ALS Canada Ltd.

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

To: **OSISKO HAMMOND REEF GOLD LTD.**
**1100, DE LA GAUCHETIÈRE OUEST, BUREAU 300**
**C.P. 211**
**MONTRÉAL QC H3B 2S2**


**Finalized Date: 9-SEP-2012**
**Account: OSIHRG**

# CERTIFICATE TB12198775

Project: HAMMOND REEF-EXPLORATION

P.O. No.:

This report is for 8 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 28-AUG-2012.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| SERGIO CATTALANI<br>ZORAN MADON<br>ANDREW STOKES | ANNE CHARLAND<br>ASSAYS REPOSITORY<br>BOB WARES | MIKE FELL<br>ADAM RICHARDSON |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| C-IR07 | Total Carbon (Leco) | LECO |
| S-IR08 | Total Sulphur (Leco) | LECO |
| ME-MS81 | 38 element fusion ICP-MS | ICP-MS |
| ME-MS42 | Up to 34 elements by ICP-MS | ICP-MS |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| Au-ICP21 | Au 30g FA ICP-AES Finish | ICP-AES |

To: **OSISKO HAMMOND REEF GOLD LTD.**
**ATTN: ANDREW STOKES**
**101 GOODWIN STREET**
**BOX 2020**
**ATIKOKAN ON P0T 1C0**

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.

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

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# CERTIFICATE OF ANALYSIS TB12198775

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-ICP21 Au ppm 0.001 | ME-ICP06 SiO2 % 0.01 | ME-ICP06 Al2O3 % 0.01 | ME-ICP06 Fe2O3 % 0.01 | ME-ICP06 CaO % 0.01 | ME-ICP06 MgO % 0.01 | ME-ICP06 Na2O % 0.01 | ME-ICP06 K2O % 0.01 | ME-ICP06 Cr2O3 % 0.01 | ME-ICP06 TiO2 % 0.01 | ME-ICP06 MnO % 0.01 | ME-ICP06 P2O5 % 0.01 | ME-ICP06 SrO % 0.01 | ME-ICP06 BaO % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L179245 | | 2.30 | 0.003 | 49.5 | 13.80 | 14.25 | 10.45 | 6.64 | 1.84 | 0.15 | 0.02 | 0.96 | 0.22 | 0.06 | 0.02 | <0.01 |
| L179246 | | 1.94 | 0.003 | 50.1 | 13.85 | 14.95 | 10.35 | 6.48 | 1.40 | 0.12 | 0.02 | 1.05 | 0.23 | 0.07 | 0.02 | <0.01 |
| L179247 | | 2.15 | 0.003 | 47.4 | 13.70 | 14.85 | 9.04 | 6.50 | 1.72 | 0.11 | 0.02 | 1.05 | 0.23 | 0.08 | 0.02 | <0.01 |
| L179248 | | 1.90 | 0.004 | 48.6 | 14.10 | 13.90 | 10.60 | 6.65 | 1.50 | 0.10 | 0.02 | 0.97 | 0.22 | 0.06 | 0.02 | <0.01 |
| L179249 | | 1.72 | 0.005 | 49.0 | 14.00 | 15.10 | 9.02 | 6.46 | 1.30 | 0.06 | 0.02 | 1.09 | 0.21 | 0.07 | 0.02 | <0.01 |
| L179250 | | 1.91 | 0.002 | 47.9 | 14.15 | 15.70 | 9.34 | 6.48 | 0.30 | 0.05 | 0.02 | 1.11 | 0.23 | 0.06 | 0.03 | <0.01 |
| L179251 | | 1.92 | 0.004 | 45.1 | 13.45 | 14.70 | 8.34 | 6.03 | 1.42 | 0.17 | 0.02 | 1.05 | 0.23 | 0.06 | 0.01 | 0.01 |
| L179252 | | 1.68 | 0.010 | 47.1 | 13.30 | 14.60 | 6.29 | 6.13 | 1.69 | 0.43 | 0.02 | 1.05 | 0.23 | 0.07 | 0.01 | 0.01 |

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Project: HAMMOND REEF-EXPLORATION

# CERTIFICATE OF ANALYSIS TB12198775

| Sample Description | Method | C-IR07 | S-IR08 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | C | S | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 |
| L179245 | | 0.09 | 0.16 | 33.6 | 8.5 | 200 | 0.15 | 3.35 | 2.15 | 0.84 | 17.1 | 2.83 | 1.6 | 0.74 | 2.9 | 0.34 |
| L179246 | | 0.08 | 0.12 | 21.2 | 9.0 | 210 | 0.09 | 3.60 | 2.33 | 0.91 | 17.4 | 3.21 | 1.8 | 0.82 | 3.1 | 0.36 |
| L179247 | | 0.92 | 0.04 | 33.8 | 7.2 | 200 | 0.08 | 3.50 | 2.17 | 0.83 | 18.4 | 2.91 | 1.6 | 0.77 | 2.8 | 0.34 |
| L179248 | | 0.11 | 0.04 | 21.0 | 6.6 | 220 | 0.20 | 3.22 | 2.02 | 0.74 | 18.2 | 2.75 | 1.5 | 0.71 | 2.5 | 0.31 |
| L179249 | | 0.31 | 0.11 | 19.6 | 7.7 | 200 | 0.18 | 3.71 | 2.26 | 0.93 | 19.3 | 3.11 | 1.8 | 0.81 | 2.9 | 0.35 |
| L179250 | | 0.38 | 0.01 | 8.8 | 7.3 | 180 | 0.01 | 3.46 | 2.19 | 0.83 | 18.4 | 3.03 | 1.7 | 0.78 | 2.7 | 0.34 |
| L179251 | | 1.37 | 0.12 | 52.4 | 7.4 | 160 | 0.11 | 3.37 | 2.07 | 0.82 | 17.7 | 2.82 | 1.7 | 0.75 | 2.8 | 0.33 |
| L179252 | | 1.35 | 0.08 | 115.5 | 7.0 | 180 | 0.24 | 3.33 | 2.11 | 0.67 | 17.7 | 2.52 | 1.6 | 0.73 | 2.7 | 0.33 |

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Project: HAMMOND REEF-EXPLORATION

# CERTIFICATE OF ANALYSIS TB12198775

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nb | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.2 | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 |
| L179245 | | 2.3 | 6.6 | 1.26 | 3.4 | 2.27 | <1 | 148.0 | 0.2 | 0.53 | 0.41 | <0.5 | 0.35 | 0.08 | 374 | <1 |
| L179246 | | 2.4 | 7.1 | 1.34 | 2.5 | 2.51 | 1 | 207 | 0.2 | 0.58 | 0.27 | <0.5 | 0.38 | 0.07 | 398 | <1 |
| L179247 | | 2.3 | 6.3 | 1.22 | 2.8 | 2.20 | 1 | 173.5 | 0.2 | 0.53 | 0.25 | <0.5 | 0.33 | 0.05 | 399 | 1 |
| L179248 | | 2.1 | 5.8 | 1.14 | 3.1 | 2.04 | <1 | 206 | 0.1 | 0.49 | 0.23 | <0.5 | 0.31 | 0.05 | 367 | <1 |
| L179249 | | 2.3 | 6.5 | 1.29 | 2.1 | 2.35 | 1 | 177.5 | 0.2 | 0.57 | 0.24 | <0.5 | 0.35 | 0.06 | 408 | <1 |
| L179250 | | 2.3 | 6.3 | 1.24 | 0.4 | 2.26 | 1 | 266 | 0.2 | 0.54 | 0.23 | <0.5 | 0.34 | 0.05 | 393 | <1 |
| L179251 | | 2.4 | 6.2 | 1.21 | 5.0 | 2.13 | <1 | 124.0 | 0.2 | 0.52 | 0.24 | <0.5 | 0.32 | 0.06 | 359 | <1 |
| L179252 | | 2.3 | 5.7 | 1.13 | 12.8 | 1.90 | <1 | 102.0 | 0.2 | 0.48 | 0.23 | <0.5 | 0.32 | 0.05 | 364 | 1 |

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# CERTIFICATE OF ANALYSIS TB12198775

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS42 | ME-MS42 | ME-MS42 | ME-MS42 | ME-MS42 | ME-MS42 | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Y | Yb | Zr | As | Bi | Hg | Sb | Se | Te | LOI | Total | Ag | Cd | Co | Cu |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | ppm | ppm |
| | LOR | 0.5 | 0.03 | 20 | 0.1 | 0.01 | 0.005 | 0.05 | 0.2 | 0.01 | 0.01 | 0.01 | 0.5 | 0.5 | 1 | 1 |
| L179245 | | 21.3 | 2.10 | 60 | 5.3 | 0.01 | <0.005 | <0.05 | 0.7 | 0.03 | 2.75 | 100.66 | <0.5 | 0.6 | 56 | 137 |
| L179246 | | 22.8 | 2.27 | 60 | 4.1 | 0.01 | 0.005 | 0.05 | 0.6 | 0.03 | 2.81 | 101.45 | <0.5 | 0.5 | 50 | 138 |
| L179247 | | 20.7 | 2.10 | 60 | 0.6 | 0.02 | 0.010 | <0.05 | 0.6 | 0.03 | 6.84 | 101.56 | <0.5 | 0.8 | 50 | 134 |
| L179248 | | 19.4 | 1.97 | 50 | 4.4 | 0.01 | <0.005 | 0.11 | 0.4 | 0.02 | 3.02 | 99.76 | <0.5 | 0.6 | 47 | 123 |
| L179249 | | 21.7 | 2.18 | 60 | 4.6 | 0.03 | 0.006 | 0.07 | 0.6 | 0.04 | 4.22 | 100.57 | <0.5 | 0.6 | 49 | 134 |
| L179250 | | 21.0 | 2.10 | 60 | 1.0 | 0.01 | 0.007 | 0.13 | 0.4 | 0.02 | 5.06 | 100.43 | <0.5 | 0.8 | 51 | 128 |
| L179251 | | 19.8 | 2.07 | 60 | 3.4 | 0.01 | 0.009 | 0.07 | 0.7 | 0.03 | 9.02 | 99.61 | <0.5 | 0.6 | 51 | 108 |
| L179252 | | 20.4 | 1.98 | 60 | 0.4 | 0.03 | 0.010 | <0.05 | 0.5 | 0.03 | 9.22 | 100.15 | <0.5 | 0.7 | 51 | 123 |

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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-4ACD81<br>Mo<br>ppm<br>1 | ME-4ACD81<br>Ni<br>ppm<br>1 | ME-4ACD81<br>Pb<br>ppm<br>2 | ME-4ACD81<br>Zn<br>ppm<br>2 |
|---|---|---|---|---|---|
| L179245 | | <1 | 109 | <2 | 99 |
| L179246 | | <1 | 137 | 2 | 97 |
| L179247 | | <1 | 82 | 2 | 108 |
| L179248 | | <1 | 96 | <2 | 93 |
| L179249 | | <1 | 83 | 4 | 108 |
| L179250 | | <1 | 85 | 6 | 103 |
| L179251 | | <1 | 79 | 2 | 105 |
| L179252 | | <1 | 78 | 2 | 103 |