ALS Canada Ltd.

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

To: **XSTRATA ZINC CANADA**
**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

# CERTIFICATE TB10164685

Project: SLD

P.O. No.: 546-005

This report is for 56 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 5-NOV-2010.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| LUCY POTTER | | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| PUL-32 | Pulverize 1000g to 85% < 75 um |
| BAG-01 | Bulk Master for Storage |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | 38 element fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |

To: **XSTRATA ZINC CANADA**
**ATTN: LUCY POTTER**
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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 TB10164685

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | ME-MS81 Ag ppm 1 | ME-MS81 Ba ppm 0.5 | ME-MS81 Ce ppm 0.5 | ME-MS81 Co ppm 0.5 | ME-MS81 Cr ppm 10 | ME-MS81 Cs ppm 0.01 | ME-MS81 Cu ppm 5 | ME-MS81 Dy ppm 0.05 | ME-MS81 Er ppm 0.03 | ME-MS81 Eu ppm 0.03 | ME-MS81 Ga ppm 0.1 | ME-MS81 Gd ppm 0.05 | ME-MS81 Hf ppm 0.2 | ME-MS81 Ho ppm 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106031 | | 0.96 | <1 | 303 | 93.1 | 3.5 | 10 | 0.53 | 90 | 10.45 | 6.59 | 1.47 | 19.2 | 10.30 | 9.9 | 2.25 |
| I106032 | | 0.94 | <1 | 194.0 | 91.6 | 0.9 | <10 | 0.55 | <5 | 10.80 | 6.89 | 1.89 | 18.3 | 11.05 | 10.2 | 2.27 |
| I106033 | | 0.88 | <1 | 274 | 92.0 | 1.7 | <10 | 0.46 | <5 | 11.10 | 6.88 | 1.22 | 20.1 | 10.80 | 10.8 | 2.35 |
| I106034 | | 0.84 | <1 | 337 | 86.8 | 1.5 | 10 | 0.61 | 17 | 9.27 | 5.69 | 1.71 | 18.6 | 9.19 | 9.8 | 1.96 |
| I106035 | | 0.77 | <1 | 229 | 74.8 | 8.2 | 10 | 0.18 | 11 | 8.73 | 5.54 | 1.65 | 19.1 | 8.05 | 8.2 | 1.84 |
| I106036 | | 0.82 | <1 | 228 | 66.9 | 11.6 | 10 | 0.18 | 28 | 6.83 | 4.41 | 1.34 | 17.9 | 6.76 | 7.7 | 1.41 |
| I106037 | | 0.90 | <1 | 255 | 80.2 | 5.4 | <10 | 0.54 | 16 | 7.05 | 4.23 | 1.14 | 17.4 | 7.53 | 7.7 | 1.44 |
| I106038 | | 0.85 | <1 | 9.1 | 29.3 | 19.5 | 10 | 0.01 | 79 | 4.24 | 2.82 | 0.82 | 14.0 | 3.94 | 5.7 | 0.90 |
| I106039 | | 0.76 | <1 | 205 | 39.0 | 28.3 | 70 | 0.33 | <5 | 3.65 | 2.13 | 0.97 | 17.4 | 4.07 | 3.0 | 0.77 |
| I106040 | | 0.59 | <1 | 1060 | 140.5 | 11.8 | 20 | 1.15 | 34 | 2.64 | 1.38 | 2.14 | 20.8 | 7.37 | 3.7 | 0.45 |
| I106041 | | 0.88 | <1 | 105.5 | 33.5 | 27.0 | 80 | 0.25 | <5 | 4.73 | 2.68 | 1.54 | 17.8 | 4.46 | 2.9 | 0.97 |
| I106042 | | 0.88 | <1 | 263 | 30.8 | 19.4 | 80 | 1.13 | 9 | 3.51 | 2.06 | 1.00 | 20.3 | 3.60 | 3.3 | 0.71 |
| I106043 | | 0.79 | <1 | 23.6 | 14.8 | 56.7 | 80 | 0.08 | 96 | 3.96 | 2.53 | 0.89 | 17.2 | 3.06 | 2.0 | 0.83 |
| I106044 | | 0.82 | <1 | 310 | 30.4 | 36.6 | 70 | 1.02 | 78 | 4.02 | 2.21 | 1.40 | 17.7 | 3.76 | 3.0 | 0.81 |
| I106045 | | 0.77 | <1 | 169.5 | 21.4 | 39.9 | 70 | 0.79 | 20 | 2.39 | 1.40 | 0.82 | 17.1 | 2.51 | 2.9 | 0.50 |
| I106046 | | 0.69 | <1 | 183.5 | 34.6 | 26.3 | 80 | 0.06 | 27 | 3.68 | 2.15 | 0.97 | 20.2 | 4.02 | 3.3 | 0.73 |
| I106047 | | 0.98 | <1 | 133.5 | 71.3 | 3.8 | <10 | 0.41 | 94 | 7.24 | 4.63 | 1.04 | 14.5 | 7.67 | 8.0 | 1.51 |
| I106048 | | 0.90 | <1 | 149.0 | 82.3 | 0.7 | <10 | 0.50 | <5 | 8.34 | 5.29 | 1.52 | 18.7 | 8.38 | 9.1 | 1.80 |
| I106049 | | 0.74 | <1 | 93.7 | 60.5 | 1.2 | <10 | 0.30 | 68 | 5.38 | 3.54 | 0.69 | 12.5 | 5.87 | 6.1 | 1.16 |
| I106050 | | 0.66 | <1 | 70.2 | 82.8 | 1.5 | 10 | 1.52 | <5 | 8.31 | 5.42 | 1.21 | 17.7 | 8.40 | 9.5 | 1.78 |
| I106051 | | 0.92 | <1 | 144.0 | 65.9 | 1.4 | <10 | 0.68 | <5 | 8.50 | 5.47 | 1.27 | 17.7 | 7.39 | 9.8 | 1.81 |
| I106052 | | 1.05 | <1 | 145.5 | 106.5 | 2.2 | <10 | 1.05 | 8 | 9.74 | 6.33 | 1.70 | 18.9 | 10.05 | 10.7 | 2.05 |
| I106053 | | 0.88 | <1 | 281 | 87.5 | 3.9 | <10 | 0.63 | <5 | 8.55 | 5.44 | 1.65 | 18.4 | 8.77 | 9.1 | 1.80 |
| I106054 | | 0.89 | <1 | 386 | 100.0 | 2.6 | 10 | 0.93 | 37 | 10.30 | 6.52 | 1.57 | 19.1 | 10.45 | 10.3 | 2.14 |
| I106131 | | 0.91 | <1 | 275 | 14.8 | 36.2 | 20 | 1.31 | 53 | 3.03 | 1.94 | 0.78 | 18.1 | 2.51 | 1.9 | 0.60 |
| I106132 | | 0.88 | <1 | 307 | 10.1 | 55.2 | 50 | 1.43 | 134 | 1.35 | 0.87 | 0.52 | 23.2 | 1.31 | 2.5 | 0.29 |
| I106133 | | 0.89 | <1 | 113.0 | 15.4 | 41.1 | 30 | 1.14 | 87 | 3.33 | 2.14 | 0.82 | 16.7 | 2.67 | 2.0 | 0.69 |
| I106134 | | 0.93 | <1 | 179.5 | 95.5 | 29.5 | 140 | 4.30 | 30 | 2.95 | 1.47 | 1.89 | 17.7 | 6.27 | 3.5 | 0.50 |
| I106135 | | 0.84 | <1 | 302 | 14.3 | 47.7 | 10 | 1.92 | 88 | 3.09 | 2.00 | 0.71 | 17.4 | 2.57 | 1.7 | 0.67 |
| I106136 | | 0.99 | <1 | 141.0 | 23.7 | 51.1 | 560 | 1.33 | 14 | 2.19 | 1.19 | 0.70 | 12.9 | 2.61 | 1.8 | 0.42 |
| I106137 | | 1.00 | <1 | 204 | 14.0 | 52.5 | 20 | 1.23 | 203 | 3.03 | 1.93 | 0.82 | 20.5 | 2.42 | 2.3 | 0.62 |
| I106138 | | 0.85 | <1 | 236 | 12.0 | 37.8 | 50 | 0.87 | 123 | 2.44 | 1.65 | 0.70 | 16.9 | 2.26 | 1.6 | 0.56 |
| I106139 | | 0.92 | <1 | 217 | 14.3 | 30.4 | 30 | 1.76 | 57 | 3.14 | 2.09 | 0.80 | 17.6 | 2.53 | 1.8 | 0.72 |
| I106140 | | 1.10 | <1 | 191.5 | 12.7 | 38.1 | 40 | 1.63 | 58 | 2.71 | 1.76 | 0.69 | 18.1 | 2.25 | 1.8 | 0.63 |
| I106141 | | 0.80 | <1 | 205 | 39.6 | 38.6 | 70 | 0.94 | 109 | 2.98 | 1.61 | 0.95 | 18.8 | 3.60 | 3.8 | 0.59 |
| I106142 | | 1.00 | <1 | 241 | 48.4 | 32.2 | 10 | 1.26 | 44 | 5.22 | 3.10 | 1.59 | 20.1 | 5.67 | 4.7 | 1.07 |
| I106143 | | 1.03 | <1 | 759 | 48.8 | 33.9 | 310 | 3.90 | 53 | 4.07 | 2.11 | 1.68 | 15.3 | 5.62 | 2.9 | 0.76 |
| I106144 | | 0.82 | <1 | 274 | 38.5 | 27.9 | 20 | 1.18 | 75 | 1.88 | 1.09 | 0.83 | 22.8 | 2.43 | 5.2 | 0.36 |
| I106145 | | 0.92 | <1 | 233 | 35.8 | 30.7 | 110 | 3.21 | 56 | 3.46 | 2.07 | 1.08 | 18.8 | 3.70 | 3.5 | 0.71 |
| I106146 | | 0.84 | 1 | 139.5 | 81.5 | 2.9 | 10 | 1.60 | 41 | 6.68 | 4.06 | 1.29 | 16.4 | 7.62 | 7.8 | 1.39 |

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**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method / Analyte / Units / LOR | ME-MS81 La ppm 0.5 | ME-MS81 Lu ppm 0.01 | ME-MS81 Mo ppm 2 | ME-MS81 Nb ppm 0.2 | ME-MS81 Nd ppm 0.1 | ME-MS81 Ni ppm 5 | ME-MS81 Pb ppm 5 | ME-MS81 Pr ppm 0.03 | ME-MS81 Rb ppm 0.2 | ME-MS81 Sm ppm 0.03 | ME-MS81 Sn ppm 1 | ME-MS81 Sr ppm 0.1 | ME-MS81 Ta ppm 0.1 | ME-MS81 Tb ppm 0.01 | ME-MS81 Th ppm 0.05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106031 | | 42.8 | 0.89 | <2 | 22.5 | 45.8 | <5 | 6 | 11.85 | 59.3 | 9.50 | 3 | 42.2 | 1.5 | 1.67 | 7.41 |
| I106032 | | 41.7 | 0.98 | 2 | 22.2 | 44.8 | <5 | 5 | 11.65 | 61.5 | 9.49 | 3 | 40.5 | 1.4 | 1.74 | 7.60 |
| I106033 | | 41.1 | 0.98 | <2 | 23.2 | 46.0 | <5 | <5 | 11.75 | 64.5 | 9.80 | 3 | 31.6 | 1.6 | 1.73 | 7.92 |
| I106034 | | 39.1 | 0.78 | 2 | 21.7 | 41.9 | <5 | 5 | 10.80 | 68.2 | 8.62 | 4 | 33.2 | 1.4 | 1.53 | 7.12 |
| I106035 | | 33.6 | 0.77 | 5 | 18.1 | 35.9 | 9 | <5 | 9.22 | 42.0 | 7.41 | 3 | 38.8 | 1.2 | 1.37 | 6.76 |
| I106036 | | 30.8 | 0.64 | 3 | 16.4 | 32.3 | 10 | 5 | 8.44 | 37.2 | 6.57 | 3 | 31.2 | 1.1 | 1.08 | 6.10 |
| I106037 | | 38.1 | 0.58 | 2 | 16.5 | 37.4 | <5 | 5 | 9.92 | 57.3 | 7.10 | 2 | 33.3 | 1.1 | 1.17 | 7.02 |
| I106038 | | 13.3 | 0.41 | 5 | 11.8 | 15.0 | 46 | <5 | 3.74 | 1.0 | 3.17 | 1 | 14.8 | 0.9 | 0.66 | 4.86 |
| I106039 | | 18.6 | 0.27 | <2 | 6.3 | 19.1 | 73 | <5 | 4.81 | 37.2 | 4.02 | 1 | 59.2 | 0.4 | 0.66 | 2.66 |
| I106040 | | 73.1 | 0.15 | <2 | 4.7 | 60.9 | 15 | 13 | 16.55 | 46.0 | 8.88 | 1 | 636 | 0.3 | 0.69 | 16.10 |
| I106041 | | 16.3 | 0.28 | <2 | 6.2 | 16.7 | 73 | 7 | 4.25 | 10.6 | 3.63 | <1 | 135.0 | 0.5 | 0.72 | 2.44 |
| I106042 | | 14.7 | 0.27 | <2 | 7.0 | 15.6 | 64 | 8 | 3.85 | 60.6 | 3.39 | 1 | 96.0 | 0.5 | 0.59 | 2.59 |
| I106043 | | 6.6 | 0.35 | <2 | 3.1 | 9.1 | 68 | <5 | 2.02 | 1.5 | 2.41 | <1 | 207 | 0.2 | 0.56 | 1.17 |
| I106044 | | 14.5 | 0.28 | <2 | 6.1 | 14.8 | 73 | 6 | 3.70 | 37.2 | 3.28 | 1 | 184.0 | 0.4 | 0.64 | 2.29 |
| I106045 | | 10.1 | 0.22 | <2 | 6.0 | 10.4 | 76 | 6 | 2.62 | 20.9 | 2.16 | 1 | 132.5 | 0.4 | 0.39 | 2.12 |
| I106046 | | 16.2 | 0.29 | <2 | 7.0 | 16.9 | 85 | 8 | 4.32 | 6.3 | 3.69 | 1 | 115.0 | 0.5 | 0.61 | 2.66 |
| I106047 | | 33.3 | 0.69 | 2 | 17.4 | 33.4 | <5 | <5 | 8.72 | 25.9 | 6.72 | 3 | 23.6 | 1.4 | 1.20 | 6.44 |
| I106048 | | 37.4 | 0.78 | <2 | 20.4 | 39.2 | <5 | <5 | 10.20 | 48.2 | 8.11 | 3 | 19.3 | 1.4 | 1.34 | 7.41 |
| I106049 | | 27.9 | 0.48 | <2 | 13.2 | 29.4 | <5 | 14 | 7.62 | 32.2 | 6.02 | 2 | 24.7 | 0.9 | 0.90 | 4.93 |
| I106050 | | 39.9 | 0.76 | <2 | 20.0 | 36.9 | 5 | 6 | 10.05 | 54.3 | 7.73 | 2 | 41.4 | 1.4 | 1.38 | 8.00 |
| I106051 | | 30.2 | 0.78 | <2 | 20.9 | 31.5 | <5 | <5 | 8.15 | 64.6 | 6.67 | 3 | 27.8 | 1.4 | 1.26 | 8.01 |
| I106052 | | 49.9 | 0.90 | 2 | 22.8 | 50.3 | <5 | <5 | 13.10 | 67.1 | 9.91 | 3 | 38.6 | 1.5 | 1.61 | 9.25 |
| I106053 | | 40.5 | 0.78 | 2 | 19.5 | 41.5 | 6 | 9 | 10.75 | 54.1 | 8.40 | 3 | 49.7 | 1.4 | 1.43 | 8.18 |
| I106054 | | 45.7 | 0.89 | 2 | 22.2 | 47.0 | <5 | 11 | 12.35 | 66.1 | 9.73 | 3 | 104.5 | 1.5 | 1.71 | 9.19 |
| I106131 | | 7.0 | 0.29 | <2 | 2.8 | 8.3 | 32 | <5 | 1.91 | 37.3 | 2.14 | 1 | 206 | 0.2 | 0.43 | 1.48 |
| I106132 | | 4.7 | 0.14 | <2 | 3.8 | 5.3 | 44 | 8 | 1.32 | 57.9 | 1.29 | 1 | 178.0 | 0.3 | 0.21 | 2.05 |
| I106133 | | 7.5 | 0.30 | <2 | 2.9 | 8.6 | 36 | <5 | 2.07 | 18.2 | 2.18 | 1 | 131.5 | 0.2 | 0.48 | 1.61 |
| I106134 | | 45.2 | 0.16 | <2 | 4.9 | 46.2 | 139 | <5 | 11.80 | 34.8 | 7.90 | 1 | 202 | 0.3 | 0.69 | 8.09 |
| I106135 | | 6.6 | 0.29 | <2 | 2.7 | 8.2 | 29 | <5 | 1.85 | 34.7 | 2.00 | 1 | 153.0 | 0.2 | 0.45 | 1.44 |
| I106136 | | 10.7 | 0.14 | <2 | 3.1 | 13.6 | 238 | <5 | 3.22 | 20.1 | 2.73 | 1 | 110.5 | 0.2 | 0.38 | 1.34 |
| I106137 | | 6.3 | 0.26 | <2 | 3.5 | 8.0 | 62 | <5 | 1.81 | 30.6 | 2.05 | 1 | 179.0 | 0.2 | 0.43 | 1.89 |
| I106138 | | 7.0 | 0.24 | <2 | 2.3 | 6.8 | 38 | <5 | 1.54 | 30.8 | 1.84 | 1 | 133.0 | 0.2 | 0.39 | 1.26 |
| I106139 | | 6.8 | 0.30 | <2 | 2.6 | 8.0 | 43 | <5 | 1.89 | 29.8 | 2.27 | 1 | 162.0 | 0.2 | 0.48 | 1.46 |
| I106140 | | 5.7 | 0.26 | <2 | 2.4 | 7.6 | 62 | 5 | 1.69 | 30.9 | 1.98 | 1 | 176.0 | 0.2 | 0.41 | 1.24 |
| I106141 | | 19.8 | 0.25 | <2 | 5.6 | 17.9 | 61 | 7 | 4.60 | 34.1 | 3.45 | 1 | 105.0 | 0.4 | 0.52 | 2.82 |
| I106142 | | 20.8 | 0.42 | <2 | 9.0 | 25.7 | 31 | 8 | 6.20 | 19.1 | 5.38 | 1 | 188.5 | 0.6 | 0.89 | 2.53 |
| I106143 | | 22.4 | 0.27 | <2 | 4.6 | 27.3 | 101 | 9 | 6.33 | 36.5 | 6.06 | 1 | 392 | 0.3 | 0.77 | 3.64 |
| I106144 | | 21.7 | 0.15 | <2 | 6.3 | 15.0 | 16 | 10 | 4.09 | 59.5 | 2.55 | 1 | 148.5 | 0.6 | 0.35 | 3.74 |
| I106145 | | 16.8 | 0.32 | <2 | 6.1 | 17.3 | 48 | 16 | 4.40 | 29.1 | 3.44 | 1 | 250 | 0.4 | 0.56 | 2.45 |
| I106146 | | 38.6 | 0.57 | 2 | 14.3 | 36.7 | 7 | 86 | 9.62 | 38.3 | 7.52 | 2 | 159.0 | 1.2 | 1.15 | 7.70 |

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# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method / Analyte / Units / LOR | ME-MS81 Tl ppm 0.5 | ME-MS81 Tm ppm 0.01 | ME-MS81 U ppm 0.05 | ME-MS81 V ppm 5 | ME-MS81 W ppm 1 | ME-MS81 Y ppm 0.5 | ME-MS81 Yb ppm 0.03 | ME-MS81 Zn ppm 5 | ME-MS81 Zr ppm 2 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I106031 | | <0.5 | 0.93 | 1.63 | <5 | 1 | 58.4 | 6.23 | 163 | 371 | 74.7 | 10.20 | 4.39 | 0.05 | 1.89 | 0.13 |
| I106032 | | <0.5 | 1.02 | 1.75 | <5 | 1 | 58.8 | 6.64 | 183 | 376 | 72.4 | 10.30 | 5.73 | 0.68 | 2.87 | 0.14 |
| I106033 | | <0.5 | 1.01 | 1.74 | <5 | 1 | 59.9 | 6.43 | 130 | 393 | 74.5 | 10.75 | 3.76 | 0.08 | 1.90 | 0.11 |
| I106034 | | <0.5 | 0.86 | 1.43 | <5 | 1 | 51.0 | 5.42 | 105 | 373 | 74.7 | 9.93 | 4.57 | 0.12 | 1.86 | 0.09 |
| I106035 | | <0.5 | 0.84 | 1.87 | 75 | 1 | 49.0 | 5.32 | 354 | 304 | 66.0 | 11.55 | 8.06 | 0.46 | 2.91 | 0.08 |
| I106036 | | <0.5 | 0.67 | 1.76 | 85 | 1 | 37.8 | 4.48 | 947 | 283 | 66.7 | 11.30 | 8.48 | 0.13 | 3.02 | 0.07 |
| I106037 | | <0.5 | 0.62 | 1.58 | 5 | 2 | 39.1 | 4.04 | 198 | 297 | 69.0 | 11.25 | 6.52 | 0.16 | 3.21 | 0.11 |
| I106038 | | <0.5 | 0.41 | 1.19 | 72 | 1 | 23.0 | 2.67 | 428 | 215 | 68.2 | 9.38 | 10.35 | 0.93 | 3.66 | 0.07 |
| I106039 | | <0.5 | 0.29 | 0.51 | 145 | 1 | 19.2 | 1.86 | 193 | 108 | 53.9 | 15.75 | 8.06 | 4.21 | 6.22 | 0.67 |
| I106040 | | <0.5 | 0.16 | 2.85 | 68 | <1 | 11.9 | 1.03 | 75 | 131 | 62.0 | 14.95 | 5.57 | 6.83 | 1.77 | 2.72 |
| I106041 | | <0.5 | 0.36 | 0.64 | 141 | 1 | 24.6 | 2.03 | 144 | 105 | 55.0 | 15.75 | 8.62 | 7.74 | 5.20 | 1.60 |
| I106042 | | <0.5 | 0.30 | 0.49 | 158 | <1 | 18.9 | 1.84 | 222 | 118 | 56.6 | 17.25 | 9.42 | 6.46 | 3.58 | 0.85 |
| I106043 | | <0.5 | 0.38 | 0.28 | 265 | <1 | 21.8 | 2.46 | 122 | 62 | 45.7 | 12.70 | 15.20 | 9.82 | 5.22 | 1.91 |
| I106044 | | <0.5 | 0.31 | 0.63 | 137 | 1 | 20.7 | 1.76 | 110 | 105 | 55.6 | 15.40 | 8.09 | 7.41 | 4.14 | 1.67 |
| I106045 | | <0.5 | 0.21 | 0.41 | 141 | <1 | 12.4 | 1.40 | 162 | 102 | 54.1 | 15.40 | 8.32 | 7.58 | 4.16 | 1.64 |
| I106046 | | <0.5 | 0.31 | 0.54 | 163 | 1 | 19.3 | 1.96 | 225 | 119 | 58.4 | 17.45 | 9.14 | 4.07 | 2.92 | 1.91 |
| I106047 | | <0.5 | 0.68 | 1.44 | <5 | 1 | 39.3 | 4.57 | 299 | 294 | 72.8 | 8.58 | 7.63 | 0.71 | 2.62 | 0.13 |
| I106048 | | <0.5 | 0.79 | 1.62 | <5 | 1 | 45.6 | 5.27 | 54 | 339 | 73.0 | 10.40 | 4.23 | 0.08 | 3.21 | 0.15 |
| I106049 | | <0.5 | 0.51 | 1.15 | <5 | 1 | 29.6 | 3.12 | 95 | 223 | 84.0 | 6.71 | 2.30 | 0.01 | 1.21 | 0.15 |
| I106050 | | <0.5 | 0.80 | 1.72 | <5 | 1 | 45.5 | 5.05 | 202 | 345 | 70.8 | 10.65 | 6.36 | 1.12 | 4.11 | 0.26 |
| I106051 | | <0.5 | 0.82 | 1.78 | <5 | 1 | 46.8 | 5.40 | 143 | 386 | 72.7 | 11.15 | 4.17 | 0.10 | 2.74 | 0.16 |
| I106052 | | <0.5 | 0.91 | 1.99 | <5 | 1 | 53.7 | 6.26 | 116 | 405 | 67.9 | 11.35 | 5.55 | 0.44 | 4.40 | 0.29 |
| I106053 | | <0.5 | 0.80 | 1.84 | 22 | 1 | 48.0 | 5.08 | 71 | 344 | 71.9 | 11.35 | 3.61 | 0.21 | 2.58 | 0.24 |
| I106054 | | <0.5 | 0.95 | 2.02 | <5 | 1 | 56.8 | 5.98 | 70 | 390 | 73.0 | 10.80 | 4.14 | 1.24 | 1.98 | 0.35 |
| I106131 | | <0.5 | 0.26 | 0.38 | 285 | 2 | 15.6 | 1.86 | 71 | 60 | 55.4 | 14.70 | 9.50 | 7.40 | 2.53 | 2.42 |
| I106132 | | <0.5 | 0.14 | 0.51 | 294 | 1 | 6.8 | 0.87 | 43 | 81 | 61.4 | 19.15 | 3.51 | 4.47 | 1.76 | 3.36 |
| I106133 | | <0.5 | 0.31 | 0.37 | 245 | <1 | 18.2 | 2.00 | 100 | 62 | 53.8 | 13.85 | 10.05 | 7.15 | 3.81 | 2.41 |
| I106134 | | <0.5 | 0.18 | 1.62 | 139 | <1 | 13.4 | 1.16 | 74 | 119 | 48.9 | 13.90 | 7.06 | 8.55 | 5.03 | 4.20 |
| I106135 | | <0.5 | 0.31 | 0.36 | 262 | 1 | 16.6 | 2.06 | 61 | 58 | 48.8 | 14.15 | 9.70 | 10.20 | 2.63 | 2.08 |
| I106136 | | <0.5 | 0.16 | 0.39 | 107 | 2 | 11.2 | 1.00 | 127 | 60 | 40.8 | 10.75 | 9.75 | 10.45 | 9.48 | 0.57 |
| I106137 | | <0.5 | 0.27 | 0.47 | 269 | <1 | 16.3 | 1.84 | 50 | 75 | 58.7 | 17.35 | 5.12 | 7.45 | 1.23 | 3.43 |
| I106138 | | <0.5 | 0.24 | 0.27 | 235 | <1 | 13.6 | 1.55 | 74 | 49 | 49.7 | 15.25 | 10.45 | 8.37 | 3.50 | 2.36 |
| I106139 | | <0.5 | 0.31 | 0.35 | 268 | <1 | 18.2 | 1.98 | 74 | 57 | 47.7 | 14.95 | 10.75 | 9.52 | 2.93 | 2.55 |
| I106140 | | <0.5 | 0.26 | 0.31 | 250 | 1 | 14.5 | 1.72 | 54 | 58 | 53.7 | 17.40 | 8.79 | 7.18 | 2.17 | 2.95 |
| I106141 | | <0.5 | 0.24 | 0.68 | 93 | <1 | 14.7 | 1.55 | 51 | 142 | 69.4 | 14.70 | 5.49 | 0.46 | 0.76 | 1.31 |
| I106142 | | <0.5 | 0.40 | 0.43 | 184 | <1 | 25.8 | 2.74 | 93 | 170 | 50.9 | 14.95 | 14.45 | 4.95 | 1.78 | 3.69 |
| I106143 | | <0.5 | 0.28 | 0.95 | 173 | 1 | 19.7 | 1.71 | 134 | 102 | 44.3 | 12.25 | 8.97 | 8.49 | 6.71 | 3.71 |
| I106144 | | 0.7 | 0.15 | 1.02 | 25 | <1 | 11.0 | 0.98 | 32 | 196 | 63.3 | 17.05 | 5.51 | 3.42 | 0.81 | 1.76 |
| I106145 | | 0.5 | 0.30 | 0.50 | 162 | <1 | 18.1 | 1.90 | 86 | 129 | 53.3 | 16.75 | 12.65 | 4.71 | 1.43 | 2.68 |
| I106146 | | 2.1 | 0.58 | 1.84 | <5 | <1 | 37.4 | 3.68 | 417 | 285 | 65.6 | 11.20 | 4.76 | 6.34 | 3.10 | 1.28 |

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

To: **XSTRATA ZINC CANADA**
**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | OA-GRA05 | TOT-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO | LOI | Total |
| | Units | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| I106031 | | 2.52 | <0.01 | 0.21 | 0.09 | 0.01 | <0.01 | 0.04 | 2.10 | 96.3 |
| I106032 | | 2.25 | <0.01 | 0.20 | 0.23 | 0.01 | <0.01 | 0.02 | 2.19 | 97.0 |
| I106033 | | 2.63 | <0.01 | 0.21 | 0.08 | 0.01 | <0.01 | 0.03 | 1.98 | 96.0 |
| I106034 | | 2.67 | <0.01 | 0.20 | 0.18 | <0.01 | <0.01 | 0.04 | 2.18 | 96.5 |
| I106035 | | 2.08 | <0.01 | 0.61 | 0.22 | 0.08 | <0.01 | 0.03 | 3.35 | 95.4 |
| I106036 | | 1.86 | <0.01 | 0.63 | 0.18 | 0.08 | <0.01 | 0.03 | 2.58 | 95.1 |
| I106037 | | 2.29 | <0.01 | 0.50 | 0.10 | 0.07 | <0.01 | 0.03 | 2.43 | 95.7 |
| I106038 | | 0.04 | <0.01 | 0.87 | 0.15 | 0.21 | <0.01 | <0.01 | 2.70 | 96.6 |
| I106039 | | 1.78 | 0.01 | 0.82 | 0.14 | 0.12 | 0.01 | 0.02 | 7.71 | 99.4 |
| I106040 | | 1.84 | <0.01 | 0.60 | 0.09 | 0.24 | 0.07 | 0.13 | 3.44 | 100.5 |
| I106041 | | 0.45 | 0.01 | 0.82 | 0.16 | 0.13 | 0.01 | 0.01 | 5.90 | 101.5 |
| I106042 | | 2.50 | 0.01 | 0.90 | 0.13 | 0.15 | 0.01 | 0.03 | 1.59 | 99.5 |
| I106043 | | 0.11 | 0.01 | 1.07 | 0.23 | 0.09 | 0.02 | <0.01 | 7.70 | 99.8 |
| I106044 | | 1.40 | 0.01 | 0.82 | 0.11 | 0.13 | 0.02 | 0.04 | 4.62 | 99.5 |
| I106045 | | 0.71 | 0.01 | 0.80 | 0.17 | 0.11 | 0.02 | 0.02 | 5.36 | 98.4 |
| I106046 | | 0.65 | 0.01 | 0.90 | 0.16 | 0.15 | 0.01 | 0.02 | 2.59 | 98.4 |
| I106047 | | 0.99 | <0.01 | 0.16 | 0.19 | 0.01 | <0.01 | 0.01 | 3.69 | 97.5 |
| I106048 | | 1.78 | <0.01 | 0.21 | 0.09 | 0.01 | <0.01 | 0.02 | 3.20 | 96.4 |
| I106049 | | 1.20 | <0.01 | 0.12 | 0.04 | 0.01 | <0.01 | 0.01 | 1.69 | 97.5 |
| I106050 | | 1.42 | <0.01 | 0.21 | 0.16 | 0.02 | <0.01 | 0.01 | 2.69 | 97.8 |
| I106051 | | 2.36 | <0.01 | 0.23 | 0.10 | 0.02 | <0.01 | 0.02 | 2.58 | 96.3 |
| I106052 | | 2.08 | <0.01 | 0.28 | 0.11 | 0.02 | <0.01 | 0.02 | 3.39 | 95.8 |
| I106053 | | 2.54 | <0.01 | 0.35 | 0.08 | 0.05 | 0.01 | 0.03 | 2.77 | 95.7 |
| I106054 | | 2.52 | <0.01 | 0.25 | 0.09 | 0.01 | 0.01 | 0.05 | 1.99 | 96.4 |
| I106131 | | 1.02 | <0.01 | 0.87 | 0.26 | 0.07 | 0.02 | 0.03 | 6.05 | 100.5 |
| I106132 | | 1.74 | 0.01 | 1.09 | 0.05 | 0.02 | 0.02 | 0.04 | 2.79 | 99.4 |
| I106133 | | 0.50 | 0.01 | 0.79 | 0.22 | 0.08 | 0.01 | 0.01 | 7.76 | 100.5 |
| I106134 | | 0.87 | 0.02 | 0.56 | 0.12 | 0.26 | 0.02 | 0.02 | 10.15 | 99.7 |
| I106135 | | 1.00 | <0.01 | 0.84 | 0.24 | 0.07 | 0.02 | 0.04 | 11.30 | 101.0 |
| I106136 | | 0.64 | 0.08 | 0.51 | 0.21 | 0.13 | 0.01 | 0.02 | 17.15 | 100.5 |
| I106137 | | 0.94 | <0.01 | 1.00 | 0.18 | 0.09 | 0.02 | 0.02 | 4.39 | 99.9 |
| I106138 | | 0.89 | 0.01 | 0.70 | 0.19 | 0.05 | 0.01 | 0.03 | 8.47 | 100.0 |
| I106139 | | 0.94 | 0.01 | 0.79 | 0.21 | 0.06 | 0.02 | 0.02 | 9.88 | 100.5 |
| I106140 | | 1.15 | 0.01 | 0.81 | 0.22 | 0.08 | 0.02 | 0.02 | 5.89 | 100.5 |
| I106141 | | 1.49 | 0.01 | 0.65 | 0.10 | 0.13 | 0.01 | 0.02 | 1.89 | 96.4 |
| I106142 | | 0.74 | <0.01 | 1.42 | 0.43 | 0.33 | 0.02 | 0.03 | 5.86 | 99.6 |
| I106143 | | 1.04 | 0.05 | 0.81 | 0.20 | 0.27 | 0.05 | 0.09 | 12.60 | 99.5 |
| I106144 | | 2.88 | <0.01 | 0.45 | 0.08 | 0.09 | 0.02 | 0.03 | 2.47 | 97.9 |
| I106145 | | 1.30 | 0.02 | 0.91 | 0.43 | 0.16 | 0.03 | 0.03 | 4.78 | 99.2 |
| I106146 | | 1.32 | <0.01 | 0.22 | 0.15 | 0.02 | 0.02 | 0.02 | 7.07 | 101.0 |

ALS Canada Ltd.

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

To: **XSTRATA ZINC CANADA**
**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method | WEI-21 | 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 | Recvd Wt. | Ag | Ba | Ce | Co | Cr | Cs | Cu | Dy | Er | Eu | Ga | Gd | Hf | Ho |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 1 | 0.5 | 0.5 | 0.5 | 10 | 0.01 | 5 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 |
| I106147 | | 0.87 | <1 | 172.0 | 50.9 | 3.9 | 10 | 2.45 | <5 | 5.22 | 3.18 | 1.31 | 13.7 | 5.43 | 6.7 | 1.10 |
| I106148 | | 0.83 | <1 | 256 | 51.9 | 38.0 | 10 | 2.00 | 38 | 5.79 | 3.46 | 1.64 | 20.4 | 6.24 | 4.9 | 1.20 |
| I106149 | | 0.78 | <1 | 210 | 65.6 | 5.2 | <10 | 0.65 | 5 | 7.25 | 4.54 | 1.43 | 17.7 | 7.14 | 11.6 | 1.53 |
| I106150 | | 0.92 | <1 | 178.5 | 41.4 | 30.2 | 10 | 1.07 | 6 | 5.26 | 3.23 | 1.26 | 17.9 | 5.07 | 4.0 | 1.07 |
| I106151 | | 0.77 | <1 | 166.0 | 52.7 | 3.0 | 10 | 0.42 | <5 | 5.53 | 3.67 | 0.90 | 12.1 | 4.94 | 7.0 | 1.20 |
| I106152 | | 0.97 | <1 | 162.0 | 37.4 | 28.3 | 10 | 1.70 | 27 | 4.46 | 2.77 | 1.32 | 15.4 | 4.37 | 3.6 | 0.94 |
| I106153 | | 0.90 | <1 | 208 | 52.2 | 21.0 | 10 | 0.51 | <5 | 5.76 | 3.37 | 1.67 | 22.1 | 6.12 | 5.1 | 1.21 |
| I106154 | | 0.86 | <1 | 259 | 77.8 | 3.1 | <10 | 1.13 | <5 | 7.40 | 4.80 | 1.32 | 14.2 | 7.88 | 9.1 | 1.59 |
| I106155 | | 0.93 | <1 | 263 | 30.6 | 137.0 | 590 | 1.26 | 105 | 3.07 | 1.79 | 0.92 | 19.8 | 3.16 | 3.0 | 0.62 |
| I106156 | | 0.93 | <1 | 601 | 115.5 | 3.2 | 10 | 1.34 | 14 | 11.15 | 6.57 | 2.16 | 20.3 | 11.50 | 12.4 | 2.27 |
| I106157 | | 0.77 | <1 | 112.0 | 87.9 | 3.0 | 10 | 0.57 | <5 | 8.03 | 4.75 | 1.94 | 17.4 | 8.67 | 8.6 | 1.64 |
| I106158 | | 0.79 | <1 | 359 | 92.1 | 1.5 | 10 | 0.61 | 8 | 7.99 | 5.06 | 1.74 | 19.4 | 8.18 | 11.7 | 1.66 |
| I106159 | | 0.96 | <1 | 438 | 117.5 | 1.3 | <10 | 1.78 | 12 | 10.75 | 7.00 | 1.97 | 21.2 | 10.55 | 14.4 | 2.28 |
| I106160 | | 0.81 | <1 | 156.5 | 83.0 | 2.7 | <10 | 1.50 | <5 | 8.02 | 5.12 | 1.67 | 18.4 | 8.57 | 9.6 | 1.72 |
| I106161 | | 0.87 | <1 | 91.4 | 28.2 | 7.2 | 10 | 0.36 | <5 | 1.74 | 0.95 | 0.62 | 20.7 | 2.32 | 4.4 | 0.34 |
| I106162 | | 0.95 | <1 | 572 | 130.5 | 2.1 | 10 | 1.21 | <5 | 11.60 | 7.25 | 3.15 | 26.0 | 13.00 | 14.0 | 2.42 |

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

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**8801 TRANS CANADA HWY**
**SUITE 400**
**SAINT-LAURENT QC H4S 1Z6**


**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| 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 | La | Lu | Mo | Nb | Nd | Ni | Pb | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.5 | 0.01 | 2 | 0.2 | 0.1 | 5 | 5 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 |
| I106147 | | 23.9 | 0.45 | <2 | 12.3 | 24.8 | 10 | 19 | 6.22 | 36.3 | 5.37 | 1 | 130.0 | 0.8 | 0.86 | 3.98 |
| I106148 | | 22.4 | 0.49 | <2 | 9.2 | 28.3 | 43 | 16 | 6.81 | 38.6 | 5.77 | 2 | 177.5 | 0.6 | 0.96 | 2.68 |
| I106149 | | 30.3 | 0.72 | 3 | 17.7 | 32.3 | 10 | 18 | 8.09 | 27.7 | 6.72 | 2 | 84.3 | 1.2 | 1.17 | 6.43 |
| I106150 | | 18.3 | 0.47 | 2 | 8.0 | 22.3 | 36 | <5 | 5.36 | 17.7 | 4.73 | 1 | 118.0 | 0.5 | 0.85 | 2.24 |
| I106151 | | 23.8 | 0.59 | <2 | 14.1 | 24.4 | 5 | <5 | 6.36 | 30.7 | 4.93 | 1 | 42.3 | 1.0 | 0.86 | 5.54 |
| I106152 | | 16.6 | 0.41 | <2 | 6.6 | 20.1 | 31 | <5 | 4.82 | 19.1 | 4.22 | 1 | 128.5 | 0.4 | 0.70 | 1.89 |
| I106153 | | 22.7 | 0.49 | <2 | 9.8 | 28.0 | 21 | 15 | 6.78 | 23.0 | 5.91 | 2 | 249 | 0.7 | 0.96 | 2.74 |
| I106154 | | 35.9 | 0.73 | 2 | 15.6 | 38.5 | <5 | 13 | 9.63 | 53.5 | 7.69 | 2 | 61.4 | 1.1 | 1.23 | 6.43 |
| I106155 | | 14.2 | 0.26 | <2 | 5.4 | 15.8 | 358 | 44 | 3.81 | 92.3 | 3.24 | 1 | 156.0 | 0.3 | 0.51 | 1.58 |
| I106156 | | 53.9 | 0.97 | <2 | 21.5 | 55.0 | 9 | 10 | 13.95 | 78.7 | 11.20 | 3 | 115.0 | 1.6 | 1.84 | 8.92 |
| I106157 | | 40.9 | 0.69 | <2 | 18.1 | 41.2 | <5 | 13 | 10.75 | 21.6 | 8.30 | 3 | 172.0 | 1.2 | 1.36 | 6.95 |
| I106158 | | 43.2 | 0.78 | <2 | 19.6 | 43.3 | <5 | 9 | 11.05 | 25.8 | 8.49 | 3 | 203 | 1.4 | 1.33 | 7.75 |
| I106159 | | 56.2 | 1.06 | 2 | 26.0 | 49.9 | <5 | 8 | 13.50 | 80.6 | 9.52 | 4 | 89.3 | 1.9 | 1.76 | 10.00 |
| I106160 | | 38.2 | 0.78 | <2 | 18.4 | 40.6 | <5 | 9 | 10.30 | 56.2 | 8.59 | 3 | 94.7 | 1.3 | 1.34 | 6.77 |
| I106161 | | 13.2 | 0.13 | <2 | 7.4 | 12.4 | 8 | 5 | 3.25 | 24.1 | 2.23 | 1 | 79.3 | 0.6 | 0.30 | 2.59 |
| I106162 | | 59.6 | 1.08 | 3 | 27.3 | 64.4 | <5 | 11 | 16.50 | 112.5 | 13.20 | 5 | 102.0 | 1.9 | 1.98 | 11.05 |

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**Finalized Date: 16-NOV-2010**
**Account: XSZNEX**

Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Tl | Tm | U | V | W | Y | Yb | Zn | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % |
| | LOR | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 | 0.03 | 5 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| I106147 | | 1.6 | 0.46 | 1.01 | 19 | <1 | 28.4 | 2.97 | 49 | 260 | 77.9 | 8.60 | 4.19 | 2.07 | 1.08 | 1.06 |
| I106148 | | 0.9 | 0.48 | 0.62 | 221 | <1 | 30.7 | 3.20 | 121 | 180 | 58.2 | 15.70 | 12.40 | 2.39 | 1.65 | 3.43 |
| I106149 | | 0.8 | 0.66 | 1.57 | <5 | <1 | 40.2 | 4.28 | 321 | 470 | 69.9 | 11.10 | 9.18 | 0.91 | 1.32 | 1.25 |
| I106150 | | <0.5 | 0.47 | 0.70 | 205 | 1 | 28.0 | 3.07 | 139 | 145 | 48.7 | 12.95 | 19.80 | 3.99 | 3.03 | 1.07 |
| I106151 | | <0.5 | 0.56 | 1.39 | 10 | <1 | 32.5 | 3.66 | 16 | 260 | 83.2 | 7.40 | 2.49 | 0.23 | 0.33 | 0.62 |
| I106152 | | <0.5 | 0.40 | 0.46 | 167 | <1 | 23.3 | 2.56 | 103 | 132 | 41.6 | 11.65 | 22.3 | 5.69 | 2.81 | 1.68 |
| I106153 | | <0.5 | 0.48 | 0.49 | 229 | 1 | 29.6 | 3.10 | 88 | 196 | 55.5 | 16.85 | 14.60 | 1.19 | 1.33 | 2.52 |
| I106154 | | 0.9 | 0.71 | 1.64 | 17 | <1 | 42.0 | 4.64 | 34 | 352 | 78.2 | 9.14 | 3.70 | 1.30 | 0.48 | 0.44 |
| I106155 | | 2.4 | 0.25 | 0.39 | 191 | <1 | 15.4 | 1.58 | 154 | 111 | 57.2 | 19.00 | 10.60 | 0.27 | 1.43 | 0.60 |
| I106156 | | 0.9 | 0.95 | 1.60 | <5 | 1 | 56.9 | 6.09 | 103 | 492 | 70.7 | 12.85 | 6.39 | 1.17 | 1.04 | 1.14 |
| I106157 | | <0.5 | 0.70 | 1.50 | <5 | 1 | 43.0 | 4.44 | 66 | 289 | 76.5 | 11.65 | 1.89 | 2.72 | 1.41 | 2.01 |
| I106158 | | <0.5 | 0.74 | 1.17 | <5 | 1 | 42.5 | 4.98 | 121 | 399 | 74.0 | 12.70 | 4.40 | 1.70 | 1.32 | 1.73 |
| I106159 | | <0.5 | 1.02 | 2.38 | <5 | 1 | 61.0 | 6.66 | 78 | 541 | 68.9 | 13.25 | 3.26 | 2.99 | 2.17 | 0.46 |
| I106160 | | <0.5 | 0.74 | 1.63 | 6 | <1 | 44.8 | 5.01 | 99 | 359 | 70.0 | 11.85 | 4.94 | 2.76 | 2.21 | 0.61 |
| I106161 | | <0.5 | 0.14 | 0.84 | 48 | 1 | 9.1 | 0.82 | 89 | 168 | 70.3 | 15.35 | 4.88 | 0.81 | 1.39 | 0.35 |
| I106162 | | <0.5 | 1.05 | 2.50 | 20 | 2 | 63.1 | 6.87 | 134 | 531 | 63.5 | 17.25 | 3.40 | 1.94 | 1.93 | 0.25 |

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**Finalized Date: 16-NOV-2010**
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Project: SLD

# CERTIFICATE OF ANALYSIS TB10164685

| Sample Description | Method | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | OA-GRA05 | TOT-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO | LOI | Total |
| | Units | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| I106147 | | 1.39 | <0.01 | 0.45 | 0.13 | 0.07 | 0.02 | 0.02 | 2.17 | 99.2 |
| I106148 | | 1.70 | <0.01 | 1.49 | 0.32 | 0.33 | 0.02 | 0.03 | 1.18 | 98.8 |
| I106149 | | 1.17 | <0.01 | 0.32 | 0.18 | 0.04 | 0.01 | 0.02 | 2.49 | 97.9 |
| I106150 | | 0.64 | <0.01 | 1.23 | 0.65 | 0.29 | 0.02 | 0.02 | 6.45 | 98.8 |
| I106151 | | 1.54 | <0.01 | 0.15 | 0.05 | 0.01 | 0.01 | 0.02 | 1.60 | 97.7 |
| I106152 | | 0.79 | <0.01 | 1.08 | 0.84 | 0.25 | 0.02 | 0.02 | 9.68 | 98.4 |
| I106153 | | 1.47 | <0.01 | 1.59 | 0.45 | 0.36 | 0.03 | 0.02 | 2.74 | 98.7 |
| I106154 | | 1.85 | <0.01 | 0.20 | 0.11 | 0.02 | 0.01 | 0.03 | 2.47 | 98.0 |
| I106155 | | 3.81 | 0.09 | 0.86 | 0.27 | 0.14 | 0.02 | 0.03 | 3.29 | 97.6 |
| I106156 | | 1.97 | <0.01 | 0.32 | 0.17 | 0.03 | 0.01 | 0.07 | 1.79 | 97.7 |
| I106157 | | 0.51 | <0.01 | 0.43 | 0.03 | 0.03 | 0.02 | 0.01 | 1.70 | 98.9 |
| I106158 | | 0.82 | <0.01 | 0.41 | 0.11 | 0.10 | 0.03 | 0.04 | 2.14 | 99.5 |
| I106159 | | 3.21 | <0.01 | 0.34 | 0.07 | 0.03 | 0.01 | 0.05 | 3.89 | 98.6 |
| I106160 | | 2.39 | <0.01 | 0.38 | 0.13 | 0.08 | 0.01 | 0.02 | 3.50 | 98.9 |
| I106161 | | 1.26 | <0.01 | 0.43 | 0.10 | 0.15 | 0.01 | 0.01 | 2.79 | 97.8 |
| I106162 | | 4.90 | <0.01 | 0.61 | 0.15 | 0.12 | 0.01 | 0.07 | 4.30 | 98.4 |