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 SD14042825

Project: KL_LITHO

P.O. No.: KL 000436

This report is for 110 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 SD14042825

| 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 |
| I275501 | | <0.5 | 7.19 | 6 | 50 | 0.5 | <2 | 5.24 | <0.5 | 41 | 171 | 111 | 7.39 | 20 | 0.06 | <10 |
| I275502 | | <0.5 | 6.47 | <5 | 80 | 0.5 | 4 | 6.12 | <0.5 | 29 | 5 | 36 | 8.69 | 20 | 0.09 | 10 |
| I275503 | | <0.5 | 7.34 | <5 | 100 | 0.5 | <2 | 4.97 | <0.5 | 41 | 175 | 96 | 7.63 | 20 | 0.18 | <10 |
| I275504 | | <0.5 | 6.89 | <5 | 60 | <0.5 | 2 | 6.44 | <0.5 | 38 | 187 | 96 | 7.05 | 20 | 0.08 | <10 |
| I275505 | | <0.5 | 7.60 | 6 | 50 | <0.5 | <2 | 6.41 | <0.5 | 40 | 233 | 93 | 7.09 | 20 | 0.04 | <10 |
| I275506 | | <0.5 | 8.11 | <5 | 220 | <0.5 | <2 | 3.12 | <0.5 | 38 | 128 | 75 | 8.60 | 20 | 0.41 | <10 |
| I275507 | | <0.5 | 7.93 | <5 | 50 | <0.5 | <2 | 4.72 | <0.5 | 44 | 222 | 115 | 8.94 | 20 | 0.06 | <10 |
| I275508 | | <0.5 | 7.88 | <5 | 100 | <0.5 | 2 | 7.79 | <0.5 | 37 | 204 | 114 | 7.59 | 20 | 0.22 | <10 |
| I275509 | | <0.5 | 7.08 | 6 | 30 | <0.5 | <2 | 5.82 | <0.5 | 39 | 126 | 101 | 9.11 | 20 | 0.03 | <10 |
| I275510 | | <0.5 | 7.75 | 7 | 320 | <0.5 | <2 | 5.73 | <0.5 | 33 | 115 | 84 | 7.84 | 20 | 0.74 | <10 |
| I275511 | | <0.5 | 8.15 | 9 | 50 | <0.5 | 2 | 7.39 | <0.5 | 40 | 234 | 101 | 8.03 | 20 | 0.03 | <10 |
| I275512 | | <0.5 | 7.12 | 10 | 60 | <0.5 | <2 | 8.24 | <0.5 | 40 | 172 | 113 | 7.22 | 20 | 0.13 | <10 |
| I275513 | | <0.5 | 7.33 | <5 | 40 | <0.5 | 4 | 6.27 | <0.5 | 39 | 183 | 84 | 8.56 | 20 | 0.04 | <10 |
| I275514 | | <0.5 | 7.34 | <5 | 60 | <0.5 | 3 | 6.44 | <0.5 | 40 | 174 | 97 | 7.96 | 20 | 0.05 | <10 |
| I275515 | | <0.5 | 6.85 | <5 | 110 | <0.5 | <2 | 6.34 | <0.5 | 36 | 167 | 86 | 6.84 | 20 | 0.18 | <10 |
| I275516 | | <0.5 | 7.69 | 6 | 210 | <0.5 | 4 | 6.45 | <0.5 | 30 | 125 | 74 | 6.63 | 20 | 0.45 | 10 |
| I275517 | | <0.5 | 7.06 | 5 | 50 | 0.5 | <2 | 6.96 | 0.5 | 43 | 144 | 100 | 7.78 | 20 | 0.06 | <10 |
| I275518 | | <0.5 | 6.96 | 6 | 60 | 0.5 | 8 | 4.83 | <0.5 | 39 | 156 | 80 | 7.71 | 20 | 0.12 | <10 |
| I275519 | | <0.5 | 7.44 | 7 | 40 | <0.5 | 6 | 7.87 | <0.5 | 35 | 209 | 109 | 6.20 | 10 | 0.12 | <10 |
| I275520 | | <0.5 | 7.09 | 8 | 20 | <0.5 | <2 | 5.21 | <0.5 | 34 | 173 | 84 | 8.19 | 20 | 0.02 | <10 |
| I275521 | | <0.5 | 7.40 | <5 | 40 | <0.5 | 2 | 7.22 | <0.5 | 39 | 177 | 102 | 8.51 | 20 | 0.06 | <10 |
| I275522 | | <0.5 | 6.86 | <5 | 30 | 0.5 | 3 | 5.08 | <0.5 | 39 | 178 | 69 | 8.91 | 20 | 0.03 | <10 |
| I275523 | | <0.5 | 7.20 | 9 | 100 | <0.5 | 3 | 6.03 | <0.5 | 39 | 175 | 94 | 7.32 | 20 | 0.13 | <10 |
| I275524 | | <0.5 | 6.86 | 8 | 30 | 0.5 | 6 | 5.39 | <0.5 | 40 | 179 | 89 | 8.34 | 20 | 0.02 | <10 |
| I275525 | | <0.5 | 7.64 | 16 | 60 | <0.5 | 3 | 5.53 | <0.5 | 40 | 250 | 49 | 6.37 | 20 | 0.02 | <10 |
| I275526 | | <0.5 | 7.55 | 7 | 50 | <0.5 | 4 | 5.75 | <0.5 | 40 | 239 | 85 | 6.66 | 20 | 0.05 | <10 |
| I275527 | | <0.5 | 7.45 | 5 | 60 | <0.5 | 3 | 7.53 | <0.5 | 38 | 230 | 97 | 6.49 | 10 | 0.15 | <10 |
| I275528 | | <0.5 | 8.57 | 6 | 30 | <0.5 | <2 | 8.54 | <0.5 | 47 | 253 | 125 | 7.15 | 20 | 0.03 | <10 |
| I275529 | | <0.5 | 6.97 | <5 | 250 | <0.5 | <2 | 5.36 | <0.5 | 44 | 226 | 76 | 8.01 | 20 | 0.18 | <10 |
| I275530 | | <0.5 | 7.34 | <5 | 50 | <0.5 | 2 | 5.12 | <0.5 | 46 | 234 | 84 | 7.27 | 10 | 0.03 | <10 |
| I275531 | | <0.5 | 7.68 | 6 | 40 | <0.5 | <2 | 6.39 | <0.5 | 43 | 227 | 91 | 6.84 | 20 | 0.04 | <10 |
| I275532 | | <0.5 | 6.74 | <5 | 60 | 0.5 | <2 | 6.28 | 0.7 | 52 | 181 | 111 | 10.75 | 20 | 0.05 | <10 |
| I275533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275534 | | <0.5 | 6.76 | 6 | 70 | <0.5 | <2 | 6.77 | <0.5 | 40 | 147 | 97 | 8.14 | 20 | 0.06 | <10 |
| I275535 | | <0.5 | 7.39 | 8 | 50 | <0.5 | <2 | 4.58 | 0.6 | 43 | 176 | 98 | 8.06 | 20 | 0.04 | <10 |
| I275536 | | <0.5 | 7.30 | <5 | 40 | <0.5 | <2 | 4.83 | <0.5 | 46 | 239 | 99 | 7.13 | 10 | 0.02 | <10 |
| I275537 | | <0.5 | 7.59 | <5 | 80 | <0.5 | <2 | 5.54 | <0.5 | 51 | 246 | 97 | 7.53 | 20 | 0.12 | <10 |
| I275538 | | <0.5 | 8.25 | 15 | 60 | <0.5 | <2 | 6.27 | <0.5 | 48 | 263 | 101 | 7.28 | 20 | 0.05 | <10 |
| I275539 | | <0.5 | 7.23 | 6 | 30 | <0.5 | <2 | 6.26 | <0.5 | 45 | 229 | 85 | 7.23 | 20 | 0.05 | <10 |
| I275540 | | <0.5 | 7.88 | 6 | 120 | <0.5 | <2 | 7.09 | <0.5 | 44 | 221 | 92 | 7.29 | 20 | 0.15 | <10 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

| 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 |
| I275501 | | 4.04 | 1715 | 2 | 2.78 | 101 | 420 | 4 | 0.08 | <5 | 38 | 117 | <20 | 0.71 | <10 | <10 |
| I275502 | | 2.22 | 1965 | 1 | 2.25 | 4 | 1400 | <2 | 0.29 | <5 | 37 | 216 | <20 | 1.39 | <10 | <10 |
| I275503 | | 4.27 | 1735 | 2 | 2.44 | 91 | 400 | 4 | 0.05 | <5 | 38 | 116 | <20 | 0.68 | <10 | <10 |
| I275504 | | 3.87 | 1415 | 1 | 1.37 | 99 | 360 | 5 | 0.05 | <5 | 35 | 150 | <20 | 0.63 | <10 | <10 |
| I275505 | | 3.52 | 1680 | 1 | 2.06 | 91 | 190 | 3 | 0.07 | <5 | 38 | 64 | <20 | 0.44 | 10 | <10 |
| I275506 | | 3.56 | 1645 | 1 | 1.97 | 70 | 430 | 3 | 0.01 | <5 | 38 | 74 | <20 | 0.84 | <10 | <10 |
| I275507 | | 3.04 | 1740 | 1 | 2.31 | 110 | 310 | <2 | 0.04 | <5 | 42 | 123 | <20 | 0.70 | <10 | <10 |
| I275508 | | 1.80 | 1510 | 1 | 1.12 | 99 | 280 | <2 | 0.11 | <5 | 40 | 162 | <20 | 0.65 | <10 | <10 |
| I275509 | | 3.50 | 1570 | 1 | 1.37 | 70 | 470 | 7 | 0.10 | <5 | 41 | 133 | <20 | 0.90 | <10 | <10 |
| I275510 | | 2.09 | 1495 | 1 | 2.24 | 61 | 490 | 4 | 0.06 | <5 | 37 | 52 | <20 | 0.79 | <10 | <10 |
| I275511 | | 3.69 | 1630 | 1 | 1.39 | 108 | 330 | 6 | 0.08 | <5 | 41 | 95 | <20 | 0.59 | <10 | <10 |
| I275512 | | 3.26 | 1750 | 1 | 1.18 | 96 | 400 | 7 | 0.04 | <5 | 37 | 138 | <20 | 0.63 | <10 | <10 |
| I275513 | | 4.33 | 1460 | <1 | 1.70 | 98 | 360 | 3 | 0.06 | <5 | 38 | 117 | <20 | 0.68 | <10 | <10 |
| I275514 | | 4.24 | 1400 | 2 | 2.19 | 96 | 390 | 6 | 0.08 | <5 | 38 | 119 | <20 | 0.67 | <10 | <10 |
| I275515 | | 3.81 | 1230 | 1 | 1.79 | 90 | 360 | 4 | 0.04 | <5 | 36 | 112 | <20 | 0.65 | <10 | <10 |
| I275516 | | 3.02 | 1115 | 1 | 2.07 | 72 | 420 | 2 | 0.05 | <5 | 30 | 227 | <20 | 0.60 | <10 | <10 |
| I275517 | | 3.63 | 1425 | 1 | 1.94 | 83 | 400 | <2 | 0.17 | <5 | 37 | 96 | <20 | 0.71 | <10 | <10 |
| I275518 | | 4.17 | 1405 | <1 | 2.45 | 90 | 370 | <2 | 0.11 | <5 | 36 | 75 | <20 | 0.65 | <10 | <10 |
| I275519 | | 4.51 | 1710 | 1 | 1.17 | 84 | 190 | 2 | 0.12 | <5 | 41 | 97 | <20 | 0.46 | 10 | <10 |
| I275520 | | 4.01 | 1480 | <1 | 1.59 | 90 | 330 | 3 | 0.06 | <5 | 35 | 221 | <20 | 0.62 | <10 | <10 |
| I275521 | | 4.26 | 1480 | 1 | 1.45 | 93 | 370 | 6 | 0.04 | <5 | 39 | 134 | <20 | 0.69 | <10 | <10 |
| I275522 | | 4.74 | 1620 | 1 | 2.05 | 88 | 360 | 2 | 0.06 | <5 | 37 | 78 | <20 | 0.66 | <10 | <10 |
| I275523 | | 4.10 | 1375 | 1 | 2.09 | 91 | 370 | <2 | 0.05 | <5 | 38 | 122 | <20 | 0.67 | <10 | <10 |
| I275524 | | 4.55 | 1505 | 1 | 1.89 | 92 | 350 | 5 | 0.08 | <5 | 37 | 91 | <20 | 0.66 | <10 | <10 |
| I275525 | | 2.55 | 1655 | 1 | 3.76 | 90 | 190 | 173 | 0.05 | <5 | 37 | 139 | <20 | 0.44 | <10 | <10 |
| I275526 | | 3.96 | 1390 | 2 | 2.57 | 101 | 190 | 3 | 0.02 | <5 | 38 | 77 | <20 | 0.44 | <10 | <10 |
| I275527 | | 4.47 | 1400 | 1 | 1.56 | 101 | 190 | 4 | 0.04 | <5 | 37 | 107 | <20 | 0.43 | <10 | <10 |
| I275528 | | 3.22 | 1385 | <1 | 0.86 | 114 | 230 | <2 | 0.02 | <5 | 44 | 304 | <20 | 0.48 | <10 | <10 |
| I275529 | | 4.69 | 1610 | <1 | 1.59 | 97 | 190 | <2 | 0.03 | <5 | 34 | 100 | <20 | 0.42 | <10 | <10 |
| I275530 | | 4.36 | 1510 | <1 | 2.24 | 103 | 200 | <2 | 0.03 | <5 | 38 | 62 | <20 | 0.43 | <10 | <10 |
| I275531 | | 4.32 | 1470 | <1 | 2.16 | 103 | 210 | <2 | 0.04 | <5 | 38 | 134 | <20 | 0.45 | <10 | <10 |
| I275532 | | 4.41 | 2100 | <1 | 1.12 | 97 | 410 | <2 | 0.20 | <5 | 39 | 111 | <20 | 0.70 | <10 | <10 |
| I275533 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275534 | | 4.02 | 1575 | <1 | 1.76 | 85 | 350 | <2 | 0.05 | <5 | 35 | 237 | <20 | 0.61 | <10 | <10 |
| I275535 | | 4.27 | 1490 | <1 | 2.62 | 96 | 390 | <2 | 0.09 | <5 | 40 | 124 | <20 | 0.71 | <10 | <10 |
| I275536 | | 4.46 | 1455 | <1 | 2.55 | 102 | 200 | <2 | 0.06 | <5 | 36 | 78 | <20 | 0.43 | <10 | <10 |
| I275537 | | 4.55 | 1735 | <1 | 2.22 | 111 | 210 | <2 | 0.01 | <5 | 37 | 103 | <20 | 0.45 | <10 | <10 |
| I275538 | | 2.79 | 1710 | <1 | 2.43 | 111 | 210 | 10 | 0.07 | <5 | 43 | 59 | <20 | 0.49 | <10 | <10 |
| I275539 | | 4.27 | 1605 | <1 | 1.45 | 101 | 200 | <2 | 0.05 | <5 | 38 | 67 | <20 | 0.42 | <10 | <10 |
| I275540 | | 3.56 | 1690 | <1 | 1.38 | 106 | 220 | <2 | 0.01 | <5 | 40 | 172 | <20 | 0.45 | <10 | <10 |

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

| 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 |
|---|---|---|---|---|
| I275501 | | 338 | <10 | 87 |
| I275502 | | 300 | <10 | 117 |
| I275503 | | 319 | <10 | 74 |
| I275504 | | 302 | <10 | 74 |
| I275505 | | 260 | <10 | 76 |
| I275506 | | 368 | <10 | 91 |
| I275507 | | 352 | <10 | 96 |
| I275508 | | 333 | <10 | 56 |
| I275509 | | 387 | <10 | 88 |
| I275510 | | 336 | <10 | 85 |
| I275511 | | 318 | <10 | 81 |
| I275512 | | 298 | <10 | 66 |
| I275513 | | 323 | <10 | 84 |
| I275514 | | 322 | <10 | 72 |
| I275515 | | 308 | <10 | 75 |
| I275516 | | 262 | <10 | 74 |
| I275517 | | 329 | <10 | 93 |
| I275518 | | 311 | <10 | 91 |
| I275519 | | 287 | <10 | 69 |
| I275520 | | 302 | <10 | 106 |
| I275521 | | 329 | <10 | 88 |
| I275522 | | 311 | <10 | 78 |
| I275523 | | 317 | <10 | 70 |
| I275524 | | 321 | <10 | 90 |
| I275525 | | 280 | <10 | 69 |
| I275526 | | 255 | <10 | 68 |
| I275527 | | 254 | <10 | 64 |
| I275528 | | 291 | <10 | 72 |
| I275529 | | 246 | <10 | 77 |
| I275530 | | 251 | <10 | 71 |
| I275531 | | 263 | <10 | 66 |
| I275532 | | 330 | <10 | 107 |
| I275533 | | NSS | NSS | NSS |
| I275534 | | 297 | <10 | 82 |
| I275535 | | 341 | <10 | 103 |
| I275536 | | 254 | <10 | 73 |
| I275537 | | 268 | <10 | 66 |
| I275538 | | 288 | <10 | 101 |
| I275539 | | 255 | <10 | 67 |
| I275540 | | 269 | <10 | 63 |

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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 | 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 |
| I275541 | | <0.5 | 7.82 | <5 | 190 | <0.5 | <2 | 6.89 | 0.5 | 48 | 235 | 102 | 7.63 | 20 | 0.22 | <10 |
| I275542 | | <0.5 | 7.92 | 5 | 80 | <0.5 | <2 | 5.55 | <0.5 | 43 | 257 | 93 | 7.14 | 20 | 0.11 | <10 |
| I275543 | | <0.5 | 7.13 | 5 | 70 | <0.5 | <2 | 6.50 | <0.5 | 39 | 108 | 107 | 6.19 | 20 | 0.07 | <10 |
| I275544 | | <0.5 | 7.26 | <5 | 50 | <0.5 | <2 | 5.98 | <0.5 | 44 | 170 | 103 | 7.64 | 20 | 0.05 | <10 |
| I275545 | | <0.5 | 7.86 | 9 | 30 | <0.5 | 2 | 7.42 | <0.5 | 47 | 244 | 103 | 7.12 | 20 | 0.05 | <10 |
| I275546 | | <0.5 | 7.74 | <5 | 20 | <0.5 | <2 | 7.17 | <0.5 | 39 | 250 | 103 | 7.47 | 20 | 0.03 | <10 |
| I275547 | | <0.5 | 8.07 | 6 | 380 | <0.5 | <2 | 5.09 | <0.5 | 44 | 289 | 106 | 6.01 | 10 | 0.76 | <10 |
| I275548 | | <0.5 | 7.75 | <5 | 70 | <0.5 | <2 | 6.63 | 0.6 | 46 | 237 | 105 | 7.64 | 20 | 0.04 | <10 |
| I275549 | | <0.5 | 6.16 | 7 | 130 | <0.5 | <2 | 5.96 | <0.5 | 39 | 66 | 56 | 8.89 | 20 | 0.20 | <10 |
| I275550 | | <0.5 | 8.25 | 26 | 30 | <0.5 | <2 | 7.68 | 0.5 | 48 | 237 | 108 | 7.47 | 20 | 0.04 | <10 |
| I275551 | | <0.5 | 7.65 | <5 | 270 | <0.5 | <2 | 5.53 | <0.5 | 43 | 217 | 106 | 6.17 | 20 | 0.60 | <10 |
| I275552 | | <0.5 | 6.97 | 8 | 80 | <0.5 | <2 | 4.31 | <0.5 | 27 | 76 | 46 | 5.12 | 20 | 0.15 | 10 |
| I275553 | | <0.5 | 5.76 | <5 | 70 | 0.5 | <2 | 5.69 | 0.7 | 44 | 19 | 61 | 8.77 | 20 | 0.16 | <10 |
| I275554 | | <0.5 | 6.74 | <5 | 60 | <0.5 | 2 | 4.92 | <0.5 | 38 | 89 | 93 | 8.63 | 20 | 0.12 | <10 |
| I275555 | | <0.5 | 6.48 | <5 | 80 | <0.5 | <2 | 5.55 | 0.5 | 42 | 105 | 88 | 9.82 | 20 | 0.46 | <10 |
| I275556 | | <0.5 | 6.46 | 13 | 110 | 0.5 | <2 | 5.80 | <0.5 | 45 | 19 | 79 | 10.60 | 20 | 0.27 | <10 |
| I275557 | | <0.5 | 7.75 | <5 | 80 | <0.5 | <2 | 5.78 | <0.5 | 44 | 181 | 128 | 6.73 | 20 | 0.11 | <10 |
| I275558 | | <0.5 | 7.10 | <5 | 50 | <0.5 | <2 | 6.02 | <0.5 | 31 | 122 | 84 | 5.68 | 20 | 0.08 | <10 |
| I275559 | | <0.5 | 7.98 | <5 | 30 | <0.5 | <2 | 8.64 | 0.7 | 39 | 134 | 76 | 8.85 | 20 | 0.03 | <10 |
| L174168 | | <0.5 | 7.05 | 24 | 3220 | 5.7 | <2 | 2.73 | <0.5 | 15 | 52 | 139 | 5.55 | 20 | 3.94 | 110 |
| L174169 | | <0.5 | 6.62 | 7 | 5020 | 1.8 | <2 | 2.26 | <0.5 | 21 | 35 | 60 | 4.92 | 20 | 4.31 | 60 |
| L174170 | | <0.5 | 7.53 | 45 | 6620 | 2.3 | <2 | 2.42 | <0.5 | 12 | 4 | 89 | 4.63 | 20 | 4.51 | 80 |
| L174820 | | <0.5 | 7.03 | 45 | 1350 | 1.4 | <2 | 2.71 | <0.5 | 19 | 84 | 26 | 3.32 | 20 | 1.65 | 30 |
| L174821 | | <0.5 | 7.07 | 11 | 1870 | 1.8 | <2 | 1.72 | <0.5 | 11 | 92 | 54 | 2.61 | 20 | 2.63 | 30 |
| L174822 | | 0.7 | 6.50 | 117 | 1210 | 1.5 | <2 | 2.62 | <0.5 | 15 | 96 | 9 | 3.42 | 20 | 3.05 | 40 |
| L174823 | | <0.5 | 5.58 | 8 | 2060 | 4.0 | <2 | 3.73 | <0.5 | 25 | 58 | 152 | 7.81 | 20 | 2.38 | 160 |
| L174824 | | <0.5 | 6.79 | 32 | 670 | 1.8 | <2 | 2.40 | <0.5 | 15 | 77 | 11 | 2.86 | 20 | 2.28 | 30 |
| L174825 | | <0.5 | 6.14 | 6 | 4280 | 1.6 | <2 | 2.53 | <0.5 | 8 | 60 | 14 | 2.90 | 20 | 2.93 | 30 |
| L174826 | | <0.5 | 6.46 | 23 | 560 | 1.3 | <2 | 3.54 | <0.5 | 34 | 169 | 47 | 5.71 | 20 | 1.24 | 20 |
| L174827 | | <0.5 | 6.67 | 9 | 310 | 1.0 | <2 | 2.73 | <0.5 | 20 | 170 | 48 | 5.35 | 20 | 1.40 | 10 |
| L174828 | | <0.5 | 6.37 | <5 | 1320 | 2.4 | <2 | 5.32 | <0.5 | 33 | 240 | 74 | 5.87 | 20 | 2.79 | 40 |
| L174829 | | <0.5 | 8.13 | 12 | 2820 | 6.7 | <2 | 1.47 | <0.5 | 13 | 28 | 134 | 4.63 | 30 | 2.56 | 130 |
| L174830 | | 1.5 | 6.63 | 24 | 440 | 1.5 | 3 | 2.21 | 0.9 | 16 | 98 | 12 | 4.23 | 20 | 2.14 | 30 |
| L174831 | | <0.5 | 6.17 | <5 | 590 | 1.9 | <2 | 2.12 | <0.5 | 29 | 126 | 2 | 2.95 | 10 | 2.48 | 20 |
| L174832 | | <0.5 | 6.59 | 7 | 320 | 1.1 | <2 | 2.53 | <0.5 | 21 | 245 | 67 | 4.24 | 20 | 0.85 | 20 |
| L174833 | | <0.5 | 7.24 | 15 | 1190 | 1.9 | <2 | 2.03 | <0.5 | 25 | 200 | 29 | 5.12 | 20 | 1.39 | 30 |
| L174834 | | <0.5 | 7.95 | 12 | 1560 | 1.8 | <2 | 1.19 | <0.5 | 22 | 137 | 5 | 4.51 | 20 | 3.56 | 60 |
| L174835 | | <0.5 | 6.78 | 6 | 3040 | 2.5 | <2 | 2.62 | <0.5 | 17 | 104 | 275 | 5.09 | 20 | 2.86 | 40 |
| L174836 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174837 | | <0.5 | 6.18 | 5 | 5000 | 4.7 | <2 | 5.56 | <0.5 | 24 | 60 | 122 | 6.53 | 20 | 3.80 | 150 |

***** 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 SD14042825

| 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 |
| I275541 | | 4.65 | 1840 | <1 | 1.50 | 110 | 220 | <2 | 0.01 | <5 | 40 | 120 | <20 | 0.46 | <10 | <10 |
| I275542 | | 3.12 | 1705 | <1 | 2.28 | 100 | 190 | <2 | 0.01 | <5 | 41 | 73 | <20 | 0.48 | <10 | <10 |
| I275543 | | 3.20 | 1110 | 1 | 2.14 | 59 | 310 | <2 | 0.13 | <5 | 38 | 78 | <20 | 0.58 | <10 | <10 |
| I275544 | | 4.21 | 1355 | <1 | 2.29 | 98 | 390 | <2 | 0.07 | <5 | 39 | 172 | <20 | 0.66 | <10 | <10 |
| I275545 | | 4.78 | 1435 | 1 | 1.00 | 110 | 210 | <2 | 0.08 | <5 | 40 | 201 | <20 | 0.45 | <10 | <10 |
| I275546 | | 4.25 | 1220 | <1 | 0.14 | 80 | 210 | <2 | 0.09 | <5 | 40 | 45 | <20 | 0.45 | 10 | <10 |
| I275547 | | 4.87 | 1200 | <1 | 2.13 | 90 | 200 | <2 | 0.04 | <5 | 40 | 83 | <20 | 0.45 | <10 | <10 |
| I275548 | | 4.54 | 1570 | <1 | 1.24 | 108 | 220 | <2 | 0.07 | <5 | 40 | 152 | <20 | 0.45 | <10 | <10 |
| I275549 | | 2.70 | 1560 | <1 | 2.56 | 54 | 1120 | <2 | 0.10 | <5 | 42 | 144 | <20 | 1.38 | <10 | <10 |
| I275550 | | 3.61 | 1565 | <1 | 1.45 | 116 | 220 | <2 | 0.06 | <5 | 43 | 212 | <20 | 0.47 | <10 | <10 |
| I275551 | | 4.67 | 1525 | <1 | 2.46 | 83 | 200 | <2 | 0.07 | <5 | 43 | 100 | <20 | 0.47 | <10 | <10 |
| I275552 | | 1.48 | 1420 | <1 | 3.94 | 45 | 980 | <2 | 0.16 | <5 | 21 | 56 | <20 | 0.78 | <10 | <10 |
| I275553 | | 2.54 | 1930 | 1 | 1.90 | 25 | 530 | <2 | 0.25 | <5 | 37 | 104 | <20 | 0.86 | <10 | <10 |
| I275554 | | 3.29 | 1325 | <1 | 2.21 | 59 | 550 | <2 | 0.12 | <5 | 36 | 111 | <20 | 0.86 | <10 | <10 |
| I275555 | | 2.43 | 1540 | <1 | 1.27 | 62 | 500 | <2 | 0.10 | <5 | 40 | 53 | <20 | 0.91 | <10 | <10 |
| I275556 | | 2.42 | 1830 | 1 | 1.16 | 29 | 630 | <2 | 0.13 | <5 | 46 | 156 | <20 | 1.06 | <10 | <10 |
| I275557 | | 4.30 | 1300 | <1 | 2.95 | 71 | 260 | <2 | 0.12 | <5 | 46 | 103 | <20 | 0.56 | 10 | <10 |
| I275558 | | 2.50 | 908 | <1 | 1.76 | 56 | 320 | <2 | 0.07 | <5 | 40 | 183 | <20 | 0.61 | <10 | <10 |
| I275559 | | 4.47 | 1425 | 1 | 0.81 | 71 | 330 | <2 | 0.07 | 7 | 45 | 237 | <20 | 0.66 | <10 | <10 |
| L174168 | | 1.21 | 1645 | <1 | 2.63 | 21 | 2980 | 47 | 0.02 | <5 | 12 | 1540 | 40 | 0.43 | <10 | <10 |
| L174169 | | 0.90 | 1065 | <1 | 2.56 | 15 | 2400 | 8 | 0.07 | <5 | 16 | 860 | <20 | 0.23 | <10 | <10 |
| L174170 | | 0.43 | 1685 | <1 | 0.14 | 2 | 1200 | 41 | 0.87 | <5 | 3 | 1525 | 30 | 0.46 | <10 | <10 |
| L174820 | | 1.32 | 842 | 1 | 3.70 | 47 | 1090 | 3 | 1.59 | <5 | 9 | 754 | <20 | 0.12 | <10 | <10 |
| L174821 | | 1.30 | 525 | <1 | 2.46 | 51 | 1070 | 5 | 0.06 | <5 | 9 | 609 | <20 | 0.19 | <10 | <10 |
| L174822 | | 1.36 | 746 | <1 | 1.45 | 61 | 1200 | 27 | 2.31 | <5 | 9 | 521 | <20 | 0.22 | <10 | 10 |
| L174823 | | 2.61 | 1950 | <1 | 1.38 | 27 | 5800 | 17 | 0.05 | <5 | 23 | 1345 | 40 | 0.50 | <10 | <10 |
| L174824 | | 1.29 | 1325 | <1 | 3.08 | 44 | 1080 | 10 | 1.93 | 5 | 8 | 273 | <20 | 0.21 | <10 | <10 |
| L174825 | | 1.32 | 636 | <1 | 2.06 | 35 | 1160 | 5 | 0.17 | <5 | 7 | 1160 | <20 | 0.22 | <10 | <10 |
| L174826 | | 2.92 | 1125 | 1 | 3.32 | 90 | 950 | 5 | 0.60 | <5 | 21 | 644 | <20 | 0.53 | <10 | <10 |
| L174827 | | 2.68 | 903 | <1 | 2.37 | 77 | 830 | <2 | 0.06 | <5 | 19 | 195 | <20 | 0.35 | <10 | <10 |
| L174828 | | 4.15 | 1010 | <1 | 1.84 | 104 | 2480 | 15 | 0.01 | <5 | 20 | 1120 | <20 | 0.46 | <10 | 10 |
| L174829 | | 1.59 | 621 | <1 | 4.42 | 21 | 3930 | 35 | 0.02 | <5 | 6 | 1080 | 40 | 0.46 | <10 | <10 |
| L174830 | | 1.48 | 1150 | 1 | 2.54 | 63 | 1050 | 145 | 2.95 | 5 | 9 | 488 | <20 | 0.13 | <10 | <10 |
| L174831 | | 1.18 | 728 | <1 | 1.84 | 66 | 660 | 2 | 0.10 | <5 | 12 | 176 | <20 | 0.24 | <10 | 10 |
| L174832 | | 2.58 | 672 | <1 | 3.22 | 124 | 950 | 2 | 0.01 | <5 | 15 | 256 | <20 | 0.35 | <10 | 10 |
| L174833 | | 1.86 | 983 | <1 | 3.29 | 105 | 1060 | 8 | 0.11 | <5 | 17 | 818 | <20 | 0.41 | <10 | <10 |
| L174834 | | 0.88 | 607 | <1 | 2.79 | 97 | 1060 | 6 | 0.07 | <5 | 9 | 249 | 20 | 0.25 | <10 | <10 |
| L174835 | | 1.28 | 1000 | <1 | 2.16 | 43 | 2090 | 3 | 0.12 | <5 | 16 | 197 | <20 | 0.31 | <10 | <10 |
| L174836 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174837 | | 2.61 | 1450 | <1 | 1.60 | 26 | 5450 | 16 | 0.19 | <5 | 16 | 3300 | 40 | 0.52 | <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 SD14042825

| 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 |
|---|---|---|---|---|
| I275541 | | 273 | <10 | 70 |
| I275542 | | 287 | <10 | 59 |
| I275543 | | 326 | <10 | 72 |
| I275544 | | 323 | <10 | 91 |
| I275545 | | 266 | <10 | 70 |
| I275546 | | 282 | <10 | 69 |
| I275547 | | 271 | <10 | 70 |
| I275548 | | 262 | <10 | 71 |
| I275549 | | 428 | <10 | 110 |
| I275550 | | 278 | <10 | 87 |
| I275551 | | 291 | <10 | 71 |
| I275552 | | 171 | <10 | 73 |
| I275553 | | 387 | <10 | 132 |
| I275554 | | 323 | <10 | 93 |
| I275555 | | 383 | <10 | 98 |
| I275556 | | 453 | <10 | 136 |
| I275557 | | 339 | <10 | 78 |
| I275558 | | 336 | <10 | 58 |
| I275559 | | 382 | <10 | 87 |
| L174168 | | 218 | <10 | 103 |
| L174169 | | 117 | <10 | 101 |
| L174170 | | 461 | 10 | 158 |
| L174820 | | 72 | <10 | 52 |
| L174821 | | 78 | <10 | 103 |
| L174822 | | 75 | <10 | 54 |
| L174823 | | 226 | <10 | 163 |
| L174824 | | 73 | <10 | 72 |
| L174825 | | 73 | <10 | 63 |
| L174826 | | 169 | <10 | 87 |
| L174827 | | 133 | <10 | 92 |
| L174828 | | 174 | <10 | 99 |
| L174829 | | 174 | <10 | 120 |
| L174830 | | 72 | <10 | 463 |
| L174831 | | 108 | <10 | 37 |
| L174832 | | 111 | <10 | 72 |
| L174833 | | 138 | <10 | 93 |
| L174834 | | 149 | <10 | 59 |
| L174835 | | 155 | <10 | 75 |
| L174836 | | NSS | NSS | NSS |
| L174837 | | 198 | <10 | 137 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L174838 | | <0.5 | 6.30 | 5 | 420 | 1.6 | <2 | 2.09 | <0.5 | 19 | 164 | 31 | 3.98 | 10 | 1.55 | 20 |
| L174839 | | <0.5 | 6.41 | 10 | 1860 | 5.2 | <2 | 4.84 | <0.5 | 21 | 88 | 123 | 6.72 | 20 | 3.98 | 130 |
| L174840 | | <0.5 | 7.19 | 13 | 3540 | 3.6 | <2 | 4.30 | <0.5 | 28 | 58 | 167 | 7.59 | 20 | 4.12 | 180 |
| L174841 | | <0.5 | 7.16 | 8 | 620 | 2.2 | <2 | 1.83 | <0.5 | 31 | 268 | 43 | 5.36 | 20 | 2.17 | 20 |
| L174842 | | <0.5 | 6.35 | 10 | 940 | 1.4 | <2 | 2.52 | <0.5 | 27 | 233 | 37 | 4.74 | 10 | 1.26 | 30 |
| L174843 | | <0.5 | 7.31 | 8 | 1250 | 2.2 | <2 | 1.88 | <0.5 | 21 | 180 | 62 | 4.97 | 20 | 2.34 | 50 |
| L174844 | | <0.5 | 6.65 | <5 | 740 | 1.7 | <2 | 1.28 | <0.5 | 16 | 120 | 27 | 4.00 | 20 | 1.66 | 30 |
| L174845 | | <0.5 | 6.64 | 8 | 2240 | 6.4 | <2 | 3.29 | <0.5 | 27 | 55 | 113 | 7.04 | 20 | 4.55 | 140 |
| L174846 | | <0.5 | 9.61 | <5 | 3400 | 4.8 | <2 | 1.11 | <0.5 | 9 | 6 | 56 | 3.47 | 20 | 4.67 | 70 |
| L174847 | | <0.5 | 6.66 | <5 | 1180 | 1.9 | <2 | 1.08 | <0.5 | 21 | 220 | 26 | 4.47 | 20 | 1.75 | 30 |
| L174848 | | <0.5 | 6.95 | 6 | 790 | 2.5 | <2 | 1.31 | <0.5 | 16 | 196 | 14 | 4.70 | 20 | 1.67 | 40 |
| L174849 | | <0.5 | 6.77 | 6 | 1500 | 5.5 | <2 | 3.36 | <0.5 | 21 | 56 | 117 | 5.96 | 20 | 4.33 | 120 |
| L174850 | | <0.5 | 5.55 | 10 | 2990 | 3.2 | <2 | 6.53 | <0.5 | 17 | 56 | 65 | 6.35 | 20 | 3.86 | 140 |
| L174851 | | <0.5 | 6.06 | 22 | 640 | 1.3 | <2 | 4.35 | <0.5 | 39 | 393 | 73 | 6.42 | 20 | 1.71 | 20 |
| L174852 | | 0.7 | 6.56 | 14 | 440 | 1.6 | <2 | 1.46 | <0.5 | 13 | 111 | 6 | 4.89 | 20 | 2.68 | 40 |
| L174853 | | <0.5 | 5.97 | <5 | 20 | <0.5 | <2 | 6.25 | <0.5 | 32 | 196 | 83 | 10.15 | 10 | 0.03 | <10 |
| L174854 | | <0.5 | 6.03 | 31 | 610 | 1.0 | <2 | 2.09 | <0.5 | 24 | 191 | 49 | 4.16 | 10 | 1.75 | 20 |
| L174855 | | <0.5 | 7.06 | 13 | 720 | 2.0 | <2 | 3.12 | <0.5 | 27 | 239 | 73 | 5.21 | 20 | 1.65 | 30 |
| L174856 | | <0.5 | 6.24 | 14 | 4510 | 5.8 | <2 | 4.01 | <0.5 | 34 | 51 | 121 | 5.68 | 20 | 4.00 | 120 |
| L174857 | | <0.5 | 6.69 | <5 | 870 | 1.4 | 3 | 2.00 | <0.5 | 21 | 207 | 35 | 4.65 | 20 | 1.30 | 20 |
| L174858 | | <0.5 | 6.25 | <5 | 760 | 1.1 | <2 | 2.33 | <0.5 | 22 | 208 | 97 | 4.47 | 20 | 1.86 | 20 |
| L174859 | | <0.5 | 6.98 | <5 | 2480 | 7.8 | <2 | 2.93 | <0.5 | 20 | 32 | 49 | 5.72 | 20 | 2.32 | 90 |
| L174860 | | <0.5 | 8.82 | 9 | 3470 | 4.5 | <2 | 1.69 | <0.5 | 13 | 34 | 50 | 3.72 | 20 | 3.63 | 70 |
| L174861 | | <0.5 | 7.21 | 9 | 1340 | 4.1 | <2 | 3.67 | <0.5 | 21 | 61 | 42 | 5.33 | 20 | 3.31 | 70 |
| L174862 | | <0.5 | 8.89 | <5 | 1710 | 4.1 | <2 | 1.47 | <0.5 | 18 | 13 | 41 | 4.62 | 20 | 4.41 | 60 |
| L174863 | | <0.5 | 9.20 | 9 | 3170 | 5.3 | <2 | 1.82 | <0.5 | 14 | 7 | 92 | 4.35 | 20 | 4.30 | 70 |
| L174864 | | <0.5 | 9.44 | 7 | 3290 | 5.6 | <2 | 1.90 | <0.5 | 14 | 7 | 97 | 4.53 | 20 | 4.48 | 70 |
| L174865 | | <0.5 | 6.44 | <5 | 3360 | 2.3 | <2 | 2.18 | <0.5 | 10 | 95 | 19 | 2.19 | 20 | 2.00 | 30 |
| L174866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174867 | | <0.5 | 6.41 | 7 | 1560 | 1.6 | <2 | 2.88 | <0.5 | 22 | 201 | 145 | 4.62 | 20 | 2.49 | 20 |

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

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

| 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 |
| L174838 | | 1.85 | 726 | <1 | 2.65 | 88 | 770 | 5 | 0.17 | <5 | 13 | 206 | <20 | 0.29 | <10 | <10 |
| L174839 | | 1.97 | 1265 | <1 | 2.07 | 31 | 5150 | 19 | 0.04 | <5 | 16 | 2060 | 30 | 0.49 | <10 | <10 |
| L174840 | | 2.01 | 1065 | <1 | 2.49 | 28 | 7410 | 41 | 0.14 | <5 | 14 | 1940 | 40 | 0.49 | <10 | <10 |
| L174841 | | 2.22 | 769 | <1 | 2.24 | 131 | 900 | 6 | 0.22 | <5 | 22 | 244 | <20 | 0.46 | <10 | <10 |
| L174842 | | 1.80 | 942 | <1 | 2.15 | 100 | 720 | <2 | 0.23 | <5 | 17 | 273 | <20 | 0.35 | <10 | 10 |
| L174843 | | 1.75 | 802 | <1 | 2.45 | 106 | 1200 | 6 | 0.04 | 5 | 14 | 274 | 20 | 0.38 | <10 | <10 |
| L174844 | | 1.42 | 786 | <1 | 2.73 | 72 | 620 | 4 | 0.02 | <5 | 12 | 210 | <20 | 0.27 | <10 | <10 |
| L174845 | | 2.29 | 1265 | <1 | 1.16 | 27 | 5040 | 22 | 0.04 | <5 | 17 | 1095 | 40 | 0.56 | <10 | <10 |
| L174846 | | 0.45 | 959 | <1 | 1.92 | 2 | 1120 | 24 | 0.02 | <5 | 3 | 1320 | 30 | 0.20 | <10 | <10 |
| L174847 | | 1.72 | 672 | <1 | 2.17 | 113 | 740 | 3 | 0.03 | <5 | 15 | 184 | <20 | 0.32 | <10 | <10 |
| L174848 | | 1.66 | 650 | <1 | 2.99 | 86 | 920 | 2 | 0.05 | <5 | 14 | 331 | <20 | 0.31 | <10 | <10 |
| L174849 | | 1.50 | 1095 | <1 | 1.84 | 27 | 4950 | 37 | 0.12 | <5 | 12 | 1090 | 30 | 0.51 | <10 | <10 |
| L174850 | | 2.02 | 1195 | <1 | 2.08 | 21 | 7420 | 17 | 0.04 | <5 | 17 | 2460 | 40 | 0.52 | <10 | <10 |
| L174851 | | 3.88 | 1155 | <1 | 2.58 | 208 | 1320 | 10 | 0.10 | <5 | 26 | 751 | <20 | 0.53 | <10 | 10 |
| L174852 | | 1.59 | 1435 | 1 | 1.59 | 58 | 1140 | 75 | 2.52 | 5 | 10 | 370 | <20 | 0.12 | 10 | <10 |
| L174853 | | 3.26 | 3340 | <1 | 0.65 | 70 | 160 | <2 | 0.06 | <5 | 31 | 38 | <20 | 0.36 | <10 | <10 |
| L174854 | | 1.40 | 778 | <1 | 1.98 | 90 | 630 | 7 | 0.17 | <5 | 16 | 287 | <20 | 0.24 | <10 | <10 |
| L174855 | | 1.93 | 1125 | <1 | 2.71 | 129 | 1050 | 13 | 0.27 | <5 | 15 | 301 | <20 | 0.40 | <10 | <10 |
| L174856 | | 2.01 | 1220 | <1 | 0.87 | 25 | 3420 | 40 | 0.17 | <5 | 12 | 1920 | 30 | 0.48 | <10 | <10 |
| L174857 | | 1.94 | 1005 | <1 | 2.68 | 109 | 760 | 5 | 0.02 | <5 | 16 | 229 | <20 | 0.37 | <10 | <10 |
| L174858 | | 1.81 | 738 | <1 | 2.14 | 103 | 720 | 5 | 0.22 | <5 | 16 | 196 | <20 | 0.23 | <10 | <10 |
| L174859 | | 1.04 | 1010 | <1 | 4.18 | 16 | 1870 | 12 | 1.33 | <5 | 9 | 1425 | 30 | 0.43 | <10 | <10 |
| L174860 | | 0.68 | 951 | <1 | 1.38 | 11 | 1490 | 31 | 0.29 | <5 | 8 | 1655 | 30 | 0.32 | <10 | <10 |
| L174861 | | 1.75 | 1160 | <1 | 2.78 | 18 | 2410 | 38 | 0.09 | <5 | 14 | 1030 | 20 | 0.44 | <10 | <10 |
| L174862 | | 0.77 | 940 | <1 | 2.75 | 5 | 2550 | 17 | 0.02 | <5 | 6 | 721 | 20 | 0.29 | <10 | <10 |
| L174863 | | 0.74 | 1100 | <1 | 3.44 | 3 | 1820 | 31 | 0.21 | <5 | 6 | 1460 | 30 | 0.26 | <10 | <10 |
| L174864 | | 0.76 | 1185 | <1 | 3.62 | 5 | 1880 | 38 | 0.21 | <5 | 6 | 1525 | 30 | 0.26 | <10 | <10 |
| L174865 | | 0.99 | 419 | <1 | 2.94 | 37 | 980 | 16 | 0.13 | <5 | 6 | 668 | <20 | 0.15 | <10 | <10 |
| L174866 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| L174867 | | 2.35 | 755 | 27 | 1.76 | 101 | 800 | 3 | 0.12 | <5 | 15 | 1485 | <20 | 0.24 | <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: 28-MAR-2014**
**Account: OSIKLI**

Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

| 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 |
|---|---|---|---|---|
| L174838 | | 112 | <10 | 93 |
| L174839 | | 223 | <10 | 108 |
| L174840 | | 254 | <10 | 153 |
| L174841 | | 174 | <10 | 109 |
| L174842 | | 128 | <10 | 110 |
| L174843 | | 152 | <10 | 92 |
| L174844 | | 105 | <10 | 78 |
| L174845 | | 236 | <10 | 160 |
| L174846 | | 80 | <10 | 106 |
| L174847 | | 131 | <10 | 103 |
| L174848 | | 133 | <10 | 97 |
| L174849 | | 227 | <10 | 128 |
| L174850 | | 179 | <10 | 67 |
| L174851 | | 186 | <10 | 113 |
| L174852 | | 78 | <10 | 183 |
| L174853 | | 205 | <10 | 65 |
| L174854 | | 111 | <10 | 69 |
| L174855 | | 140 | <10 | 96 |
| L174856 | | 216 | <10 | 93 |
| L174857 | | 134 | <10 | 102 |
| L174858 | | 128 | <10 | 85 |
| L174859 | | 214 | <10 | 55 |
| L174860 | | 113 | 10 | 100 |
| L174861 | | 245 | 10 | 80 |
| L174862 | | 120 | <10 | 134 |
| L174863 | | 121 | <10 | 145 |
| L174864 | | 129 | <10 | 152 |
| L174865 | | 47 | 10 | 88 |
| L174866 | | NSS | NSS | NSS |
| L174867 | | 112 | <10 | 34 |

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

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Project: KL_LITHO

# CERTIFICATE OF ANALYSIS SD14042825

## 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