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 SD14042942

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 187 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 SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N459431 | | <0.5 | 6.60 | 6 | 330 | 1.9 | <2 | 3.92 | <0.5 | 37 | 346 | 129 | 5.69 | 20 | 1.21 | 30 |
| N459432 | | <0.5 | 7.36 | <5 | 370 | 1.2 | <2 | 2.59 | <0.5 | 19 | 107 | 31 | 2.96 | 20 | 0.88 | 30 |
| N459433 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459434 | | <0.5 | 7.21 | 16 | 1360 | 1.2 | <2 | 2.18 | <0.5 | 14 | 96 | 19 | 2.88 | 20 | 1.75 | 20 |
| N459435 | | <0.5 | 5.48 | 5 | 290 | 0.8 | <2 | 4.95 | <0.5 | 33 | 265 | 43 | 5.39 | 20 | 1.94 | 30 |
| N459436 | | <0.5 | 7.67 | <5 | 1660 | 1.7 | <2 | 2.56 | <0.5 | 28 | 8 | 80 | 7.42 | 20 | 2.94 | 30 |
| N459437 | | <0.5 | 7.13 | 10 | 1160 | 1.6 | <2 | 0.38 | <0.5 | 6 | 47 | 9 | 1.61 | 20 | 2.40 | 30 |
| N459438 | | <0.5 | 7.06 | <5 | 1090 | 1.1 | <2 | 2.77 | <0.5 | 15 | 96 | 22 | 2.81 | 20 | 1.85 | 20 |
| N459439 | | <0.5 | 7.40 | 5 | 1400 | 1.2 | <2 | 2.23 | <0.5 | 13 | 87 | 23 | 2.76 | 20 | 2.69 | 20 |
| N459440 | | <0.5 | 7.62 | <5 | 1600 | 1.5 | <2 | 1.45 | <0.5 | 7 | 49 | 19 | 1.65 | 20 | 2.47 | 40 |
| N459441 | | <0.5 | 8.32 | 10 | 1490 | 2.2 | <2 | 0.29 | <0.5 | 4 | 17 | 8 | 1.44 | 20 | 1.81 | 70 |
| N459442 | | <0.5 | 7.36 | <5 | 1080 | 1.1 | <2 | 2.65 | <0.5 | 15 | 98 | 45 | 2.72 | 20 | 1.01 | 20 |
| N459443 | | <0.5 | 6.98 | 7 | 1390 | 1.6 | <2 | 2.18 | <0.5 | 18 | 154 | 11 | 3.25 | 20 | 1.80 | 30 |
| N459444 | | <0.5 | 7.30 | <5 | 1110 | 1.3 | <2 | 1.99 | <0.5 | 17 | 64 | 25 | 3.22 | 20 | 2.05 | 20 |
| N459445 | | <0.5 | 7.62 | 14 | 1030 | 1.4 | <2 | 1.77 | <0.5 | 14 | 58 | 5 | 2.92 | 20 | 2.26 | 30 |
| N459446 | | <0.5 | 7.43 | <5 | 1290 | 1.5 | <2 | 1.98 | <0.5 | 29 | 91 | 7 | 3.42 | 20 | 2.58 | 20 |
| N459447 | | <0.5 | 7.70 | 7 | 800 | 1.1 | <2 | 2.07 | <0.5 | 18 | 65 | 1 | 3.61 | 20 | 1.77 | 20 |
| N459448 | | <0.5 | 7.20 | 6 | 1080 | 1.4 | <2 | 2.39 | <0.5 | 14 | 54 | 14 | 2.92 | 20 | 1.92 | 20 |
| N459449 | | <0.5 | 6.85 | 5 | 2810 | 2.2 | <2 | 1.88 | <0.5 | 13 | 38 | 119 | 3.09 | 20 | 4.02 | 40 |
| N459450 | | <0.5 | 6.63 | <5 | 160 | 1.0 | <2 | 4.39 | <0.5 | 34 | 254 | 65 | 5.95 | 20 | 1.02 | 10 |
| N459451 | | <0.5 | 6.02 | 11 | 260 | 2.0 | <2 | 3.59 | <0.5 | 30 | 26 | 142 | 10.30 | 20 | 0.91 | 10 |
| N459452 | | <0.5 | 7.20 | 9 | 1270 | 1.4 | <2 | 1.88 | <0.5 | 16 | 160 | 10 | 3.17 | 20 | 1.66 | 20 |
| N459453 | | <0.5 | 6.99 | <5 | 1020 | 1.7 | <2 | 1.76 | <0.5 | 11 | 100 | 10 | 2.45 | 20 | 2.84 | 30 |
| N459454 | | <0.5 | 7.25 | <5 | 1530 | 1.8 | <2 | 2.10 | <0.5 | 13 | 108 | 29 | 2.54 | 20 | 2.60 | 30 |
| N459455 | | <0.5 | 6.99 | <5 | 1220 | 1.8 | <2 | 1.66 | <0.5 | 12 | 99 | 69 | 2.27 | 20 | 2.92 | 30 |
| N459456 | | <0.5 | 7.16 | <5 | 1340 | 2.3 | <2 | 1.22 | <0.5 | 11 | 86 | 15 | 2.45 | 20 | 3.35 | 40 |
| N459457 | | <0.5 | 7.37 | <5 | 1270 | 2.1 | <2 | 1.38 | <0.5 | 9 | 81 | 82 | 2.15 | 20 | 3.28 | 40 |
| N459458 | | <0.5 | 7.93 | 5 | 1500 | 1.7 | <2 | 1.68 | <0.5 | 12 | 97 | 23 | 2.59 | 20 | 3.08 | 40 |
| N459459 | | <0.5 | 7.19 | <5 | 1370 | 1.6 | <2 | 1.56 | <0.5 | 12 | 115 | 11 | 2.62 | 20 | 2.67 | 30 |
| N459460 | | <0.5 | 5.57 | <5 | 100 | <0.5 | <2 | 5.86 | <0.5 | 68 | 976 | 48 | 8.64 | 10 | 0.44 | <10 |
| N459461 | | <0.5 | 5.40 | <5 | 90 | <0.5 | <2 | 5.26 | <0.5 | 58 | 525 | 52 | 7.90 | 10 | 0.32 | <10 |
| N459462 | | <0.5 | 6.05 | 9 | 260 | 0.6 | <2 | 4.89 | <0.5 | 54 | 553 | 94 | 6.73 | 10 | 0.86 | 10 |
| N459463 | | <0.5 | 7.96 | <5 | 1540 | 1.4 | <2 | 5.35 | <0.5 | 21 | 78 | 8 | 4.77 | 20 | 2.16 | 30 |
| N459464 | | <0.5 | 6.75 | 13 | 70 | <0.5 | <2 | 5.07 | <0.5 | 57 | 966 | 63 | 8.43 | 10 | 0.26 | <10 |
| N459465 | | <0.5 | 7.00 | <5 | 30 | <0.5 | <2 | 5.11 | <0.5 | 50 | 93 | 31 | 10.20 | 20 | 0.16 | <10 |
| N459466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459467 | | <0.5 | 6.74 | <5 | 40 | <0.5 | <2 | 5.72 | <0.5 | 62 | 983 | 80 | 8.44 | 20 | 0.17 | <10 |
| N459468 | | <0.5 | 7.08 | <5 | 50 | <0.5 | <2 | 6.26 | <0.5 | 48 | 309 | 51 | 8.39 | 20 | 0.24 | <10 |
| N459469 | | <0.5 | 5.75 | 6 | 80 | <0.5 | <2 | 6.87 | <0.5 | 69 | 897 | 44 | 8.82 | 10 | 0.34 | <10 |
| I275651 | | <0.5 | 6.71 | 6 | 2110 | 1.0 | <2 | 2.02 | <0.5 | 9 | 41 | 11 | 2.02 | 20 | 2.33 | 30 |

***** 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 SD14042942

| 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 |
| N459431 | | 5.09 | 795 | <1 | 2.57 | 115 | 1580 | 17 | 0.21 | <5 | 22 | 559 | <20 | 0.47 | 10 | <10 |
| N459432 | | 2.24 | 469 | 1 | 4.43 | 70 | 950 | 14 | 0.26 | <5 | 6 | 592 | <20 | 0.28 | <10 | <10 |
| N459433 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459434 | | 1.44 | 406 | <1 | 3.71 | 45 | 880 | 13 | 0.09 | <5 | 6 | 757 | <20 | 0.26 | <10 | <10 |
| N459435 | | 3.66 | 989 | <1 | 2.34 | 85 | 1890 | 13 | 2.60 | <5 | 20 | 917 | <20 | 0.22 | 10 | <10 |
| N459436 | | 2.34 | 960 | <1 | 2.68 | 3 | 3640 | 27 | 0.04 | <5 | 22 | 855 | <20 | 0.52 | <10 | <10 |
| N459437 | | 0.36 | 246 | <1 | 3.47 | 16 | 420 | 23 | 0.10 | <5 | 4 | 444 | <20 | 0.13 | <10 | <10 |
| N459438 | | 1.55 | 377 | <1 | 3.58 | 43 | 860 | 12 | 0.20 | <5 | 6 | 655 | <20 | 0.20 | <10 | <10 |
| N459439 | | 1.49 | 356 | <1 | 3.26 | 40 | 840 | 10 | 0.05 | <5 | 6 | 726 | <20 | 0.30 | <10 | <10 |
| N459440 | | 0.58 | 410 | 1 | 3.98 | 20 | 470 | 13 | 0.22 | <5 | 4 | 617 | <20 | 0.12 | 10 | <10 |
| N459441 | | 0.22 | 195 | <1 | 4.55 | 7 | 670 | 13 | 0.47 | <5 | 2 | 322 | 20 | 0.09 | <10 | <10 |
| N459442 | | 1.52 | 512 | <1 | 4.91 | 45 | 890 | 7 | 0.53 | <5 | 6 | 728 | <20 | 0.24 | <10 | <10 |
| N459443 | | 2.23 | 568 | <1 | 3.26 | 88 | 850 | 17 | 0.08 | <5 | 10 | 720 | <20 | 0.21 | <10 | <10 |
| N459444 | | 1.80 | 530 | <1 | 3.65 | 43 | 820 | 8 | 0.10 | <5 | 10 | 549 | <20 | 0.28 | <10 | <10 |
| N459445 | | 1.24 | 502 | <1 | 3.27 | 35 | 830 | 10 | 0.16 | <5 | 10 | 433 | <20 | 0.21 | <10 | <10 |
| N459446 | | 2.28 | 587 | <1 | 3.42 | 64 | 840 | 8 | 0.04 | <5 | 12 | 435 | <20 | 0.29 | <10 | <10 |
| N459447 | | 1.86 | 498 | <1 | 3.62 | 43 | 850 | 14 | 0.30 | <5 | 12 | 453 | <20 | 0.26 | <10 | <10 |
| N459448 | | 1.22 | 525 | <1 | 3.59 | 33 | 910 | 6 | 0.25 | <5 | 8 | 613 | <20 | 0.18 | <10 | <10 |
| N459449 | | 1.17 | 537 | 1 | 2.55 | 20 | 1150 | 22 | 0.43 | <5 | 8 | 641 | <20 | 0.16 | <10 | <10 |
| N459450 | | 4.23 | 1005 | <1 | 2.58 | 128 | 800 | 13 | 0.14 | <5 | 28 | 261 | <20 | 0.37 | <10 | <10 |
| N459451 | | 1.54 | 908 | <1 | 3.02 | 29 | 1340 | 6 | 0.59 | <5 | 31 | 230 | <20 | 0.63 | <10 | <10 |
| N459452 | | 2.37 | 561 | <1 | 3.41 | 86 | 870 | 10 | 0.07 | <5 | 10 | 485 | <20 | 0.23 | 10 | <10 |
| N459453 | | 1.38 | 576 | <1 | 3.19 | 52 | 620 | 7 | 0.09 | <5 | 7 | 367 | <20 | 0.14 | <10 | <10 |
| N459454 | | 1.57 | 412 | <1 | 3.15 | 58 | 650 | 16 | 0.31 | <5 | 7 | 664 | <20 | 0.19 | 10 | <10 |
| N459455 | | 1.21 | 473 | <1 | 3.17 | 52 | 580 | 17 | 0.17 | <5 | 6 | 432 | <20 | 0.15 | <10 | <10 |
| N459456 | | 1.21 | 404 | <1 | 2.97 | 44 | 710 | 16 | 0.27 | <5 | 6 | 629 | <20 | 0.15 | <10 | <10 |
| N459457 | | 0.95 | 432 | <1 | 3.20 | 40 | 580 | 16 | 0.17 | <5 | 5 | 508 | <20 | 0.14 | <10 | <10 |
| N459458 | | 1.26 | 588 | <1 | 3.87 | 53 | 740 | 9 | 0.45 | <5 | 7 | 647 | <20 | 0.11 | <10 | <10 |
| N459459 | | 1.61 | 480 | <1 | 3.07 | 59 | 710 | 17 | 0.02 | <5 | 7 | 676 | <20 | 0.18 | <10 | <10 |
| N459460 | | 8.18 | 1565 | <1 | 1.20 | 322 | 180 | <2 | <0.01 | <5 | 35 | 122 | <20 | 0.34 | 10 | <10 |
| N459461 | | 7.98 | 1505 | <1 | 1.49 | 183 | 170 | 4 | <0.01 | <5 | 39 | 55 | <20 | 0.32 | <10 | <10 |
| N459462 | | 6.33 | 1150 | <1 | 2.45 | 240 | 740 | 3 | 0.15 | <5 | 32 | 125 | <20 | 0.43 | <10 | <10 |
| N459463 | | 2.70 | 777 | <1 | 3.45 | 61 | 1600 | 7 | 0.21 | <5 | 15 | 1285 | <20 | 0.46 | <10 | <10 |
| N459464 | | 6.35 | 1370 | <1 | 1.35 | 278 | 230 | <2 | 0.01 | <5 | 36 | 131 | <20 | 0.42 | <10 | <10 |
| N459465 | | 4.38 | 1620 | <1 | 2.84 | 64 | 260 | <2 | 0.10 | <5 | 44 | 108 | <20 | 0.53 | <10 | <10 |
| N459466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N459467 | | 6.15 | 1390 | <1 | 2.05 | 269 | 240 | <2 | 0.14 | <5 | 39 | 102 | <20 | 0.41 | <10 | <10 |
| N459468 | | 4.86 | 1270 | <1 | 2.48 | 108 | 210 | <2 | 0.06 | <5 | 40 | 113 | <20 | 0.43 | <10 | <10 |
| N459469 | | 7.58 | 1510 | <1 | 0.97 | 261 | 180 | <2 | 0.05 | <5 | 38 | 118 | <20 | 0.36 | <10 | <10 |
| I275651 | | 0.98 | 427 | <1 | 4.05 | 22 | 930 | 6 | 0.18 | <5 | 7 | 780 | <20 | 0.18 | <10 | <10 |

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**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|
| N459431 | | 182 | <10 | 99 |
| N459432 | | 79 | <10 | 71 |
| N459433 | | NSS | NSS | NSS |
| N459434 | | 72 | <10 | 89 |
| N459435 | | 140 | <10 | 85 |
| N459436 | | 256 | <10 | 112 |
| N459437 | | 42 | <10 | 32 |
| N459438 | | 73 | <10 | 73 |
| N459439 | | 74 | <10 | 70 |
| N459440 | | 43 | 10 | 17 |
| N459441 | | 35 | <10 | 13 |
| N459442 | | 72 | 10 | 58 |
| N459443 | | 85 | <10 | 80 |
| N459444 | | 90 | <10 | 73 |
| N459445 | | 86 | 10 | 63 |
| N459446 | | 94 | <10 | 64 |
| N459447 | | 101 | <10 | 76 |
| N459448 | | 84 | <10 | 78 |
| N459449 | | 71 | <10 | 64 |
| N459450 | | 185 | 10 | 106 |
| N459451 | | 180 | 10 | 107 |
| N459452 | | 84 | <10 | 83 |
| N459453 | | 61 | <10 | 52 |
| N459454 | | 63 | <10 | 68 |
| N459455 | | 54 | <10 | 51 |
| N459456 | | 55 | <10 | 59 |
| N459457 | | 44 | <10 | 46 |
| N459458 | | 56 | 10 | 49 |
| N459459 | | 63 | <10 | 65 |
| N459460 | | 221 | <10 | 92 |
| N459461 | | 225 | <10 | 88 |
| N459462 | | 212 | <10 | 91 |
| N459463 | | 121 | <10 | 68 |
| N459464 | | 259 | <10 | 105 |
| N459465 | | 304 | <10 | 105 |
| N459466 | | NSS | NSS | NSS |
| N459467 | | 259 | <10 | 78 |
| N459468 | | 253 | <10 | 72 |
| N459469 | | 222 | <10 | 99 |
| I275651 | | 31 | 10 | 18 |

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# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275652 | | <0.5 | 7.83 | <5 | 240 | 0.6 | <2 | 0.99 | <0.5 | 8 | 25 | 4 | 1.67 | 20 | 0.14 | 30 |
| I275653 | | <0.5 | 6.54 | 5 | 1110 | 1.2 | <2 | 1.72 | <0.5 | 12 | 90 | 7 | 2.21 | 20 | 1.85 | 20 |
| I275654 | | <0.5 | 7.13 | <5 | 1350 | 1.4 | <2 | 2.61 | <0.5 | 14 | 107 | 16 | 2.93 | 20 | 2.60 | 20 |
| I275655 | | <0.5 | 6.70 | 9 | 590 | 1.0 | <2 | 0.80 | <0.5 | 7 | 34 | 23 | 1.50 | 20 | 0.55 | 30 |
| I275656 | | <0.5 | 6.52 | 7 | 1160 | 1.0 | <2 | 4.64 | <0.5 | 34 | 331 | 38 | 6.22 | 20 | 1.38 | 30 |
| I275657 | | <0.5 | 7.35 | <5 | 1430 | 1.1 | <2 | 2.60 | <0.5 | 16 | 91 | 43 | 3.07 | 20 | 2.24 | 20 |
| I275658 | | <0.5 | 8.33 | <5 | 1720 | 1.3 | <2 | 1.52 | <0.5 | 17 | 101 | 16 | 3.30 | 30 | 3.30 | 30 |
| I275659 | | <0.5 | 8.04 | <5 | 1040 | 1.4 | <2 | 1.82 | <0.5 | 16 | 106 | 9 | 3.22 | 30 | 2.24 | 30 |
| I275660 | | <0.5 | 7.58 | <5 | 1320 | 1.1 | <2 | 2.31 | <0.5 | 16 | 100 | 10 | 3.10 | 20 | 2.14 | 20 |
| I275661 | | <0.5 | 7.06 | <5 | 540 | 0.8 | <2 | 0.34 | <0.5 | 6 | 62 | 5 | 1.22 | 10 | 1.59 | 30 |
| I275662 | | <0.5 | 6.24 | <5 | 1710 | 2.4 | <2 | 5.55 | <0.5 | 38 | 382 | 41 | 5.79 | 20 | 3.15 | 30 |
| I275663 | | <0.5 | 7.12 | 8 | 790 | 1.2 | <2 | 2.02 | <0.5 | 15 | 84 | 24 | 2.92 | 20 | 1.11 | 20 |
| I275664 | | <0.5 | 3.10 | 6 | 3830 | 0.6 | <2 | 7.00 | <0.5 | 35 | 346 | 7 | 5.10 | 10 | 0.50 | 10 |
| I275665 | | <0.5 | 7.72 | <5 | 1180 | 1.5 | <2 | 3.59 | <0.5 | 23 | 129 | 46 | 4.53 | 20 | 1.98 | 20 |
| I275666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275667 | | <0.5 | 8.11 | 6 | 750 | 1.5 | <2 | 1.48 | <0.5 | 16 | 63 | 5 | 3.16 | 20 | 1.96 | 30 |
| I275668 | | <0.5 | 6.84 | <5 | 1330 | 1.4 | <2 | 2.55 | <0.5 | 18 | 139 | 4 | 3.36 | 20 | 2.46 | 20 |
| I275669 | | <0.5 | 7.11 | <5 | 870 | 3.1 | <2 | 4.77 | <0.5 | 33 | 239 | 77 | 5.41 | 20 | 2.19 | 70 |
| I275670 | | <0.5 | 6.85 | 11 | 1140 | 1.2 | <2 | 2.18 | <0.5 | 16 | 65 | 14 | 3.06 | 20 | 1.31 | 20 |
| I275671 | | <0.5 | 6.69 | 5 | 920 | 1.0 | <2 | 2.67 | <0.5 | 18 | 127 | 46 | 3.34 | 20 | 1.59 | 20 |
| I275672 | | <0.5 | 7.49 | <5 | 1070 | 1.3 | <2 | 2.11 | <0.5 | 13 | 42 | 35 | 3.06 | 20 | 1.84 | 20 |
| I275673 | | <0.5 | 7.57 | 8 | 800 | 2.3 | <2 | 0.93 | <0.5 | 11 | 19 | 47 | 2.03 | 20 | 1.49 | 40 |
| I275674 | | <0.5 | 7.53 | <5 | 280 | 1.1 | <2 | 2.51 | <0.5 | 23 | 69 | 37 | 3.77 | 20 | 1.26 | 30 |
| I275675 | | <0.5 | 7.88 | <5 | 1340 | 1.4 | <2 | 2.55 | <0.5 | 17 | 80 | 17 | 3.59 | 20 | 2.28 | 20 |
| I275676 | | <0.5 | 7.26 | 5 | 1180 | 1.1 | <2 | 2.56 | <0.5 | 16 | 60 | 6 | 3.42 | 20 | 2.67 | 20 |
| I275677 | | <0.5 | 7.76 | <5 | 1500 | 2.9 | <2 | 1.26 | <0.5 | 10 | 53 | 98 | 2.63 | 20 | 4.17 | 50 |
| I275678 | | <0.5 | 7.03 | 6 | 1240 | 2.0 | <2 | 1.47 | <0.5 | 11 | 76 | 13 | 2.14 | 20 | 2.55 | 40 |
| I275679 | | <0.5 | 7.21 | 5 | 880 | 1.7 | <2 | 4.21 | <0.5 | 21 | 177 | 4 | 3.84 | 20 | 1.84 | 30 |
| I275680 | | <0.5 | 7.20 | 18 | 2480 | 1.9 | <2 | 2.29 | <0.5 | 22 | 59 | 27 | 4.39 | 20 | 4.16 | 30 |
| I275681 | | <0.5 | 8.76 | <5 | 2490 | 3.1 | <2 | 1.19 | <0.5 | 7 | 22 | 50 | 1.95 | 20 | 3.22 | 60 |
| I275682 | | <0.5 | 7.51 | <5 | 200 | <0.5 | <2 | 4.53 | <0.5 | 43 | 290 | 46 | 7.41 | 10 | 0.41 | <10 |
| I275683 | | <0.5 | 7.51 | <5 | 130 | <0.5 | <2 | 3.33 | <0.5 | 64 | 278 | 90 | 7.60 | 20 | 0.27 | <10 |
| I275684 | | <0.5 | 6.77 | <5 | 210 | 0.7 | <2 | 3.64 | <0.5 | 34 | 189 | 88 | 6.05 | 10 | 1.26 | 10 |
| I275685 | | <0.5 | 6.89 | <5 | 280 | <0.5 | <2 | 8.36 | <0.5 | 39 | 213 | 52 | 7.89 | 20 | 0.94 | <10 |
| I275686 | | <0.5 | 7.52 | <5 | 150 | <0.5 | <2 | 7.53 | <0.5 | 41 | 234 | 82 | 7.21 | 10 | 0.43 | <10 |
| I275687 | | <0.5 | 6.53 | <5 | 220 | <0.5 | <2 | 7.14 | <0.5 | 46 | 310 | 84 | 9.58 | 20 | 0.36 | <10 |
| I275688 | | <0.5 | 5.52 | <5 | 110 | <0.5 | <2 | 6.46 | <0.5 | 66 | 976 | 23 | 8.33 | 10 | 0.51 | <10 |
| I275689 | | <0.5 | 6.25 | <5 | 630 | 1.0 | <2 | 5.37 | <0.5 | 33 | 371 | 62 | 6.00 | 10 | 1.23 | 40 |
| I275690 | | <0.5 | 5.28 | <5 | 80 | <0.5 | <2 | 6.06 | <0.5 | 67 | 1195 | 31 | 8.31 | 10 | 0.34 | <10 |
| I275691 | | <0.5 | 3.26 | 8 | 20 | <0.5 | <2 | 5.69 | <0.5 | 70 | 1840 | 27 | 7.15 | 10 | 0.01 | <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 SD14042942

| 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 |
| I275652 | | 0.36 | 341 | <1 | 6.73 | 13 | 550 | 6 | 0.95 | <5 | 2 | 454 | <20 | 0.02 | <10 | <10 |
| I275653 | | 0.98 | 429 | <1 | 3.25 | 38 | 1070 | <2 | 0.12 | <5 | 6 | 539 | <20 | 0.22 | <10 | <10 |
| I275654 | | 1.48 | 488 | <1 | 3.33 | 45 | 860 | 3 | 0.18 | <5 | 7 | 714 | <20 | 0.26 | <10 | <10 |
| I275655 | | 0.33 | 310 | <1 | 5.19 | 13 | 390 | 14 | 0.53 | <5 | 3 | 407 | <20 | 0.06 | <10 | <10 |
| I275656 | | 4.44 | 1060 | 2 | 2.50 | 102 | 1600 | 3 | 0.57 | <5 | 23 | 972 | <20 | 0.29 | <10 | 10 |
| I275657 | | 1.60 | 412 | <1 | 3.98 | 41 | 890 | 10 | 0.20 | <5 | 7 | 920 | <20 | 0.31 | <10 | <10 |
| I275658 | | 1.68 | 379 | <1 | 3.85 | 47 | 960 | 13 | 0.06 | <5 | 8 | 688 | <20 | 0.27 | <10 | <10 |
| I275659 | | 1.73 | 325 | <1 | 4.00 | 44 | 980 | 2 | 0.09 | <5 | 7 | 438 | <20 | 0.28 | <10 | <10 |
| I275660 | | 1.71 | 393 | <1 | 4.03 | 45 | 870 | 10 | 0.21 | <5 | 7 | 659 | <20 | 0.27 | <10 | <10 |
| I275661 | | 0.73 | 162 | 1 | 4.65 | 23 | 70 | 2 | 0.01 | <5 | 2 | 235 | <20 | 0.08 | <10 | <10 |
| I275662 | | 5.48 | 1210 | <1 | 2.23 | 154 | 2070 | 5 | 0.01 | <5 | 21 | 772 | <20 | 0.40 | <10 | <10 |
| I275663 | | 1.26 | 457 | <1 | 4.59 | 44 | 590 | 4 | 1.06 | <5 | 6 | 528 | <20 | 0.11 | <10 | <10 |
| I275664 | | 6.10 | 1890 | <1 | 0.79 | 303 | 450 | <2 | 0.15 | <5 | 13 | 640 | <20 | 0.11 | <10 | <10 |
| I275665 | | 2.81 | 797 | <1 | 4.26 | 59 | 1080 | 5 | 0.09 | <5 | 14 | 524 | <20 | 0.36 | <10 | <10 |
| I275666 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275667 | | 1.19 | 477 | <1 | 4.49 | 40 | 860 | 4 | 0.67 | <5 | 10 | 304 | <20 | 0.18 | <10 | <10 |
| I275668 | | 2.13 | 519 | <1 | 3.26 | 71 | 860 | 14 | 0.25 | <5 | 10 | 619 | <20 | 0.22 | <10 | <10 |
| I275669 | | 4.40 | 1020 | 2 | 4.14 | 114 | 3100 | 22 | 0.17 | <5 | 19 | 838 | 20 | 0.40 | <10 | <10 |
| I275670 | | 1.27 | 529 | 16 | 4.19 | 34 | 890 | 10 | 0.76 | <5 | 8 | 532 | <20 | 0.14 | <10 | <10 |
| I275671 | | 1.96 | 623 | 1 | 3.80 | 61 | 800 | 4 | 0.13 | <5 | 10 | 615 | <20 | 0.18 | <10 | <10 |
| I275672 | | 1.41 | 401 | <1 | 3.76 | 26 | 860 | 10 | 0.05 | <5 | 8 | 606 | <20 | 0.22 | <10 | <10 |
| I275673 | | 0.32 | 369 | <1 | 5.07 | 8 | 500 | 13 | 0.64 | <5 | 3 | 481 | <20 | 0.12 | <10 | <10 |
| I275674 | | 1.70 | 768 | 1 | 5.43 | 47 | 1820 | 7 | 0.81 | <5 | 12 | 547 | <20 | 0.23 | <10 | <10 |
| I275675 | | 2.00 | 600 | <1 | 4.05 | 50 | 850 | 6 | 0.06 | <5 | 11 | 690 | <20 | 0.30 | <10 | <10 |
| I275676 | | 1.78 | 555 | <1 | 3.73 | 41 | 800 | 25 | 0.07 | <5 | 10 | 549 | <20 | 0.29 | <10 | <10 |
| I275677 | | 0.72 | 503 | <1 | 3.66 | 26 | 790 | 15 | 0.45 | <5 | 5 | 802 | 20 | 0.14 | <10 | <10 |
| I275678 | | 0.92 | 482 | <1 | 3.85 | 39 | 530 | 9 | 0.51 | <5 | 5 | 569 | <20 | 0.10 | <10 | <10 |
| I275679 | | 2.77 | 743 | <1 | 3.31 | 102 | 1000 | 11 | 0.18 | <5 | 13 | 710 | <20 | 0.26 | <10 | <10 |
| I275680 | | 2.12 | 789 | <1 | 2.84 | 30 | 1460 | 18 | 0.29 | <5 | 11 | 676 | <20 | 0.29 | <10 | <10 |
| I275681 | | 0.65 | 327 | <1 | 4.95 | 11 | 510 | 16 | 0.03 | <5 | 3 | 786 | 20 | 0.17 | <10 | <10 |
| I275682 | | 3.86 | 1960 | <1 | 2.15 | 106 | 520 | 11 | 0.06 | 6 | 42 | 298 | <20 | 0.63 | <10 | <10 |
| I275683 | | 3.73 | 2540 | <1 | 3.27 | 166 | 310 | 8 | 0.17 | 8 | 34 | 230 | <20 | 0.50 | <10 | <10 |
| I275684 | | 2.77 | 1045 | 1 | 3.77 | 100 | 350 | 8 | 0.33 | <5 | 27 | 201 | <20 | 0.16 | <10 | <10 |
| I275685 | | 4.10 | 1305 | <1 | 1.16 | 109 | 290 | 7 | 0.21 | 6 | 37 | 282 | <20 | 0.49 | <10 | <10 |
| I275686 | | 3.72 | 1330 | <1 | 1.90 | 130 | 270 | 6 | 0.11 | 6 | 36 | 321 | <20 | 0.47 | <10 | <10 |
| I275687 | | 3.98 | 2380 | 1 | 0.75 | 130 | 440 | 4 | 0.69 | 7 | 37 | 312 | <20 | 0.55 | <10 | <10 |
| I275688 | | 7.79 | 1545 | <1 | 0.95 | 335 | 170 | 5 | 0.01 | <5 | 34 | 158 | <20 | 0.34 | <10 | <10 |
| I275689 | | 5.78 | 1025 | <1 | 2.07 | 134 | 2830 | 10 | 0.25 | 6 | 23 | 826 | 20 | 0.45 | <10 | <10 |
| I275690 | | 8.34 | 1460 | <1 | 1.03 | 381 | 160 | <2 | 0.04 | 6 | 33 | 123 | <20 | 0.33 | <10 | <10 |
| I275691 | | 13.15 | 1095 | <1 | 0.10 | 1195 | 130 | 5 | 0.10 | 5 | 22 | 50 | <20 | 0.21 | <10 | <10 |

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

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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 SD14042942

| 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 |
|---|---|---|---|---|
| I275652 | | 4 | <10 | 10 |
| I275653 | | 55 | <10 | 35 |
| I275654 | | 71 | 10 | 72 |
| I275655 | | 17 | 10 | 14 |
| I275656 | | 169 | 20 | 152 |
| I275657 | | 78 | <10 | 73 |
| I275658 | | 91 | 10 | 80 |
| I275659 | | 83 | 10 | 90 |
| I275660 | | 74 | <10 | 61 |
| I275661 | | 26 | 10 | 24 |
| I275662 | | 172 | <10 | 112 |
| I275663 | | 54 | 10 | 34 |
| I275664 | | 88 | <10 | 80 |
| I275665 | | 119 | <10 | 77 |
| I275666 | | NSS | NSS | NSS |
| I275667 | | 104 | 10 | 54 |
| I275668 | | 85 | 10 | 74 |
| I275669 | | 151 | <10 | 98 |
| I275670 | | 67 | 10 | 50 |
| I275671 | | 75 | 20 | 71 |
| I275672 | | 80 | 10 | 67 |
| I275673 | | 41 | 10 | 16 |
| I275674 | | 97 | 10 | 51 |
| I275675 | | 91 | <10 | 77 |
| I275676 | | 91 | <10 | 62 |
| I275677 | | 48 | 10 | 50 |
| I275678 | | 50 | <10 | 37 |
| I275679 | | 103 | 10 | 91 |
| I275680 | | 102 | 10 | 88 |
| I275681 | | 57 | <10 | 29 |
| I275682 | | 274 | <10 | 112 |
| I275683 | | 260 | <10 | 105 |
| I275684 | | 212 | <10 | 78 |
| I275685 | | 272 | <10 | 105 |
| I275686 | | 254 | <10 | 86 |
| I275687 | | 234 | <10 | 113 |
| I275688 | | 220 | <10 | 92 |
| I275689 | | 211 | <10 | 63 |
| I275690 | | 217 | <10 | 90 |
| I275691 | | 136 | <10 | 75 |

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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275692 | | <0.5 | 6.78 | <5 | 70 | <0.5 | <2 | 6.13 | <0.5 | 45 | 275 | 80 | 8.71 | 20 | 0.16 | <10 |
| I275693 | | <0.5 | 3.88 | 9 | 40 | <0.5 | <2 | 5.26 | <0.5 | 64 | 1540 | 41 | 7.24 | 10 | 0.01 | <10 |
| I275694 | | <0.5 | 5.43 | <5 | 1380 | 1.2 | <2 | 6.34 | <0.5 | 36 | 485 | 26 | 6.17 | 10 | 1.27 | 30 |
| I275695 | | <0.5 | 4.68 | 5 | 50 | <0.5 | <2 | 6.35 | <0.5 | 52 | 746 | 20 | 7.69 | 10 | 0.17 | <10 |
| I275696 | | <0.5 | 7.12 | <5 | 90 | <0.5 | <2 | 5.59 | <0.5 | 41 | 189 | 20 | 7.63 | 10 | 0.35 | <10 |
| I275697 | | <0.5 | 5.66 | <5 | 100 | <0.5 | <2 | 6.48 | <0.5 | 55 | 448 | 20 | 8.51 | 10 | 0.25 | <10 |
| I275698 | | <0.5 | 5.44 | <5 | 70 | <0.5 | <2 | 7.14 | <0.5 | 62 | 840 | 91 | 8.25 | 20 | 0.23 | <10 |
| I275699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275700 | | <0.5 | 5.32 | <5 | 120 | <0.5 | <2 | 7.01 | <0.5 | 66 | 912 | 20 | 7.83 | 10 | 0.49 | <10 |
| I275701 | | <0.5 | 5.75 | <5 | 110 | <0.5 | <2 | 6.26 | <0.5 | 67 | 852 | 66 | 8.61 | 10 | 0.39 | <10 |
| N443883 | | <0.5 | 6.46 | 13 | 20 | <0.5 | <2 | 4.50 | <0.5 | 37 | 9 | 6 | 12.15 | 20 | 0.03 | <10 |
| N443884 | | <0.5 | 6.56 | 9 | 700 | 0.9 | <2 | 2.36 | <0.5 | 25 | 195 | 39 | 4.15 | 20 | 1.32 | 20 |
| N443885 | | 0.5 | 7.05 | 53 | 2460 | 2.3 | <2 | 2.84 | <0.5 | 39 | 97 | 2370 | 5.05 | 20 | 2.53 | 70 |
| N443886 | | <0.5 | 5.88 | 6 | 300 | 1.0 | <2 | 4.78 | <0.5 | 29 | 225 | 158 | 7.25 | 10 | 0.41 | 20 |
| N443887 | | <0.5 | 6.85 | 18 | 780 | 1.1 | 4 | 2.17 | <0.5 | 21 | 162 | 51 | 3.92 | 20 | 1.60 | 20 |
| N443888 | | <0.5 | 6.78 | 14 | 720 | 1.1 | <2 | 1.65 | <0.5 | 18 | 165 | 39 | 3.92 | 20 | 1.59 | 20 |
| N443889 | | <0.5 | 6.40 | 22 | 880 | 1.2 | <2 | 2.64 | <0.5 | 17 | 140 | 43 | 4.07 | 20 | 1.39 | 20 |
| N443890 | | <0.5 | 9.12 | <5 | 1360 | 5.1 | <2 | 2.01 | <0.5 | 17 | 15 | 157 | 4.91 | 20 | 4.58 | 80 |
| N443891 | | <0.5 | 7.07 | 7 | 2650 | 2.1 | <2 | 2.09 | <0.5 | 7 | 47 | 18 | 2.49 | 20 | 2.40 | 30 |
| N443892 | | <0.5 | 7.19 | 16 | 790 | 2.1 | <2 | 4.03 | <0.5 | 16 | 133 | 65 | 5.13 | 20 | 2.48 | 70 |
| N443893 | | <0.5 | 7.64 | <5 | 690 | 0.7 | <2 | 1.52 | <0.5 | 9 | 14 | 4 | 1.84 | 20 | 1.00 | 10 |
| N443894 | | <0.5 | 7.30 | <5 | 710 | 1.4 | <2 | 1.65 | <0.5 | 6 | 14 | 82 | 1.74 | 20 | 2.16 | 10 |
| N443895 | | <0.5 | 7.17 | 17 | 1620 | 3.2 | <2 | 3.70 | 0.5 | 18 | 38 | 109 | 5.28 | 20 | 4.36 | 70 |
| N443896 | | 0.5 | 8.96 | 29 | 2900 | 2.8 | <2 | 0.38 | <0.5 | 13 | 13 | 178 | 4.15 | 20 | 4.51 | 90 |
| N443897 | | <0.5 | 7.53 | 14 | 1680 | 3.9 | <2 | 2.68 | <0.5 | 19 | 45 | 115 | 5.57 | 20 | 4.91 | 60 |
| N443898 | | <0.5 | 6.32 | <5 | 990 | 1.0 | <2 | 1.48 | <0.5 | 10 | 100 | 3 | 2.36 | 20 | 2.49 | 20 |
| N443899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443900 | | <0.5 | 6.73 | 10 | 830 | 0.8 | 4 | 0.23 | <0.5 | 9 | 14 | 6 | 3.13 | 20 | 2.11 | <10 |
| N443901 | | 0.7 | 7.19 | 20 | 1140 | 1.6 | <2 | 0.73 | <0.5 | 16 | 92 | 89 | 2.58 | 20 | 2.92 | 50 |
| N443902 | | <0.5 | 7.32 | 22 | 2300 | 3.2 | <2 | 3.67 | <0.5 | 19 | 43 | 72 | 5.28 | 20 | 4.07 | 50 |
| N443903 | | <0.5 | 8.44 | 14 | 2660 | 3.5 | <2 | 1.08 | <0.5 | 16 | 16 | 68 | 4.62 | 20 | 4.08 | 50 |
| N443904 | | 0.8 | 7.08 | 13 | 870 | 2.8 | 4 | 5.55 | <0.5 | 16 | 104 | 129 | 5.95 | 20 | 2.73 | 80 |
| N443905 | | <0.5 | 6.36 | 15 | 780 | 1.1 | <2 | 2.17 | <0.5 | 14 | 107 | 22 | 3.42 | 20 | 1.58 | 20 |
| N443906 | | <0.5 | 6.72 | <5 | 820 | 1.3 | <2 | 2.94 | <0.5 | 21 | 173 | 55 | 4.16 | 20 | 1.71 | 20 |
| N443907 | | <0.5 | 6.43 | 7 | 670 | 1.2 | <2 | 2.77 | <0.5 | 19 | 185 | 55 | 3.68 | 20 | 1.64 | 20 |
| N443908 | | <0.5 | 9.01 | 8 | 2840 | 5.1 | <2 | 0.58 | <0.5 | 8 | 3 | 66 | 2.97 | 20 | 5.71 | 60 |
| N443909 | | <0.5 | 8.76 | 7 | 2230 | 4.3 | <2 | 2.48 | <0.5 | 7 | 2 | 67 | 3.98 | 20 | 4.84 | 40 |
| N443910 | | <0.5 | 6.41 | <5 | 600 | 0.9 | <2 | 3.78 | <0.5 | 15 | 123 | 28 | 3.84 | 10 | 1.17 | 20 |
| N443911 | | <0.5 | 5.87 | 9 | 270 | 2.1 | <2 | 5.75 | <0.5 | 37 | 278 | 5 | 6.67 | 10 | 0.07 | 20 |
| H749460 | | <0.5 | 9.11 | 30 | 2210 | 4.9 | <2 | 1.60 | <0.5 | 15 | 29 | 80 | 4.30 | 30 | 4.59 | 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 SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275692 | | 4.77 | 1375 | <1 | 2.27 | 62 | 230 | 4 | 0.05 | 6 | 40 | 159 | <20 | 0.46 | <10 | <10 |
| I275693 | | 13.10 | 1145 | 1 | 0.08 | 774 | 140 | 5 | 0.22 | <5 | 27 | 16 | <20 | 0.26 | <10 | <10 |
| I275694 | | 5.91 | 1220 | <1 | 1.93 | 159 | 1890 | 8 | 0.26 | 8 | 28 | 1010 | <20 | 0.42 | <10 | <10 |
| I275695 | | 8.30 | 1425 | <1 | 1.03 | 250 | 140 | 5 | 0.02 | 8 | 27 | 51 | <20 | 0.27 | <10 | <10 |
| I275696 | | 5.10 | 1275 | <1 | 2.66 | 86 | 240 | 5 | 0.09 | 6 | 37 | 194 | <20 | 0.43 | <10 | <10 |
| I275697 | | 8.26 | 1715 | <1 | 1.07 | 179 | 190 | 8 | 0.01 | 9 | 36 | 54 | <20 | 0.37 | <10 | <10 |
| I275698 | | 7.35 | 1600 | <1 | 1.11 | 291 | 190 | 73 | 0.06 | <5 | 35 | 127 | <20 | 0.35 | <10 | <10 |
| I275699 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275700 | | 8.47 | 1450 | 1 | 1.11 | 358 | 150 | 6 | 0.02 | 5 | 34 | 145 | <20 | 0.33 | <10 | <10 |
| I275701 | | 8.09 | 1565 | <1 | 1.13 | 297 | 180 | 6 | 0.10 | <5 | 35 | 294 | <20 | 0.36 | <10 | <10 |
| N443883 | | 2.34 | 1675 | <1 | 1.66 | <1 | 1420 | 16 | <0.01 | 7 | 47 | 296 | <20 | 1.28 | <10 | <10 |
| N443884 | | 1.26 | 854 | <1 | 2.53 | 90 | 730 | 10 | 0.20 | 8 | 16 | 295 | <20 | 0.21 | <10 | <10 |
| N443885 | | 1.33 | 974 | 3 | 2.79 | 32 | 2590 | 98 | 0.95 | 5 | 17 | 806 | <20 | 0.34 | <10 | <10 |
| N443886 | | 3.15 | 2250 | <1 | 2.45 | 197 | 1210 | 17 | 0.05 | 5 | 28 | 514 | <20 | 0.25 | <10 | <10 |
| N443887 | | 1.27 | 699 | <1 | 2.54 | 84 | 680 | 8 | 0.06 | <5 | 15 | 406 | <20 | 0.17 | <10 | <10 |
| N443888 | | 0.99 | 723 | <1 | 2.43 | 76 | 650 | 8 | 0.05 | <5 | 15 | 317 | <20 | 0.19 | <10 | <10 |
| N443889 | | 1.06 | 790 | <1 | 2.41 | 80 | 710 | 10 | 0.05 | 8 | 14 | 424 | <20 | 0.18 | <10 | <10 |
| N443890 | | 0.76 | 1215 | <1 | 2.20 | 6 | 3160 | 18 | 0.01 | 10 | 7 | 784 | 20 | 0.21 | <10 | <10 |
| N443891 | | 0.79 | 877 | <1 | 3.60 | 24 | 990 | 20 | 0.11 | 9 | 7 | 986 | <20 | 0.15 | <10 | <10 |
| N443892 | | 2.32 | 2100 | 1 | 2.92 | 37 | 2330 | 25 | 1.87 | 8 | 18 | 821 | 20 | 0.26 | <10 | <10 |
| N443893 | | 0.47 | 333 | <1 | 4.64 | 8 | 450 | 11 | 0.47 | <5 | 4 | 309 | <20 | 0.13 | <10 | <10 |
| N443894 | | 0.65 | 392 | <1 | 2.45 | 8 | 600 | 17 | 0.36 | 7 | 4 | 173 | <20 | 0.11 | <10 | <10 |
| N443895 | | 1.51 | 1440 | 1 | 2.42 | 16 | 2580 | 42 | 0.04 | 10 | 13 | 1515 | 20 | 0.33 | <10 | <10 |
| N443896 | | 0.20 | 817 | <1 | 0.65 | 6 | 1990 | 34 | 0.01 | 20 | 6 | 812 | 30 | 0.26 | <10 | <10 |
| N443897 | | 1.07 | 1575 | <1 | 1.57 | 17 | 2550 | 19 | 0.14 | 9 | 14 | 859 | 20 | 0.29 | <10 | <10 |
| N443898 | | 0.75 | 300 | 2 | 0.91 | 66 | 440 | 8 | 1.02 | 6 | 10 | 102 | <20 | 0.09 | <10 | <10 |
| N443899 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N443900 | | 0.11 | 54 | <1 | 2.60 | 7 | 450 | 15 | 1.87 | <5 | 3 | 153 | <20 | 0.10 | 10 | <10 |
| N443901 | | 0.55 | 302 | 7 | 1.61 | 72 | 930 | 3 | 1.57 | 40 | 7 | 243 | <20 | 0.15 | 10 | <10 |
| N443902 | | 1.31 | 1580 | <1 | 2.94 | 18 | 2420 | 54 | 0.08 | 5 | 11 | 1430 | 20 | 0.24 | 10 | <10 |
| N443903 | | 0.38 | 1395 | <1 | 2.26 | 7 | 2480 | 54 | 0.01 | <5 | 5 | 852 | 20 | 0.18 | 10 | <10 |
| N443904 | | 2.22 | 1570 | <1 | 2.13 | 29 | 2510 | 10 | 1.91 | 5 | 20 | 1130 | 20 | 0.37 | 10 | <10 |
| N443905 | | 1.18 | 641 | <1 | 2.78 | 66 | 690 | 4 | 0.02 | <5 | 10 | 363 | <20 | 0.22 | <10 | <10 |
| N443906 | | 1.50 | 895 | <1 | 2.39 | 102 | 810 | <2 | 0.02 | <5 | 15 | 290 | <20 | 0.26 | 10 | <10 |
| N443907 | | 1.69 | 708 | <1 | 1.99 | 96 | 690 | <2 | 0.10 | <5 | 14 | 419 | <20 | 0.24 | <10 | <10 |
| N443908 | | 0.48 | 567 | <1 | 2.06 | 1 | 1470 | 88 | 0.01 | <5 | 3 | 515 | 30 | 0.22 | 10 | <10 |
| N443909 | | 0.70 | 1255 | <1 | 3.04 | 2 | 1290 | 34 | 0.01 | <5 | 3 | 1005 | 20 | 0.22 | 10 | 10 |
| N443910 | | 2.19 | 927 | <1 | 2.26 | 70 | 530 | 2 | 0.07 | <5 | 13 | 571 | <20 | 0.20 | 10 | <10 |
| N443911 | | 4.80 | 1235 | <1 | 3.18 | 58 | 2000 | 14 | <0.01 | <5 | 29 | 1625 | <20 | 0.44 | <10 | <10 |
| H749460 | | 0.67 | 860 | <1 | 3.44 | 15 | 1970 | 13 | 0.03 | 28 | 8 | 821 | 20 | 0.23 | <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 SD14042942

| 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 |
|---|---|---|---|---|
| I275692 | | 263 | <10 | 77 |
| I275693 | | 162 | <10 | 73 |
| I275694 | | 191 | <10 | 91 |
| I275695 | | 171 | <10 | 97 |
| I275696 | | 243 | <10 | 77 |
| I275697 | | 233 | <10 | 101 |
| I275698 | | 215 | <10 | 153 |
| I275699 | | NSS | NSS | NSS |
| I275700 | | 215 | <10 | 84 |
| I275701 | | 224 | <10 | 95 |
| N443883 | | 218 | <10 | 58 |
| N443884 | | 122 | <10 | 84 |
| N443885 | | 163 | <10 | 162 |
| N443886 | | 173 | <10 | 156 |
| N443887 | | 119 | <10 | 63 |
| N443888 | | 115 | <10 | 86 |
| N443889 | | 116 | <10 | 81 |
| N443890 | | 139 | <10 | 131 |
| N443891 | | 63 | <10 | 131 |
| N443892 | | 155 | 10 | 133 |
| N443893 | | 36 | <10 | 41 |
| N443894 | | 47 | <10 | 30 |
| N443895 | | 173 | <10 | 385 |
| N443896 | | 89 | <10 | 127 |
| N443897 | | 193 | <10 | 233 |
| N443898 | | 83 | <10 | 31 |
| N443899 | | NSS | NSS | NSS |
| N443900 | | 32 | 10 | 17 |
| N443901 | | 66 | 10 | 30 |
| N443902 | | 165 | <10 | 235 |
| N443903 | | 121 | <10 | 150 |
| N443904 | | 174 | <10 | 104 |
| N443905 | | 101 | <10 | 58 |
| N443906 | | 127 | <10 | 66 |
| N443907 | | 111 | <10 | 73 |
| N443908 | | 79 | <10 | 142 |
| N443909 | | 80 | <10 | 112 |
| N443910 | | 102 | <10 | 73 |
| N443911 | | 203 | <10 | 175 |
| H749460 | | 134 | <10 | 105 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H749461 | | <0.5 | 7.78 | <5 | 3140 | 3.2 | <2 | 2.72 | <0.5 | 16 | 28 | 75 | 4.69 | 20 | 4.85 | 50 |
| H749462 | | <0.5 | 7.61 | 7 | 2550 | 2.6 | <2 | 2.71 | <0.5 | 14 | 25 | 51 | 4.43 | 20 | 3.28 | 50 |
| H749463 | | <0.5 | 6.67 | 38 | 2080 | 3.6 | <2 | 3.19 | <0.5 | 28 | 188 | 107 | 5.84 | 20 | 4.29 | 30 |
| H749464 | | <0.5 | 6.99 | <5 | 2090 | 1.9 | <2 | 3.89 | <0.5 | 25 | 240 | 4 | 5.03 | 20 | 3.94 | 40 |
| H749465 | | <0.5 | 8.28 | 14 | 3810 | 3.2 | <2 | 2.15 | <0.5 | 8 | 5 | 23 | 2.49 | 20 | 2.82 | 50 |
| H749466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| H749467 | | <0.5 | 10.45 | 6 | 2620 | 5.4 | <2 | 0.30 | <0.5 | 8 | 2 | 30 | 3.01 | 20 | 5.37 | 80 |
| H749468 | | <0.5 | 9.33 | 10 | 4150 | 4.1 | <2 | 1.15 | <0.5 | 5 | 1 | 44 | 2.57 | 20 | 5.45 | 60 |
| H749469 | | <0.5 | 9.82 | 18 | 4170 | 5.1 | <2 | 0.60 | <0.5 | 8 | 2 | 37 | 3.10 | 20 | 4.82 | 60 |
| H749470 | | <0.5 | 7.67 | 14 | 3130 | 6.2 | <2 | 3.40 | <0.5 | 17 | 27 | 198 | 5.45 | 30 | 5.84 | 80 |
| H749471 | | <0.5 | 6.99 | 26 | 3430 | 4.9 | <2 | 3.13 | <0.5 | 17 | 53 | 127 | 5.34 | 20 | 4.19 | 110 |
| H749472 | | <0.5 | 6.85 | 6 | 1020 | 2.5 | <2 | 4.72 | <0.5 | 16 | 209 | 59 | 4.55 | 20 | 3.24 | 40 |
| H749473 | | <0.5 | 6.51 | 19 | 5140 | 4.1 | <2 | 4.13 | <0.5 | 22 | 108 | 133 | 5.61 | 20 | 4.89 | 130 |
| H749474 | | <0.5 | 6.04 | 23 | 8420 | 2.4 | <2 | 4.84 | <0.5 | 16 | 12 | 161 | 6.64 | 20 | 1.78 | 290 |
| H749475 | | <0.5 | 9.95 | 15 | 4960 | 7.6 | <2 | 0.17 | <0.5 | 7 | 3 | 30 | 3.59 | 30 | 4.32 | 50 |
| H749476 | | <0.5 | 8.47 | 8 | 4480 | 5.8 | <2 | 2.42 | <0.5 | 8 | 1 | 144 | 3.78 | 20 | 5.02 | 50 |
| H749477 | | <0.5 | 8.54 | 10 | 4440 | 9.0 | 2 | 2.42 | <0.5 | 12 | 3 | 120 | 5.30 | 30 | 5.88 | 90 |
| N440855 | | <0.5 | 8.24 | 17 | 2920 | 7.0 | <2 | 0.23 | <0.5 | 8 | 4 | 40 | 2.38 | 40 | 4.38 | 90 |
| N440856 | | <0.5 | 5.85 | 26 | 2080 | 1.5 | <2 | 5.12 | <0.5 | 34 | 82 | 58 | 7.58 | 20 | 2.13 | 40 |
| N440857 | | <0.5 | 8.14 | 14 | 5650 | 6.0 | <2 | 2.78 | <0.5 | 6 | 4 | 127 | 3.23 | 20 | 4.29 | 50 |
| N440858 | | <0.5 | 7.56 | 20 | 1040 | 1.3 | <2 | 2.69 | <0.5 | 7 | 24 | 41 | 3.65 | 20 | 2.47 | 30 |
| N440859 | | <0.5 | 6.79 | 20 | 4710 | 5.1 | 4 | 5.14 | <0.5 | 17 | 9 | 139 | 5.46 | 20 | 4.30 | 90 |
| N440860 | | <0.5 | 6.79 | 34 | 6090 | 8.0 | <2 | 3.78 | <0.5 | 26 | 53 | 161 | 7.72 | 30 | 4.32 | 150 |
| N440861 | | <0.5 | 7.00 | 20 | 2290 | 4.5 | <2 | 4.51 | <0.5 | 26 | 94 | 113 | 5.88 | 20 | 5.75 | 80 |
| N440862 | | <0.5 | 7.93 | 11 | >10000 | 7.3 | <2 | 4.97 | <0.5 | 14 | 5 | 116 | 4.69 | 30 | 5.69 | 80 |
| N440863 | | <0.5 | 7.57 | 130 | 1250 | 2.1 | <2 | 0.92 | <0.5 | 27 | 223 | 73 | 5.23 | 20 | 2.91 | 40 |
| N440864 | | <0.5 | 8.07 | 26 | 2080 | 5.4 | <2 | 2.98 | <0.5 | 11 | 26 | 111 | 4.26 | 30 | 5.14 | 50 |
| N440865 | | <0.5 | 7.24 | 21 | 1960 | 3.2 | <2 | 3.95 | <0.5 | 12 | 23 | 104 | 4.33 | 20 | 4.74 | 50 |
| N440866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N440867 | | <0.5 | 8.81 | 248 | 3810 | 4.0 | <2 | 2.19 | <0.5 | 8 | 19 | 66 | 4.29 | 20 | 5.17 | 50 |
| N440868 | | <0.5 | 10.05 | 20 | 3420 | 5.7 | <2 | 0.59 | <0.5 | 17 | 31 | 80 | 5.27 | 20 | 5.46 | 70 |
| N440869 | | <0.5 | 9.36 | 42 | 1930 | 6.6 | <2 | 1.44 | <0.5 | 12 | 28 | 56 | 4.39 | 30 | 5.39 | 80 |
| N440870 | | <0.5 | 8.83 | 21 | 3160 | 7.1 | <2 | 3.05 | <0.5 | 5 | 3 | 104 | 3.45 | 30 | 3.25 | 50 |
| N440871 | | <0.5 | 6.30 | 53 | 2360 | 2.6 | 3 | 4.62 | <0.5 | 27 | 202 | 85 | 5.41 | 20 | 4.21 | 100 |
| N440872 | | <0.5 | 7.32 | 35 | 2480 | 3.9 | <2 | 4.19 | <0.5 | 23 | 43 | 116 | 5.67 | 20 | 4.94 | 70 |
| N440873 | | <0.5 | 9.63 | 35 | 3040 | 5.2 | <2 | 0.54 | <0.5 | 19 | 29 | 81 | 5.18 | 20 | 4.87 | 70 |
| N451908 | | <0.5 | 7.32 | 63 | 1850 | 2.5 | <2 | 2.44 | <0.5 | 26 | 139 | 78 | 5.00 | 20 | 2.85 | 30 |
| N451909 | | <0.5 | 7.20 | 22 | 2780 | 2.9 | <2 | 3.94 | <0.5 | 21 | 68 | 95 | 5.68 | 20 | 5.52 | 80 |
| N451910 | | <0.5 | 6.85 | 26 | 2100 | 4.6 | <2 | 6.13 | <0.5 | 33 | 71 | 19 | 5.92 | 20 | 6.82 | 80 |
| N451911 | | <0.5 | 6.55 | 32 | 1950 | 2.9 | <2 | 5.83 | <0.5 | 31 | 161 | 88 | 7.05 | 20 | 5.37 | 60 |

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

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North Vancouver BC V7H 0A7
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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 SD14042942

| 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 |
| H749461 | | 1.01 | 1150 | <1 | 2.40 | 10 | 2330 | 20 | 0.06 | 5 | 7 | 1675 | 20 | 0.15 | 10 | <10 |
| H749462 | | 0.93 | 1025 | <1 | 4.10 | 10 | 2280 | 14 | 0.06 | <5 | 6 | 1840 | 20 | 0.14 | <10 | <10 |
| H749463 | | 1.53 | 1050 | <1 | 0.66 | 60 | 2750 | <2 | <0.01 | 5 | 19 | 764 | <20 | 0.40 | 10 | <10 |
| H749464 | | 2.58 | 1035 | <1 | 2.64 | 74 | 1840 | 7 | 0.01 | <5 | 21 | 823 | <20 | 0.27 | <10 | <10 |
| H749465 | | 0.57 | 961 | <1 | 5.06 | 2 | 2600 | 11 | 0.10 | 8 | 2 | 1620 | 20 | 0.15 | 10 | 10 |
| H749466 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| H749467 | | 0.21 | 630 | <1 | 3.01 | 2 | 1050 | 7 | 0.03 | <5 | 3 | 310 | 30 | 0.29 | 10 | <10 |
| H749468 | | 0.24 | 969 | <1 | 3.35 | 3 | 1770 | 9 | 0.02 | <5 | 2 | 650 | 30 | 0.21 | <10 | <10 |
| H749469 | | 0.19 | 830 | <1 | 3.35 | 2 | 1300 | 15 | <0.01 | <5 | 2 | 680 | 20 | 0.24 | 10 | <10 |
| H749470 | | 1.05 | 1440 | <1 | 1.00 | 18 | 2700 | 19 | 0.04 | 6 | 14 | 1180 | 30 | 0.36 | 10 | <10 |
| H749471 | | 1.73 | 1180 | <1 | 3.37 | 22 | 2880 | 38 | 0.07 | 9 | 11 | 1685 | 40 | 0.43 | 10 | <10 |
| H749472 | | 2.90 | 823 | <1 | 2.29 | 68 | 1720 | 4 | 0.02 | 8 | 21 | 1060 | <20 | 0.27 | <10 | 10 |
| H749473 | | 2.47 | 1230 | <1 | 1.73 | 42 | 2180 | 22 | 0.10 | 9 | 15 | 1220 | 40 | 0.42 | 10 | <10 |
| H749474 | | 0.62 | 1930 | <1 | 3.83 | 7 | 3960 | 66 | 0.34 | 9 | 5 | 5040 | 80 | 0.48 | <10 | <10 |
| H749475 | | 0.24 | 448 | <1 | 0.49 | 4 | 630 | 9 | 0.01 | <5 | 3 | 612 | 20 | 0.27 | 10 | <10 |
| H749476 | | 0.47 | 1170 | <1 | 2.05 | 3 | 1060 | 19 | 0.09 | 6 | 3 | 945 | 30 | 0.33 | <10 | <10 |
| H749477 | | 0.58 | 1615 | <1 | 2.46 | 8 | 1290 | 16 | 0.08 | <5 | 4 | 1115 | 30 | 0.49 | <10 | <10 |
| N440855 | | 0.24 | 813 | <1 | 0.39 | 6 | 360 | 86 | 0.01 | <5 | 1 | 351 | 70 | 0.31 | 10 | <10 |
| N440856 | | 4.45 | 1395 | <1 | 1.50 | 27 | 1960 | 3 | 0.06 | <5 | 41 | 1095 | <20 | 0.58 | <10 | <10 |
| N440857 | | 0.76 | 1285 | <1 | 0.80 | 3 | 1080 | 51 | 0.02 | <5 | 3 | 3520 | 30 | 0.34 | <10 | <10 |
| N440858 | | 0.76 | 590 | <1 | 4.78 | 9 | 1100 | 20 | 0.07 | <5 | 8 | 506 | <20 | 0.29 | 10 | <10 |
| N440859 | | 1.50 | 1835 | <1 | 1.32 | 7 | 2190 | 98 | 0.06 | <5 | 10 | 4600 | 40 | 0.46 | 10 | <10 |
| N440860 | | 1.23 | 1770 | <1 | 0.03 | 15 | 3790 | 31 | 0.11 | <5 | 19 | 1990 | 50 | 0.52 | 10 | <10 |
| N440861 | | 2.21 | 1130 | <1 | 1.25 | 25 | 2410 | 21 | 0.02 | 15 | 19 | 1230 | 20 | 0.29 | <10 | <10 |
| N440862 | | 0.68 | 1700 | <1 | 0.11 | 5 | 1470 | 59 | 0.28 | 6 | 6 | 1310 | 30 | 0.42 | <10 | <10 |
| N440863 | | 0.47 | 1565 | 1 | 1.72 | 87 | 1310 | 28 | 0.56 | 7 | 13 | 351 | <20 | 0.15 | <10 | <10 |
| N440864 | | 1.21 | 1200 | <1 | 2.77 | 10 | 2240 | 16 | 0.02 | 6 | 7 | 1035 | 20 | 0.24 | <10 | <10 |
| N440865 | | 1.20 | 1050 | <1 | 2.71 | 9 | 2120 | 9 | 0.02 | 6 | 6 | 1425 | 20 | 0.27 | <10 | <10 |
| N440866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N440867 | | 0.82 | 1200 | <1 | 3.18 | 7 | 2140 | 14 | 0.02 | <5 | 5 | 1805 | 20 | 0.23 | 10 | 10 |
| N440868 | | 0.59 | 791 | <1 | 0.87 | 12 | 2360 | 24 | 0.01 | 11 | 9 | 484 | 30 | 0.26 | <10 | <10 |
| N440869 | | 0.73 | 764 | <1 | 2.43 | 11 | 5170 | 22 | 0.03 | 14 | 8 | 899 | 30 | 0.23 | <10 | <10 |
| N440870 | | 0.58 | 1350 | <1 | 4.27 | 1 | 2010 | 17 | 0.01 | 5 | 3 | 1225 | 20 | 0.33 | <10 | <10 |
| N440871 | | 3.42 | 888 | <1 | 1.74 | 113 | 4130 | 14 | 0.01 | 9 | 17 | 2190 | 30 | 0.35 | 10 | <10 |
| N440872 | | 1.76 | 1410 | <1 | 0.72 | 19 | 2680 | 12 | 0.03 | 5 | 13 | 1860 | 20 | 0.38 | <10 | <10 |
| N440873 | | 0.74 | 1245 | <1 | 0.74 | 13 | 2260 | 22 | 0.01 | <5 | 8 | 381 | 20 | 0.24 | <10 | <10 |
| N451908 | | 2.00 | 838 | <1 | 2.18 | 69 | 1240 | 31 | 0.20 | <5 | 16 | 579 | <20 | 0.26 | <10 | <10 |
| N451909 | | 2.09 | 1180 | <1 | 2.10 | 22 | 2330 | 27 | 0.02 | <5 | 15 | 1680 | 20 | 0.32 | <10 | <10 |
| N451910 | | 2.62 | 1285 | <1 | 0.06 | 24 | 3040 | 21 | 0.22 | 16 | 20 | 1375 | 20 | 0.31 | 10 | <10 |
| N451911 | | 2.82 | 1145 | <1 | 0.14 | 42 | 2260 | 22 | 0.05 | 5 | 26 | 1455 | 20 | 0.48 | <10 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|
| H749461 | | 126 | <10 | 110 |
| H749462 | | 116 | <10 | 96 |
| H749463 | | 194 | <10 | 94 |
| H749464 | | 156 | 10 | 71 |
| H749465 | | 52 | <10 | 69 |
| H749466 | | NSS | NSS | NSS |
| H749467 | | 84 | <10 | 101 |
| H749468 | | 68 | <10 | 51 |
| H749469 | | 76 | <10 | 100 |
| H749470 | | 263 | <10 | 148 |
| H749471 | | 210 | <10 | 144 |
| H749472 | | 153 | <10 | 71 |
| H749473 | | 222 | <10 | 109 |
| H749474 | | 239 | <10 | 186 |
| H749475 | | 173 | <10 | 102 |
| H749476 | | 206 | <10 | 103 |
| H749477 | | 340 | <10 | 162 |
| N440855 | | 105 | <10 | 148 |
| N440856 | | 290 | <10 | 106 |
| N440857 | | 169 | <10 | 107 |
| N440858 | | 114 | <10 | 68 |
| N440859 | | 233 | 10 | 158 |
| N440860 | | 293 | <10 | 142 |
| N440861 | | 224 | <10 | 114 |
| N440862 | | 234 | <10 | 148 |
| N440863 | | 129 | <10 | 60 |
| N440864 | | 149 | <10 | 87 |
| N440865 | | 117 | 10 | 66 |
| N440866 | | NSS | NSS | NSS |
| N440867 | | 106 | <10 | 93 |
| N440868 | | 143 | <10 | 138 |
| N440869 | | 146 | <10 | 124 |
| N440870 | | 182 | <10 | 134 |
| N440871 | | 149 | <10 | 113 |
| N440872 | | 184 | <10 | 100 |
| N440873 | | 136 | <10 | 117 |
| N451908 | | 160 | <10 | 112 |
| N451909 | | 194 | <10 | 99 |
| N451910 | | 270 | 10 | 96 |
| N451911 | | 243 | <10 | 120 |

***** 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 SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451912 | | <0.5 | 6.88 | 20 | 3280 | 3.4 | <2 | 4.69 | <0.5 | 21 | 78 | 79 | 5.42 | 20 | 5.75 | 80 |
| N451913 | | <0.5 | 7.68 | 15 | 2720 | 6.8 | <2 | 2.32 | <0.5 | 14 | 24 | 91 | 3.95 | 20 | 4.54 | 60 |
| N451914 | | <0.5 | 7.40 | <5 | 1460 | 2.5 | <2 | 2.57 | <0.5 | 10 | 58 | 2 | 3.72 | 20 | 3.11 | 40 |
| N451915 | | <0.5 | 7.35 | 29 | 1780 | 2.3 | <2 | 4.15 | <0.5 | 23 | 31 | 161 | 5.42 | 20 | 3.62 | 30 |
| N451916 | | <0.5 | 9.28 | 18 | 3020 | 4.4 | <2 | 1.64 | <0.5 | 15 | 28 | 90 | 4.55 | 20 | 4.12 | 70 |
| N451917 | | <0.5 | 7.22 | 27 | 1690 | 4.1 | <2 | 2.90 | <0.5 | 12 | 24 | 77 | 3.89 | 20 | 4.41 | 50 |
| N451918 | | <0.5 | 7.91 | 28 | 2330 | 5.9 | <2 | 2.76 | <0.5 | 14 | 25 | 71 | 4.28 | 20 | 5.47 | 60 |
| N451919 | | <0.5 | 7.45 | <5 | 1020 | 1.9 | <2 | 1.99 | <0.5 | 6 | 58 | 2 | 2.74 | 20 | 2.22 | 40 |
| N451920 | | <0.5 | 7.93 | 39 | 2670 | 4.5 | <2 | 2.45 | <0.5 | 17 | 24 | 55 | 4.68 | 20 | 5.86 | 50 |
| N451921 | | <0.5 | 8.68 | 22 | 2490 | 3.8 | <2 | 2.41 | <0.5 | 20 | 87 | 83 | 5.49 | 20 | 5.20 | 70 |
| N451922 | | <0.5 | 7.98 | 60 | 3370 | 3.7 | <2 | 2.24 | <0.5 | 17 | 25 | 71 | 4.62 | 20 | 5.39 | 60 |
| N451923 | | 1.4 | 8.58 | 124 | 2580 | 5.2 | <2 | 1.71 | <0.5 | 16 | 25 | 428 | 4.47 | 20 | 5.26 | 70 |
| N451924 | | <0.5 | 8.32 | 15 | 4880 | 6.3 | <2 | 0.49 | <0.5 | 15 | 8 | 108 | 3.57 | 30 | 4.31 | 70 |
| N451925 | | <0.5 | 7.46 | 20 | 1770 | 1.9 | <2 | 3.83 | <0.5 | 32 | 87 | 110 | 5.92 | 20 | 3.61 | 50 |
| N451926 | | <0.5 | 4.46 | 11 | 1420 | 2.1 | <2 | 0.92 | <0.5 | 9 | 32 | 2700 | 2.53 | 10 | 4.08 | 40 |
| N451927 | | <0.5 | 6.95 | 6 | 1950 | 2.0 | <2 | 3.66 | <0.5 | 13 | 45 | 19 | 3.59 | 20 | 2.69 | 30 |
| N451928 | | <0.5 | 8.14 | 14 | 2650 | 2.4 | <2 | 1.68 | <0.5 | 8 | 50 | 31 | 2.58 | 20 | 4.14 | 40 |
| N451929 | | <0.5 | 8.02 | <5 | 1910 | 1.9 | <2 | 1.94 | <0.5 | 7 | 50 | 24 | 2.64 | 20 | 2.16 | 40 |
| N451930 | | <0.5 | 9.65 | 20 | 2010 | 4.6 | <2 | 1.67 | <0.5 | 14 | 19 | 59 | 3.59 | 20 | 5.51 | 60 |
| N451931 | | <0.5 | 9.85 | 71 | 2430 | 5.0 | <2 | 0.43 | <0.5 | 10 | 21 | 58 | 3.94 | 20 | 5.42 | 60 |
| N451932 | | <0.5 | 9.30 | 28 | 2640 | 4.2 | <2 | 1.80 | <0.5 | 12 | 22 | 64 | 4.10 | 20 | 5.44 | 70 |
| N451933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451934 | | <0.5 | 7.36 | 48 | 1930 | 4.5 | <2 | 4.53 | <0.5 | 40 | 120 | 28 | 5.94 | 20 | 4.32 | 140 |
| N451935 | | <0.5 | 6.88 | 46 | 3070 | 4.4 | <2 | 3.46 | <0.5 | 17 | 115 | 97 | 6.40 | 20 | 4.30 | 120 |
| N451936 | | <0.5 | 6.38 | 45 | 2770 | 4.6 | <2 | 4.72 | <0.5 | 23 | 97 | 104 | 5.25 | 20 | 4.54 | 120 |
| N451937 | | <0.5 | 9.37 | 18 | 3010 | 5.5 | <2 | 1.41 | <0.5 | 13 | 19 | 75 | 3.96 | 20 | 5.29 | 70 |
| N451938 | | <0.5 | 7.90 | <5 | 900 | 1.5 | <2 | 3.71 | <0.5 | 10 | 62 | 2 | 3.60 | 20 | 1.64 | 40 |

***** 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 SD14042942

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N451912 | | 1.93 | 1170 | <1 | 1.19 | 21 | 2450 | 20 | 0.13 | 10 | 15 | 1465 | 30 | 0.33 | <10 | <10 |
| N451913 | | 0.82 | 963 | <1 | 0.52 | 9 | 2310 | 79 | 0.02 | <5 | 7 | 839 | 20 | 0.26 | <10 | <10 |
| N451914 | | 1.17 | 860 | <1 | 2.42 | 34 | 1140 | 9 | 0.06 | 5 | 11 | 949 | <20 | 0.30 | <10 | <10 |
| N451915 | | 1.64 | 1635 | 1 | 1.80 | 10 | 1620 | 38 | 1.04 | 8 | 17 | 908 | <20 | 0.40 | <10 | <10 |
| N451916 | | 0.66 | 635 | <1 | 0.71 | 13 | 2540 | 20 | 0.01 | 5 | 8 | 635 | 20 | 0.31 | <10 | <10 |
| N451917 | | 1.10 | 1055 | <1 | 0.41 | 7 | 2160 | 33 | 0.07 | 10 | 6 | 699 | 20 | 0.16 | <10 | <10 |
| N451918 | | 1.28 | 1110 | <1 | 1.17 | 14 | 2150 | 13 | 0.01 | 6 | 7 | 1040 | 20 | 0.21 | <10 | <10 |
| N451919 | | 0.80 | 672 | <1 | 3.45 | 22 | 1020 | 8 | 0.02 | 7 | 8 | 443 | <20 | 0.21 | <10 | <10 |
| N451920 | | 1.15 | 1010 | <1 | 2.37 | 11 | 2350 | 19 | 0.01 | 17 | 7 | 1330 | 20 | 0.29 | <10 | <10 |
| N451921 | | 1.40 | 909 | <1 | 2.54 | 35 | 1860 | 27 | 0.01 | <5 | 11 | 1130 | 20 | 0.33 | <10 | <10 |
| N451922 | | 0.77 | 1190 | <1 | 2.48 | 15 | 2190 | 43 | 0.18 | <5 | 7 | 2710 | 20 | 0.24 | 10 | <10 |
| N451923 | | 0.79 | 1005 | <1 | 0.88 | 14 | 2060 | 34 | 0.04 | 132 | 8 | 552 | 30 | 0.23 | <10 | <10 |
| N451924 | | 0.53 | 688 | 4 | 0.55 | 9 | 940 | 74 | 0.25 | <5 | 4 | 232 | 30 | 0.23 | <10 | <10 |
| N451925 | | 1.46 | 1310 | 2 | 1.15 | 26 | 1960 | 17 | 1.43 | <5 | 32 | 539 | <20 | 0.48 | 10 | <10 |
| N451926 | | 0.28 | 541 | <1 | 0.40 | 6 | 1240 | 31 | 0.22 | 8 | 4 | 343 | <20 | 0.11 | <10 | <10 |
| N451927 | | 1.67 | 995 | <1 | 2.41 | 15 | 960 | 12 | 0.01 | <5 | 11 | 944 | <20 | 0.25 | <10 | <10 |
| N451928 | | 0.97 | 514 | <1 | 1.08 | 25 | 1110 | 50 | 0.08 | <5 | 8 | 322 | <20 | 0.18 | 10 | <10 |
| N451929 | | 1.05 | 503 | <1 | 3.06 | 25 | 1020 | 15 | 0.02 | <5 | 7 | 625 | <20 | 0.22 | 10 | <10 |
| N451930 | | 0.66 | 912 | <1 | 3.17 | 10 | 1850 | 20 | 0.03 | 19 | 5 | 1050 | 20 | 0.21 | 10 | <10 |
| N451931 | | 0.44 | 591 | 1 | 3.44 | 7 | 1710 | 16 | 0.02 | 5 | 6 | 394 | 20 | 0.19 | <10 | <10 |
| N451932 | | 0.75 | 812 | <1 | 3.06 | 9 | 2080 | 25 | 0.01 | 5 | 6 | 1325 | 20 | 0.29 | 10 | <10 |
| N451933 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| N451934 | | 2.77 | 996 | <1 | 2.54 | 59 | 4610 | 16 | 0.12 | <5 | 22 | 1390 | 30 | 0.54 | <10 | <10 |
| N451935 | | 1.85 | 1200 | <1 | 1.38 | 50 | 5650 | 16 | 0.01 | <5 | 19 | 1500 | 30 | 0.45 | <10 | <10 |
| N451936 | | 2.54 | 1020 | <1 | 1.20 | 54 | 3320 | 17 | 0.01 | <5 | 17 | 3250 | 30 | 0.39 | <10 | <10 |
| N451937 | | 0.63 | 782 | 1 | 1.33 | 10 | 1950 | 27 | 0.02 | <5 | 6 | 810 | 30 | 0.25 | <10 | <10 |
| N451938 | | 1.58 | 1135 | <1 | 4.92 | 33 | 1210 | 6 | 0.05 | <5 | 8 | 756 | <20 | 0.18 | 10 | <10 |

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

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North Vancouver BC V7H 0A7
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**KIRKLAND LAKE ON P2N 3L1**


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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

| 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 |
|---|---|---|---|---|
| N451912 | | 202 | 10 | 85 |
| N451913 | | 130 | <10 | 121 |
| N451914 | | 114 | <10 | 101 |
| N451915 | | 183 | <10 | 96 |
| N451916 | | 139 | <10 | 96 |
| N451917 | | 140 | 10 | 87 |
| N451918 | | 125 | <10 | 90 |
| N451919 | | 79 | <10 | 49 |
| N451920 | | 134 | <10 | 125 |
| N451921 | | 153 | <10 | 140 |
| N451922 | | 111 | 10 | 97 |
| N451923 | | 116 | <10 | 143 |
| N451924 | | 178 | <10 | 106 |
| N451925 | | 258 | <10 | 102 |
| N451926 | | 59 | <10 | 57 |
| N451927 | | 106 | <10 | 72 |
| N451928 | | 67 | <10 | 76 |
| N451929 | | 74 | <10 | 100 |
| N451930 | | 116 | <10 | 98 |
| N451931 | | 108 | <10 | 93 |
| N451932 | | 118 | <10 | 59 |
| N451933 | | NSS | NSS | NSS |
| N451934 | | 189 | <10 | 89 |
| N451935 | | 173 | <10 | 113 |
| N451936 | | 156 | <10 | 92 |
| N451937 | | 107 | <10 | 96 |
| N451938 | | 71 | <10 | 80 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042942

## 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 |