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: 26-MAR-2014**
**Account: OSIKLI**

# CERTIFICATE SD14042941

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 121 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

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

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

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N438937 | | 0.5 | 7.45 | 16 | 8280 | 6.2 | <2 | 3.71 | <0.5 | 11 | 7 | 95 | 5.40 | 20 | 4.48 | 140 |
| N438938 | | <0.5 | 7.63 | 12 | >10000 | 7.8 | <2 | 2.76 | <0.5 | 10 | 5 | 54 | 5.13 | 20 | 4.81 | 140 |
| N438939 | | 0.5 | 5.17 | 111 | 250 | 3.5 | <2 | 6.71 | <0.5 | 33 | 37 | 29 | 6.37 | 10 | 3.26 | 90 |
| N438940 | | <0.5 | 7.42 | 18 | 4910 | 7.4 | <2 | 4.51 | <0.5 | 22 | 38 | 99 | 5.27 | 30 | 5.28 | 110 |
| N438941 | | <0.5 | 7.41 | <5 | 1690 | 1.9 | <2 | 3.35 | 0.5 | 35 | 219 | 104 | 7.24 | 20 | 1.85 | 50 |
| N438942 | | <0.5 | 8.90 | 9 | 3490 | 3.4 | <2 | 0.54 | <0.5 | 29 | 116 | 36 | 5.88 | 20 | 4.24 | 60 |
| N438943 | | <0.5 | 7.15 | 22 | 5540 | 5.9 | <2 | 3.83 | <0.5 | 18 | 44 | 135 | 6.00 | 20 | 5.28 | 130 |
| N438944 | | <0.5 | 5.47 | 13 | 1760 | 1.8 | <2 | 4.10 | <0.5 | 15 | 137 | 19 | 4.70 | 20 | 5.90 | 30 |
| N438945 | | <0.5 | 6.38 | 28 | 1960 | 2.2 | <2 | 4.15 | <0.5 | 32 | 238 | 66 | 5.74 | 20 | 4.35 | 40 |
| N438946 | | <0.5 | 8.13 | <5 | 6820 | 5.7 | <2 | 2.68 | <0.5 | 9 | 11 | 131 | 4.77 | 30 | 5.56 | 100 |
| N438947 | | 0.5 | 9.66 | 20 | 6430 | 13.9 | <2 | 0.26 | <0.5 | 21 | 4 | 31 | 7.74 | 40 | 5.25 | 220 |
| N438948 | | <0.5 | 6.35 | 20 | 6710 | 6.1 | <2 | 3.54 | <0.5 | 24 | 53 | 162 | 6.30 | 20 | 4.88 | 170 |
| N438949 | | <0.5 | 6.62 | 24 | 1600 | 2.5 | <2 | 4.45 | <0.5 | 30 | 152 | 93 | 6.18 | 20 | 4.28 | 40 |
| N438950 | | <0.5 | 7.20 | <5 | 1550 | 2.1 | <2 | 3.24 | <0.5 | 32 | 137 | 52 | 6.79 | 20 | 2.19 | 40 |
| N438951 | | <0.5 | 7.57 | <5 | 1250 | 2.7 | <2 | 4.05 | <0.5 | 23 | 115 | 81 | 5.04 | 20 | 3.02 | 40 |
| N438952 | | <0.5 | 6.64 | 39 | 1820 | 3.2 | <2 | 4.86 | <0.5 | 27 | 163 | 71 | 5.82 | 20 | 4.33 | 40 |
| N438953 | | <0.5 | 6.25 | 8 | 1760 | 2.0 | <2 | 4.03 | <0.5 | 29 | 252 | 60 | 5.89 | 20 | 4.10 | 40 |
| N438954 | | <0.5 | 6.79 | 18 | 6020 | 5.9 | <2 | 4.08 | <0.5 | 20 | 65 | 155 | 5.93 | 20 | 5.17 | 160 |
| N438955 | | 0.5 | 8.41 | 18 | 1920 | 4.4 | <2 | 1.79 | <0.5 | 14 | 8 | 61 | 4.88 | 20 | 1.44 | 120 |
| N438956 | | <0.5 | 7.68 | 281 | 1790 | 2.3 | 4 | 2.61 | <0.5 | 29 | 100 | 38 | 5.12 | 20 | 3.53 | 50 |
| N438957 | | <0.5 | 6.43 | 34 | 2390 | 10.8 | <2 | 5.60 | <0.5 | 26 | 32 | 206 | 7.52 | 20 | 4.33 | 140 |
| N438958 | | <0.5 | 6.75 | 20 | 3790 | 6.4 | 2 | 5.54 | <0.5 | 23 | 20 | 178 | 6.59 | 20 | 4.50 | 130 |
| N438959 | | <0.5 | 6.86 | 7 | 2890 | 4.1 | 2 | 5.00 | <0.5 | 16 | 15 | 154 | 5.65 | 20 | 4.33 | 100 |
| N438960 | | <0.5 | 7.26 | 26 | 2650 | 8.5 | 3 | 4.29 | <0.5 | 25 | 22 | 222 | 7.67 | 20 | 4.59 | 130 |
| N438961 | | <0.5 | 6.70 | 10 | 4010 | 7.5 | 3 | 3.83 | <0.5 | 19 | 34 | 143 | 5.74 | 20 | 4.58 | 110 |
| N438962 | | <0.5 | 6.87 | 14 | 5630 | 7.2 | <2 | 2.40 | <0.5 | 14 | 9 | 85 | 4.74 | 20 | 4.05 | 70 |
| N438963 | | <0.5 | 6.34 | 23 | 4730 | 19.6 | 3 | 4.48 | <0.5 | 19 | 74 | 110 | 5.56 | 20 | 4.11 | 120 |
| N438964 | | <0.5 | 6.09 | 11 | 3410 | 7.5 | <2 | 4.37 | <0.5 | 21 | 61 | 127 | 5.27 | 10 | 3.95 | 90 |
| N438965 | | <0.5 | 6.73 | 23 | 3610 | 5.8 | <2 | 4.81 | <0.5 | 23 | 15 | 221 | 6.63 | 20 | 4.32 | 120 |
| N438966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N438967 | | <0.5 | 7.14 | 21 | 4150 | 7.1 | <2 | 4.68 | <0.5 | 19 | 20 | 181 | 6.41 | 30 | 4.79 | 130 |
| N438968 | | <0.5 | 6.71 | 14 | 3890 | 7.7 | 2 | 4.02 | <0.5 | 28 | 18 | 225 | 7.80 | 20 | 4.16 | 130 |
| N438969 | | <0.5 | 5.63 | 5 | 4080 | 6.2 | 2 | 5.47 | <0.5 | 26 | 258 | 156 | 6.67 | 20 | 4.28 | 120 |
| N438970 | | <0.5 | 6.71 | 40 | 3440 | 7.3 | 5 | 4.79 | <0.5 | 19 | 27 | 140 | 6.72 | 20 | 4.44 | 140 |
| N438971 | | <0.5 | 6.55 | 6 | 5590 | 5.7 | <2 | 5.33 | <0.5 | 22 | 34 | 154 | 6.40 | 20 | 4.45 | 130 |
| N438972 | | <0.5 | 6.76 | 14 | 4440 | 3.5 | 2 | 4.87 | <0.5 | 22 | 64 | 170 | 6.69 | 20 | 4.44 | 120 |
| N438973 | | <0.5 | 6.50 | 21 | 3180 | 4.7 | <2 | 4.92 | <0.5 | 22 | 16 | 219 | 6.90 | 20 | 4.22 | 120 |
| N438974 | | <0.5 | 6.75 | 22 | 3750 | 7.4 | <2 | 4.64 | <0.5 | 23 | 21 | 210 | 6.84 | 20 | 4.29 | 120 |
| N438975 | | <0.5 | 6.33 | 20 | 3210 | 5.7 | 4 | 3.52 | <0.5 | 21 | 22 | 188 | 6.37 | 20 | 4.38 | 100 |
| N438976 | | <0.5 | 6.99 | 9 | 3140 | 2.6 | 2 | 3.38 | <0.5 | 17 | 24 | 148 | 6.18 | 20 | 4.92 | 120 |

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

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**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N438937 | | 0.82 | 2030 | <1 | 3.22 | 4 | 1170 | 85 | 0.19 | 10 | 3 | 2080 | 50 | 0.49 | <10 | <10 |
| N438938 | | 0.69 | 1585 | <1 | 1.50 | 3 | 1920 | 33 | 0.29 | 9 | 3 | 2030 | 50 | 0.54 | <10 | <10 |
| N438939 | | 2.58 | 2210 | 2 | 1.89 | 17 | 2330 | 21 | 2.16 | <5 | 10 | 2190 | 30 | 0.17 | <10 | <10 |
| N438940 | | 1.22 | 1485 | 1 | 0.11 | 23 | 2310 | 19 | 0.28 | 9 | 11 | 1420 | 40 | 0.36 | <10 | <10 |
| N438941 | | 3.22 | 1095 | 1 | 2.69 | 74 | 1680 | 25 | 0.03 | 8 | 31 | 605 | <20 | 0.44 | <10 | <10 |
| N438942 | | 1.01 | 775 | <1 | 0.14 | 31 | 2010 | 5 | 0.09 | 7 | 24 | 125 | <20 | 0.26 | <10 | <10 |
| N438943 | | 1.29 | 1470 | <1 | 0.26 | 19 | 2840 | 34 | 0.23 | 8 | 12 | 1430 | 40 | 0.45 | <10 | <10 |
| N438944 | | 2.31 | 973 | <1 | 0.48 | 37 | 2080 | 7 | <0.01 | 5 | 14 | 703 | <20 | 0.33 | <10 | <10 |
| N438945 | | 3.59 | 1075 | <1 | 2.04 | 115 | 1800 | 52 | 0.12 | 6 | 20 | 638 | <20 | 0.46 | <10 | <10 |
| N438946 | | 0.82 | 1150 | <1 | 2.47 | 8 | 1300 | 19 | 0.09 | 5 | 4 | 1100 | 40 | 0.35 | <10 | <10 |
| N438947 | | 0.40 | 1340 | <1 | 0.13 | 6 | 1610 | 28 | 0.22 | 9 | 4 | 618 | 80 | 0.65 | <10 | <10 |
| N438948 | | 1.83 | 1555 | <1 | 0.43 | 27 | 3480 | 40 | 0.09 | 7 | 16 | 1940 | 40 | 0.43 | <10 | <10 |
| N438949 | | 2.87 | 918 | <1 | 1.55 | 48 | 2660 | 9 | 0.04 | 5 | 20 | 745 | <20 | 0.47 | <10 | <10 |
| N438950 | | 2.96 | 1280 | <1 | 1.82 | 46 | 1610 | 5 | 0.02 | 6 | 27 | 359 | <20 | 0.47 | <10 | <10 |
| N438951 | | 2.49 | 1150 | <1 | 2.69 | 43 | 1530 | 9 | 0.06 | 8 | 19 | 439 | <20 | 0.34 | <10 | <10 |
| N438952 | | 2.18 | 1000 | <1 | 1.08 | 54 | 2650 | 7 | 0.03 | 13 | 20 | 1180 | <20 | 0.43 | <10 | <10 |
| N438953 | | 3.14 | 1290 | <1 | 0.81 | 95 | 1740 | 16 | 0.06 | 7 | 26 | 599 | <20 | 0.41 | <10 | <10 |
| N438954 | | 2.12 | 1400 | <1 | 1.35 | 28 | 2780 | 26 | 0.12 | <5 | 15 | 1425 | 40 | 0.45 | 10 | <10 |
| N438955 | | 0.46 | 1350 | 6 | 4.98 | 4 | 600 | 20 | 0.84 | 11 | 2 | 1670 | 40 | 0.47 | <10 | <10 |
| N438956 | | 1.54 | 592 | <1 | 2.37 | 59 | 2180 | 20 | 2.37 | <5 | 12 | 566 | <20 | 0.34 | <10 | <10 |
| N438957 | | 2.00 | 2260 | <1 | 0.11 | 15 | 3100 | 65 | 0.63 | <5 | 15 | 2450 | 40 | 0.73 | <10 | <10 |
| N438958 | | 1.41 | 1640 | <1 | 1.01 | 16 | 3050 | 44 | 0.15 | <5 | 16 | 3180 | 30 | 0.64 | <10 | <10 |
| N438959 | | 1.89 | 1460 | <1 | 0.10 | 11 | 2140 | 29 | 0.07 | <5 | 14 | 1600 | 30 | 0.51 | <10 | <10 |
| N438960 | | 1.68 | 1345 | <1 | 0.31 | 17 | 3280 | 28 | 0.15 | <5 | 19 | 2250 | 30 | 0.72 | <10 | <10 |
| N438961 | | 1.46 | 1400 | <1 | 1.55 | 20 | 2380 | 41 | 0.09 | <5 | 12 | 2080 | 30 | 0.55 | <10 | <10 |
| N438962 | | 0.62 | 1430 | <1 | 0.14 | 4 | 920 | 52 | 0.27 | <5 | 8 | 2110 | 20 | 0.46 | <10 | <10 |
| N438963 | | 2.10 | 1475 | <1 | 1.49 | 33 | 2910 | 55 | 0.15 | <5 | 11 | 3270 | 40 | 0.48 | <10 | <10 |
| N438964 | | 1.70 | 1315 | <1 | 2.69 | 56 | 2390 | 39 | 0.13 | <5 | 15 | 991 | 20 | 0.34 | <10 | <10 |
| N438965 | | 1.51 | 1515 | <1 | 0.92 | 12 | 2820 | 40 | 0.23 | <5 | 17 | 2500 | 30 | 0.62 | <10 | <10 |
| N438966 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N438967 | | 1.50 | 1535 | <1 | 0.21 | 18 | 2380 | 41 | 0.38 | <5 | 17 | 2620 | 30 | 0.67 | <10 | <10 |
| N438968 | | 1.62 | 1615 | <1 | 1.13 | 17 | 3490 | 16 | 0.10 | <5 | 20 | 2150 | 30 | 0.62 | <10 | <10 |
| N438969 | | 3.15 | 1635 | <1 | 0.17 | 138 | 3320 | 24 | 0.06 | <5 | 21 | 2220 | 30 | 0.59 | <10 | <10 |
| N438970 | | 1.39 | 1615 | 1 | 0.15 | 24 | 2470 | 55 | 0.61 | <5 | 20 | 4670 | 30 | 0.60 | <10 | <10 |
| N438971 | | 1.73 | 2050 | <1 | 0.12 | 28 | 3360 | 35 | 0.18 | <5 | 12 | 3700 | 30 | 0.59 | <10 | <10 |
| N438972 | | 1.63 | 1915 | <1 | 0.09 | 64 | 3170 | 39 | 0.12 | <5 | 10 | 1630 | 30 | 0.51 | <10 | <10 |
| N438973 | | 1.58 | 1725 | 1 | 0.19 | 12 | 2480 | 35 | 0.28 | <5 | 16 | 1645 | 20 | 0.63 | <10 | <10 |
| N438974 | | 1.50 | 1560 | <1 | 0.20 | 17 | 2810 | 34 | 0.17 | <5 | 18 | 2020 | 20 | 0.65 | <10 | <10 |
| N438975 | | 1.07 | 1515 | <1 | 0.41 | 16 | 2490 | 27 | 0.20 | <5 | 13 | 1450 | 20 | 0.55 | <10 | <10 |
| N438976 | | 1.47 | 1490 | <1 | 0.10 | 22 | 2270 | 36 | 0.14 | <5 | 11 | 1455 | 20 | 0.54 | <10 | <10 |

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**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|
| N438937 | | 179 | <10 | 198 |
| N438938 | | 201 | <10 | 79 |
| N438939 | | 114 | <10 | 96 |
| N438940 | | 280 | <10 | 117 |
| N438941 | | 228 | <10 | 118 |
| N438942 | | 228 | <10 | 103 |
| N438943 | | 268 | <10 | 92 |
| N438944 | | 129 | <10 | 52 |
| N438945 | | 171 | <10 | 137 |
| N438946 | | 197 | <10 | 91 |
| N438947 | | 424 | <10 | 122 |
| N438948 | | 196 | <10 | 98 |
| N438949 | | 181 | <10 | 97 |
| N438950 | | 220 | <10 | 150 |
| N438951 | | 174 | <10 | 102 |
| N438952 | | 176 | <10 | 72 |
| N438953 | | 187 | <10 | 133 |
| N438954 | | 209 | <10 | 104 |
| N438955 | | 305 | 10 | 87 |
| N438956 | | 140 | <10 | 91 |
| N438957 | | 763 | <10 | 188 |
| N438958 | | 313 | <10 | 124 |
| N438959 | | 301 | <10 | 177 |
| N438960 | | 497 | <10 | 141 |
| N438961 | | 339 | <10 | 143 |
| N438962 | | 338 | <10 | 122 |
| N438963 | | 369 | <10 | 119 |
| N438964 | | 148 | <10 | 113 |
| N438965 | | 387 | <10 | 139 |
| N438966 | | NSS | NSS | NSS |
| N438967 | | 707 | <10 | 145 |
| N438968 | | 429 | <10 | 156 |
| N438969 | | 258 | <10 | 160 |
| N438970 | | 350 | <10 | 173 |
| N438971 | | 258 | <10 | 143 |
| N438972 | | 309 | <10 | 141 |
| N438973 | | 898 | <10 | 138 |
| N438974 | | 414 | <10 | 148 |
| N438975 | | 485 | <10 | 260 |
| N438976 | | 347 | <10 | 135 |

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# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
| N438977 | | <0.5 | 6.53 | 31 | 4140 | 3.3 | <2 | 4.05 | <0.5 | 18 | 16 | 179 | 5.61 | 20 | 4.17 | 100 |
| N438978 | | <0.5 | 7.18 | 12 | 5110 | 4.7 | 2 | 2.99 | <0.5 | 16 | 16 | 195 | 5.23 | 20 | 4.46 | 70 |
| N438979 | | <0.5 | 6.40 | 17 | 3870 | 3.6 | 2 | 4.55 | <0.5 | 20 | 21 | 190 | 6.45 | 20 | 4.65 | 120 |
| N438980 | | <0.5 | 7.26 | <5 | 1260 | 5.1 | <2 | 1.78 | <0.5 | 7 | 62 | 3 | 2.19 | 20 | 3.89 | 30 |
| N438981 | | <0.5 | 7.28 | 7 | 1290 | 2.2 | <2 | 1.23 | <0.5 | 8 | 60 | 4 | 2.07 | 20 | 3.93 | 30 |
| N438982 | | <0.5 | 7.32 | 23 | 5030 | 5.0 | 2 | 4.19 | <0.5 | 18 | 74 | 117 | 5.56 | 20 | 4.86 | 110 |
| N438983 | | <0.5 | 7.16 | <5 | 1850 | 1.9 | <2 | 1.74 | <0.5 | 9 | 63 | <1 | 2.17 | 20 | 3.82 | 30 |
| N438984 | | <0.5 | 7.29 | 5 | 1320 | 2.1 | <2 | 1.09 | <0.5 | 6 | 62 | 4 | 1.92 | 20 | 4.46 | 30 |
| N438985 | | <0.5 | 6.98 | <5 | 1440 | 1.9 | 3 | 1.35 | <0.5 | 8 | 62 | 24 | 2.20 | 20 | 4.36 | 40 |
| N438986 | | <0.5 | 7.21 | <5 | 1560 | 1.8 | 2 | 1.28 | <0.5 | 9 | 69 | 1 | 2.17 | 20 | 4.16 | 30 |
| N438987 | | <0.5 | 7.12 | 5 | 1410 | 3.9 | <2 | 0.95 | <0.5 | 8 | 73 | 1 | 2.33 | 20 | 3.83 | 40 |
| N438988 | | <0.5 | 7.22 | <5 | 1460 | 2.1 | 2 | 1.59 | <0.5 | 8 | 73 | 1 | 2.18 | 20 | 3.91 | 30 |
| N438989 | | <0.5 | 6.57 | 10 | 4630 | 2.9 | <2 | 4.46 | <0.5 | 18 | 38 | 155 | 5.52 | 20 | 4.32 | 110 |
| N438990 | | <0.5 | 6.51 | 7 | 3370 | 1.9 | <2 | 6.31 | <0.5 | 24 | 198 | 23 | 4.62 | 20 | 2.68 | 40 |
| N438991 | | <0.5 | 7.02 | 30 | 3770 | 8.4 | <2 | 3.76 | <0.5 | 20 | 45 | 139 | 5.82 | 30 | 4.79 | 120 |
| N438992 | | <0.5 | 6.21 | 17 | 4210 | 8.6 | <2 | 3.98 | <0.5 | 29 | 194 | 149 | 6.59 | 20 | 4.41 | 120 |
| N438993 | | <0.5 | 6.53 | 14 | 3570 | 7.7 | <2 | 4.95 | <0.5 | 19 | 22 | 169 | 5.65 | 20 | 4.39 | 120 |
| N438994 | | <0.5 | 6.43 | <5 | 1460 | 1.0 | <2 | 2.74 | <0.5 | 13 | 113 | 8 | 3.04 | 20 | 3.10 | 20 |
| N438995 | | <0.5 | 6.69 | <5 | 1920 | 1.6 | 2 | 1.43 | <0.5 | 9 | 74 | 6 | 2.17 | 20 | 4.94 | 30 |
| N438996 | | <0.5 | 6.99 | 5 | 4570 | 11.1 | <2 | 5.49 | <0.5 | 27 | 19 | 67 | 7.72 | 30 | 4.52 | 160 |
| N438997 | | <0.5 | 6.60 | 17 | 5170 | 2.9 | 3 | 5.44 | <0.5 | 17 | 26 | 168 | 5.27 | 20 | 4.54 | 160 |
| N438998 | | <0.5 | 7.52 | <5 | 1580 | 2.5 | 3 | 1.27 | <0.5 | 8 | 73 | <1 | 2.47 | 20 | 4.35 | 30 |
| N438999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N439000 | | <0.5 | 7.85 | 6 | 2170 | 1.4 | 2 | 1.97 | <0.5 | 15 | 67 | 3 | 2.53 | 20 | 3.70 | 20 |
| N440851 | | <0.5 | 7.35 | 33 | 2650 | 1.6 | <2 | 2.82 | <0.5 | 8 | 11 | 68 | 2.72 | 10 | 6.51 | 40 |
| N440852 | | <0.5 | 8.60 | 24 | 2740 | 3.9 | 3 | 2.13 | <0.5 | 13 | 27 | 74 | 4.70 | 20 | 6.17 | 60 |
| N440853 | | <0.5 | 7.30 | 22 | 2680 | 2.7 | <2 | 4.73 | <0.5 | 28 | 88 | 102 | 6.04 | 20 | 4.08 | 80 |
| N440854 | | <0.5 | 7.17 | 13 | 1570 | 3.5 | 2 | 4.58 | <0.5 | 19 | 89 | 106 | 5.59 | 20 | 4.47 | 80 |
| N454992 | | <0.5 | 7.14 | 40 | 2130 | 3.7 | 4 | 4.70 | <0.5 | 20 | 89 | 104 | 5.19 | 20 | 4.97 | 70 |
| N454993 | | <0.5 | 4.42 | 42 | 2650 | 38.3 | <2 | 3.00 | <0.5 | 36 | 12 | 202 | 9.49 | 20 | 2.91 | 270 |
| N454994 | | <0.5 | 7.71 | 65 | 3380 | 7.5 | 3 | 2.32 | <0.5 | 29 | 111 | 117 | 6.75 | 30 | 5.14 | 80 |
| N454995 | | <0.5 | 6.95 | 10 | 2280 | 2.2 | <2 | 4.55 | <0.5 | 30 | 136 | 105 | 6.61 | 20 | 4.91 | 60 |
| N454996 | | <0.5 | 6.88 | 6 | 1970 | 2.6 | <2 | 5.50 | <0.5 | 31 | 111 | 83 | 6.50 | 20 | 4.13 | 80 |
| N454997 | | <0.5 | 7.48 | 30 | 2580 | 4.9 | <2 | 5.51 | <0.5 | 25 | 100 | 140 | 6.54 | 20 | 6.23 | 100 |
| N454998 | | <0.5 | 8.05 | 21 | 2700 | 4.2 | <2 | 3.04 | <0.5 | 20 | 25 | 140 | 4.44 | 20 | 5.20 | 60 |
| N454999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N455000 | | <0.5 | 7.30 | 28 | 2620 | 3.7 | <2 | 5.19 | <0.5 | 26 | 87 | 111 | 5.79 | 20 | 4.95 | 80 |
| N451891 | | <0.5 | 7.65 | 175 | 1660 | 2.0 | <2 | 0.32 | <0.5 | 24 | 310 | 64 | 5.15 | 20 | 2.90 | 40 |
| N451892 | | <0.5 | 6.44 | 73 | 1240 | 1.8 | 4 | 0.47 | <0.5 | 25 | 227 | 57 | 5.24 | 20 | 2.22 | 40 |
| N451893 | | <0.5 | 7.09 | 81 | 1370 | 2.0 | <2 | 0.42 | <0.5 | 23 | 259 | 56 | 5.39 | 20 | 2.51 | 40 |

***** 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: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
| N438977 | | 1.15 | 1420 | <1 | 0.10 | 14 | 2830 | 32 | 1.03 | <5 | 10 | 2430 | 30 | 0.46 | <10 | <10 |
| N438978 | | 0.73 | 1500 | <1 | 0.11 | 13 | 1620 | 30 | 0.55 | <5 | 8 | 1450 | 20 | 0.47 | <10 | <10 |
| N438979 | | 1.36 | 1490 | <1 | 0.17 | 14 | 2780 | 33 | 0.41 | <5 | 14 | 2060 | 20 | 0.59 | <10 | <10 |
| N438980 | | 0.89 | 504 | <1 | 3.96 | 19 | 670 | 20 | 0.07 | <5 | 6 | 671 | 20 | 0.14 | <10 | <10 |
| N438981 | | 0.46 | 458 | <1 | 3.86 | 19 | 710 | 15 | 0.03 | <5 | 5 | 428 | 20 | 0.11 | <10 | <10 |
| N438982 | | 1.31 | 1525 | <1 | 0.08 | 18 | 2500 | 32 | 0.23 | <5 | 12 | 1520 | 30 | 0.23 | <10 | <10 |
| N438983 | | 0.77 | 469 | <1 | 3.95 | 17 | 670 | 12 | 0.07 | <5 | 5 | 544 | 20 | 0.10 | <10 | <10 |
| N438984 | | 0.57 | 422 | <1 | 4.05 | 21 | 580 | 15 | 0.04 | <5 | 4 | 473 | 20 | 0.11 | <10 | <10 |
| N438985 | | 0.74 | 513 | <1 | 3.55 | 19 | 680 | 11 | 0.07 | <5 | 5 | 386 | 20 | 0.11 | <10 | <10 |
| N438986 | | 0.57 | 489 | <1 | 3.81 | 20 | 720 | 17 | 0.05 | <5 | 6 | 574 | <20 | 0.13 | <10 | <10 |
| N438987 | | 0.65 | 441 | <1 | 3.81 | 21 | 730 | 19 | 0.04 | <5 | 6 | 630 | 20 | 0.14 | <10 | <10 |
| N438988 | | 0.94 | 503 | <1 | 3.85 | 19 | 730 | 12 | 0.04 | <5 | 6 | 505 | 20 | 0.15 | <10 | <10 |
| N438989 | | 1.46 | 1420 | <1 | 0.11 | 20 | 2270 | 59 | 0.21 | 6 | 13 | 3220 | 30 | 0.51 | <10 | <10 |
| N438990 | | 2.76 | 1015 | <1 | 2.75 | 57 | 1700 | 27 | 0.07 | <5 | 20 | 1740 | <20 | 0.29 | <10 | <10 |
| N438991 | | 1.98 | 1440 | <1 | 0.25 | 32 | 2740 | 36 | 0.28 | <5 | 15 | 2170 | 30 | 0.64 | <10 | <10 |
| N438992 | | 2.28 | 1450 | <1 | 0.18 | 89 | 2810 | 30 | 0.21 | <5 | 18 | 2360 | 30 | 0.50 | <10 | <10 |
| N438993 | | 1.97 | 1765 | <1 | 0.19 | 19 | 2580 | 33 | 0.21 | <5 | 15 | 1940 | 30 | 0.67 | <10 | <10 |
| N438994 | | 1.75 | 598 | 1 | 3.70 | 38 | 1110 | 6 | 0.09 | <5 | 8 | 533 | <20 | 0.18 | <10 | <10 |
| N438995 | | 0.66 | 410 | 5 | 2.32 | 18 | 700 | 15 | 0.82 | <5 | 6 | 599 | 20 | 0.11 | <10 | <10 |
| N438996 | | 2.03 | 1255 | <1 | 0.30 | 21 | 2980 | 34 | 0.15 | <5 | 17 | 3540 | 40 | 0.77 | <10 | <10 |
| N438997 | | 1.46 | 1710 | 3 | 0.89 | 12 | 2610 | 14 | 0.23 | 6 | 13 | 1245 | 30 | 0.49 | <10 | <10 |
| N438998 | | 0.86 | 562 | <1 | 3.95 | 19 | 760 | 23 | 0.01 | <5 | 6 | 579 | 20 | 0.11 | <10 | <10 |
| N438999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N439000 | | 0.98 | 817 | <1 | 4.82 | 23 | 700 | 13 | 0.77 | <5 | 7 | 448 | <20 | 0.10 | <10 | <10 |
| N440851 | | 0.74 | 747 | <1 | 2.43 | <1 | 3450 | 75 | 0.01 | 12 | 3 | 1140 | 20 | 0.15 | <10 | <10 |
| N440852 | | 0.79 | 891 | <1 | 2.08 | 10 | 2030 | 22 | 0.04 | <5 | 8 | 1060 | 20 | 0.31 | <10 | <10 |
| N440853 | | 3.07 | 987 | <1 | 2.14 | 26 | 2640 | 27 | 0.01 | <5 | 20 | 2250 | 20 | 0.39 | <10 | <10 |
| N440854 | | 2.30 | 1030 | <1 | 2.36 | 25 | 2310 | 14 | 0.05 | <5 | 19 | 1560 | 20 | 0.24 | <10 | <10 |
| N454992 | | 2.10 | 1295 | <1 | 2.83 | 20 | 2240 | 50 | 0.15 | <5 | 17 | 1640 | 20 | 0.36 | <10 | <10 |
| N454993 | | 1.53 | 3360 | <1 | 0.02 | 10 | 7020 | 73 | 0.27 | 5 | 7 | 5270 | 140 | 1.23 | <10 | 20 |
| N454994 | | 2.23 | 980 | 3 | 1.59 | 27 | 2640 | 23 | 0.14 | <5 | 21 | 968 | 20 | 0.31 | <10 | <10 |
| N454995 | | 2.64 | 1130 | <1 | 2.20 | 44 | 2360 | 21 | 0.01 | 6 | 25 | 1045 | <20 | 0.50 | <10 | <10 |
| N454996 | | 3.32 | 947 | <1 | 2.09 | 28 | 3040 | 30 | 0.02 | <5 | 25 | 1665 | 20 | 0.49 | 10 | <10 |
| N454997 | | 2.94 | 1130 | <1 | 1.34 | 26 | 2630 | 43 | 0.15 | <5 | 22 | 1830 | 30 | 0.43 | <10 | <10 |
| N454998 | | 1.09 | 1120 | <1 | 3.09 | 8 | 2410 | 27 | 0.01 | <5 | 7 | 1640 | <20 | 0.29 | <10 | <10 |
| N454999 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N455000 | | 2.65 | 1175 | <1 | 2.71 | 23 | 2290 | 46 | 0.07 | <5 | 22 | 2100 | 20 | 0.45 | <10 | <10 |
| N451891 | | 0.36 | 1065 | 1 | 1.98 | 105 | 1420 | 14 | 0.23 | 7 | 15 | 390 | <20 | 0.21 | <10 | <10 |
| N451892 | | 0.66 | 1230 | 1 | 1.98 | 83 | 1090 | 27 | 0.67 | 7 | 12 | 439 | <20 | 0.17 | <10 | <10 |
| N451893 | | 0.50 | 1365 | <1 | 2.04 | 102 | 1120 | 18 | 0.29 | <5 | 14 | 440 | <20 | 0.19 | <10 | <10 |

***** 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: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|
| N438977 | | 358 | <10 | 121 |
| N438978 | | 306 | <10 | 134 |
| N438979 | | 338 | <10 | 125 |
| N438980 | | 54 | <10 | 31 |
| N438981 | | 53 | 10 | 33 |
| N438982 | | 244 | <10 | 134 |
| N438983 | | 55 | <10 | 23 |
| N438984 | | 63 | 10 | 27 |
| N438985 | | 56 | 10 | 32 |
| N438986 | | 55 | <10 | 38 |
| N438987 | | 59 | <10 | 47 |
| N438988 | | 63 | <10 | 30 |
| N438989 | | 334 | <10 | 115 |
| N438990 | | 140 | <10 | 72 |
| N438991 | | 746 | <10 | 146 |
| N438992 | | 237 | <10 | 134 |
| N438993 | | 415 | <10 | 90 |
| N438994 | | 65 | <10 | 33 |
| N438995 | | 42 | <10 | 23 |
| N438996 | | 479 | <10 | 233 |
| N438997 | | 352 | 10 | 84 |
| N438998 | | 63 | <10 | 40 |
| N438999 | | NSS | NSS | NSS |
| N439000 | | 43 | 10 | 45 |
| N440851 | | 34 | <10 | 62 |
| N440852 | | 133 | <10 | 94 |
| N440853 | | 190 | <10 | 136 |
| N440854 | | 190 | <10 | 105 |
| N454992 | | 168 | <10 | 95 |
| N454993 | | 365 | 10 | 277 |
| N454994 | | 272 | <10 | 138 |
| N454995 | | 222 | <10 | 91 |
| N454996 | | 230 | <10 | 118 |
| N454997 | | 261 | <10 | 148 |
| N454998 | | 117 | <10 | 91 |
| N454999 | | NSS | NSS | NSS |
| N455000 | | 209 | <10 | 110 |
| N451891 | | 128 | <10 | 53 |
| N451892 | | 116 | <10 | 87 |
| N451893 | | 130 | <10 | 67 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451894 | | <0.5 | 6.47 | 176 | 1320 | 1.9 | <2 | 0.39 | <0.5 | 25 | 289 | 74 | 5.59 | 10 | 2.37 | 30 |
| N451895 | | <0.5 | 6.76 | 19 | 2050 | 3.1 | <2 | 4.78 | <0.5 | 22 | 86 | 74 | 5.38 | 20 | 5.12 | 70 |
| N451896 | | <0.5 | 7.56 | 31 | 4340 | 9.5 | <2 | 2.43 | <0.5 | 26 | 3 | 163 | 7.15 | 30 | 5.49 | 210 |
| N451897 | | <0.5 | 6.91 | 29 | 2090 | 3.6 | <2 | 4.52 | <0.5 | 23 | 89 | 102 | 5.54 | 20 | 5.73 | 80 |
| N451898 | | <0.5 | 6.82 | 23 | 2860 | 2.3 | <2 | 4.80 | <0.5 | 24 | 79 | 114 | 5.87 | 20 | 4.68 | 90 |
| N451899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451900 | | <0.5 | 6.84 | 20 | 2040 | 2.2 | <2 | 4.99 | <0.5 | 21 | 87 | 104 | 5.29 | 20 | 5.02 | 80 |
| N451901 | | <0.5 | 6.35 | 32 | 1790 | 6.3 | <2 | 5.03 | <0.5 | 15 | 58 | 58 | 4.87 | 10 | 5.02 | 80 |
| N451902 | | <0.5 | 5.61 | 11 | 1870 | 5.0 | <2 | 8.29 | <0.5 | 14 | 61 | 96 | 4.76 | 10 | 5.98 | 50 |
| N451903 | | <0.5 | 6.52 | 11 | 2240 | 1.9 | <2 | 5.10 | <0.5 | 16 | 149 | 45 | 4.10 | 20 | 1.88 | 40 |
| N451904 | | <0.5 | 8.40 | 40 | 2720 | 5.9 | <2 | 1.93 | <0.5 | 31 | 121 | 119 | 6.68 | 30 | 5.88 | 90 |
| N451905 | | <0.5 | 7.25 | 30 | 1970 | 3.5 | <2 | 2.95 | <0.5 | 13 | 64 | 94 | 5.64 | 20 | 4.71 | 70 |
| N451906 | | <0.5 | 6.84 | 26 | 1880 | 2.1 | <2 | 3.21 | <0.5 | 23 | 83 | 62 | 5.24 | 20 | 0.88 | 40 |
| N451907 | | <0.5 | 7.59 | 25 | 2070 | 2.7 | <2 | 2.34 | <0.5 | 11 | 24 | 90 | 4.85 | 20 | 4.53 | 50 |
| N443865 | | <0.5 | 7.55 | 14 | 930 | 3.8 | <2 | 3.28 | <0.5 | 7 | 62 | 3 | 5.62 | 20 | 4.63 | 80 |
| N443866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443867 | | <0.5 | 6.76 | 37 | 830 | 1.5 | <2 | 2.78 | <0.5 | 31 | 374 | 49 | 5.53 | 20 | 3.04 | 20 |
| N443868 | | <0.5 | 7.46 | 14 | 3100 | 3.7 | <2 | 3.13 | <0.5 | 11 | 76 | 468 | 5.22 | 30 | 5.58 | 50 |
| N443869 | | <0.5 | 8.99 | 15 | 4200 | 4.5 | <2 | 1.65 | <0.5 | 15 | 13 | 481 | 4.96 | 20 | 6.08 | 90 |
| N443870 | | 0.6 | 8.85 | 19 | 6010 | 5.5 | <2 | 1.37 | <0.5 | 10 | 86 | 77 | 4.51 | 30 | 4.15 | 80 |
| N443871 | | <0.5 | 8.01 | 28 | 5630 | 5.4 | <2 | 2.48 | <0.5 | 11 | 83 | 102 | 4.41 | 20 | 6.41 | 60 |
| N443872 | | <0.5 | 8.18 | 16 | 1400 | 6.0 | <2 | 2.85 | <0.5 | 15 | 92 | 103 | 4.22 | 20 | 2.06 | 60 |
| N443873 | | <0.5 | 6.71 | 6 | 1500 | 1.6 | <2 | 1.15 | <0.5 | 14 | 174 | 247 | 3.47 | 20 | 4.72 | 30 |
| N443874 | | <0.5 | 10.05 | 7 | 2120 | 9.7 | <2 | 0.64 | <0.5 | 10 | 6 | 64 | 3.26 | 30 | 5.12 | 70 |
| N443875 | | <0.5 | 8.30 | 5 | 3260 | 3.6 | <2 | 2.89 | <0.5 | 18 | 35 | 110 | 5.15 | 20 | 4.33 | 80 |
| N443876 | | <0.5 | 7.44 | 46 | 740 | 1.2 | <2 | 1.85 | <0.5 | 20 | 248 | 62 | 4.80 | 20 | 2.24 | 20 |
| N443877 | | <0.5 | 6.68 | 27 | 2050 | 2.1 | <2 | 4.27 | <0.5 | 32 | 119 | 86 | 6.93 | 20 | 3.16 | 80 |
| N443878 | | <0.5 | 6.72 | 8 | 1680 | 1.3 | <2 | 2.17 | <0.5 | 7 | 67 | 21 | 1.85 | 20 | 1.62 | 20 |
| N443879 | | <0.5 | 6.80 | 33 | 2070 | 6.0 | <2 | 4.80 | <0.5 | 25 | 56 | 121 | 7.57 | 20 | 5.00 | 170 |
| N443880 | | <0.5 | 7.11 | 30 | 1540 | 2.9 | <2 | 5.14 | <0.5 | 19 | 49 | 143 | 4.94 | 20 | 3.20 | 80 |
| N443881 | | <0.5 | 9.42 | 18 | 2070 | 4.3 | <2 | 1.78 | <0.5 | 21 | 12 | 8 | 5.34 | 20 | 5.24 | 90 |
| N443882 | | <0.5 | 8.09 | 20 | 2270 | 4.2 | <2 | 2.90 | <0.5 | 9 | 12 | 115 | 4.91 | 20 | 5.16 | 60 |
| H749451 | | <0.5 | 4.93 | <5 | 790 | 0.8 | <2 | 1.17 | <0.5 | 12 | 55 | 18 | 2.28 | 10 | 1.46 | 40 |
| H749452 | | <0.5 | 6.59 | 17 | 1390 | 2.0 | <2 | 5.24 | <0.5 | 26 | 91 | 59 | 5.68 | 20 | 4.64 | 40 |
| H749453 | | <0.5 | 6.52 | 28 | 960 | 2.2 | 2 | 5.15 | <0.5 | 24 | 86 | 81 | 5.75 | 20 | 3.95 | 40 |
| H749454 | | <0.5 | 6.99 | 8 | 1540 | 1.9 | <2 | 4.44 | <0.5 | 24 | 83 | 81 | 5.45 | 20 | 3.72 | 80 |
| H749455 | | <0.5 | 7.15 | 29 | 1050 | 2.0 | <2 | 4.28 | <0.5 | 22 | 83 | 102 | 5.46 | 20 | 3.10 | 20 |
| H749456 | | <0.5 | 6.51 | <5 | 1140 | 3.5 | <2 | 1.54 | <0.5 | 1 | 30 | 5 | 1.17 | 20 | 2.25 | 20 |
| H749457 | | <0.5 | 7.80 | 13 | 690 | 1.1 | <2 | 0.23 | <0.5 | 19 | 136 | 38 | 2.93 | 20 | 1.74 | 20 |
| H749458 | | <0.5 | 6.40 | 13 | 1370 | 2.0 | <2 | 5.19 | <0.5 | 22 | 88 | 89 | 5.45 | 20 | 4.34 | 60 |

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

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**KIRKLAND LAKE ON P2N 3L1**


**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451894 | | 0.57 | 1525 | 1 | 1.96 | 117 | 1120 | 20 | 0.31 | <5 | 17 | 421 | <20 | 0.15 | <10 | <10 |
| N451895 | | 1.95 | 1325 | <1 | 2.25 | 18 | 2140 | 21 | 0.13 | <5 | 18 | 1235 | 20 | 0.28 | <10 | <10 |
| N451896 | | 1.21 | 1100 | <1 | 1.52 | 14 | 2070 | 37 | 0.36 | 6 | 6 | 960 | 50 | 0.62 | <10 | <10 |
| N451897 | | 2.04 | 1115 | <1 | 1.69 | 23 | 2310 | 27 | 0.12 | <5 | 19 | 1660 | 20 | 0.35 | <10 | <10 |
| N451898 | | 2.36 | 1040 | <1 | 0.75 | 27 | 2880 | 20 | 0.03 | <5 | 22 | 1590 | 20 | 0.51 | 10 | <10 |
| N451899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451900 | | 2.09 | 1280 | <1 | 1.68 | 22 | 2170 | 24 | 0.06 | 6 | 18 | 1365 | 20 | 0.34 | <10 | <10 |
| N451901 | | 2.11 | 1240 | <1 | 0.26 | 15 | 1990 | 17 | 0.10 | 8 | 16 | 1750 | 20 | 0.23 | 10 | <10 |
| N451902 | | 3.76 | 1395 | <1 | 0.06 | 20 | 1940 | 12 | 0.04 | 9 | 17 | 1330 | 20 | 0.25 | <10 | <10 |
| N451903 | | 2.06 | 1480 | <1 | 2.68 | 43 | 1060 | 10 | 0.04 | <5 | 15 | 1025 | <20 | 0.25 | 10 | <10 |
| N451904 | | 1.60 | 756 | <1 | 1.23 | 35 | 2700 | 28 | 0.02 | 5 | 22 | 1240 | 20 | 0.46 | 10 | <10 |
| N451905 | | 1.27 | 1065 | <1 | 2.83 | 20 | 2160 | 92 | 0.01 | 5 | 15 | 1185 | 20 | 0.42 | <10 | <10 |
| N451906 | | 2.30 | 1410 | 2 | 3.32 | 22 | 1560 | 28 | 0.29 | 6 | 20 | 1115 | 20 | 0.35 | <10 | <10 |
| N451907 | | 1.11 | 1265 | <1 | 2.88 | 7 | 2610 | 11 | 0.04 | 5 | 6 | 771 | 20 | 0.21 | <10 | <10 |
| N443865 | | 1.64 | 1235 | <1 | 1.40 | 19 | 2510 | 13 | 0.06 | 12 | 16 | 489 | 20 | 0.37 | <10 | <10 |
| N443866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443867 | | 2.05 | 797 | <1 | 2.63 | 171 | 750 | 5 | 0.22 | <5 | 20 | 630 | <20 | 0.35 | <10 | <10 |
| N443868 | | 1.55 | 1715 | 5 | 1.79 | 29 | 2090 | 15 | 0.17 | 7 | 14 | 1100 | 20 | 0.35 | <10 | 10 |
| N443869 | | 0.68 | 1240 | 6 | 2.11 | 6 | 2620 | 22 | 0.23 | <5 | 6 | 2520 | 30 | 0.33 | 10 | <10 |
| N443870 | | 1.17 | 1375 | 3 | 1.69 | 23 | 1230 | 120 | 0.03 | 5 | 8 | 1745 | 30 | 0.43 | <10 | <10 |
| N443871 | | 1.10 | 1610 | <1 | 2.00 | 24 | 1010 | 140 | 0.02 | <5 | 7 | 1980 | 30 | 0.39 | <10 | <10 |
| N443872 | | 1.56 | 1415 | <1 | 4.39 | 26 | 1350 | 45 | 0.21 | <5 | 7 | 1535 | 30 | 0.43 | 10 | <10 |
| N443873 | | 1.09 | 399 | 56 | 1.19 | 68 | 800 | <2 | 0.15 | <5 | 12 | 210 | <20 | 0.25 | <10 | <10 |
| N443874 | | 0.60 | 444 | <1 | 1.48 | 9 | 1370 | 43 | 0.02 | <5 | 4 | 316 | 30 | 0.25 | 10 | 10 |
| N443875 | | 1.60 | 1140 | <1 | 3.08 | 16 | 2950 | 51 | 0.06 | <5 | 10 | 1695 | 30 | 0.38 | 10 | <10 |
| N443876 | | 1.64 | 712 | 1 | 1.42 | 140 | 690 | 3 | 0.09 | <5 | 20 | 230 | <20 | 0.34 | <10 | <10 |
| N443877 | | 3.93 | 1375 | <1 | 2.20 | 52 | 2780 | 11 | 0.02 | <5 | 25 | 1615 | 20 | 0.52 | 10 | <10 |
| N443878 | | 0.77 | 418 | <1 | 3.45 | 23 | 790 | 4 | 0.05 | <5 | 6 | 473 | <20 | 0.12 | 10 | <10 |
| N443879 | | 1.93 | 1115 | <1 | 0.67 | 27 | 4390 | 20 | 0.02 | <5 | 21 | 1420 | 40 | 0.57 | 10 | <10 |
| N443880 | | 2.04 | 1525 | <1 | 2.11 | 17 | 2320 | 32 | 0.07 | 11 | 15 | 1245 | 20 | 0.41 | <10 | <10 |
| N443881 | | 0.93 | 678 | 1 | 2.64 | 7 | 2800 | 25 | 2.14 | <5 | 6 | 1410 | 30 | 0.20 | <10 | <10 |
| N443882 | | 0.88 | 990 | <1 | 2.10 | 6 | 2630 | 30 | 0.13 | <5 | 5 | 1385 | 20 | 0.33 | 10 | <10 |
| H749451 | | 0.70 | 427 | 1 | 3.00 | 29 | 1010 | 8 | 1.32 | <5 | 5 | 231 | <20 | 0.12 | 10 | <10 |
| H749452 | | 2.30 | 1090 | <1 | 1.47 | 26 | 1840 | 11 | 0.01 | <5 | 27 | 964 | <20 | 0.36 | 10 | <10 |
| H749453 | | 2.63 | 941 | <1 | 1.44 | 27 | 1770 | 8 | 0.01 | 5 | 26 | 1165 | <20 | 0.47 | 10 | <10 |
| H749454 | | 2.15 | 1145 | <1 | 2.97 | 27 | 2420 | 12 | 0.03 | <5 | 18 | 1110 | 30 | 0.36 | 10 | <10 |
| H749455 | | 1.63 | 1100 | <1 | 0.22 | 40 | 1330 | 14 | 0.01 | <5 | 23 | 512 | <20 | 0.33 | <10 | <10 |
| H749456 | | 0.77 | 332 | <1 | 1.51 | 12 | 190 | 16 | <0.01 | <5 | 2 | 334 | 20 | 0.08 | <10 | <10 |
| H749457 | | 0.56 | 312 | <1 | 2.55 | 70 | 650 | 4 | 0.06 | <5 | 12 | 216 | <20 | 0.17 | <10 | <10 |
| H749458 | | 2.15 | 1090 | 1 | 2.02 | 29 | 2470 | 38 | 0.02 | <5 | 22 | 1205 | 20 | 0.38 | <10 | <10 |

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

ALS Canada Ltd.
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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: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
|---|---|---|---|---|
| N451894 | | 139 | <10 | 196 |
| N451895 | | 185 | <10 | 81 |
| N451896 | | 341 | 10 | 104 |
| N451897 | | 190 | 10 | 98 |
| N451898 | | 215 | <10 | 98 |
| N451899 | | NSS | NSS | NSS |
| N451900 | | 176 | <10 | 98 |
| N451901 | | 214 | 10 | 81 |
| N451902 | | 153 | 10 | 68 |
| N451903 | | 122 | <10 | 81 |
| N451904 | | 269 | 10 | 221 |
| N451905 | | 201 | <10 | 126 |
| N451906 | | 161 | <10 | 122 |
| N451907 | | 103 | <10 | 132 |
| N443865 | | 205 | 20 | 105 |
| N443866 | | NSS | NSS | NSS |
| N443867 | | 160 | <10 | 89 |
| N443868 | | 180 | 10 | 72 |
| N443869 | | 121 | 30 | 84 |
| N443870 | | 207 | <10 | 331 |
| N443871 | | 203 | <10 | 325 |
| N443872 | | 206 | <10 | 232 |
| N443873 | | 114 | 10 | 33 |
| N443874 | | 143 | <10 | 127 |
| N443875 | | 159 | <10 | 129 |
| N443876 | | 151 | <10 | 116 |
| N443877 | | 220 | <10 | 145 |
| N443878 | | 50 | <10 | 38 |
| N443879 | | 243 | <10 | 103 |
| N443880 | | 172 | <10 | 127 |
| N443881 | | 115 | <10 | 64 |
| N443882 | | 118 | <10 | 108 |
| H749451 | | 32 | 10 | 22 |
| H749452 | | 211 | <10 | 100 |
| H749453 | | 221 | <10 | 74 |
| H749454 | | 169 | <10 | 122 |
| H749455 | | 204 | <10 | 98 |
| H749456 | | 17 | <10 | 18 |
| H749457 | | 91 | <10 | 46 |
| H749458 | | 194 | <10 | 90 |

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# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
| H749459 | | <0.5 | 7.57 | 26 | 2000 | 1.9 | <2 | 3.65 | <0.5 | 27 | 111 | 115 | 6.03 | 20 | 3.93 | 70 |

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**Finalized Date: 26-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

| 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 |
| H749459 | | 1.88 | 1195 | 1 | 3.37 | 27 | 2750 | 8 | 0.01 | 9 | 19 | 1155 | 20 | 0.39 | <10 | <10 |

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|---|---|---|---|---|
| H749459 | | 190 | <10 | 141 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042941

## 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