ALS Canada Ltd.

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

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


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

# CERTIFICATE SD14042826

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 175 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

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

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

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

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

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

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

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174901 | | <0.5 | 6.67 | 8 | 4390 | 6.3 | <2 | 4.74 | <0.5 | 21 | 53 | 23 | 6.32 | 20 | 4.21 | 160 |
| L174902 | | <0.5 | 6.21 | 12 | 2580 | 5.5 | 3 | 4.64 | <0.5 | 27 | 73 | 118 | 7.82 | 20 | 4.23 | 150 |
| L174903 | | <0.5 | 6.41 | 7 | 650 | 1.6 | <2 | 2.49 | <0.5 | 25 | 190 | 48 | 4.64 | 20 | 1.50 | 40 |
| L174904 | | <0.5 | 9.91 | 14 | 3390 | 7.3 | <2 | 0.98 | <0.5 | 9 | 6 | 6 | 3.43 | 20 | 3.97 | 50 |
| L174905 | | <0.5 | 7.06 | 9 | 2440 | 2.6 | <2 | 3.35 | <0.5 | 21 | 57 | 91 | 5.23 | 20 | 3.53 | 70 |
| L174906 | | <0.5 | 6.66 | 7 | 410 | 1.3 | 2 | 2.17 | <0.5 | 31 | 203 | 58 | 4.67 | 20 | 1.84 | 20 |
| L174907 | | <0.5 | 10.35 | 7 | 3340 | 5.1 | 3 | 0.70 | <0.5 | 7 | 3 | 22 | 2.65 | 30 | 4.53 | 60 |
| L174908 | | <0.5 | 10.70 | 5 | 3840 | 5.2 | <2 | 0.38 | <0.5 | 10 | 3 | 27 | 3.06 | 20 | 5.03 | 60 |
| L174909 | | <0.5 | 5.61 | 14 | 4170 | 4.8 | 3 | 4.42 | <0.5 | 27 | 34 | 112 | 7.09 | 20 | 2.96 | 130 |
| L174910 | | <0.5 | 7.50 | 6 | 790 | 1.6 | 3 | 3.83 | <0.5 | 22 | 165 | 50 | 5.15 | 20 | 1.59 | 30 |
| L174911 | | <0.5 | 6.03 | <5 | 890 | 1.4 | <2 | 4.28 | <0.5 | 28 | 192 | 6 | 3.95 | 20 | 1.45 | 40 |
| L174912 | | <0.5 | 9.84 | 11 | 3600 | 5.3 | <2 | 0.96 | <0.5 | 9 | 5 | 67 | 3.42 | 20 | 4.25 | 80 |
| L174913 | | <0.5 | 8.27 | 9 | 3020 | 10.2 | <2 | 1.87 | <0.5 | 22 | 31 | 125 | 6.92 | 30 | 3.20 | 160 |
| L174914 | | <0.5 | 9.65 | 6 | 3670 | 5.5 | <2 | 1.80 | <0.5 | 11 | 3 | 61 | 3.39 | 30 | 2.56 | 70 |
| L174915 | | <0.5 | 10.55 | 6 | 3070 | 6.4 | 2 | 0.26 | <0.5 | 7 | 1 | 104 | 2.22 | 30 | 4.03 | 50 |
| L174916 | | <0.5 | 10.00 | <5 | 6640 | 6.4 | <2 | 0.37 | <0.5 | 7 | 2 | 66 | 4.14 | 30 | 2.77 | 90 |
| L174917 | | 0.6 | 8.95 | 5 | 2800 | 4.7 | 3 | 1.87 | 2.6 | 12 | 6 | 134 | 4.49 | 20 | 4.31 | 60 |
| L174918 | | <0.5 | 7.12 | 6 | 1270 | 2.6 | <2 | 4.81 | <0.5 | 19 | 51 | 97 | 4.69 | 20 | 4.15 | 90 |
| L174919 | | <0.5 | 7.96 | <5 | 2310 | 3.0 | <2 | 3.96 | <0.5 | 22 | 78 | 86 | 5.78 | 20 | 4.04 | 90 |
| L174920 | | <0.5 | 7.39 | 6 | 2400 | 1.6 | 3 | 2.62 | <0.5 | 11 | 33 | 1 | 4.61 | 20 | 3.22 | 70 |
| L174921 | | <0.5 | 10.90 | <5 | 3870 | 5.5 | <2 | 0.34 | <0.5 | 6 | 2 | 20 | 2.45 | 20 | 5.12 | 70 |
| L174922 | | <0.5 | 6.14 | 7 | 1970 | 4.3 | 2 | 4.39 | <0.5 | 17 | 102 | 83 | 5.65 | 20 | 1.43 | 130 |
| L174923 | | <0.5 | 7.72 | 28 | 2920 | 1.7 | <2 | 0.15 | <0.5 | 1 | 14 | 4 | 1.25 | 20 | 4.68 | 30 |
| L174924 | | <0.5 | 9.61 | 7 | 4590 | 3.9 | <2 | 0.77 | <0.5 | 14 | 4 | 60 | 2.95 | 20 | 4.67 | 60 |
| L174925 | | <0.5 | 2.41 | <5 | 470 | <0.5 | 4 | 0.14 | <0.5 | <1 | 22 | 3 | 0.36 | 10 | 0.12 | 10 |
| L174926 | | <0.5 | 9.36 | 10 | 1910 | 4.3 | <2 | 1.75 | <0.5 | 24 | 76 | 131 | 5.52 | 30 | 4.22 | 70 |
| L174927 | | <0.5 | 4.37 | 11 | 900 | 1.8 | <2 | 10.60 | 0.5 | 31 | 73 | 106 | 6.85 | 20 | 1.32 | 70 |
| L174928 | | <0.5 | 6.25 | 8 | 1020 | 2.5 | <2 | 5.93 | <0.5 | 26 | 115 | 182 | 7.31 | 20 | 1.47 | 80 |
| L174929 | | <0.5 | 7.27 | 6 | 2440 | 6.9 | <2 | 3.08 | <0.5 | 25 | 26 | 25 | 6.42 | 20 | 4.67 | 170 |
| L174930 | | <0.5 | 9.28 | 11 | 1560 | 3.9 | <2 | 1.98 | <0.5 | 25 | 40 | 127 | 5.31 | 20 | 4.62 | 100 |
| L174931 | | <0.5 | 6.42 | <5 | 1860 | 2.4 | <2 | 3.84 | <0.5 | 17 | 57 | 6 | 4.26 | 20 | 2.71 | 70 |
| L174932 | | <0.5 | 7.79 | 8 | 7120 | 14.1 | <2 | 1.45 | <0.5 | 24 | 3 | 189 | 7.60 | 30 | 4.34 | 220 |
| L174933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174934 | | <0.5 | 7.69 | <5 | 130 | 0.5 | <2 | 2.33 | <0.5 | 28 | 53 | 9 | 6.56 | 20 | 0.17 | 10 |
| L174935 | | <0.5 | 7.54 | <5 | 120 | <0.5 | <2 | 2.71 | <0.5 | 42 | 381 | 18 | 7.67 | 20 | 0.15 | <10 |
| L174936 | | <0.5 | 7.79 | <5 | 1520 | 3.6 | <2 | 3.06 | <0.5 | 28 | 40 | 161 | 4.83 | 20 | 3.34 | 70 |
| L174937 | | <0.5 | 7.67 | <5 | 60 | <0.5 | <2 | 4.01 | <0.5 | 41 | 141 | 100 | 5.94 | 20 | 0.03 | <10 |
| L174938 | | <0.5 | 6.22 | 5 | 1270 | 3.5 | <2 | 8.36 | <0.5 | 27 | 12 | 21 | 6.83 | 20 | 3.24 | 70 |
| L174939 | | <0.5 | 7.29 | 27 | 450 | 1.0 | <2 | 1.78 | <0.5 | 23 | 188 | 62 | 4.24 | 20 | 1.53 | 30 |
| L174940 | | <0.5 | 7.41 | 28 | 620 | 1.1 | <2 | 2.19 | <0.5 | 19 | 158 | 51 | 3.84 | 20 | 1.82 | 20 |

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

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
| L174901 | | 1.77 | 1785 | <1 | 2.76 | 39 | 3000 | 30 | 0.07 | 11 | 15 | 2010 | 40 | 0.32 | <10 | <10 |
| L174902 | | 2.15 | 1420 | <1 | 1.20 | 28 | 5820 | 26 | 0.08 | 10 | 18 | 1815 | 30 | 0.51 | <10 | <10 |
| L174903 | | 2.25 | 750 | <1 | 2.33 | 91 | 970 | 10 | 0.14 | <5 | 15 | 370 | <20 | 0.33 | <10 | <10 |
| L174904 | | 0.41 | 857 | <1 | 1.31 | 4 | 1230 | 32 | 0.01 | <5 | 3 | 1270 | 30 | 0.30 | <10 | <10 |
| L174905 | | 1.31 | 1145 | <1 | 3.79 | 18 | 2440 | 22 | 0.03 | <5 | 13 | 1545 | 20 | 0.33 | <10 | <10 |
| L174906 | | 1.55 | 810 | <1 | 2.40 | 108 | 760 | 6 | 0.24 | <5 | 19 | 152 | <20 | 0.25 | <10 | <10 |
| L174907 | | 0.28 | 724 | <1 | 2.84 | <1 | 1070 | 17 | 0.14 | 5 | 2 | 894 | 20 | 0.20 | <10 | <10 |
| L174908 | | 0.22 | 594 | <1 | 3.28 | 2 | 1080 | 14 | 0.64 | <5 | 2 | 1110 | 30 | 0.25 | <10 | <10 |
| L174909 | | 3.04 | 1325 | <1 | 2.31 | 17 | 3920 | 25 | 0.10 | 12 | 25 | 1085 | 30 | 0.56 | <10 | <10 |
| L174910 | | 2.05 | 726 | 1 | 4.60 | 62 | 1740 | 14 | 0.20 | 9 | 14 | 343 | <20 | 0.29 | <10 | <10 |
| L174911 | | 3.40 | 759 | <1 | 1.38 | 140 | 1330 | 2 | 0.05 | <5 | 14 | 582 | <20 | 0.31 | <10 | <10 |
| L174912 | | 0.41 | 928 | <1 | 1.55 | 4 | 1170 | 18 | 0.02 | 7 | 3 | 1390 | 30 | 0.27 | <10 | <10 |
| L174913 | | 1.20 | 946 | <1 | 3.81 | 19 | 2740 | 37 | 0.11 | 8 | 12 | 840 | 50 | 0.58 | <10 | <10 |
| L174914 | | 0.36 | 957 | <1 | 4.87 | 2 | 1360 | 8 | 0.18 | 10 | 4 | 722 | 30 | 0.39 | <10 | <10 |
| L174915 | | 0.23 | 611 | <1 | 2.01 | 4 | 940 | 53 | 0.03 | 5 | 2 | 641 | 30 | 0.24 | <10 | <10 |
| L174916 | | 0.27 | 667 | <1 | 4.91 | 3 | 1430 | 43 | 0.94 | 7 | 4 | 944 | 30 | 0.22 | <10 | <10 |
| L174917 | | 0.66 | 3120 | <1 | 3.35 | 4 | 1770 | 34 | 0.37 | 7 | 6 | 1400 | 30 | 0.28 | <10 | <10 |
| L174918 | | 1.83 | 1270 | <1 | 2.29 | 16 | 2350 | 11 | 0.04 | 8 | 14 | 1055 | 20 | 0.36 | <10 | <10 |
| L174919 | | 2.17 | 1355 | <1 | 3.19 | 30 | 2470 | 21 | 0.03 | 10 | 17 | 1085 | 20 | 0.46 | <10 | <10 |
| L174920 | | 1.38 | 894 | <1 | 3.66 | 21 | 2170 | 15 | 1.42 | <5 | 10 | 997 | 20 | 0.38 | <10 | <10 |
| L174921 | | 0.17 | 537 | 1 | 2.68 | 2 | 1010 | 28 | 0.03 | <5 | 2 | 591 | 20 | 0.21 | <10 | <10 |
| L174922 | | 1.73 | 1605 | <1 | 3.24 | 36 | 4380 | 15 | 0.06 | <5 | 21 | 1210 | 30 | 0.37 | 10 | <10 |
| L174923 | | 0.13 | 43 | 1 | 1.24 | 3 | 790 | 6 | 0.26 | <5 | 3 | 235 | <20 | 0.13 | <10 | <10 |
| L174924 | | 0.24 | 1795 | <1 | 2.78 | <1 | 1110 | 4 | 0.06 | 5 | 2 | 860 | 20 | 0.18 | <10 | <10 |
| L174925 | | 0.04 | 66 | 2 | 1.90 | <1 | 240 | 23 | 0.08 | <5 | <1 | 89 | <20 | 0.03 | <10 | <10 |
| L174926 | | 0.97 | 1055 | <1 | 3.41 | 35 | 2120 | 30 | 0.04 | <5 | 12 | 679 | 20 | 0.23 | <10 | <10 |
| L174927 | | 3.83 | 2730 | <1 | 1.78 | 31 | 2480 | 15 | 0.02 | 8 | 29 | 1715 | <20 | 0.47 | <10 | <10 |
| L174928 | | 4.01 | 1660 | 1 | 1.83 | 37 | 2970 | 8 | 0.02 | <5 | 28 | 1105 | <20 | 0.56 | <10 | <10 |
| L174929 | | 1.19 | 1210 | <1 | 0.06 | 20 | 5390 | 14 | 0.04 | <5 | 14 | 1135 | 30 | 0.44 | <10 | <10 |
| L174930 | | 0.84 | 1315 | <1 | 2.82 | 16 | 3310 | 23 | 0.02 | <5 | 12 | 839 | 30 | 0.33 | <10 | <10 |
| L174931 | | 1.64 | 833 | 1 | 1.93 | 23 | 2370 | 7 | 0.04 | <5 | 14 | 1095 | 20 | 0.26 | <10 | <10 |
| L174932 | | 0.39 | 1965 | <1 | 0.58 | 7 | 2070 | 24 | 0.25 | <5 | 9 | 760 | 70 | 0.61 | <10 | <10 |
| L174933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174934 | | 2.20 | 840 | 1 | 3.68 | 41 | 990 | <2 | <0.01 | <5 | 21 | 203 | <20 | 0.60 | <10 | <10 |
| L174935 | | 3.50 | 1500 | <1 | 3.59 | 145 | 500 | <2 | <0.01 | <5 | 20 | 181 | <20 | 0.56 | <10 | <10 |
| L174936 | | 1.37 | 1030 | 4 | 2.49 | 16 | 2690 | 10 | 0.11 | <5 | 10 | 995 | 20 | 0.24 | <10 | <10 |
| L174937 | | 3.34 | 963 | <1 | 2.77 | 63 | 330 | <2 | 0.31 | <5 | 39 | 193 | <20 | 0.61 | <10 | <10 |
| L174938 | | 3.39 | 3680 | <1 | 1.15 | 7 | 2070 | 57 | 0.12 | <5 | 5 | 2090 | 20 | 0.19 | <10 | <10 |
| L174939 | | 1.38 | 620 | 2 | 2.26 | 99 | 740 | 8 | 0.22 | <5 | 14 | 212 | <20 | 0.27 | <10 | <10 |
| L174940 | | 1.24 | 579 | 1 | 1.92 | 81 | 570 | 5 | 0.18 | <5 | 13 | 224 | <20 | 0.27 | <10 | <10 |

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

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|
| L174901 | | 203 | <10 | 103 |
| L174902 | | 230 | <10 | 111 |
| L174903 | | 130 | <10 | 106 |
| L174904 | | 99 | <10 | 116 |
| L174905 | | 178 | <10 | 123 |
| L174906 | | 136 | <10 | 85 |
| L174907 | | 66 | <10 | 80 |
| L174908 | | 64 | <10 | 88 |
| L174909 | | 202 | <10 | 152 |
| L174910 | | 146 | <10 | 54 |
| L174911 | | 109 | <10 | 84 |
| L174912 | | 97 | <10 | 114 |
| L174913 | | 281 | <10 | 104 |
| L174914 | | 211 | <10 | 67 |
| L174915 | | 95 | <10 | 87 |
| L174916 | | 240 | <10 | 141 |
| L174917 | | 119 | <10 | 1245 |
| L174918 | | 161 | 10 | 89 |
| L174919 | | 196 | <10 | 179 |
| L174920 | | 101 | <10 | 100 |
| L174921 | | 68 | <10 | 104 |
| L174922 | | 183 | <10 | 144 |
| L174923 | | 32 | <10 | 49 |
| L174924 | | 61 | <10 | 75 |
| L174925 | | 4 | <10 | 5 |
| L174926 | | 181 | <10 | 139 |
| L174927 | | 238 | <10 | 103 |
| L174928 | | 253 | <10 | 175 |
| L174929 | | 214 | <10 | 135 |
| L174930 | | 167 | <10 | 119 |
| L174931 | | 132 | <10 | 84 |
| L174932 | | 304 | <10 | 257 |
| L174933 | | NSS | NSS | NSS |
| L174934 | | 179 | <10 | 145 |
| L174935 | | 160 | <10 | 150 |
| L174936 | | 194 | <10 | 124 |
| L174937 | | 334 | <10 | 64 |
| L174938 | | 149 | <10 | 160 |
| L174939 | | 103 | <10 | 82 |
| L174940 | | 96 | <10 | 79 |

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# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174941 | | <0.5 | 7.70 | <5 | 1670 | 3.5 | <2 | 5.01 | <0.5 | 33 | 85 | 103 | 7.12 | 30 | 3.81 | 100 |
| L174942 | | <0.5 | 7.76 | 5 | 1570 | 1.9 | <2 | 1.77 | <0.5 | 13 | 101 | 10 | 2.80 | 20 | 2.61 | 40 |
| L174943 | | <0.5 | 7.69 | 8 | 840 | 3.3 | <2 | 4.07 | <0.5 | 31 | 138 | 52 | 6.32 | 20 | 3.55 | 50 |
| L174944 | | <0.5 | 7.45 | 13 | 3360 | 8.6 | <2 | 4.21 | <0.5 | 27 | 85 | 146 | 6.71 | 20 | 5.35 | 150 |
| L174945 | | <0.5 | 8.00 | <5 | 320 | <0.5 | <2 | 10.25 | <0.5 | 33 | 83 | 62 | 5.48 | 10 | 0.69 | <10 |
| L174946 | | <0.5 | 5.74 | <5 | 880 | 2.8 | <2 | 7.59 | <0.5 | 43 | 102 | 68 | 7.38 | 20 | 3.01 | 90 |
| L174947 | | <0.5 | 8.27 | <5 | 1100 | 4.7 | <2 | 3.77 | <0.5 | 16 | 14 | 82 | 4.91 | 20 | 4.29 | 50 |
| L174948 | | <0.5 | 9.67 | 12 | 2890 | 7.0 | <2 | 1.46 | <0.5 | 16 | 16 | 14 | 4.45 | 30 | 4.35 | 80 |
| L174949 | | <0.5 | 7.14 | 7 | 6570 | 16.3 | <2 | 4.21 | <0.5 | 16 | 3 | 142 | 6.78 | 30 | 4.00 | 180 |
| L174950 | | <0.5 | 6.92 | 31 | 510 | 1.0 | <2 | 1.59 | <0.5 | 38 | 237 | 79 | 3.83 | 20 | 1.54 | 40 |
| L174951 | | <0.5 | 6.67 | 14 | 560 | 1.4 | <2 | 2.92 | <0.5 | 17 | 128 | 26 | 3.14 | 20 | 2.01 | 20 |
| L174952 | | <0.5 | 7.44 | 5 | 1190 | 1.8 | <2 | 1.65 | <0.5 | 10 | 46 | 4 | 2.63 | 20 | 2.27 | 40 |
| L174953 | | <0.5 | 9.09 | 5 | 3230 | 4.5 | <2 | 1.79 | <0.5 | 18 | 16 | 82 | 4.99 | 20 | 4.48 | 70 |
| L174954 | | <0.5 | 8.20 | 5 | 3110 | 2.3 | <2 | 1.86 | <0.5 | 17 | 14 | 107 | 4.54 | 20 | 3.74 | 70 |
| L174955 | | <0.5 | 6.70 | 17 | 680 | 0.9 | 2 | 1.43 | <0.5 | 22 | 144 | 39 | 3.11 | 20 | 1.41 | 20 |
| N423751 | | <0.5 | 9.07 | 48 | 860 | 1.6 | <2 | 0.62 | <0.5 | 25 | 167 | 55 | 4.53 | 20 | 2.41 | 30 |
| N423752 | | <0.5 | 6.96 | 15 | 2110 | 2.7 | <2 | 4.52 | <0.5 | 51 | 66 | 180 | 5.00 | 20 | 4.72 | 70 |
| N423753 | | <0.5 | 7.47 | 13 | 1960 | 3.2 | <2 | 4.15 | 0.5 | 28 | 98 | 94 | 6.13 | 20 | 3.84 | 80 |
| N423754 | | <0.5 | 9.49 | 9 | 2650 | 4.0 | <2 | 1.47 | <0.5 | 19 | 29 | 88 | 4.97 | 20 | 5.06 | 80 |
| N423755 | | <0.5 | 8.03 | 7 | 2590 | 3.3 | <2 | 2.37 | <0.5 | 22 | 25 | 94 | 4.29 | 20 | 4.81 | 60 |
| N423756 | | <0.5 | 9.19 | 14 | 4880 | 5.6 | <2 | 1.63 | <0.5 | 13 | 4 | 176 | 3.73 | 20 | 4.83 | 80 |
| N423757 | | <0.5 | 6.58 | 11 | 2230 | 1.6 | <2 | 5.13 | <0.5 | 28 | 103 | 109 | 5.77 | 20 | 4.72 | 70 |
| N423758 | | <0.5 | 7.49 | 6 | 2010 | 2.9 | <2 | 3.19 | <0.5 | 15 | 25 | 70 | 4.39 | 20 | 4.43 | 50 |
| N423759 | | <0.5 | 11.00 | 24 | 4940 | 9.6 | <2 | 0.79 | <0.5 | 9 | 4 | 58 | 3.83 | 20 | 4.33 | 80 |
| N423760 | | 1.5 | 8.36 | 45 | 1070 | 6.9 | <2 | 2.79 | <0.5 | 22 | 22 | 152 | 5.48 | 30 | 4.48 | 90 |
| N423761 | | <0.5 | 7.23 | 10 | 1860 | 3.6 | <2 | 3.48 | <0.5 | 23 | 42 | 78 | 5.32 | 20 | 5.28 | 60 |
| N423762 | | <0.5 | 7.09 | 13 | 1350 | 2.8 | 2 | 5.17 | <0.5 | 24 | 101 | 111 | 5.78 | 20 | 3.20 | 80 |
| N423763 | | <0.5 | 6.77 | <5 | 1050 | 2.2 | <2 | 5.23 | <0.5 | 17 | 86 | 95 | 5.69 | 20 | 3.46 | 80 |
| N423764 | | <0.5 | 7.27 | 13 | 2290 | 3.0 | <2 | 5.50 | <0.5 | 27 | 90 | 98 | 5.79 | 20 | 4.71 | 70 |
| N423765 | | <0.5 | 8.82 | 62 | 1850 | 4.0 | <2 | 2.08 | <0.5 | 27 | 54 | 55 | 5.74 | 30 | 4.58 | 70 |
| N423766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N423767 | | <0.5 | 10.05 | 14 | 5580 | 6.5 | <2 | 1.42 | <0.5 | 9 | 5 | 83 | 3.54 | 20 | 5.33 | 80 |
| N423768 | | <0.5 | 9.26 | 16 | 7820 | 5.0 | <2 | 0.98 | <0.5 | 8 | 5 | 129 | 3.26 | 30 | 4.79 | 80 |
| N423769 | | <0.5 | 7.95 | 35 | 5640 | 5.9 | <2 | 3.28 | <0.5 | 19 | 18 | 127 | 5.83 | 30 | 3.84 | 80 |
| N423770 | | <0.5 | 8.63 | 7 | 2960 | 4.8 | <2 | 2.70 | <0.5 | 13 | 25 | 78 | 4.78 | 20 | 4.62 | 60 |
| N423771 | | <0.5 | 5.82 | 7 | 1200 | 2.5 | <2 | 7.45 | <0.5 | 22 | 60 | 58 | 4.83 | 20 | 3.05 | 50 |
| N423772 | | <0.5 | 7.47 | 27 | 1480 | 3.3 | <2 | 3.50 | 0.5 | 47 | 107 | 19 | 5.81 | 20 | 3.65 | 70 |
| N423773 | | <0.5 | 7.15 | 29 | 3700 | 6.0 | <2 | 6.57 | <0.5 | 22 | 14 | 125 | 5.35 | 20 | 4.56 | 100 |
| N423774 | | <0.5 | 7.46 | 20 | 5120 | 6.3 | <2 | 3.59 | <0.5 | 17 | 17 | 178 | 5.98 | 30 | 3.25 | 120 |
| N423775 | | <0.5 | 10.35 | 25 | 6220 | 8.5 | <2 | 1.13 | <0.5 | 9 | 4 | 105 | 3.61 | 30 | 4.23 | 80 |

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
| L174941 | | 2.01 | 1315 | <1 | 1.34 | 34 | 3090 | 5 | 0.03 | <5 | 20 | 1140 | 20 | 0.49 | <10 | <10 |
| L174942 | | 0.84 | 476 | <1 | 3.17 | 63 | 1220 | 7 | 0.03 | <5 | 9 | 454 | <20 | 0.25 | <10 | <10 |
| L174943 | | 1.75 | 1145 | <1 | 1.86 | 41 | 2620 | 7 | 0.01 | <5 | 33 | 864 | <20 | 0.57 | <10 | 10 |
| L174944 | | 1.43 | 1885 | <1 | 0.44 | 36 | 4400 | 18 | 0.06 | <5 | 18 | 1545 | 40 | 0.38 | <10 | <10 |
| L174945 | | 1.94 | 1800 | <1 | 0.85 | 93 | 280 | <2 | 0.01 | <5 | 22 | 111 | <20 | 0.39 | <10 | <10 |
| L174946 | | 4.06 | 1745 | <1 | 0.76 | 46 | 3290 | 5 | <0.01 | 7 | 39 | 1895 | 20 | 0.56 | <10 | <10 |
| L174947 | | 1.02 | 1540 | <1 | 1.78 | 5 | 2830 | 21 | 0.01 | <5 | 5 | 1135 | 20 | 0.33 | <10 | <10 |
| L174948 | | 0.67 | 841 | 1 | 0.85 | 6 | 3180 | 33 | 0.02 | <5 | 7 | 1360 | 30 | 0.37 | <10 | <10 |
| L174949 | | 0.86 | 1940 | <1 | 1.66 | 6 | 2520 | 21 | 0.17 | <5 | 8 | 906 | 60 | 0.57 | <10 | <10 |
| L174950 | | 1.00 | 486 | 2 | 2.24 | 114 | 710 | 5 | 0.79 | <5 | 12 | 207 | <20 | 0.33 | <10 | <10 |
| L174951 | | 1.37 | 718 | 1 | 3.27 | 67 | 640 | 23 | 0.06 | <5 | 9 | 1025 | <20 | 0.20 | <10 | <10 |
| L174952 | | 0.79 | 533 | <1 | 4.02 | 21 | 1000 | 3 | 0.06 | <5 | 7 | 437 | <20 | 0.19 | <10 | <10 |
| L174953 | | 0.63 | 1145 | <1 | 1.95 | 8 | 2950 | 8 | 0.03 | <5 | 6 | 1000 | 20 | 0.34 | <10 | <10 |
| L174954 | | 0.69 | 1330 | 2 | 3.77 | 5 | 2510 | 105 | 0.06 | <5 | 4 | 1115 | 20 | 0.23 | <10 | <10 |
| L174955 | | 0.74 | 411 | 4 | 2.59 | 63 | 510 | 6 | 0.38 | <5 | 10 | 224 | <20 | 0.24 | <10 | <10 |
| N423751 | | 0.49 | 678 | 2 | 1.19 | 95 | 830 | <2 | 0.02 | <5 | 17 | 415 | <20 | 0.12 | <10 | <10 |
| N423752 | | 1.89 | 1120 | <1 | 2.20 | 19 | 2370 | 18 | 0.27 | <5 | 15 | 1430 | 20 | 0.28 | <10 | <10 |
| N423753 | | 2.15 | 1465 | <1 | 3.13 | 27 | 2550 | 13 | 0.01 | <5 | 20 | 1270 | 20 | 0.37 | <10 | <10 |
| N423754 | | 0.74 | 996 | <1 | 2.72 | 13 | 2440 | 15 | 0.02 | <5 | 9 | 1080 | 30 | 0.29 | <10 | <10 |
| N423755 | | 0.87 | 1130 | <1 | 2.80 | 9 | 2300 | 11 | 0.05 | 5 | 7 | 1095 | 20 | 0.18 | <10 | <10 |
| N423756 | | 0.52 | 1200 | 1 | 2.63 | 5 | 1380 | 23 | 0.74 | 7 | 5 | 1470 | 40 | 0.29 | <10 | <10 |
| N423757 | | 2.53 | 1255 | <1 | 1.95 | 25 | 2670 | 20 | 0.05 | 6 | 22 | 1345 | 30 | 0.41 | <10 | <10 |
| N423758 | | 1.09 | 1280 | <1 | 3.37 | 9 | 2120 | 47 | 0.02 | <5 | 7 | 1395 | 40 | 0.15 | <10 | <10 |
| N423759 | | 0.42 | 638 | <1 | 1.44 | 2 | 960 | 13 | 0.05 | 12 | 4 | 513 | 30 | 0.38 | <10 | <10 |
| N423760 | | 0.87 | 1280 | 1 | 1.36 | 15 | 2790 | 20 | 3.05 | 67 | 13 | 1585 | 30 | 0.48 | <10 | <10 |
| N423761 | | 1.22 | 1360 | <1 | 2.32 | 18 | 2710 | 24 | 0.03 | 5 | 13 | 1140 | 20 | 0.24 | <10 | <10 |
| N423762 | | 2.89 | 1070 | 1 | 2.82 | 29 | 2650 | 16 | 0.01 | <5 | 20 | 2160 | 20 | 0.40 | <10 | <10 |
| N423763 | | 2.05 | 1310 | <1 | 2.97 | 21 | 2190 | 7 | 0.02 | 8 | 18 | 1200 | 20 | 0.33 | <10 | <10 |
| N423764 | | 2.41 | 1340 | 1 | 2.11 | 27 | 2760 | 15 | 0.03 | 9 | 21 | 1550 | 20 | 0.37 | <10 | <10 |
| N423765 | | 0.97 | 1015 | 2 | 2.57 | 24 | 2300 | 93 | 2.70 | 5 | 10 | 1180 | 30 | 0.20 | <10 | <10 |
| N423766 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N423767 | | 0.32 | 1025 | <1 | 3.23 | 3 | 930 | 10 | 0.01 | <5 | 3 | 562 | 30 | 0.30 | <10 | <10 |
| N423768 | | 0.27 | 678 | <1 | 3.85 | 4 | 900 | 78 | 0.20 | <5 | 3 | 1315 | 30 | 0.24 | <10 | <10 |
| N423769 | | 1.20 | 1295 | <1 | 3.39 | 18 | 2530 | 50 | 0.03 | 7 | 11 | 2260 | 30 | 0.53 | <10 | <10 |
| N423770 | | 1.01 | 1070 | <1 | 1.52 | 11 | 2590 | 18 | 0.02 | 5 | 7 | 1545 | 20 | 0.30 | <10 | <10 |
| N423771 | | 3.10 | 1525 | <1 | 1.97 | 20 | 2080 | 13 | 0.03 | 5 | 17 | 1775 | 20 | 0.23 | <10 | <10 |
| N423772 | | 1.58 | 1260 | <1 | 3.17 | 24 | 2510 | 12 | 0.16 | <5 | 20 | 1330 | 20 | 0.39 | <10 | <10 |
| N423773 | | 2.66 | 1950 | <1 | 0.54 | 14 | 2240 | 23 | 0.04 | <5 | 12 | 2260 | 30 | 0.31 | <10 | <10 |
| N423774 | | 0.67 | 2170 | <1 | 3.69 | 11 | 2340 | 29 | 0.41 | <5 | 8 | 1205 | 40 | 0.53 | <10 | <10 |
| N423775 | | 0.33 | 1080 | <1 | 1.74 | 2 | 740 | 34 | 0.09 | <5 | 3 | 690 | 30 | 0.26 | <10 | <10 |

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|
| L174941 | | 271 | <10 | 126 |
| L174942 | | 82 | <10 | 92 |
| L174943 | | 273 | <10 | 124 |
| L174944 | | 243 | <10 | 168 |
| L174945 | | 205 | <10 | 54 |
| L174946 | | 267 | <10 | 126 |
| L174947 | | 127 | <10 | 146 |
| L174948 | | 159 | <10 | 124 |
| L174949 | | 305 | <10 | 202 |
| L174950 | | 90 | <10 | 63 |
| L174951 | | 80 | <10 | 69 |
| L174952 | | 64 | <10 | 73 |
| L174953 | | 130 | <10 | 124 |
| L174954 | | 90 | <10 | 128 |
| L174955 | | 76 | <10 | 62 |
| N423751 | | 110 | <10 | 71 |
| N423752 | | 167 | 10 | 64 |
| N423753 | | 216 | <10 | 97 |
| N423754 | | 137 | <10 | 124 |
| N423755 | | 118 | <10 | 112 |
| N423756 | | 172 | <10 | 99 |
| N423757 | | 169 | 10 | 80 |
| N423758 | | 104 | <10 | 139 |
| N423759 | | 196 | <10 | 151 |
| N423760 | | 318 | 10 | 114 |
| N423761 | | 185 | <10 | 143 |
| N423762 | | 174 | 10 | 104 |
| N423763 | | 176 | 10 | 58 |
| N423764 | | 185 | <10 | 104 |
| N423765 | | 158 | <10 | 118 |
| N423766 | | NSS | NSS | NSS |
| N423767 | | 152 | <10 | 132 |
| N423768 | | 147 | <10 | 313 |
| N423769 | | 275 | <10 | 183 |
| N423770 | | 133 | <10 | 109 |
| N423771 | | 166 | 10 | 86 |
| N423772 | | 221 | <10 | 78 |
| N423773 | | 227 | <10 | 131 |
| N423774 | | 294 | 10 | 94 |
| N423775 | | 150 | <10 | 112 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N423776 | | <0.5 | 10.80 | 11 | 4080 | 5.7 | <2 | 0.47 | <0.5 | 6 | 3 | 12 | 2.51 | 20 | 5.30 | 80 |
| N423777 | | <0.5 | 6.83 | 12 | 2170 | 2.6 | <2 | 4.78 | <0.5 | 23 | 90 | 79 | 5.12 | 20 | 4.83 | 80 |
| N423778 | | <0.5 | 8.18 | 27 | 950 | 1.7 | <2 | 0.22 | <0.5 | 16 | 167 | 37 | 3.24 | 20 | 1.91 | 30 |
| N423779 | | <0.5 | 4.31 | 25 | 400 | 1.1 | <2 | 9.19 | 0.6 | 21 | 97 | 31 | 4.65 | 10 | 1.51 | 10 |
| N433701 | | <0.5 | 8.11 | 12 | 860 | 2.5 | <2 | 2.07 | <0.5 | 13 | 20 | 117 | 3.94 | 20 | 1.30 | 50 |
| N433702 | | <0.5 | 6.56 | 13 | 1660 | 1.4 | <2 | 2.88 | <0.5 | 22 | 216 | 34 | 4.63 | 20 | 2.14 | 40 |
| N433703 | | <0.5 | 6.77 | 9 | 860 | 3.3 | <2 | 4.78 | <0.5 | 20 | 88 | 59 | 5.59 | 20 | 2.65 | 80 |
| N433704 | | <0.5 | 7.70 | <5 | 2540 | 1.3 | <2 | 1.52 | <0.5 | 30 | 108 | 5 | 6.56 | 20 | 4.49 | 70 |
| N433705 | | <0.5 | 6.45 | 8 | 1810 | 3.0 | <2 | 5.09 | <0.5 | 27 | 84 | 110 | 5.28 | 20 | 4.66 | 60 |
| N433706 | | <0.5 | 6.61 | 9 | 2350 | 2.4 | <2 | 4.61 | <0.5 | 24 | 87 | 142 | 5.05 | 20 | 4.84 | 70 |
| N433707 | | <0.5 | 6.88 | 8 | 1440 | 2.5 | 2 | 5.16 | <0.5 | 26 | 84 | 90 | 5.54 | 20 | 3.84 | 70 |
| N433708 | | <0.5 | 8.20 | 5 | 2630 | 3.8 | <2 | 2.31 | <0.5 | 18 | 25 | 67 | 4.61 | 20 | 4.21 | 60 |
| N433709 | | <0.5 | 8.69 | <5 | 2870 | 3.4 | <2 | 1.60 | <0.5 | 17 | 26 | 92 | 4.73 | 20 | 3.90 | 60 |
| N433710 | | <0.5 | 8.35 | 10 | 2130 | 4.0 | <2 | 2.33 | <0.5 | 15 | 26 | 84 | 4.75 | 20 | 4.21 | 60 |
| N433711 | | <0.5 | 6.96 | 25 | 4240 | 4.7 | 2 | 3.31 | <0.5 | 16 | 14 | 156 | 5.28 | 20 | 2.57 | 70 |
| N433712 | | <0.5 | 7.47 | 17 | 5720 | 4.6 | <2 | 2.40 | <0.5 | 18 | 15 | 185 | 5.06 | 20 | 3.63 | 80 |
| N433713 | | <0.5 | 9.82 | 7 | 4190 | 5.9 | <2 | 0.77 | <0.5 | 9 | 1 | 12 | 2.95 | 20 | 5.15 | 60 |
| N433714 | | <0.5 | 8.92 | 7 | 2300 | 5.4 | <2 | 1.60 | <0.5 | 15 | 27 | 142 | 4.87 | 30 | 4.15 | 60 |
| N433715 | | <0.5 | 8.53 | 26 | 3150 | 4.2 | <2 | 2.17 | <0.5 | 19 | 24 | 75 | 4.88 | 20 | 5.16 | 60 |
| N433716 | | <0.5 | 6.80 | 7 | 1790 | 2.5 | 2 | 4.23 | <0.5 | 18 | 90 | 106 | 5.35 | 20 | 4.85 | 60 |
| N433717 | | <0.5 | 7.11 | 10 | 1660 | 2.5 | <2 | 4.58 | <0.5 | 31 | 95 | 87 | 5.62 | 20 | 4.15 | 80 |
| N433718 | | <0.5 | 7.62 | 7 | 1890 | 4.7 | <2 | 4.72 | <0.5 | 32 | 104 | 166 | 6.02 | 20 | 5.15 | 70 |
| N433719 | | <0.5 | 7.34 | 13 | 1780 | 3.9 | <2 | 3.68 | <0.5 | 14 | 23 | 49 | 4.44 | 20 | 4.80 | 50 |
| N433720 | | <0.5 | 9.42 | 13 | 3090 | 4.8 | <2 | 1.20 | <0.5 | 18 | 26 | 55 | 4.90 | 20 | 4.29 | 70 |
| N433721 | | <0.5 | 7.44 | 9 | 2310 | 3.7 | 2 | 2.60 | <0.5 | 16 | 24 | 102 | 4.31 | 20 | 5.17 | 50 |
| N433722 | | <0.5 | 8.90 | 55 | 4490 | 4.6 | <2 | 0.62 | <0.5 | 8 | 2 | 89 | 2.88 | 20 | 4.08 | 60 |
| N433723 | | <0.5 | 7.50 | 21 | 4510 | 4.6 | <2 | 3.12 | <0.5 | 19 | 15 | 136 | 5.28 | 20 | 4.38 | 70 |
| N433724 | | <0.5 | 9.35 | 13 | 2610 | 5.8 | <2 | 1.68 | <0.5 | 13 | 23 | 198 | 4.45 | 30 | 5.25 | 60 |
| N433725 | | <0.5 | 7.18 | <5 | 1890 | 4.0 | <2 | 3.33 | <0.5 | 15 | 21 | 124 | 5.52 | 20 | 4.83 | 50 |
| N433726 | | <0.5 | 7.01 | 16 | 2260 | 1.8 | <2 | 4.09 | <0.5 | 20 | 80 | 146 | 5.09 | 20 | 4.18 | 70 |
| N433727 | | <0.5 | 6.78 | 5 | 1740 | 1.8 | <2 | 4.97 | <0.5 | 13 | 74 | 181 | 4.39 | 20 | 4.51 | 70 |
| N433728 | | <0.5 | 6.17 | <5 | 820 | 2.9 | 3 | 0.52 | <0.5 | 3 | 28 | 3 | 0.79 | 20 | 1.74 | 20 |
| N433729 | | <0.5 | 7.50 | 8 | 2210 | 3.0 | <2 | 1.82 | <0.5 | 23 | 147 | 77 | 6.55 | 20 | 4.12 | 60 |
| N433730 | | <0.5 | 6.97 | 8 | 2370 | 2.3 | <2 | 4.77 | <0.5 | 24 | 76 | 36 | 5.67 | 10 | 2.19 | 60 |
| N433731 | | <0.5 | 7.52 | 29 | 3860 | 4.9 | <2 | 3.50 | <0.5 | 17 | 15 | 165 | 5.36 | 20 | 3.23 | 80 |
| N433732 | | <0.5 | 8.57 | 16 | 5120 | 8.7 | <2 | 2.39 | <0.5 | 8 | 3 | 82 | 3.33 | 30 | 5.24 | 40 |
| N433733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433734 | | <0.5 | 7.50 | 22 | 5500 | 16.8 | <2 | 4.65 | <0.5 | 18 | 15 | 146 | 5.95 | 30 | 5.27 | 100 |
| N433735 | | <0.5 | 7.18 | 22 | 3440 | 11.1 | <2 | 4.23 | <0.5 | 38 | 7 | 59 | 7.44 | 30 | 4.38 | 120 |
| N433736 | | <0.5 | 8.96 | 19 | 5050 | 6.9 | <2 | 1.94 | <0.5 | 8 | 3 | 70 | 3.57 | 20 | 4.60 | 50 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N423776 | | 0.23 | 409 | <1 | 2.94 | 3 | 970 | 9 | 0.01 | <5 | 2 | 1010 | 30 | 0.19 | <10 | <10 |
| N423777 | | 2.16 | 1190 | <1 | 1.84 | 23 | 2380 | 15 | 0.04 | <5 | 19 | 1315 | 20 | 0.33 | 10 | <10 |
| N423778 | | 0.15 | 314 | 1 | 2.08 | 62 | 890 | 5 | 0.06 | <5 | 12 | 420 | <20 | 0.17 | <10 | <10 |
| N423779 | | 4.62 | 1205 | <1 | 0.55 | 103 | 720 | 14 | 0.02 | <5 | 12 | 1100 | <20 | 0.12 | <10 | <10 |
| N433701 | | 0.61 | 1550 | <1 | 5.93 | 8 | 1580 | 15 | 0.01 | <5 | 5 | 1035 | 30 | 0.18 | <10 | <10 |
| N433702 | | 2.39 | 764 | <1 | 3.51 | 58 | 1820 | 28 | 0.02 | 12 | 17 | 829 | <20 | 0.24 | <10 | <10 |
| N433703 | | 2.44 | 1185 | <1 | 3.04 | 21 | 1850 | 9 | 0.01 | <5 | 19 | 1365 | 20 | 0.32 | <10 | <10 |
| N433704 | | 2.01 | 770 | <1 | 2.08 | 26 | 2600 | <2 | 0.03 | 7 | 19 | 551 | 20 | 0.36 | 10 | <10 |
| N433705 | | 2.15 | 1050 | <1 | 1.22 | 21 | 2530 | 11 | 0.05 | 5 | 19 | 1220 | 20 | 0.33 | <10 | 10 |
| N433706 | | 2.11 | 1110 | <1 | 2.41 | 24 | 2210 | 19 | 0.03 | <5 | 17 | 1070 | 20 | 0.37 | <10 | <10 |
| N433707 | | 2.20 | 1100 | <1 | 2.78 | 25 | 2710 | 49 | 0.02 | 7 | 19 | 1390 | 20 | 0.29 | <10 | <10 |
| N433708 | | 1.10 | 1120 | <1 | 3.28 | 10 | 2190 | 17 | 0.04 | <5 | 7 | 1480 | 20 | 0.22 | <10 | <10 |
| N433709 | | 0.73 | 1000 | <1 | 1.85 | 15 | 2480 | 27 | 0.01 | 5 | 8 | 1045 | 20 | 0.21 | <10 | <10 |
| N433710 | | 0.93 | 1045 | <1 | 3.46 | 11 | 2100 | 32 | 0.01 | 9 | 7 | 1125 | 20 | 0.18 | <10 | <10 |
| N433711 | | 1.03 | 1420 | <1 | 3.94 | 10 | 2150 | 26 | 0.13 | 11 | 10 | 1975 | 20 | 0.40 | <10 | <10 |
| N433712 | | 0.69 | 1515 | <1 | 3.28 | 11 | 2390 | 40 | 0.14 | 13 | 10 | 1820 | 30 | 0.35 | <10 | <10 |
| N433713 | | 0.32 | 639 | <1 | 3.12 | <1 | 360 | 36 | 0.15 | <5 | 3 | 581 | 30 | 0.24 | <10 | <10 |
| N433714 | | 0.85 | 993 | <1 | 1.75 | 9 | 2140 | 15 | 0.02 | 10 | 8 | 1135 | 20 | 0.24 | <10 | <10 |
| N433715 | | 1.02 | 857 | <1 | 2.46 | 11 | 2490 | 15 | 0.02 | 5 | 8 | 1175 | 20 | 0.31 | <10 | <10 |
| N433716 | | 1.79 | 1055 | <1 | 2.29 | 21 | 2490 | 8 | 0.03 | 13 | 15 | 1300 | 20 | 0.35 | <10 | <10 |
| N433717 | | 2.03 | 1200 | <1 | 2.63 | 22 | 2460 | 13 | 0.07 | 12 | 20 | 1165 | 20 | 0.36 | <10 | <10 |
| N433718 | | 2.38 | 1065 | <1 | 0.05 | 30 | 3100 | 11 | 0.05 | 10 | 22 | 1395 | 20 | 0.44 | <10 | <10 |
| N433719 | | 1.52 | 1080 | <1 | 2.63 | 10 | 1940 | 20 | 0.01 | 7 | 6 | 1715 | 20 | 0.24 | <10 | <10 |
| N433720 | | 0.69 | 831 | <1 | 1.40 | 11 | 2450 | 24 | 0.01 | 10 | 8 | 1000 | 20 | 0.23 | <10 | <10 |
| N433721 | | 0.98 | 933 | <1 | 2.47 | 9 | 2210 | 35 | 0.03 | 8 | 7 | 1480 | 20 | 0.26 | <10 | <10 |
| N433722 | | 0.27 | 1260 | <1 | 4.49 | 4 | 780 | 30 | 0.89 | 6 | 2 | 603 | 20 | 0.15 | <10 | <10 |
| N433723 | | 1.01 | 1410 | <1 | 3.20 | 12 | 2120 | 23 | 0.08 | 13 | 10 | 1570 | 30 | 0.41 | <10 | <10 |
| N433724 | | 0.78 | 784 | <1 | 2.56 | 10 | 2990 | 31 | 0.05 | 10 | 7 | 1365 | 20 | 0.24 | <10 | <10 |
| N433725 | | 1.58 | 1550 | <1 | 1.64 | 15 | 2250 | 18 | 0.03 | <5 | 6 | 1190 | 20 | 0.26 | <10 | <10 |
| N433726 | | 1.62 | 971 | <1 | 3.02 | 19 | 2390 | 9 | 0.03 | 17 | 17 | 1510 | 20 | 0.23 | <10 | <10 |
| N433727 | | 1.92 | 1065 | <1 | 2.48 | 22 | 2060 | 10 | 0.02 | 5 | 16 | 1140 | 20 | 0.25 | <10 | <10 |
| N433728 | | 0.24 | 153 | <1 | 2.12 | 12 | 100 | 7 | <0.01 | <5 | 2 | 217 | <20 | 0.07 | <10 | <10 |
| N433729 | | 1.94 | 741 | <1 | 3.00 | 28 | 2250 | 8 | 0.01 | 8 | 13 | 763 | 20 | 0.49 | <10 | <10 |
| N433730 | | 2.08 | 1285 | <1 | 3.75 | 29 | 1880 | 10 | 0.05 | 7 | 23 | 1990 | 20 | 0.31 | <10 | <10 |
| N433731 | | 1.14 | 1545 | <1 | 3.70 | 11 | 2320 | 193 | 0.07 | 6 | 10 | 1765 | 30 | 0.45 | <10 | <10 |
| N433732 | | 0.37 | 941 | <1 | 2.72 | 2 | 1870 | 47 | 0.04 | 8 | 3 | 926 | 20 | 0.26 | <10 | <10 |
| N433733 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N433734 | | 0.78 | 3000 | <1 | 1.53 | 12 | 4040 | 39 | 0.13 | <5 | 10 | 1645 | 30 | 0.49 | <10 | <10 |
| N433735 | | 1.12 | 3170 | 2 | 0.35 | 10 | 3330 | 29 | 0.95 | 7 | 15 | 1260 | 30 | 0.59 | <10 | <10 |
| N433736 | | 0.37 | 1345 | <1 | 1.59 | <1 | 960 | 19 | 0.04 | 8 | 3 | 863 | 20 | 0.25 | <10 | <10 |

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

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|
| N423776 | | 85 | <10 | 48 |
| N423777 | | 169 | 10 | 90 |
| N423778 | | 89 | <10 | 42 |
| N423779 | | 147 | <10 | 45 |
| N433701 | | 75 | <10 | 60 |
| N433702 | | 134 | <10 | 150 |
| N433703 | | 186 | <10 | 103 |
| N433704 | | 202 | 10 | 121 |
| N433705 | | 162 | <10 | 80 |
| N433706 | | 170 | 10 | 70 |
| N433707 | | 168 | <10 | 184 |
| N433708 | | 125 | <10 | 118 |
| N433709 | | 131 | <10 | 138 |
| N433710 | | 126 | <10 | 91 |
| N433711 | | 213 | <10 | 135 |
| N433712 | | 218 | <10 | 149 |
| N433713 | | 92 | <10 | 42 |
| N433714 | | 144 | <10 | 128 |
| N433715 | | 146 | <10 | 94 |
| N433716 | | 165 | 10 | 54 |
| N433717 | | 174 | <10 | 77 |
| N433718 | | 211 | <10 | 104 |
| N433719 | | 115 | <10 | 81 |
| N433720 | | 130 | <10 | 118 |
| N433721 | | 117 | <10 | 115 |
| N433722 | | 136 | <10 | 142 |
| N433723 | | 221 | <10 | 96 |
| N433724 | | 126 | <10 | 73 |
| N433725 | | 119 | <10 | 155 |
| N433726 | | 138 | 10 | 55 |
| N433727 | | 139 | 10 | 70 |
| N433728 | | 20 | <10 | 22 |
| N433729 | | 236 | 10 | 105 |
| N433730 | | 161 | <10 | 106 |
| N433731 | | 224 | <10 | 126 |
| N433732 | | 189 | <10 | 229 |
| N433733 | | NSS | NSS | NSS |
| N433734 | | 319 | <10 | 233 |
| N433735 | | 376 | <10 | 141 |
| N433736 | | 172 | <10 | 114 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N433737 | | <0.5 | 10.10 | 13 | 3410 | 7.6 | 3 | 0.84 | <0.5 | 10 | 13 | 33 | 3.52 | 30 | 4.74 | 70 |
| N433738 | | <0.5 | 5.21 | <5 | 1480 | 2.0 | <2 | 7.73 | <0.5 | 23 | 122 | 58 | 5.30 | 10 | 1.51 | 60 |
| N433739 | | <0.5 | 6.82 | 12 | 2160 | 2.5 | <2 | 4.68 | <0.5 | 20 | 86 | 137 | 5.10 | 10 | 5.06 | 60 |
| N433740 | | <0.5 | 6.69 | <5 | 1030 | 2.3 | 2 | 4.62 | <0.5 | 14 | 10 | 59 | 3.72 | 10 | 2.71 | 70 |
| N459311 | | <0.5 | 6.80 | <5 | 110 | <0.5 | <2 | 4.56 | 0.7 | 50 | 19 | 82 | 12.55 | 20 | 0.12 | <10 |
| N459312 | | <0.5 | 7.50 | 5 | 20 | <0.5 | <2 | 8.13 | <0.5 | 42 | 199 | 129 | 7.55 | 20 | 0.02 | <10 |
| N459313 | | <0.5 | 6.92 | <5 | 30 | 0.5 | <2 | 8.45 | 0.5 | 42 | 156 | 114 | 9.45 | 20 | 0.03 | <10 |
| N459314 | | <0.5 | 7.38 | <5 | 160 | <0.5 | <2 | 2.52 | <0.5 | 23 | 46 | 31 | 4.19 | 20 | 0.45 | <10 |
| N459315 | | <0.5 | 8.94 | 8 | 40 | <0.5 | <2 | 7.84 | 0.8 | 49 | 264 | 119 | 8.55 | 20 | 0.03 | <10 |
| N459316 | | <0.5 | 8.45 | 8 | 100 | 0.6 | <2 | 5.59 | 0.6 | 43 | 120 | 106 | 8.47 | 20 | 0.18 | <10 |
| N459317 | | <0.5 | 7.97 | <5 | 70 | <0.5 | <2 | 7.13 | 0.7 | 48 | 129 | 110 | 9.46 | 20 | 0.10 | <10 |
| N459318 | | <0.5 | 7.36 | <5 | 80 | <0.5 | <2 | 7.20 | 0.7 | 38 | 183 | 107 | 7.61 | 20 | 0.06 | <10 |
| N459319 | | <0.5 | 8.15 | 8 | 90 | <0.5 | <2 | 7.33 | 0.5 | 47 | 206 | 118 | 7.44 | 20 | 0.16 | <10 |
| N459320 | | <0.5 | 8.37 | 6 | 120 | <0.5 | <2 | 6.80 | <0.5 | 43 | 207 | 120 | 6.73 | 20 | 0.20 | <10 |
| N459321 | | <0.5 | 7.15 | <5 | 260 | <0.5 | <2 | 6.68 | <0.5 | 42 | 122 | 99 | 8.49 | 20 | 0.59 | <10 |
| N459322 | | <0.5 | 7.00 | <5 | 140 | <0.5 | <2 | 4.44 | 0.6 | 47 | 67 | 83 | 11.10 | 20 | 0.45 | <10 |
| N459323 | | <0.5 | 9.25 | <5 | 80 | <0.5 | <2 | 6.85 | <0.5 | 37 | 97 | 71 | 3.61 | 20 | 0.24 | <10 |
| N459324 | | <0.5 | 6.55 | 5 | 30 | 0.5 | <2 | 6.20 | <0.5 | 37 | 139 | 98 | 6.55 | 20 | 0.03 | <10 |
| N459325 | | <0.5 | 7.43 | <5 | 110 | <0.5 | <2 | 5.45 | <0.5 | 43 | 172 | 95 | 7.39 | 20 | 0.15 | <10 |
| N459326 | | <0.5 | 7.19 | <5 | 50 | <0.5 | <2 | 5.17 | <0.5 | 42 | 172 | 85 | 7.15 | 20 | 0.07 | <10 |
| N459327 | | <0.5 | 7.33 | 5 | 70 | 0.5 | <2 | 7.52 | <0.5 | 45 | 178 | 113 | 7.44 | 20 | 0.06 | <10 |
| N459328 | | <0.5 | 7.32 | 5 | 30 | 0.5 | <2 | 4.81 | <0.5 | 49 | 139 | 88 | 8.68 | 20 | 0.03 | <10 |
| N459329 | | <0.5 | 6.23 | <5 | 30 | <0.5 | 3 | 6.43 | 0.5 | 27 | 73 | 97 | 10.35 | 20 | 0.03 | <10 |
| N459330 | | <0.5 | 7.87 | 7 | 40 | <0.5 | <2 | 7.00 | 0.5 | 46 | 214 | 136 | 10.30 | 20 | 0.07 | <10 |
| N459331 | | <0.5 | 7.10 | <5 | 70 | <0.5 | <2 | 6.27 | 0.6 | 52 | 160 | 407 | 7.86 | 20 | 0.11 | <10 |
| N459332 | | <0.5 | 8.36 | <5 | 50 | <0.5 | <2 | 9.89 | 0.5 | 41 | 95 | 78 | 6.43 | 20 | 0.07 | <10 |
| N459333 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459334 | | <0.5 | 7.42 | 5 | 620 | <0.5 | <2 | 5.09 | <0.5 | 47 | 166 | 123 | 7.11 | 20 | 0.77 | <10 |
| N459335 | | <0.5 | 7.21 | 9 | 60 | <0.5 | <2 | 7.75 | 0.9 | 38 | 191 | 191 | 7.63 | 20 | 0.08 | <10 |
| N459336 | | <0.5 | 7.07 | 7 | 70 | 0.5 | <2 | 5.61 | <0.5 | 42 | 146 | 85 | 8.72 | 20 | 0.12 | <10 |
| N459337 | | <0.5 | 7.43 | 5 | 40 | <0.5 | <2 | 6.23 | 0.7 | 48 | 191 | 111 | 10.15 | 20 | 0.08 | <10 |
| N459338 | | <0.5 | 6.60 | 6 | 30 | <0.5 | <2 | 6.58 | 0.6 | 49 | 19 | 181 | 9.31 | 20 | 0.05 | <10 |
| N459339 | | <0.5 | 8.07 | 8 | 30 | <0.5 | <2 | 5.62 | 0.5 | 50 | 239 | 116 | 8.26 | 20 | 0.05 | <10 |
| N459340 | | <0.5 | 8.42 | 6 | 190 | <0.5 | <2 | 6.74 | <0.5 | 39 | 274 | 98 | 6.62 | 20 | 0.44 | <10 |
| N459341 | | <0.5 | 7.67 | <5 | 60 | <0.5 | <2 | 7.12 | <0.5 | 47 | 211 | 99 | 6.72 | 20 | 0.05 | <10 |
| N459342 | | <0.5 | 8.11 | 14 | 50 | <0.5 | <2 | 5.65 | <0.5 | 50 | 258 | 114 | 8.10 | 20 | 0.03 | <10 |
| N459343 | | <0.5 | 7.07 | <5 | 60 | <0.5 | <2 | 7.03 | 0.5 | 49 | 109 | 111 | 8.53 | 20 | 0.06 | <10 |
| N459344 | | <0.5 | 7.90 | <5 | 170 | <0.5 | <2 | 5.89 | <0.5 | 46 | 218 | 94 | 7.59 | 20 | 0.18 | <10 |
| N459345 | | <0.5 | 7.56 | 5 | 70 | <0.5 | <2 | 6.43 | 0.6 | 44 | 100 | 147 | 8.01 | 20 | 0.10 | <10 |
| N459346 | | <0.5 | 7.16 | <5 | 40 | <0.5 | <2 | 6.64 | 0.6 | 42 | 169 | 110 | 6.88 | 20 | 0.06 | <10 |

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

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
| N433737 | | 0.47 | 801 | <1 | 0.50 | 5 | 1280 | 46 | 0.01 | 8 | 5 | 1465 | 30 | 0.30 | <10 | <10 |
| N433738 | | 3.44 | 1130 | <1 | 2.55 | 30 | 2510 | 9 | 0.05 | 10 | 26 | 1180 | <20 | 0.32 | <10 | <10 |
| N433739 | | 1.89 | 1225 | <1 | 2.27 | 19 | 2480 | 17 | 0.55 | 5 | 15 | 1135 | 20 | 0.37 | <10 | <10 |
| N433740 | | 1.66 | 1285 | <1 | 3.16 | 6 | 1770 | 19 | 0.04 | 5 | 5 | 1830 | 30 | 0.15 | <10 | <10 |
| N459311 | | 2.31 | 1785 | <1 | 1.05 | 51 | 1180 | 3 | 0.20 | 7 | 46 | 212 | <20 | 1.62 | <10 | <10 |
| N459312 | | 2.28 | 1660 | <1 | 0.72 | 88 | 340 | 2 | 0.15 | 6 | 37 | 135 | <20 | 0.64 | <10 | <10 |
| N459313 | | 3.75 | 2370 | <1 | 0.84 | 86 | 390 | <2 | 0.07 | 5 | 38 | 109 | <20 | 0.65 | 10 | <10 |
| N459314 | | 2.88 | 907 | <1 | 3.09 | 85 | 460 | <2 | <0.01 | <5 | 15 | 103 | <20 | 0.39 | <10 | <10 |
| N459315 | | 3.29 | 1980 | <1 | 1.17 | 99 | 210 | <2 | 0.07 | <5 | 45 | 174 | <20 | 0.49 | <10 | <10 |
| N459316 | | 3.03 | 1635 | <1 | 2.15 | 67 | 460 | <2 | 0.10 | <5 | 40 | 144 | <20 | 0.80 | <10 | <10 |
| N459317 | | 3.81 | 1460 | <1 | 1.20 | 103 | 460 | <2 | 0.07 | <5 | 42 | 169 | <20 | 0.82 | <10 | <10 |
| N459318 | | 2.77 | 1350 | <1 | 1.90 | 101 | 340 | <2 | 0.07 | <5 | 37 | 70 | <20 | 0.66 | <10 | <10 |
| N459319 | | 2.19 | 1585 | <1 | 1.76 | 107 | 280 | <2 | 0.05 | <5 | 41 | 184 | <20 | 0.68 | <10 | <10 |
| N459320 | | 2.39 | 1210 | <1 | 2.07 | 106 | 320 | <2 | 0.02 | <5 | 43 | 127 | <20 | 0.70 | <10 | <10 |
| N459321 | | 2.93 | 1560 | <1 | 1.43 | 69 | 470 | <2 | 0.10 | <5 | 41 | 39 | <20 | 0.82 | <10 | <10 |
| N459322 | | 3.57 | 1345 | <1 | 2.95 | 53 | 720 | <2 | 0.06 | <5 | 44 | 84 | <20 | 1.18 | <10 | <10 |
| N459323 | | 0.76 | 609 | 1 | 3.55 | 118 | 480 | <2 | 0.02 | <5 | 25 | 127 | <20 | 0.58 | <10 | <10 |
| N459324 | | 3.63 | 1385 | <1 | 2.26 | 79 | 380 | 2 | 0.07 | <5 | 34 | 139 | <20 | 0.57 | <10 | <10 |
| N459325 | | 4.01 | 1330 | <1 | 2.05 | 94 | 390 | <2 | 0.05 | <5 | 40 | 106 | <20 | 0.68 | <10 | <10 |
| N459326 | | 3.94 | 1245 | <1 | 2.31 | 89 | 400 | <2 | 0.09 | <5 | 39 | 98 | <20 | 0.65 | <10 | <10 |
| N459327 | | 4.07 | 1415 | <1 | 2.03 | 97 | 410 | <2 | 0.09 | <5 | 41 | 120 | <20 | 0.70 | <10 | <10 |
| N459328 | | 4.18 | 1545 | <1 | 1.66 | 84 | 440 | <2 | 0.14 | <5 | 39 | 107 | <20 | 0.69 | <10 | <10 |
| N459329 | | 2.52 | 1990 | <1 | 0.91 | 41 | 450 | <2 | 0.35 | <5 | 36 | 156 | <20 | 0.71 | <10 | <10 |
| N459330 | | 2.66 | 2030 | <1 | 1.29 | 110 | 490 | <2 | 0.06 | <5 | 45 | 151 | <20 | 0.87 | <10 | <10 |
| N459331 | | 3.80 | 1580 | <1 | 2.08 | 97 | 440 | <2 | 0.13 | <5 | 37 | 100 | <20 | 0.63 | <10 | <10 |
| N459332 | | 1.27 | 1265 | <1 | 1.40 | 86 | 460 | <2 | 0.05 | <5 | 31 | 47 | <20 | 0.67 | <10 | <10 |
| N459333 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459334 | | 4.29 | 1620 | <1 | 1.84 | 97 | 390 | <2 | 0.14 | <5 | 40 | 130 | <20 | 0.67 | <10 | <10 |
| N459335 | | 4.60 | 1620 | <1 | 2.22 | 85 | 200 | <2 | 0.15 | <5 | 36 | 335 | <20 | 0.40 | <10 | <10 |
| N459336 | | 4.03 | 1420 | <1 | 1.64 | 80 | 480 | <2 | 0.07 | <5 | 38 | 146 | <20 | 0.75 | <10 | <10 |
| N459337 | | 3.79 | 1655 | <1 | 1.70 | 84 | 700 | <2 | 0.12 | <5 | 42 | 234 | <20 | 1.00 | <10 | <10 |
| N459338 | | 3.95 | 1425 | <1 | 1.36 | 40 | 280 | <2 | 0.26 | <5 | 49 | 186 | <20 | 0.61 | <10 | <10 |
| N459339 | | 4.84 | 1725 | <1 | 2.03 | 114 | 230 | 2 | 0.03 | <5 | 43 | 96 | <20 | 0.48 | <10 | <10 |
| N459340 | | 4.72 | 1235 | <1 | 1.49 | 66 | 170 | <2 | 0.02 | <5 | 34 | 125 | <20 | 0.36 | <10 | <10 |
| N459341 | | 3.98 | 1670 | <1 | 2.89 | 95 | 210 | 2 | 0.14 | <5 | 38 | 69 | <20 | 0.43 | <10 | <10 |
| N459342 | | 2.79 | 1865 | <1 | 2.11 | 112 | 210 | <2 | 0.08 | <5 | 43 | 57 | <20 | 0.47 | <10 | <10 |
| N459343 | | 4.03 | 1605 | <1 | 2.52 | 62 | 320 | <2 | 0.57 | <5 | 40 | 102 | <20 | 0.59 | <10 | <10 |
| N459344 | | 4.44 | 1875 | <1 | 2.51 | 107 | 200 | 2 | 0.02 | <5 | 40 | 88 | <20 | 0.44 | <10 | <10 |
| N459345 | | 4.90 | 1260 | <1 | 1.73 | 73 | 210 | 2 | 0.08 | <5 | 47 | 141 | <20 | 0.47 | <10 | <10 |
| N459346 | | 3.99 | 1380 | <1 | 1.96 | 97 | 370 | <2 | 0.06 | <5 | 39 | 125 | <20 | 0.63 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|
| N433737 | | 107 | <10 | 109 |
| N433738 | | 185 | <10 | 74 |
| N433739 | | 149 | 10 | 47 |
| N433740 | | 85 | <10 | 82 |
| N459311 | | 531 | <10 | 154 |
| N459312 | | 326 | <10 | 82 |
| N459313 | | 309 | <10 | 74 |
| N459314 | | 153 | <10 | 60 |
| N459315 | | 309 | <10 | 103 |
| N459316 | | 362 | <10 | 84 |
| N459317 | | 362 | <10 | 91 |
| N459318 | | 322 | <10 | 79 |
| N459319 | | 343 | <10 | 72 |
| N459320 | | 350 | <10 | 70 |
| N459321 | | 362 | <10 | 84 |
| N459322 | | 457 | <10 | 114 |
| N459323 | | 264 | <10 | 64 |
| N459324 | | 278 | <10 | 77 |
| N459325 | | 324 | <10 | 70 |
| N459326 | | 310 | <10 | 66 |
| N459327 | | 334 | <10 | 87 |
| N459328 | | 328 | <10 | 91 |
| N459329 | | 338 | <10 | 75 |
| N459330 | | 392 | <10 | 95 |
| N459331 | | 317 | <10 | 90 |
| N459332 | | 342 | <10 | 71 |
| N459333 | | NSS | NSS | NSS |
| N459334 | | 320 | <10 | 96 |
| N459335 | | 240 | <10 | 120 |
| N459336 | | 339 | <10 | 74 |
| N459337 | | 390 | 10 | 95 |
| N459338 | | 353 | <10 | 75 |
| N459339 | | 278 | <10 | 92 |
| N459340 | | 222 | <10 | 63 |
| N459341 | | 256 | <10 | 65 |
| N459342 | | 278 | <10 | 75 |
| N459343 | | 329 | <10 | 87 |
| N459344 | | 264 | <10 | 75 |
| N459345 | | 302 | <10 | 72 |
| N459346 | | 307 | <10 | 79 |

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


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
| N459347 | | <0.5 | 7.19 | <5 | 40 | <0.5 | <2 | 7.03 | <0.5 | 41 | 179 | 92 | 6.84 | 20 | 0.07 | <10 |
| N459348 | | <0.5 | 7.29 | <5 | 100 | <0.5 | <2 | 4.67 | <0.5 | 40 | 57 | 206 | 9.35 | 20 | 0.84 | <10 |
| N459349 | | <0.5 | 7.09 | <5 | 170 | <0.5 | <2 | 6.84 | 0.6 | 46 | 175 | 118 | 8.59 | 20 | 0.31 | <10 |
| N459350 | | <0.5 | 9.15 | 53 | 520 | <0.5 | <2 | 3.59 | 0.5 | 61 | 184 | 147 | 7.60 | 20 | 1.04 | <10 |
| N459351 | | <0.5 | 6.20 | 5 | 90 | <0.5 | <2 | 3.06 | <0.5 | 31 | 17 | 36 | 10.30 | 20 | 0.18 | <10 |
| N459352 | | <0.5 | 6.88 | <5 | 80 | <0.5 | <2 | 4.55 | <0.5 | 52 | 11 | 164 | 10.10 | 20 | 0.10 | <10 |
| N459353 | | <0.5 | 6.53 | <5 | 400 | <0.5 | <2 | 5.92 | <0.5 | 41 | 232 | 94 | 6.68 | 20 | 1.27 | <10 |
| N459354 | | <0.5 | 6.24 | 8 | 90 | <0.5 | <2 | 5.22 | 0.7 | 52 | 57 | 63 | 12.55 | 20 | 0.14 | <10 |
| N459355 | | <0.5 | 8.17 | 19 | 50 | <0.5 | <2 | 5.97 | <0.5 | 50 | 107 | 90 | 8.50 | 20 | 0.04 | <10 |
| N459356 | | <0.5 | 7.09 | 7 | 60 | <0.5 | <2 | 2.86 | <0.5 | 44 | 54 | 50 | 10.75 | 20 | 0.27 | <10 |
| N459357 | | <0.5 | 6.66 | <5 | 80 | <0.5 | <2 | 4.05 | <0.5 | 28 | 4 | 22 | 8.32 | 20 | 0.12 | <10 |
| N459358 | | <0.5 | 6.85 | <5 | 140 | <0.5 | <2 | 2.65 | <0.5 | 40 | 90 | 86 | 9.96 | 20 | 0.35 | <10 |
| N459359 | | <0.5 | 7.20 | 5 | 130 | <0.5 | <2 | 3.98 | <0.5 | 47 | 121 | 110 | 9.84 | 20 | 0.45 | <10 |
| N459360 | | <0.5 | 6.30 | <5 | 40 | 0.5 | <2 | 5.15 | 0.8 | 38 | 2 | 36 | 11.25 | 20 | 0.06 | <10 |
| N459361 | | <0.5 | 6.78 | 5 | 90 | <0.5 | 2 | 4.39 | <0.5 | 40 | 2 | 29 | 10.60 | 20 | 0.12 | <10 |

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

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| 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 |
| N459347 | | 3.39 | 1345 | <1 | 1.38 | 88 | 360 | <2 | 0.07 | <5 | 38 | 165 | <20 | 0.64 | <10 | <10 |
| N459348 | | 3.51 | 1425 | <1 | 2.86 | 28 | 600 | <2 | 0.05 | <5 | 45 | 105 | <20 | 0.91 | <10 | <10 |
| N459349 | | 3.92 | 1330 | <1 | 1.39 | 95 | 400 | <2 | 0.12 | <5 | 39 | 129 | <20 | 0.68 | <10 | <10 |
| N459350 | | 1.96 | 1290 | <1 | 4.26 | 154 | 280 | <2 | 0.19 | <5 | 41 | 129 | <20 | 0.76 | <10 | <10 |
| N459351 | | 2.16 | 1700 | <1 | 1.97 | 12 | 1940 | <2 | 0.17 | <5 | 36 | 35 | <20 | 1.27 | <10 | <10 |
| N459352 | | 3.97 | 1475 | <1 | 1.63 | 36 | 320 | 2 | 0.14 | <5 | 51 | 84 | <20 | 0.72 | <10 | <10 |
| N459353 | | 3.93 | 1170 | <1 | 0.07 | 110 | 200 | <2 | 0.03 | <5 | 32 | 16 | <20 | 0.43 | 10 | <10 |
| N459354 | | 3.13 | 1930 | <1 | 1.18 | 64 | 1190 | 7 | 0.21 | 5 | 47 | 232 | <20 | 1.64 | <10 | <10 |
| N459355 | | 4.11 | 1385 | <1 | 2.17 | 141 | 350 | <2 | 0.09 | <5 | 31 | 194 | <20 | 0.69 | <10 | <10 |
| N459356 | | 2.78 | 1095 | <1 | 2.47 | 45 | 810 | <2 | 0.08 | <5 | 45 | 70 | <20 | 1.15 | <10 | <10 |
| N459357 | | 1.92 | 1530 | <1 | 2.44 | <1 | 1630 | 3 | 0.20 | <5 | 36 | 199 | <20 | 1.23 | <10 | <10 |
| N459358 | | 3.67 | 1380 | <1 | 1.89 | 56 | 700 | <2 | 0.09 | <5 | 42 | 41 | <20 | 1.11 | 10 | <10 |
| N459359 | | 2.47 | 1435 | <1 | 1.99 | 70 | 590 | <2 | 0.14 | <5 | 43 | 29 | <20 | 1.08 | <10 | <10 |
| N459360 | | 2.77 | 1380 | <1 | 1.17 | 12 | 770 | 3 | 0.21 | <5 | 41 | 180 | <20 | 1.30 | <10 | <10 |
| N459361 | | 2.47 | 1610 | <1 | 2.27 | 5 | 1620 | <2 | 0.24 | <5 | 42 | 109 | <20 | 1.60 | <10 | <10 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

| 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 |
|---|---|---|---|---|
| N459347 | | 309 | <10 | 73 |
| N459348 | | 430 | <10 | 90 |
| N459349 | | 323 | <10 | 75 |
| N459350 | | 336 | <10 | 89 |
| N459351 | | 178 | <10 | 148 |
| N459352 | | 396 | <10 | 107 |
| N459353 | | 244 | <10 | 67 |
| N459354 | | 547 | <10 | 159 |
| N459355 | | 296 | <10 | 82 |
| N459356 | | 400 | 10 | 94 |
| N459357 | | 180 | <10 | 114 |
| N459358 | | 384 | <10 | 105 |
| N459359 | | 428 | <10 | 103 |
| N459360 | | 399 | <10 | 118 |
| N459361 | | 313 | <10 | 124 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042826

## 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