 20 | 1.66 | 30 |
| L767542 | | 1.6 | 5.21 | 33 | 1650 | 0.9 | <2 | 1.34 | <0.5 | 3 | 56 | 1620 | 1.34 | 10 | 1.73 | 20 |
| L767543 | | <0.5 | 7.29 | <5 | 1920 | 1.4 | <2 | 3.08 | <0.5 | 17 | 106 | 21 | 3.59 | 20 | 2.29 | 40 |
| L767544 | | <0.5 | 7.04 | 21 | 880 | 1.4 | <2 | 1.69 | <0.5 | 26 | 213 | 43 | 4.87 | 20 | 0.95 | 30 |
| L767545 | | <0.5 | 8.07 | 12 | 4280 | 6.9 | <2 | 2.09 | <0.5 | 25 | 73 | 126 | 6.80 | 30 | 5.96 | 130 |
| L767546 | | <0.5 | 7.90 | 8 | 2910 | 5.9 | <2 | 2.25 | <0.5 | 36 | 126 | 150 | 9.99 | 30 | 3.21 | 180 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L767507 | | 2.27 | 690 | <1 | 3.56 | 50 | 1900 | 14 | 1.38 | <5 | 12 | 1155 | 20 | 0.35 | <10 | <10 |
| L767508 | | 2.59 | 710 | <1 | 3.21 | 54 | 1970 | 11 | 1.04 | <5 | 12 | 3860 | 20 | 0.33 | <10 | <10 |
| L767509 | | 2.00 | 821 | <1 | 2.44 | 82 | 1820 | 18 | 0.23 | <5 | 11 | 1265 | <20 | 0.27 | <10 | <10 |
| L767510 | | 1.14 | 1130 | 14 | 1.96 | 26 | 700 | 234 | 1.47 | <5 | 9 | 1440 | <20 | 0.13 | <10 | <10 |
| L767511 | | 0.62 | 556 | <1 | 0.07 | 31 | 960 | 10 | 0.97 | <5 | 9 | 329 | <20 | 0.10 | <10 | <10 |
| L767512 | | 1.09 | 757 | <1 | 1.68 | 21 | 980 | 27 | 0.82 | <5 | 8 | 634 | <20 | 0.12 | 10 | <10 |
| L767513 | | 0.69 | 623 | 3 | 1.56 | 16 | 800 | 16 | 0.75 | <5 | 7 | 310 | <20 | 0.14 | <10 | <10 |
| L767514 | | 1.31 | 903 | <1 | 1.28 | 27 | 1340 | 11 | 0.66 | <5 | 9 | 619 | <20 | 0.10 | <10 | <10 |
| L767515 | | 0.53 | 401 | <1 | 0.12 | 12 | 390 | 32 | 0.69 | <5 | 6 | 193 | <20 | 0.08 | <10 | <10 |
| L767516 | | 0.81 | 812 | 28 | 1.46 | 60 | 1290 | 38 | 2.14 | <5 | 17 | 437 | <20 | 0.13 | <10 | <10 |
| L767517 | | 0.96 | 627 | <1 | 2.98 | 16 | 1430 | 21 | 2.56 | <5 | 15 | 422 | <20 | 0.10 | <10 | <10 |
| L767518 | | 1.49 | 506 | <1 | 3.26 | 70 | 1420 | 12 | 0.21 | <5 | 11 | 704 | 20 | 0.15 | <10 | <10 |
| L767519 | | 1.79 | 1085 | <1 | 2.62 | 17 | 1380 | 15 | 0.96 | <5 | 14 | 592 | <20 | 0.16 | <10 | <10 |
| L767520 | | 1.37 | 1385 | 7 | 1.96 | 18 | 1400 | 161 | 1.67 | <5 | 15 | 925 | <20 | 0.16 | 10 | <10 |
| L767521 | | 1.20 | 1270 | <1 | 2.70 | 21 | 750 | 28 | 1.94 | <5 | 6 | 1270 | <20 | 0.07 | <10 | <10 |
| L767522 | | 0.84 | 1115 | 18 | 2.64 | 24 | 1010 | 191 | 1.97 | <5 | 9 | 1480 | <20 | 0.13 | <10 | <10 |
| L767523 | | 1.56 | 1105 | 2 | 2.32 | 36 | 1830 | 46 | 0.34 | <5 | 11 | 619 | <20 | 0.22 | <10 | <10 |
| L767524 | | 0.84 | 786 | <1 | 2.05 | 14 | 590 | 10 | 1.18 | <5 | 6 | 1505 | <20 | 0.09 | <10 | <10 |
| L767525 | | 1.55 | 1360 | <1 | 1.50 | 62 | 970 | 30 | 0.86 | <5 | 9 | 740 | <20 | 0.09 | <10 | <10 |
| L767526 | | 1.81 | 703 | <1 | 3.94 | 55 | 1240 | 9 | 0.05 | <5 | 8 | 728 | <20 | 0.22 | <10 | <10 |
| L767527 | | 1.14 | 3100 | <1 | 0.06 | 63 | 1060 | 22 | 1.24 | <5 | 10 | 404 | <20 | 0.11 | <10 | <10 |
| L767528 | | 1.17 | 812 | 7 | 0.06 | 26 | 890 | 186 | 1.27 | <5 | 10 | 381 | <20 | 0.15 | <10 | <10 |
| L767529 | | 1.44 | 1485 | <1 | 0.20 | 37 | 870 | 54 | 0.07 | <5 | 11 | 317 | <20 | 0.12 | <10 | <10 |
| L767530 | | 0.82 | 1010 | 6 | 1.53 | 26 | 900 | 238 | 1.30 | <5 | 7 | 511 | <20 | 0.12 | <10 | <10 |
| L767531 | | 0.97 | 1055 | 4 | 1.76 | 25 | 960 | 45 | 1.76 | 12 | 8 | 335 | <20 | 0.12 | <10 | <10 |
| L767532 | | 1.16 | 784 | 1 | 2.54 | 36 | 1120 | 31 | 0.48 | 6 | 8 | 590 | <20 | 0.19 | <10 | <10 |
| L767533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L767534 | | 2.37 | 695 | 1 | 2.27 | 50 | 1040 | 3 | 0.10 | <5 | 13 | 499 | <20 | 0.25 | <10 | <10 |
| L767535 | | 2.27 | 1120 | <1 | 3.52 | 28 | 2680 | 10 | 0.20 | 6 | 15 | 540 | 20 | 0.33 | <10 | <10 |
| L767536 | | 1.48 | 1110 | <1 | 3.91 | 38 | 1140 | 103 | 1.72 | 7 | 8 | 815 | <20 | 0.17 | <10 | <10 |
| L767537 | | 2.79 | 1100 | <1 | 2.73 | 62 | 2330 | 22 | 0.04 | 7 | 15 | 713 | <20 | 0.34 | <10 | <10 |
| L767538 | | 2.00 | 904 | <1 | 2.79 | 36 | 2640 | 6 | 0.86 | 5 | 15 | 687 | 20 | 0.41 | <10 | <10 |
| L767539 | | 2.38 | 1010 | <1 | 3.50 | 32 | 2220 | 29 | 0.07 | 8 | 17 | 755 | <20 | 0.34 | <10 | <10 |
| L767540 | | 2.85 | 1595 | <1 | 2.18 | 41 | 3620 | 44 | 0.16 | 14 | 18 | 1870 | 40 | 0.57 | <10 | <10 |
| L767541 | | 1.05 | 438 | 7 | 4.33 | 21 | 910 | 5 | 0.11 | 7 | 7 | 348 | <20 | 0.13 | <10 | <10 |
| L767542 | | 0.70 | 285 | 20 | 2.21 | 13 | 630 | 52 | 0.33 | 7 | 5 | 318 | <20 | 0.08 | <10 | <10 |
| L767543 | | 2.23 | 681 | <1 | 3.38 | 70 | 1350 | 18 | 0.05 | <5 | 11 | 1380 | <20 | 0.23 | <10 | <10 |
| L767544 | | 1.94 | 817 | <1 | 3.54 | 96 | 740 | 13 | 0.16 | 6 | 17 | 642 | <20 | 0.43 | <10 | <10 |
| L767545 | | 2.77 | 1285 | <1 | 1.91 | 30 | 6700 | 30 | 0.03 | 5 | 10 | 1330 | 30 | 0.59 | <10 | <10 |
| L767546 | | 3.10 | 1675 | <1 | 1.94 | 41 | 5660 | 29 | 0.02 | <5 | 19 | 1575 | 50 | 0.75 | <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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|
| L767507 | | 114 | <10 | 69 |
| L767508 | | 119 | <10 | 97 |
| L767509 | | 115 | <10 | 159 |
| L767510 | | 70 | <10 | 425 |
| L767511 | | 75 | <10 | 42 |
| L767512 | | 84 | <10 | 78 |
| L767513 | | 97 | <10 | 93 |
| L767514 | | 75 | <10 | 57 |
| L767515 | | 57 | <10 | 44 |
| L767516 | | 130 | <10 | 91 |
| L767517 | | 125 | <10 | 68 |
| L767518 | | 112 | <10 | 148 |
| L767519 | | 128 | <10 | 77 |
| L767520 | | 136 | <10 | 186 |
| L767521 | | 56 | <10 | 57 |
| L767522 | | 73 | <10 | 197 |
| L767523 | | 114 | <10 | 85 |
| L767524 | | 52 | <10 | 53 |
| L767525 | | 75 | <10 | 84 |
| L767526 | | 83 | <10 | 104 |
| L767527 | | 93 | <10 | 177 |
| L767528 | | 144 | <10 | 293 |
| L767529 | | 97 | <10 | 126 |
| L767530 | | 64 | <10 | 270 |
| L767531 | | 67 | <10 | 105 |
| L767532 | | 73 | <10 | 71 |
| L767533 | | NSS | NSS | NSS |
| L767534 | | 99 | <10 | 145 |
| L767535 | | 160 | <10 | 207 |
| L767536 | | 78 | <10 | 189 |
| L767537 | | 152 | <10 | 271 |
| L767538 | | 154 | <10 | 97 |
| L767539 | | 146 | <10 | 156 |
| L767540 | | 251 | 10 | 162 |
| L767541 | | 65 | <10 | 32 |
| L767542 | | 51 | <10 | 33 |
| L767543 | | 93 | <10 | 65 |
| L767544 | | 144 | <10 | 90 |
| L767545 | | 234 | <10 | 187 |
| L767546 | | 293 | <10 | 204 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L767547 | | <0.5 | 5.79 | 7 | 710 | 1.1 | <2 | 3.42 | <0.5 | 18 | 107 | 33 | 3.55 | 10 | 1.41 | 20 |
| L767548 | | <0.5 | 5.93 | 13 | 410 | 1.0 | <2 | 4.00 | <0.5 | 30 | 278 | 40 | 5.92 | 20 | 0.74 | 30 |
| L767549 | | <0.5 | 6.89 | 25 | 1180 | 1.4 | 2 | 1.78 | <0.5 | 20 | 128 | 41 | 4.22 | 20 | 1.26 | 30 |
| L767550 | | <0.5 | 6.92 | 5 | 440 | 1.8 | <2 | 0.82 | <0.5 | 27 | 186 | 42 | 4.81 | 20 | 1.97 | 30 |
| L767551 | | <0.5 | 6.63 | 11 | 3080 | 3.4 | <2 | 4.30 | <0.5 | 19 | 181 | 88 | 5.38 | 30 | 4.12 | 150 |
| L767552 | | <0.5 | 6.94 | <5 | 1690 | 3.4 | <2 | 4.31 | <0.5 | 14 | 56 | 42 | 5.21 | 20 | 3.52 | 70 |
| L767553 | | <0.5 | 7.55 | <5 | 3720 | 3.6 | <2 | 2.21 | <0.5 | 11 | 21 | 9 | 3.57 | 20 | 6.86 | 50 |
| L767554 | | <0.5 | 4.28 | <5 | 2190 | 3.2 | <2 | 6.50 | 0.5 | 32 | 69 | 56 | 7.57 | 20 | 1.64 | 120 |
| L767555 | | <0.5 | 8.30 | 18 | 2130 | 2.4 | <2 | 4.64 | <0.5 | 27 | 60 | 12 | 6.14 | 20 | 3.66 | 100 |
| L767556 | | <0.5 | 6.73 | 15 | 1590 | 2.8 | <2 | 5.52 | <0.5 | 25 | 119 | 70 | 5.43 | 20 | 3.14 | 70 |
| L767557 | | <0.5 | 6.73 | 12 | 1670 | 2.1 | <2 | 5.47 | <0.5 | 27 | 115 | 89 | 5.71 | 10 | 2.47 | 60 |
| L767558 | | <0.5 | 7.43 | 23 | 1960 | 3.3 | <2 | 3.97 | <0.5 | 20 | 55 | 149 | 5.28 | 20 | 3.37 | 80 |
| L767559 | | <0.5 | 7.10 | 10 | 1850 | 2.4 | <2 | 4.23 | <0.5 | 16 | 49 | 141 | 4.70 | 20 | 2.16 | 80 |
| L767560 | | <0.5 | 8.58 | <5 | 1900 | 4.3 | <2 | 2.32 | <0.5 | 12 | 12 | 41 | 4.35 | 20 | 4.62 | 70 |
| L767561 | | <0.5 | 7.27 | 7 | 970 | 2.0 | <2 | 3.56 | <0.5 | 15 | 33 | 39 | 4.44 | 20 | 1.93 | 70 |
| L767562 | | <0.5 | 6.57 | 9 | 1670 | 1.9 | <2 | 4.59 | <0.5 | 23 | 106 | 88 | 5.58 | 20 | 2.80 | 60 |
| L767563 | | <0.5 | 7.89 | 15 | 2150 | 2.6 | 2 | 2.54 | <0.5 | 19 | 61 | 83 | 6.13 | 20 | 2.95 | 90 |
| L767564 | | <0.5 | 8.97 | 21 | 1330 | 1.8 | <2 | 1.22 | <0.5 | 31 | 223 | 59 | 3.30 | 20 | 2.09 | 60 |
| L767565 | | <0.5 | 3.25 | 5 | 30 | <0.5 | <2 | 4.57 | <0.5 | 63 | 512 | 62 | 8.46 | 10 | 0.01 | <10 |
| L767566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174993 | | <0.5 | 7.69 | 18 | 1190 | 1.5 | 2 | 3.06 | <0.5 | 13 | 76 | 19 | 4.56 | 20 | 1.84 | 50 |
| L174994 | | <0.5 | 7.92 | 15 | 2470 | 2.7 | <2 | 2.08 | <0.5 | 16 | 203 | 112 | 4.22 | 20 | 4.32 | 40 |
| L174995 | | 0.5 | 6.62 | 126 | 940 | 1.5 | <2 | 2.40 | <0.5 | 20 | 73 | 87 | 4.26 | 20 | 2.93 | 50 |
| L174996 | | <0.5 | 6.72 | 45 | 1350 | 1.8 | <2 | 3.04 | <0.5 | 15 | 48 | 39 | 3.90 | 20 | 2.57 | 30 |
| L174997 | | <0.5 | 7.19 | 33 | 810 | 3.5 | <2 | 2.13 | <0.5 | 23 | 84 | 74 | 4.39 | 20 | 3.09 | 40 |
| L174998 | | <0.5 | 6.32 | 123 | 740 | 1.3 | 2 | 1.02 | <0.5 | 27 | 153 | 39 | 4.98 | 20 | 1.85 | 60 |
| L174999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L175000 | | <0.5 | 7.72 | 51 | 1300 | 1.8 | <2 | 2.49 | <0.5 | 20 | 76 | 9 | 4.49 | 20 | 2.22 | 60 |
| N440751 | | <0.5 | 7.32 | 7 | 2390 | 6.2 | 2 | 2.79 | <0.5 | 23 | 55 | 197 | 6.75 | 20 | 4.29 | 180 |
| N440752 | | <0.5 | 5.34 | 7 | 6180 | 6.8 | <2 | 5.94 | <0.5 | 17 | 200 | 159 | 5.30 | 20 | 3.18 | 160 |
| N440753 | | <0.5 | 7.18 | 15 | 580 | 1.1 | <2 | 2.31 | <0.5 | 24 | 196 | 53 | 4.57 | 20 | 1.33 | 30 |
| N440754 | | <0.5 | 9.17 | 84 | 670 | 1.2 | <2 | 0.10 | <0.5 | 20 | 159 | 31 | 2.94 | 20 | 2.63 | 30 |
| N440755 | | <0.5 | 6.76 | 16 | 50 | <0.5 | <2 | 3.73 | <0.5 | 43 | 179 | 103 | 6.77 | 20 | 0.09 | <10 |
| N440756 | | <0.5 | 8.18 | <5 | 350 | 0.5 | 2 | 4.02 | <0.5 | 24 | 35 | 47 | 4.95 | 20 | 0.74 | 10 |
| N440757 | | <0.5 | 8.41 | 12 | 520 | 1.1 | <2 | 1.11 | <0.5 | 30 | 185 | 49 | 4.28 | 20 | 1.88 | 20 |
| N440758 | | <0.5 | 6.38 | 6 | 500 | <0.5 | <2 | 4.81 | <0.5 | 20 | 112 | 32 | 6.64 | 10 | 1.06 | <10 |
| N440759 | | <0.5 | 8.10 | 6 | 140 | 0.5 | <2 | 0.32 | <0.5 | 25 | 202 | 8 | 5.33 | 20 | 0.47 | 20 |
| N440760 | | <0.5 | 8.46 | 33 | 690 | 1.3 | <2 | 1.17 | <0.5 | 25 | 197 | 50 | 4.08 | 20 | 2.67 | 30 |
| N450951 | | <0.5 | 8.22 | 14 | 40 | <0.5 | <2 | 4.87 | <0.5 | 64 | 291 | 79 | 5.87 | 20 | 0.10 | <10 |
| N450952 | | <0.5 | 6.75 | 39 | 1220 | 1.5 | <2 | 7.25 | <0.5 | 10 | 61 | 53 | 3.52 | 20 | 1.75 | 60 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L767547 | | 1.48 | 866 | <1 | 2.70 | 68 | 600 | 6 | 0.04 | <5 | 11 | 588 | <20 | 0.23 | <10 | <10 |
| L767548 | | 2.16 | 1240 | <1 | 2.13 | 107 | 800 | 7 | 0.57 | <5 | 18 | 681 | <20 | 0.40 | <10 | <10 |
| L767549 | | 1.55 | 743 | <1 | 3.48 | 73 | 840 | 9 | 0.11 | <5 | 14 | 705 | <20 | 0.36 | <10 | <10 |
| L767550 | | 2.15 | 415 | <1 | 2.15 | 99 | 800 | 3 | 0.21 | <5 | 16 | 147 | <20 | 0.32 | <10 | <10 |
| L767551 | | 1.78 | 1225 | <1 | 2.85 | 58 | 1590 | 25 | 0.04 | <5 | 15 | 2030 | 40 | 0.28 | <10 | <10 |
| L767552 | | 1.86 | 1130 | <1 | 3.09 | 18 | 2420 | 21 | 0.03 | 5 | 14 | 1495 | 20 | 0.38 | <10 | <10 |
| L767553 | | 0.73 | 982 | <1 | 0.93 | 11 | 1450 | 26 | 0.06 | 5 | 6 | 2260 | 30 | 0.30 | <10 | <10 |
| L767554 | | 2.80 | 1665 | <1 | 1.69 | 50 | 3140 | 40 | 0.06 | 14 | 25 | 2200 | 30 | 0.48 | <10 | <10 |
| L767555 | | 2.17 | 959 | <1 | 3.54 | 20 | 2680 | 33 | 0.02 | 5 | 17 | 1665 | 30 | 0.49 | <10 | <10 |
| L767556 | | 2.69 | 1020 | <1 | 1.53 | 41 | 2580 | 8 | 0.03 | <5 | 21 | 1700 | 20 | 0.35 | 10 | <10 |
| L767557 | | 2.99 | 1080 | <1 | 2.44 | 41 | 2470 | 20 | 0.01 | <5 | 22 | 1650 | 20 | 0.45 | 10 | <10 |
| L767558 | | 1.86 | 1180 | <1 | 3.53 | 21 | 2340 | 16 | 0.03 | <5 | 15 | 1360 | 20 | 0.42 | 10 | <10 |
| L767559 | | 1.70 | 1180 | <1 | 3.93 | 18 | 2260 | 24 | 0.06 | 5 | 14 | 1750 | 30 | 0.36 | <10 | <10 |
| L767560 | | 0.98 | 1150 | <1 | 2.60 | 5 | 2710 | 16 | 0.04 | <5 | 6 | 1285 | 20 | 0.30 | <10 | <10 |
| L767561 | | 1.20 | 1180 | <1 | 4.62 | 13 | 2470 | 12 | 0.02 | <5 | 9 | 1110 | 20 | 0.31 | 10 | <10 |
| L767562 | | 2.80 | 1085 | 1 | 2.44 | 39 | 2390 | 14 | 0.01 | <5 | 21 | 1165 | 20 | 0.44 | 10 | <10 |
| L767563 | | 1.60 | 1325 | <1 | 3.94 | 23 | 2500 | 65 | 0.02 | <5 | 16 | 1060 | 20 | 0.45 | 10 | <10 |
| L767564 | | 1.27 | 542 | <1 | 3.61 | 113 | 1760 | 16 | 0.25 | <5 | 15 | 303 | 20 | 0.46 | <10 | <10 |
| L767565 | | 5.72 | 1885 | <1 | 0.01 | 589 | 180 | <2 | 0.02 | <5 | 8 | 171 | <20 | 0.12 | 10 | <10 |
| L767566 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174993 | | 2.49 | 864 | <1 | 3.69 | 52 | 1910 | 13 | 0.18 | <5 | 12 | 866 | 20 | 0.34 | 10 | <10 |
| L174994 | | 1.00 | 623 | <1 | 1.10 | 47 | 3490 | <2 | 0.04 | <5 | 21 | 382 | 20 | 0.35 | 10 | <10 |
| L174995 | | 1.54 | 758 | 28 | 2.50 | 45 | 1790 | 23 | 2.35 | <5 | 10 | 443 | <20 | 0.29 | 10 | <10 |
| L174996 | | 1.85 | 998 | <1 | 1.93 | 20 | 1260 | 4 | 0.12 | <5 | 13 | 489 | <20 | 0.26 | 10 | <10 |
| L174997 | | 1.06 | 652 | <1 | 0.73 | 30 | 1470 | 17 | 2.26 | <5 | 19 | 524 | <20 | 0.19 | 10 | <10 |
| L174998 | | 2.05 | 529 | <1 | 1.94 | 97 | 1530 | 26 | 1.22 | <5 | 12 | 268 | <20 | 0.25 | 10 | <10 |
| L174999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L175000 | | 2.41 | 575 | <1 | 3.52 | 47 | 2010 | 14 | 1.64 | <5 | 13 | 511 | 20 | 0.35 | 10 | <10 |
| N440751 | | 1.10 | 1070 | <1 | 0.03 | 35 | 4260 | 12 | 0.05 | <5 | 20 | 825 | 40 | 0.44 | <10 | <10 |
| N440752 | | 1.88 | 1625 | <1 | <0.01 | 68 | 1820 | 19 | 0.17 | <5 | 14 | 1980 | 40 | 0.23 | <10 | <10 |
| N440753 | | 1.66 | 869 | <1 | 2.53 | 115 | 970 | 7 | 0.14 | <5 | 17 | 349 | <20 | 0.31 | <10 | <10 |
| N440754 | | 0.23 | 446 | <1 | 2.08 | 57 | 540 | <2 | 0.03 | <5 | 13 | 197 | <20 | 0.19 | <10 | <10 |
| N440755 | | 3.25 | 1060 | <1 | 1.86 | 75 | 190 | <2 | 0.94 | <5 | 40 | 138 | <20 | 0.44 | 10 | <10 |
| N440756 | | 2.18 | 818 | <1 | 2.21 | 86 | 780 | <2 | 0.01 | <5 | 16 | 286 | <20 | 0.49 | <10 | <10 |
| N440757 | | 1.05 | 348 | <1 | 1.80 | 114 | 880 | <2 | 0.05 | <5 | 19 | 139 | <20 | 0.35 | 10 | <10 |
| N440758 | | 1.81 | 1740 | <1 | 2.02 | 61 | 660 | <2 | 0.07 | <5 | 18 | 286 | <20 | 0.46 | <10 | <10 |
| N440759 | | 2.45 | 336 | <1 | 3.59 | 108 | 690 | <2 | 0.12 | <5 | 16 | 92 | <20 | 0.41 | 10 | <10 |
| N440760 | | 1.32 | 335 | 1 | 1.09 | 106 | 740 | 5 | 0.10 | <5 | 18 | 141 | <20 | 0.36 | 10 | <10 |
| N450951 | | 3.00 | 1960 | <1 | 2.45 | 192 | 200 | <2 | 0.01 | <5 | 38 | 224 | <20 | 0.51 | <10 | <10 |
| N450952 | | 2.23 | 1445 | <1 | 2.55 | 42 | 1760 | 27 | 0.38 | <5 | 11 | 884 | <20 | 0.30 | 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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|
| L767547 | | 93 | <10 | 61 |
| L767548 | | 161 | <10 | 122 |
| L767549 | | 119 | <10 | 83 |
| L767550 | | 140 | <10 | 98 |
| L767551 | | 203 | <10 | 103 |
| L767552 | | 196 | <10 | 98 |
| L767553 | | 101 | <10 | 98 |
| L767554 | | 328 | <10 | 210 |
| L767555 | | 216 | <10 | 166 |
| L767556 | | 161 | <10 | 86 |
| L767557 | | 172 | <10 | 92 |
| L767558 | | 194 | <10 | 101 |
| L767559 | | 171 | <10 | 135 |
| L767560 | | 112 | <10 | 111 |
| L767561 | | 136 | <10 | 97 |
| L767562 | | 163 | <10 | 72 |
| L767563 | | 204 | <10 | 161 |
| L767564 | | 134 | <10 | 61 |
| L767565 | | 80 | <10 | 104 |
| L767566 | | NSS | NSS | NSS |
| L174993 | | 127 | <10 | 96 |
| L174994 | | 196 | <10 | 91 |
| L174995 | | 154 | 10 | 68 |
| L174996 | | 118 | <10 | 101 |
| L174997 | | 172 | <10 | 52 |
| L174998 | | 99 | <10 | 127 |
| L174999 | | NSS | NSS | NSS |
| L175000 | | 123 | <10 | 88 |
| N440751 | | 222 | <10 | 130 |
| N440752 | | 209 | <10 | 144 |
| N440753 | | 137 | <10 | 86 |
| N440754 | | 110 | <10 | 60 |
| N440755 | | 277 | <10 | 117 |
| N440756 | | 206 | <10 | 70 |
| N440757 | | 149 | <10 | 97 |
| N440758 | | 176 | <10 | 92 |
| N440759 | | 134 | <10 | 113 |
| N440760 | | 138 | <10 | 83 |
| N450951 | | 268 | <10 | 91 |
| N450952 | | 106 | <10 | 130 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N450953 | | <0.5 | 7.18 | 27 | 1000 | 1.5 | <2 | 3.35 | <0.5 | 20 | 71 | 17 | 3.88 | 20 | 1.46 | 60 |
| N450954 | | <0.5 | 7.25 | 28 | 1440 | 1.8 | <2 | 2.86 | <0.5 | 18 | 81 | 22 | 4.13 | 20 | 2.76 | 60 |
| N450955 | | <0.5 | 7.94 | 24 | 1300 | 1.6 | <2 | 3.11 | <0.5 | 22 | 85 | 42 | 4.64 | 20 | 2.23 | 60 |
| N450956 | | <0.5 | 6.77 | 5 | 30 | <0.5 | <2 | 5.84 | <0.5 | 44 | 174 | 103 | 8.99 | 20 | 0.03 | <10 |
| N450957 | | <0.5 | 7.15 | 75 | 930 | 2.3 | <2 | 2.65 | <0.5 | 19 | 105 | 23 | 3.76 | 20 | 4.13 | 40 |
| N450958 | | <0.5 | 7.30 | 66 | 1470 | 1.9 | 2 | 2.59 | <0.5 | 21 | 103 | 86 | 4.29 | 20 | 3.18 | 50 |
| N450959 | | <0.5 | 6.44 | 5 | 510 | 0.6 | <2 | 5.79 | <0.5 | 38 | 336 | 51 | 7.45 | 20 | 0.04 | 20 |
| N450960 | | <0.5 | 7.03 | 15 | 1830 | 1.8 | <2 | 3.28 | <0.5 | 3 | 91 | 71 | 3.92 | 20 | 3.97 | 40 |
| N450961 | | <0.5 | 7.17 | 14 | 1950 | 1.5 | <2 | 3.67 | <0.5 | 14 | 74 | 76 | 4.44 | 20 | 2.80 | 50 |
| N450962 | | <0.5 | 7.35 | 51 | 790 | 2.1 | <2 | 3.08 | <0.5 | 20 | 78 | 40 | 4.40 | 20 | 2.92 | 50 |
| N450963 | | <0.5 | 7.79 | 9 | 1520 | 1.8 | <2 | 1.65 | <0.5 | 18 | 86 | 32 | 4.70 | 30 | 1.99 | 60 |
| N450964 | | <0.5 | 0.60 | <5 | 60 | <0.5 | <2 | 0.86 | <0.5 | 2 | 25 | 7 | 1.27 | <10 | 0.03 | <10 |
| N450965 | | <0.5 | 7.24 | 54 | 1680 | 1.6 | <2 | 1.64 | <0.5 | 16 | 96 | 7 | 3.84 | 20 | 2.23 | 60 |
| N450966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N450967 | | <0.5 | 8.45 | <5 | 90 | 0.5 | <2 | 4.38 | <0.5 | 33 | 109 | 81 | 5.71 | 20 | 0.04 | 10 |
| N450968 | | <0.5 | 7.65 | 17 | 760 | 1.2 | <2 | 0.70 | <0.5 | 13 | 185 | 37 | 4.22 | 20 | 1.68 | 30 |
| N450969 | | <0.5 | 7.84 | 35 | 2060 | 1.8 | <2 | 3.78 | <0.5 | 26 | 76 | 37 | 5.29 | 20 | 2.11 | 60 |
| N450970 | | <0.5 | 8.07 | 43 | 1330 | 1.3 | 2 | 1.35 | <0.5 | 25 | 135 | 9 | 4.65 | 20 | 2.46 | 40 |
| N450971 | | <0.5 | 7.65 | 13 | 570 | 2.0 | 2 | 1.65 | <0.5 | 19 | 160 | 38 | 4.34 | 20 | 1.29 | 70 |
| N450972 | | <0.5 | 6.39 | 30 | 940 | 1.7 | 2 | 2.42 | <0.5 | 8 | 57 | 16 | 3.02 | 20 | 1.90 | 30 |
| N450973 | | <0.5 | 7.80 | 61 | 1600 | 2.1 | <2 | 0.37 | <0.5 | 10 | 53 | 13 | 2.56 | 20 | 3.47 | 40 |
| N450974 | | <0.5 | 6.71 | 22 | 1630 | 1.8 | <2 | 2.46 | <0.5 | 4 | 40 | 5 | 2.19 | 20 | 2.30 | 30 |
| N450975 | | <0.5 | 6.74 | 56 | 1410 | 1.7 | <2 | 3.40 | <0.5 | 15 | 115 | 133 | 4.63 | 20 | 2.28 | 30 |
| N450976 | | 0.5 | 7.59 | 96 | 2070 | 2.4 | <2 | 0.15 | <0.5 | 8 | 83 | 23 | 3.68 | 20 | 4.24 | 60 |
| N450977 | | 0.7 | 11.80 | 109 | 3170 | 3.5 | 6 | 0.33 | <0.5 | 12 | 67 | 19 | 2.73 | 30 | 5.05 | 50 |
| N450978 | | <0.5 | 6.42 | 32 | 1830 | 1.8 | <2 | 3.06 | <0.5 | 13 | 43 | 17 | 2.16 | 20 | 2.74 | 40 |
| N450979 | | <0.5 | 8.11 | 53 | 1220 | 1.9 | <2 | 1.72 | <0.5 | 10 | 53 | 12 | 2.91 | 20 | 2.86 | 20 |
| N450980 | | <0.5 | 7.49 | 59 | 990 | 1.8 | <2 | 2.10 | <0.5 | 6 | 52 | 4 | 2.35 | 20 | 3.27 | 30 |
| N450981 | | <0.5 | 7.04 | 57 | 1780 | 1.8 | <2 | 2.15 | <0.5 | 7 | 50 | 5 | 1.88 | 20 | 3.37 | 20 |
| N450982 | | <0.5 | 7.89 | 30 | 3110 | 1.9 | <2 | 1.50 | <0.5 | 14 | 71 | 49 | 3.57 | 20 | 2.53 | 50 |
| N450983 | | 1.6 | 9.90 | 245 | 1940 | 2.8 | 6 | 0.29 | <0.5 | 8 | 74 | 18 | 3.16 | 20 | 4.45 | 40 |
| N450984 | | <0.5 | 6.90 | 63 | 910 | 1.7 | 2 | 3.78 | <0.5 | 16 | 99 | 23 | 4.35 | 20 | 2.26 | 30 |
| N450985 | | <0.5 | 6.58 | 109 | 740 | 1.9 | <2 | 4.30 | <0.5 | 19 | 84 | 36 | 5.48 | 20 | 3.44 | 50 |
| N450986 | | <0.5 | 6.42 | <5 | 80 | <0.5 | 4 | 6.40 | <0.5 | 23 | 174 | 40 | 7.45 | 10 | 0.12 | <10 |
| N450987 | | <0.5 | 6.42 | 269 | 1600 | 1.4 | <2 | 4.10 | <0.5 | 20 | 117 | 73 | 5.50 | 20 | 2.61 | 30 |
| N450988 | | <0.5 | 6.21 | 13 | 1410 | 1.4 | <2 | 3.29 | <0.5 | 12 | 76 | 11 | 3.01 | 20 | 1.89 | 40 |
| N450989 | | <0.5 | 7.39 | <5 | 3330 | 2.0 | 4 | 2.15 | <0.5 | 8 | 37 | 4 | 2.48 | 20 | 2.04 | 40 |
| N450990 | | <0.5 | 7.15 | 21 | 1420 | 1.7 | <2 | 3.19 | <0.5 | 10 | 53 | 9 | 2.51 | 20 | 2.81 | 40 |
| N450991 | | <0.5 | 7.53 | 48 | 1260 | 1.2 | <2 | 2.12 | <0.5 | 15 | 99 | 18 | 3.44 | 20 | 1.11 | 50 |
| N450992 | | 0.5 | 7.50 | 66 | 1310 | 1.6 | <2 | 1.97 | <0.5 | 15 | 74 | 23 | 3.17 | 20 | 2.47 | 40 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
| N450953 | | 2.06 | 1035 | <1 | 3.77 | 47 | 1910 | 5 | 0.97 | <5 | 12 | 452 | <20 | 0.30 | <10 | <10 |
| N450954 | | 2.25 | 966 | <1 | 2.17 | 51 | 1960 | 8 | 0.42 | <5 | 12 | 608 | <20 | 0.33 | <10 | <10 |
| N450955 | | 2.49 | 759 | 1 | 3.64 | 56 | 2020 | 23 | 0.42 | <5 | 13 | 800 | <20 | 0.36 | <10 | <10 |
| N450956 | | 4.43 | 1515 | <1 | 0.35 | 100 | 310 | 2 | <0.01 | 5 | 39 | 99 | <20 | 0.66 | <10 | <10 |
| N450957 | | 1.98 | 827 | 1 | 1.64 | 58 | 1740 | 34 | 1.06 | <5 | 10 | 303 | <20 | 0.31 | <10 | <10 |
| N450958 | | 2.25 | 1000 | <1 | 1.94 | 68 | 1760 | 23 | 0.71 | 5 | 10 | 486 | <20 | 0.31 | <10 | <10 |
| N450959 | | 6.49 | 1565 | <1 | 1.74 | 255 | 1860 | 3 | 0.02 | <5 | 31 | 267 | <20 | 0.64 | <10 | <10 |
| N450960 | | 1.94 | 1090 | <1 | 0.70 | 59 | 1790 | 9 | 0.01 | <5 | 10 | 819 | <20 | 0.33 | <10 | <10 |
| N450961 | | 2.23 | 1160 | <1 | 2.96 | 47 | 1880 | 8 | 0.08 | 8 | 11 | 915 | <20 | 0.36 | <10 | <10 |
| N450962 | | 2.28 | 747 | 3 | 2.38 | 45 | 2080 | 16 | 1.34 | 5 | 12 | 316 | <20 | 0.33 | <10 | <10 |
| N450963 | | 2.35 | 518 | <1 | 3.74 | 54 | 2090 | 8 | 0.05 | 6 | 13 | 697 | <20 | 0.32 | <10 | <10 |
| N450964 | | 0.37 | 556 | 1 | 0.33 | 9 | 90 | <2 | <0.01 | <5 | 3 | 46 | <20 | 0.06 | <10 | <10 |
| N450965 | | 1.58 | 768 | 10 | 2.92 | 47 | 1720 | 14 | 0.81 | 8 | 11 | 574 | <20 | 0.31 | <10 | <10 |
| N450966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N450967 | | 3.04 | 1240 | <1 | 3.19 | 63 | 820 | 2 | 0.01 | 6 | 32 | 165 | <20 | 0.80 | <10 | <10 |
| N450968 | | 1.22 | 607 | 1 | 2.77 | 80 | 650 | 8 | 0.12 | <5 | 14 | 288 | <20 | 0.27 | <10 | <10 |
| N450969 | | 2.90 | 931 | <1 | 3.19 | 54 | 1980 | 18 | 0.84 | <5 | 15 | 663 | <20 | 0.38 | 10 | <10 |
| N450970 | | 2.40 | 533 | 1 | 4.04 | 81 | 2080 | 16 | 1.39 | <5 | 10 | 428 | <20 | 0.37 | <10 | <10 |
| N450971 | | 2.05 | 642 | <1 | 3.86 | 98 | 1850 | 4 | 0.05 | <5 | 13 | 361 | 20 | 0.39 | <10 | <10 |
| N450972 | | 0.96 | 715 | 1 | 2.49 | 21 | 1150 | 8 | 0.31 | 6 | 8 | 798 | <20 | 0.10 | <10 | <10 |
| N450973 | | 0.23 | 298 | <1 | 0.89 | 23 | 960 | 20 | 0.47 | 8 | 8 | 168 | <20 | 0.09 | <10 | <10 |
| N450974 | | 1.06 | 756 | 1 | 1.53 | 22 | 830 | 10 | 0.11 | 6 | 6 | 509 | <20 | 0.08 | <10 | <10 |
| N450975 | | 2.00 | 1325 | <1 | 2.12 | 52 | 1930 | 5 | 0.59 | <5 | 16 | 645 | <20 | 0.27 | <10 | <10 |
| N450976 | | 0.50 | 156 | 1 | 0.06 | 15 | 1300 | 26 | 0.96 | 7 | 13 | 124 | 20 | 0.12 | <10 | <10 |
| N450977 | | 0.26 | 151 | 4 | 2.86 | 36 | 1080 | 51 | 2.26 | <5 | 8 | 277 | 20 | 0.13 | <10 | <10 |
| N450978 | | 1.29 | 656 | <1 | 0.85 | 28 | 990 | 50 | 0.46 | 7 | 6 | 607 | <20 | 0.08 | <10 | <10 |
| N450979 | | 0.83 | 683 | <1 | 2.85 | 26 | 930 | 16 | 0.99 | <5 | 8 | 709 | <20 | 0.11 | <10 | <10 |
| N450980 | | 0.86 | 741 | <1 | 2.15 | 25 | 910 | 11 | 0.31 | <5 | 7 | 624 | <20 | 0.13 | <10 | <10 |
| N450981 | | 0.76 | 665 | 1 | 2.05 | 24 | 900 | 150 | 0.71 | <5 | 7 | 952 | <20 | 0.13 | <10 | <10 |
| N450982 | | 0.72 | 572 | 1 | 3.14 | 28 | 950 | 17 | 1.32 | <5 | 9 | 662 | <20 | 0.10 | <10 | <10 |
| N450983 | | 0.26 | 112 | 98 | 1.57 | 16 | 1380 | 350 | 1.70 | 6 | 16 | 280 | <20 | 0.17 | <10 | <10 |
| N450984 | | 1.31 | 1225 | <1 | 2.57 | 32 | 1380 | 13 | 1.54 | <5 | 21 | 973 | <20 | 0.14 | <10 | <10 |
| N450985 | | 1.87 | 1435 | <1 | 0.12 | 30 | 1930 | 14 | 2.48 | <5 | 23 | 594 | <20 | 0.17 | <10 | <10 |
| N450986 | | 2.44 | 1810 | 1 | 2.07 | 61 | 540 | 2 | 0.15 | <5 | 42 | 473 | <20 | 0.89 | <10 | <10 |
| N450987 | | 2.07 | 1340 | 2 | 1.72 | 37 | 1340 | 71 | 1.75 | 10 | 20 | 1085 | <20 | 0.16 | <10 | <10 |
| N450988 | | 1.99 | 773 | <1 | 2.45 | 46 | 1160 | 8 | 0.12 | 7 | 8 | 773 | <20 | 0.17 | <10 | <10 |
| N450989 | | 0.93 | 548 | <1 | 3.89 | 20 | 1190 | 15 | 0.21 | 8 | 7 | 2930 | <20 | 0.19 | <10 | <10 |
| N450990 | | 1.19 | 827 | <1 | 1.32 | 28 | 1180 | 7 | 0.89 | <5 | 9 | 486 | <20 | 0.16 | <10 | <10 |
| N450991 | | 1.73 | 862 | <1 | 4.64 | 54 | 1300 | 44 | 1.16 | 8 | 10 | 561 | <20 | 0.25 | <10 | <10 |
| N450992 | | 1.21 | 638 | <1 | 2.76 | 42 | 1150 | 60 | 2.47 | 6 | 9 | 1020 | <20 | 0.16 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|
| N450953 | | 108 | <10 | 85 |
| N450954 | | 118 | <10 | 90 |
| N450955 | | 122 | <10 | 110 |
| N450956 | | 334 | <10 | 97 |
| N450957 | | 115 | 10 | 78 |
| N450958 | | 111 | <10 | 114 |
| N450959 | | 219 | <10 | 116 |
| N450960 | | 108 | <10 | 142 |
| N450961 | | 117 | <10 | 129 |
| N450962 | | 130 | <10 | 146 |
| N450963 | | 129 | <10 | 167 |
| N450964 | | 16 | <10 | 18 |
| N450965 | | 117 | <10 | 72 |
| N450966 | | NSS | NSS | NSS |
| N450967 | | 294 | <10 | 86 |
| N450968 | | 106 | <10 | 98 |
| N450969 | | 141 | <10 | 94 |
| N450970 | | 107 | <10 | 95 |
| N450971 | | 131 | <10 | 123 |
| N450972 | | 86 | <10 | 66 |
| N450973 | | 76 | <10 | 52 |
| N450974 | | 59 | <10 | 79 |
| N450975 | | 156 | <10 | 144 |
| N450976 | | 125 | <10 | 40 |
| N450977 | | 77 | <10 | 27 |
| N450978 | | 52 | <10 | 75 |
| N450979 | | 74 | <10 | 86 |
| N450980 | | 63 | <10 | 83 |
| N450981 | | 59 | <10 | 95 |
| N450982 | | 92 | <10 | 110 |
| N450983 | | 152 | <10 | 41 |
| N450984 | | 122 | <10 | 85 |
| N450985 | | 196 | <10 | 95 |
| N450986 | | 390 | <10 | 78 |
| N450987 | | 161 | 10 | 85 |
| N450988 | | 77 | <10 | 98 |
| N450989 | | 65 | <10 | 57 |
| N450990 | | 75 | <10 | 49 |
| N450991 | | 80 | <10 | 73 |
| N450992 | | 76 | <10 | 85 |

***** 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 SD14042943

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N450993 | | <0.5 | 7.12 | 13 | 1780 | 2.2 | <2 | 2.01 | <0.5 | 13 | 77 | 12 | 3.06 | 20 | 2.25 | 30 |
| N450994 | | <0.5 | 7.34 | 24 | 4220 | 1.6 | <2 | 1.62 | <0.5 | 13 | 86 | 17 | 3.18 | 20 | 1.60 | 40 |
| N450995 | | 1.3 | 7.80 | 125 | 1150 | 1.6 | <2 | 0.98 | <0.5 | 15 | 104 | 14 | 3.13 | 20 | 1.92 | 40 |
| N450996 | | <0.5 | 6.91 | 60 | 1250 | 1.7 | <2 | 2.47 | <0.5 | 23 | 165 | 41 | 4.17 | 20 | 1.89 | 50 |
| N450997 | | <0.5 | 6.88 | <5 | 2950 | 1.4 | <2 | 3.78 | <0.5 | 9 | 85 | 20 | 3.74 | 20 | 1.30 | 40 |
| N450998 | | <0.5 | 6.60 | 45 | 1370 | 1.4 | 2 | 2.31 | <0.5 | 15 | 83 | 14 | 3.38 | 20 | 1.76 | 40 |
| N450999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451000 | | <0.5 | 7.36 | 30 | 1470 | 1.6 | <2 | 1.85 | <0.5 | 17 | 117 | 10 | 3.72 | 20 | 1.59 | 60 |
| N459601 | | <0.5 | 6.84 | 5 | 1380 | 2.3 | <2 | 2.17 | <0.5 | 21 | 171 | 6 | 3.37 | 20 | 2.49 | 40 |
| N459602 | | <0.5 | 6.69 | <5 | 1680 | 1.6 | <2 | 2.48 | <0.5 | 9 | 70 | 26 | 2.47 | 20 | 2.82 | 20 |
| N459603 | | <0.5 | 8.17 | 8 | 2150 | 2.4 | <2 | 1.63 | <0.5 | 14 | 44 | 2 | 2.75 | 20 | 2.50 | 40 |
| N459604 | | <0.5 | 7.36 | 10 | 1430 | 1.7 | 3 | 2.46 | <0.5 | 17 | 147 | 10 | 2.89 | 20 | 2.44 | 40 |
| N459605 | | <0.5 | 8.26 | <5 | 280 | <0.5 | <2 | 4.34 | <0.5 | 32 | 206 | 15 | 5.29 | 20 | 0.89 | 10 |
| N459606 | | <0.5 | 6.13 | 7 | 1740 | 1.5 | 3 | 3.32 | <0.5 | 10 | 108 | 16 | 2.58 | 20 | 2.95 | 30 |
| N459607 | | <0.5 | 6.48 | 8 | 4180 | 3.8 | <2 | 4.35 | <0.5 | 23 | 91 | 90 | 6.31 | 20 | 5.77 | 120 |
| N459608 | | <0.5 | 6.71 | 27 | 2560 | 2.7 | <2 | 3.61 | <0.5 | 20 | 89 | 18 | 4.76 | 20 | 2.55 | 90 |
| N459609 | | <0.5 | 7.75 | 5 | 1290 | 0.9 | <2 | 2.78 | <0.5 | 29 | 202 | 47 | 5.03 | 20 | 0.63 | 30 |
| N459610 | | <0.5 | 8.07 | 25 | 2440 | 1.6 | <2 | 1.34 | <0.5 | 23 | 146 | 39 | 3.78 | 20 | 2.13 | 60 |
| N459611 | | <0.5 | 5.09 | 111 | 1170 | 1.2 | 2 | 4.15 | <0.5 | 10 | 84 | 14 | 2.32 | 10 | 1.99 | 30 |
| N459612 | | <0.5 | 7.35 | 13 | 6700 | 1.5 | <2 | 2.85 | <0.5 | 20 | 165 | 27 | 4.04 | 20 | 1.78 | 40 |
| N459613 | | 1.0 | 4.94 | 104 | 930 | 2.0 | <2 | 11.00 | 0.5 | 10 | 48 | 17 | 2.67 | 10 | 2.53 | 40 |
| N459614 | | <0.5 | 7.13 | 106 | 2190 | 2.1 | <2 | 2.56 | <0.5 | 14 | 104 | 22 | 3.24 | 20 | 4.02 | 50 |
| N459615 | | <0.5 | 7.17 | 71 | 1290 | 2.0 | <2 | 1.58 | <0.5 | 13 | 111 | 19 | 3.30 | 20 | 2.30 | 40 |
| N459616 | | <0.5 | 7.19 | 12 | 350 | 1.5 | <2 | 2.02 | <0.5 | 17 | 100 | 18 | 4.29 | 20 | 1.35 | 40 |
| N459617 | | <0.5 | 7.07 | 23 | 1590 | 1.9 | <2 | 2.29 | <0.5 | 22 | 162 | 40 | 4.59 | 20 | 1.79 | 30 |
| N459618 | | <0.5 | 7.32 | 26 | 2200 | 1.9 | <2 | 1.47 | <0.5 | 26 | 242 | 49 | 4.88 | 20 | 1.34 | 40 |
| N459619 | | <0.5 | 7.06 | 9 | 4010 | 2.7 | <2 | 2.68 | <0.5 | 16 | 41 | 94 | 4.76 | 20 | 3.98 | 90 |
| N459620 | | <0.5 | 7.40 | 21 | 2350 | 2.1 | <2 | 1.89 | <0.5 | 25 | 146 | 59 | 5.02 | 20 | 1.75 | 40 |
| N459621 | | <0.5 | 7.62 | 8 | 1170 | 2.4 | <2 | 1.80 | <0.5 | 24 | 148 | 58 | 5.19 | 20 | 1.36 | 60 |
| N459622 | | <0.5 | 7.87 | <5 | 3020 | 5.1 | <2 | 2.88 | <0.5 | 13 | 25 | 18 | 4.12 | 20 | 7.21 | 50 |
| N459623 | | <0.5 | 5.50 | 11 | 1330 | 4.1 | <2 | 5.68 | <0.5 | 30 | 142 | 68 | 7.60 | 20 | 5.03 | 120 |
| N459624 | | <0.5 | 8.55 | 7 | 4190 | 7.8 | <2 | 1.48 | <0.5 | 9 | 26 | 65 | 5.32 | 20 | 4.25 | 140 |
| N459625 | | <0.5 | 7.21 | <5 | 910 | 1.2 | <2 | 1.32 | <0.5 | 5 | 19 | 14 | 1.80 | 20 | 1.13 | 30 |
| N459626 | | <0.5 | 6.84 | 10 | 2970 | 1.9 | <2 | 2.35 | <0.5 | 27 | 214 | 55 | 4.58 | 20 | 1.32 | 40 |
| N459627 | | <0.5 | 7.16 | 5 | 1560 | 2.1 | <2 | 2.31 | <0.5 | 20 | 206 | 41 | 3.93 | 20 | 1.84 | 30 |
| N459628 | | <0.5 | 6.77 | 19 | 630 | 1.1 | <2 | 1.24 | <0.5 | 26 | 244 | 49 | 4.17 | 20 | 1.28 | 20 |
| N459629 | | <0.5 | 6.01 | 6 | 1140 | 1.8 | <2 | 3.49 | <0.5 | 19 | 139 | 42 | 4.17 | 10 | 1.56 | 30 |
| N459630 | | <0.5 | 7.15 | 16 | 3250 | 7.2 | <2 | 4.01 | <0.5 | 20 | 74 | 166 | 6.36 | 20 | 4.39 | 160 |
| N459631 | | <0.5 | 6.24 | 9 | 3250 | 2.5 | 4 | 3.86 | <0.5 | 19 | 39 | 52 | 5.54 | 20 | 4.40 | 130 |
| N459632 | | <0.5 | 7.58 | 14 | 3810 | 5.6 | <2 | 2.65 | <0.5 | 13 | 34 | 143 | 4.08 | 30 | 4.18 | 90 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
| N450993 | | 1.74 | 695 | <1 | 2.64 | 38 | 1120 | 51 | 0.68 | 5 | 9 | 649 | <20 | 0.25 | <10 | <10 |
| N450994 | | 1.66 | 1225 | <1 | 3.58 | 45 | 1210 | 158 | 0.26 | 7 | 9 | 568 | <20 | 0.20 | <10 | <10 |
| N450995 | | 0.58 | 500 | 7 | 3.92 | 43 | 1250 | 71 | 2.07 | <5 | 10 | 555 | <20 | 0.24 | <10 | <10 |
| N450996 | | 1.33 | 929 | 1 | 3.46 | 89 | 1330 | 56 | 2.04 | 11 | 14 | 538 | <20 | 0.26 | <10 | <10 |
| N450997 | | 1.76 | 853 | <1 | 3.33 | 40 | 1350 | 7 | 0.09 | 6 | 12 | 1355 | <20 | 0.26 | <10 | <10 |
| N450998 | | 1.02 | 653 | <1 | 3.45 | 44 | 1100 | 20 | 1.66 | 7 | 8 | 749 | <20 | 0.23 | <10 | <10 |
| N450999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451000 | | 1.45 | 696 | <1 | 3.81 | 71 | 1600 | 9 | 1.84 | <5 | 12 | 625 | <20 | 0.13 | <10 | <10 |
| N459601 | | 2.56 | 492 | <1 | 3.67 | 63 | 1550 | 12 | 0.03 | 10 | 10 | 592 | <20 | 0.21 | <10 | <10 |
| N459602 | | 1.19 | 543 | <1 | 2.53 | 36 | 1040 | 5 | 0.04 | <5 | 8 | 508 | <20 | 0.24 | <10 | <10 |
| N459603 | | 0.74 | 522 | <1 | 3.72 | 24 | 1330 | 10 | 0.10 | 7 | 8 | 648 | <20 | 0.24 | <10 | <10 |
| N459604 | | 1.47 | 785 | <1 | 2.66 | 70 | 1320 | 33 | 0.50 | <5 | 10 | 425 | <20 | 0.16 | <10 | <10 |
| N459605 | | 4.15 | 813 | <1 | 2.04 | 220 | 630 | <2 | <0.01 | <5 | 19 | 260 | <20 | 0.44 | <10 | <10 |
| N459606 | | 1.61 | 706 | <1 | 1.58 | 50 | 1290 | 30 | 0.02 | 7 | 8 | 695 | <20 | 0.15 | <10 | <10 |
| N459607 | | 1.94 | 1375 | <1 | 1.51 | 47 | 1980 | 19 | 0.03 | 13 | 15 | 2090 | 30 | 0.39 | <10 | <10 |
| N459608 | | 1.85 | 954 | <1 | 3.30 | 49 | 2460 | 22 | 0.43 | 5 | 13 | 1125 | 20 | 0.26 | <10 | <10 |
| N459609 | | 3.77 | 820 | <1 | 3.41 | 140 | 1090 | 5 | 0.03 | 7 | 19 | 517 | <20 | 0.32 | <10 | <10 |
| N459610 | | 0.96 | 845 | <1 | 3.56 | 77 | 1310 | 32 | 0.82 | 12 | 12 | 817 | <20 | 0.26 | <10 | <10 |
| N459611 | | 1.70 | 1470 | 18 | 2.03 | 41 | 1010 | 38 | 1.31 | 5 | 8 | 802 | <20 | 0.17 | <10 | <10 |
| N459612 | | 2.66 | 671 | <1 | 2.71 | 106 | 1370 | 11 | 0.17 | <5 | 13 | 1055 | <20 | 0.30 | <10 | <10 |
| N459613 | | 2.93 | 2330 | 6 | 0.45 | 43 | 840 | 35 | 1.61 | 10 | 7 | 1435 | <20 | 0.14 | <10 | <10 |
| N459614 | | 1.63 | 781 | <1 | 0.76 | 53 | 1190 | 57 | 0.79 | <5 | 10 | 547 | <20 | 0.24 | <10 | <10 |
| N459615 | | 1.41 | 954 | <1 | 3.44 | 54 | 1110 | 27 | 1.21 | 9 | 10 | 524 | <20 | 0.24 | <10 | <10 |
| N459616 | | 1.46 | 947 | <1 | 3.37 | 73 | 1000 | 14 | 0.04 | <5 | 13 | 337 | <20 | 0.33 | <10 | <10 |
| N459617 | | 1.73 | 926 | <1 | 3.09 | 84 | 930 | 14 | 0.09 | 7 | 15 | 783 | <20 | 0.37 | 10 | <10 |
| N459618 | | 2.04 | 809 | <1 | 3.54 | 105 | 900 | 9 | 0.08 | 6 | 17 | 524 | <20 | 0.41 | <10 | <10 |
| N459619 | | 1.14 | 861 | <1 | 3.68 | 20 | 2270 | 119 | 0.12 | 6 | 9 | 1470 | 30 | 0.44 | <10 | <10 |
| N459620 | | 1.94 | 1015 | <1 | 3.38 | 95 | 910 | 16 | 0.19 | 9 | 15 | 857 | <20 | 0.35 | <10 | <10 |
| N459621 | | 2.10 | 845 | <1 | 3.24 | 93 | 1030 | 13 | 0.10 | 6 | 15 | 384 | 20 | 0.35 | <10 | <10 |
| N459622 | | 0.92 | 1550 | <1 | 1.39 | 10 | 1150 | 25 | 0.03 | <5 | 6 | 1570 | 20 | 0.27 | <10 | <10 |
| N459623 | | 2.78 | 1340 | <1 | 1.01 | 70 | 3480 | 16 | 0.01 | 11 | 25 | 2110 | 30 | 0.53 | <10 | <10 |
| N459624 | | 0.62 | 923 | <1 | 4.03 | 10 | 2240 | 23 | 0.07 | 6 | 9 | 768 | 40 | 0.51 | <10 | <10 |
| N459625 | | 0.38 | 313 | <1 | 4.69 | 7 | 680 | 15 | 0.09 | 7 | 4 | 823 | <20 | 0.21 | <10 | <10 |
| N459626 | | 2.02 | 879 | <1 | 2.69 | 127 | 930 | 14 | 0.24 | 6 | 16 | 1065 | <20 | 0.39 | <10 | <10 |
| N459627 | | 1.57 | 802 | <1 | 2.42 | 93 | 900 | 5 | 0.09 | <5 | 14 | 300 | <20 | 0.31 | <10 | <10 |
| N459628 | | 1.99 | 787 | <1 | 3.07 | 104 | 650 | 9 | 0.13 | <5 | 16 | 456 | <20 | 0.35 | <10 | <10 |
| N459629 | | 1.56 | 1200 | <1 | 2.15 | 66 | 770 | 57 | 0.18 | <5 | 13 | 508 | <20 | 0.21 | <10 | <10 |
| N459630 | | 1.77 | 1280 | <1 | 1.26 | 33 | 5720 | 52 | 0.03 | <5 | 12 | 1845 | 40 | 0.49 | <10 | <10 |
| N459631 | | 1.28 | 932 | <1 | 0.91 | 15 | 2870 | 26 | 0.02 | 9 | 15 | 1885 | 40 | 0.49 | <10 | <10 |
| N459632 | | 0.97 | 664 | <1 | 1.25 | 19 | 3730 | 32 | 0.02 | <5 | 7 | 2260 | 30 | 0.42 | <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: 27-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
|---|---|---|---|---|
| N450993 | | 77 | 10 | 177 |
| N450994 | | 79 | <10 | 333 |
| N450995 | | 81 | 10 | 66 |
| N450996 | | 104 | <10 | 49 |
| N450997 | | 100 | <10 | 83 |
| N450998 | | 77 | <10 | 39 |
| N450999 | | NSS | NSS | NSS |
| N451000 | | 95 | <10 | 83 |
| N459601 | | 89 | <10 | 110 |
| N459602 | | 74 | <10 | 60 |
| N459603 | | 72 | <10 | 80 |
| N459604 | | 89 | <10 | 153 |
| N459605 | | 139 | <10 | 57 |
| N459606 | | 66 | <10 | 61 |
| N459607 | | 226 | <10 | 90 |
| N459608 | | 129 | <10 | 105 |
| N459609 | | 158 | <10 | 197 |
| N459610 | | 101 | <10 | 118 |
| N459611 | | 71 | <10 | 32 |
| N459612 | | 104 | <10 | 107 |
| N459613 | | 82 | <10 | 200 |
| N459614 | | 84 | <10 | 94 |
| N459615 | | 86 | <10 | 48 |
| N459616 | | 111 | <10 | 74 |
| N459617 | | 124 | <10 | 86 |
| N459618 | | 155 | <10 | 98 |
| N459619 | | 149 | <10 | 78 |
| N459620 | | 132 | <10 | 92 |
| N459621 | | 159 | <10 | 104 |
| N459622 | | 106 | <10 | 130 |
| N459623 | | 239 | <10 | 113 |
| N459624 | | 235 | <10 | 82 |
| N459625 | | 43 | <10 | 66 |
| N459626 | | 146 | <10 | 96 |
| N459627 | | 123 | <10 | 77 |
| N459628 | | 122 | <10 | 85 |
| N459629 | | 111 | <10 | 73 |
| N459630 | | 225 | <10 | 106 |
| N459631 | | 213 | <10 | 109 |
| N459632 | | 184 | <10 | 125 |

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

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# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
| N459633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459634 | | <0.5 | 9.94 | 6 | 2270 | 6.0 | <2 | 1.09 | <0.5 | 11 | 22 | 8 | 2.77 | 30 | 4.07 | 70 |
| N459635 | | <0.5 | 9.98 | 9 | 3590 | 6.6 | <2 | 0.89 | <0.5 | 9 | 4 | 36 | 3.96 | 30 | 5.13 | 80 |
| N459636 | | <0.5 | 7.01 | 21 | 1020 | 1.9 | 2 | 2.59 | 0.5 | 51 | 225 | 83 | 8.22 | 20 | 3.20 | 10 |
| N459637 | | <0.5 | 7.85 | <5 | 1900 | 4.1 | <2 | 2.90 | <0.5 | 14 | 11 | 65 | 4.09 | 20 | 2.94 | 50 |
| N459638 | | <0.5 | 9.52 | 5 | 3350 | 5.5 | <2 | 1.12 | <0.5 | 16 | 1 | 96 | 4.61 | 30 | 5.04 | 90 |
| N459639 | | <0.5 | 8.77 | 15 | 3890 | 8.6 | <2 | 1.05 | <0.5 | 23 | 16 | 130 | 7.25 | 30 | 3.52 | 150 |
| N459640 | | <0.5 | 9.78 | 11 | 3250 | 5.5 | <2 | 0.55 | <0.5 | 9 | 23 | 26 | 3.09 | 20 | 4.52 | 60 |
| N459641 | | <0.5 | 6.97 | <5 | 1650 | 3.4 | <2 | 3.55 | <0.5 | 22 | 59 | 66 | 5.15 | 20 | 3.04 | 70 |
| N459642 | | <0.5 | 6.87 | 8 | 8800 | 8.3 | <2 | 3.53 | <0.5 | 17 | 2 | 227 | 6.62 | 20 | 4.07 | 190 |
| N459643 | | <0.5 | 9.08 | 7 | 2590 | 4.4 | <2 | 1.64 | <0.5 | 6 | 12 | 9 | 2.38 | 30 | 3.71 | 70 |
| N459644 | | <0.5 | 7.69 | <5 | 170 | 0.5 | <2 | 4.12 | <0.5 | 38 | 114 | 57 | 5.61 | 20 | 0.20 | 10 |
| N459645 | | <0.5 | 6.49 | 5 | 880 | 2.2 | <2 | 5.44 | <0.5 | 24 | 128 | 37 | 5.29 | 20 | 2.28 | 60 |
| N459646 | | <0.5 | 9.07 | <5 | 3090 | 3.8 | <2 | 1.88 | <0.5 | 17 | 16 | 122 | 4.74 | 20 | 4.43 | 70 |
| N459647 | | <0.5 | 6.57 | <5 | 920 | 2.6 | 2 | 3.47 | <0.5 | 27 | 143 | 3 | 5.59 | 20 | 2.78 | 70 |
| N459648 | | <0.5 | 4.13 | 5 | 9280 | 6.8 | 3 | 3.71 | <0.5 | 11 | 4 | 39 | 4.35 | 20 | 2.06 | 100 |
| N459649 | | <0.5 | 4.61 | 12 | 4950 | 6.7 | <2 | 4.81 | <0.5 | 12 | 26 | 29 | 4.25 | 20 | 4.61 | 160 |
| N459650 | | <0.5 | 9.58 | 6 | 2060 | 6.0 | <2 | 0.89 | <0.5 | 16 | 14 | 150 | 5.47 | 30 | 4.40 | 90 |

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

| 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 |
| N459633 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459634 | | 0.54 | 565 | <1 | 2.07 | 8 | 1360 | 14 | 0.02 | <5 | 6 | 448 | 20 | 0.31 | <10 | <10 |
| N459635 | | 0.23 | 880 | <1 | 3.02 | 6 | 1030 | 17 | 0.04 | 6 | 4 | 570 | 30 | 0.32 | <10 | <10 |
| N459636 | | 1.32 | 1845 | 1 | 1.36 | 150 | 760 | 11 | 0.59 | <5 | 34 | 583 | <20 | 0.49 | <10 | <10 |
| N459637 | | 0.80 | 1190 | <1 | 3.94 | 7 | 1760 | 25 | 0.03 | <5 | 6 | 1160 | 20 | 0.25 | <10 | <10 |
| N459638 | | 0.57 | 949 | <1 | 2.64 | 5 | 1770 | 20 | 0.09 | <5 | 6 | 962 | 30 | 0.36 | <10 | <10 |
| N459639 | | 1.69 | 592 | <1 | 3.35 | 17 | 2390 | 48 | 0.08 | <5 | 12 | 1070 | 40 | 0.68 | 10 | <10 |
| N459640 | | 0.22 | 883 | <1 | 3.12 | 14 | 1220 | 72 | 0.03 | <5 | 3 | 564 | 20 | 0.24 | <10 | <10 |
| N459641 | | 1.55 | 1045 | <1 | 3.36 | 18 | 2360 | 15 | 0.03 | <5 | 14 | 1545 | 20 | 0.38 | <10 | <10 |
| N459642 | | 0.76 | 1990 | <1 | 0.43 | 6 | 1940 | 28 | 0.26 | 7 | 8 | 3190 | 70 | 0.46 | <10 | <10 |
| N459643 | | 0.35 | 924 | <1 | 4.42 | 4 | 1390 | 30 | 0.04 | <5 | 4 | 718 | 20 | 0.24 | <10 | <10 |
| N459644 | | 2.90 | 1050 | <1 | 2.75 | 94 | 950 | <2 | 0.14 | <5 | 21 | 129 | <20 | 0.66 | <10 | <10 |
| N459645 | | 2.41 | 1015 | <1 | 2.43 | 42 | 2550 | 15 | 0.02 | <5 | 22 | 1375 | 20 | 0.32 | <10 | <10 |
| N459646 | | 0.69 | 1195 | <1 | 3.11 | 9 | 3110 | 19 | 0.07 | <5 | 6 | 993 | 40 | 0.31 | <10 | <10 |
| N459647 | | 1.96 | 937 | <1 | 1.81 | 43 | 2620 | 10 | 0.01 | <5 | 21 | 1025 | 20 | 0.35 | <10 | <10 |
| N459648 | | 0.59 | 1675 | <1 | <0.01 | 4 | 3840 | 87 | 0.24 | <5 | 5 | 1385 | 40 | 0.31 | <10 | <10 |
| N459649 | | 1.52 | 1140 | <1 | 0.29 | 10 | 2220 | 30 | 0.10 | <5 | 9 | 2270 | 40 | 0.36 | <10 | <10 |
| N459650 | | 0.37 | 1215 | 30 | 1.87 | 8 | 2790 | 16 | 0.04 | <5 | 6 | 451 | 30 | 0.18 | <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 SD14042943

| 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 |
|---|---|---|---|---|
| N459633 | | NSS | NSS | NSS |
| N459634 | | 163 | <10 | 88 |
| N459635 | | 202 | <10 | 138 |
| N459636 | | 296 | 10 | 82 |
| N459637 | | 107 | <10 | 111 |
| N459638 | | 173 | <10 | 119 |
| N459639 | | 400 | <10 | 269 |
| N459640 | | 77 | <10 | 101 |
| N459641 | | 203 | <10 | 125 |
| N459642 | | 231 | 10 | 231 |
| N459643 | | 76 | 10 | 77 |
| N459644 | | 179 | <10 | 94 |
| N459645 | | 171 | <10 | 82 |
| N459646 | | 127 | <10 | 147 |
| N459647 | | 171 | <10 | 93 |
| N459648 | | 161 | <10 | 144 |
| N459649 | | 306 | <10 | 143 |
| N459650 | | 120 | 10 | 137 |

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

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042943

## 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