*Quality Analysis ...* *Innovative Technologies*

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| **Date Submitted:** | 05-Apr-13 |
| **Invoice No.:** | A13-03886 |
| **Invoice Date:** | 23-Apr-13 |
| **Your Reference:** | EXPLO2013PROD |

**Lac Des Iles Mine**
**556 Tenth Avenue**
**Thunder Bay ON P7B 2R2**
**Canada**

**ATTN: Manager John Corkery**

# CERTIFICATE OF ANALYSIS

31 Core samples and 4 Pulp samples were submitted for analysis.

The following analytical package was requested: Code LDI-Production Package (OES) Whole Rock Analysis-XRF/Fire Assay ICPOES

REPORT **A13-03886**

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Notes:

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

ISO/IEC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

**ACTIVATION LABORATORIES LTD.**

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# Activation Laboratories Ltd. Report: A13-03886

| Method Code | FA-ICP | FA-ICP | FA-ICP | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Symbol | ppb | ppb | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| Analyte Symbol | Au | Pd | Pt | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | V2O5 | LOI | Total | Cr | Ni | Co | Cu |
| Package Code | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O | LDI-Production Package (O |
| Date Analyzed | Apr 16 2013 2:25PM | Apr 16 2013 2:25PM | Apr 16 2013 2:25PM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM | Apr 21 2013 10:48AM |
| 13-001-386 | < 2 | < 5 | < 5 | 7.40 | 0.32 | 0.07 | 0.050 | 22.10 | 28.80 | < 0.01 | 0.01 | 0.02 | 0.01 | < 0.003 | 41.29 | 100.0 | 0.02 | < 0.003 | < 0.004 | < 0.004 |
| 13-001-387 | 3380 | 2060 | 303 | 56.10 | 12.10 | 12.00 | 0.090 | 4.29 | 4.18 | 1.22 | 1.75 | 0.42 | 0.11 | 0.018 | 6.54 | 99.13 | 0.05 | 0.069 | 0.004 | 0.210 |
| 13-001-388 | 6 | < 5 | < 5 | 66.43 | 13.40 | 6.26 | 0.100 | 2.31 | 4.15 | 3.04 | 1.09 | 0.60 | 0.14 | 0.016 | 1.35 | 98.88 | < 0.01 | 0.006 | < 0.004 | < 0.004 |
| 13-001-389 | 116 | 3300 | 427 | 48.85 | 18.90 | 10.00 | 0.110 | 5.88 | 10.10 | 2.44 | 0.24 | 0.32 | 0.01 | 0.022 | 2.02 | 99.26 | < 0.01 | 0.179 | 0.007 | 0.110 |
| 13-001-390 | 26 | 392 | 71 | 50.37 | 19.70 | 7.55 | 0.100 | 5.47 | 10.80 | 2.60 | 0.17 | 0.26 | 0.01 | 0.014 | 1.53 | 98.60 | < 0.01 | 0.028 | 0.004 | 0.017 |
| 13-001-391 | 187 | 2700 | 355 | 49.15 | 20.00 | 8.68 | 0.100 | 5.47 | 10.40 | 2.51 | 0.22 | 0.26 | 0.01 | 0.025 | 2.03 | 99.09 | < 0.01 | 0.133 | 0.007 | 0.153 |
| 13-001-392 | 333 | 4620 | 613 | 48.35 | 19.40 | 10.30 | 0.100 | 5.67 | 10.40 | 2.30 | 0.22 | 0.32 | < 0.01 | 0.033 | 2.71 | 100.3 | 0.03 | 0.271 | 0.005 | 0.267 |
| 13-001-393 | 41 | 456 | 73 | 49.33 | 18.80 | 9.45 | 0.130 | 7.28 | 10.60 | 2.09 | 0.14 | 0.29 | 0.01 | 0.032 | 1.77 | 99.95 | < 0.01 | 0.046 | 0.006 | 0.029 |
| 13-001-394 | 107 | 1720 | 212 | 49.06 | 16.70 | 11.70 | 0.150 | 8.00 | 9.45 | 1.96 | 0.19 | 0.39 | < 0.01 | 0.038 | 2.32 | 100.1 | < 0.01 | 0.080 | 0.007 | 0.099 |
| 13-001-395 | 216 | 3400 | 423 | 47.76 | 16.00 | 12.40 | 0.150 | 8.22 | 10.10 | 1.72 | 0.15 | 0.39 | 0.01 | 0.040 | 2.69 | 99.88 | < 0.01 | 0.134 | 0.012 | 0.216 |
| 13-001-396 | 182 | 2610 | 359 | 48.53 | 16.40 | 11.60 | 0.140 | 8.06 | 9.56 | 1.79 | 0.12 | 0.31 | 0.01 | 0.037 | 2.74 | 99.66 | 0.02 | 0.194 | 0.008 | 0.170 |
| 13-001-397 | 264 | 3930 | 527 | 47.72 | 15.60 | 12.90 | 0.140 | 8.77 | 8.55 | 1.53 | 0.11 | 0.31 | 0.01 | 0.036 | 3.13 | 99.23 | 0.01 | 0.157 | 0.012 | 0.224 |
| 13-001-398 | 89 | 2540 | 340 | 50.88 | 15.00 | 12.10 | 0.140 | 8.08 | 7.78 | 2.03 | 0.11 | 0.41 | 0.01 | 0.041 | 2.82 | 99.69 | < 0.01 | 0.107 | 0.007 | 0.140 |
| 13-001-399 | 113 | 2110 | 265 | 47.76 | 16.40 | 12.60 | 0.140 | 7.54 | 9.76 | 1.98 | 0.14 | 0.57 | 0.01 | 0.058 | 2.62 | 99.79 | 0.03 | 0.136 | 0.006 | 0.134 |
| 13-001-400 | 86 | 1690 | 208 | 49.65 | 15.00 | 12.60 | 0.150 | 8.50 | 8.71 | 1.94 | 0.16 | 0.45 | < 0.01 | 0.053 | 2.88 | 100.3 | 0.01 | 0.096 | 0.009 | 0.093 |
| 13-001-401 | 43 | 784 | 102 | 52.44 | 19.00 | 8.13 | 0.110 | 6.42 | 8.77 | 3.03 | 0.14 | 0.16 | < 0.01 | 0.019 | 1.94 | 100.2 | < 0.01 | 0.028 | 0.006 | 0.018 |
| 13-001-402 | 5 | 38 | < 5 | 46.99 | 18.50 | 12.60 | 0.120 | 5.84 | 9.15 | 2.83 | 0.21 | 0.74 | 0.01 | 0.097 | 1.68 | 98.72 | 0.01 | 0.017 | 0.006 | 0.006 |
| 13-001-403 | 8 | 62 | < 5 | 47.19 | 17.60 | 13.30 | 0.130 | 6.30 | 9.79 | 2.26 | 0.24 | 0.76 | 0.01 | 0.095 | 1.62 | 99.36 | 0.02 | 0.017 | 0.005 | 0.012 |
| 13-001-404 | 9 | 126 | 10 | 48.34 | 21.50 | 8.53 | 0.080 | 3.79 | 10.40 | 3.08 | 0.53 | 0.52 | 0.01 | 0.070 | 2.01 | 98.90 | < 0.01 | 0.012 | < 0.004 | 0.006 |
| 13-001-405 | 1260 | 6280 | 1360 | 44.86 | 21.70 | 6.89 | 0.080 | 8.62 | 12.70 | 1.14 | 0.10 | 0.10 | 0.01 | 0.009 | 2.48 | 98.82 | 0.07 | 0.069 | 0.004 | 0.018 |
| 13-001-406 | 20 | 992 | 61 | 44.55 | 10.50 | 20.20 | 0.220 | 11.10 | 7.29 | 0.86 | 0.11 | 1.09 | < 0.01 | 0.159 | 3.14 | 99.35 | 0.05 | 0.041 | 0.010 | 0.008 |
| 13-001-407 | 15 | 218 | 27 | 44.43 | 10.50 | 20.00 | 0.230 | 12.00 | 6.84 | 0.81 | 0.13 | 0.92 | 0.01 | 0.137 | 3.05 | 99.13 | 0.07 | 0.043 | 0.008 | 0.016 |
| 13-001-408 | 7 | 75 | 5 | 45.71 | 10.60 | 20.10 | 0.230 | 11.80 | 6.83 | 0.85 | 0.18 | 0.91 | < 0.01 | 0.125 | 2.80 | 100.1 | 0.04 | 0.036 | 0.009 | 0.008 |
| 13-001-409 | 12 | 194 | 20 | 45.33 | 10.40 | 20.10 | 0.230 | 11.80 | 6.86 | 0.99 | 0.22 | 0.92 | < 0.01 | 0.138 | 2.52 | 99.54 | 0.05 | 0.064 | 0.011 | 0.022 |
| 13-001-410 | 63 | 1390 | 169 | 45.83 | 15.30 | 15.70 | 0.160 | 8.43 | 9.72 | 2.05 | 0.21 | 0.77 | < 0.01 | 0.099 | 2.04 | 100.8 | 0.05 | 0.354 | 0.012 | 0.092 |
| 13-001-411 | 100 | 1410 | 167 | 45.94 | 14.90 | 17.00 | 0.150 | 7.68 | 9.87 | 1.80 | 0.18 | 1.02 | < 0.01 | 0.138 | 1.68 | 100.5 | < 0.01 | 0.083 | 0.012 | 0.097 |
| 13-001-412 | 146 | 3040 | 389 | 43.65 | 14.05 | 17.05 | 0.140 | 7.86 | 11.15 | 1.70 | 0.18 | 1.01 | < 0.01 | 0.135 | 1.86 | 99.13 | 0.03 | 0.134 | 0.017 | 0.159 |
| 13-001-413 | 77 | 1530 | 184 | 44.94 | 15.80 | 16.90 | 0.130 | 6.74 | 10.90 | 1.99 | 0.16 | 1.12 | < 0.01 | 0.139 | 1.59 | 100.6 | 0.01 | 0.076 | 0.013 | 0.085 |
| 13-001-414 | 52 | 815 | 102 | 44.11 | 13.70 | 18.90 | 0.160 | 7.20 | 11.20 | 1.66 | 0.13 | 1.38 | < 0.01 | 0.192 | 1.40 | 100.3 | 0.01 | 0.102 | 0.011 | 0.073 |
| 13-001-415 | 156 | 3480 | 423 | 44.44 | 15.30 | 18.00 | 0.140 | 7.19 | 9.47 | 1.74 | 0.16 | 1.11 | 0.01 | 0.153 | 2.35 | 100.4 | < 0.01 | 0.209 | 0.014 | 0.208 |
| 13-001-416 | 116 | 2300 | 299 | 47.48 | 17.70 | 11.00 | 0.110 | 5.68 | 10.80 | 2.27 | 0.47 | 0.55 | 0.01 | 0.061 | 2.85 | 99.22 | < 0.01 | 0.112 | 0.007 | 0.109 |
| 13-001-417 | 232 | 4390 | 539 | 47.16 | 15.90 | 12.80 | 0.120 | 7.32 | 9.75 | 2.05 | 0.34 | 0.50 | < 0.01 | 0.048 | 3.03 | 99.51 | 0.03 | 0.246 | 0.013 | 0.232 |
| 13-001-418 | 164 | 3880 | 497 | 48.11 | 16.90 | 11.40 | 0.120 | 7.33 | 9.07 | 1.99 | 0.28 | 0.38 | 0.01 | 0.050 | 2.81 | 98.75 | < 0.01 | 0.169 | 0.010 | 0.153 |
| 13-001-419 | 102 | 2100 | 276 | 47.67 | 16.70 | 11.20 | 0.130 | 7.66 | 9.68 | 2.12 | 0.32 | 0.36 | 0.01 | 0.044 | 2.66 | 98.82 | < 0.01 | 0.104 | 0.007 | 0.116 |
| 13-001-420 | 1260 | 6130 | 1380 | 45.08 | 21.50 | 6.90 | 0.080 | 8.54 | 12.60 | 1.11 | 0.11 | 0.10 | 0.01 | 0.009 | 2.49 | 98.66 | 0.07 | 0.068 | < 0.004 | 0.018 |

## Quality Control

| Method Code | FA-ICP | FA-ICP | FA-ICP | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF | FUS-XRF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Symbol** | ppb | ppb | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| **Analyte Symbol** | Au | Pd | Pt | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | V2O5 | LOI | Total | Cr | Ni | Co | Cu |
| **Package Code** | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) | LDI-Production Package (OES) |
| **Date Analyzed** | 2013-04-16 14:25:45 | 2013-04-16 14:25:45 | 2013-04-16 14:25:45 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 | 2013-04-21 10:48:43 |
| MICA-FE LABSTD | | | | 32.45 | 19.48 | 25.68 | 0.352 | 4.56 | 0.42 | 0.35 | 8.80 | 2.48 | 0.42 | 0.026 | | | 0.02 | 0.004 | < 0.004 | < 0.004 |
| AN-G LABSTD | | | | 46.35 | 29.85 | 3.35 | 0.041 | 1.82 | 15.96 | 1.63 | 0.14 | 0.23 | 0.02 | 0.013 | | | 0.01 | 0.003 | 0.004 | < 0.004 |
| BE-N LABSTD | | | | 38.32 | 10.05 | 12.90 | 0.201 | 13.18 | 13.89 | 3.15 | 1.41 | 2.63 | 1.08 | 0.042 | | | 0.04 | 0.027 | 0.007 | 0.008 |
| AC-E LABSTD | | | | 70.36 | 14.72 | 2.58 | 0.060 | 0.06 | 0.36 | 6.52 | 4.51 | 0.12 | | | | | < 0.01 | < 0.003 | < 0.004 | < 0.004 |
| OREAS 14P LABSTD | | | | | | | | | | | | | | | | | | 2.11 | 0.076 | 0.994 |
| Oreas 74a (Fusion) LABSTD | | | | 32.38 | 2.25 | | | 27.88 | | | | | | | | | 0.18 | 3.23 | 0.059 | 0.125 |
| CDN-PGMS-22 LABSTD | 1300 | 6350 | 1380 | | | | | | | | | | | | | | | | | |
| CDN-PGMS-22 LABSTD | 1230 | 6340 | 1410 | | | | | | | | | | | | | | | | | |
| CDN-PGMS-22 LABSTD | 1150 | 5850 | 1330 | | | | | | | | | | | | | | | | | |
| CDN-PGMS-23 LABSTD | 456 | 2070 | 462 | | | | | | | | | | | | | | | | | |
| CDN-PGMS-23 LABSTD | 491 | 2100 | 485 | | | | | | | | | | | | | | | | | |
| 13-001-395 Replicate Original | 217 | 3460 | 427 | | | | | | | | | | | | | | | | | |
| 13-001-395 LABDUP | 215 | 3350 | 420 | | | | | | | | | | | | | | | | | |
| 13-001-405 Replicate Original | 1330 | 6330 | 1310 | | | | | | | | | | | | | | | | | |
| 13-001-405 LABDUP | 1190 | 6230 | 1410 | | | | | | | | | | | | | | | | | |
| 13-001-412 Replicate Original | | | | 43.75 | 14.00 | 17.10 | 0.140 | 7.78 | 11.20 | 1.68 | 0.18 | 1.02 | < 0.01 | 0.145 | 1.87 | 99.22 | 0.05 | 0.135 | 0.018 | 0.160 |
| 13-001-412 LABDUP | | | | 43.55 | 14.10 | 17.00 | 0.140 | 7.93 | 11.10 | 1.72 | 0.18 | 1.01 | < 0.01 | 0.126 | 1.86 | 99.04 | 0.01 | 0.133 | 0.016 | 0.157 |
| 13-001-415 Replicate Original | 152 | 3370 | 405 | | | | | | | | | | | | | | | | | |
| 13-001-415 Split Original | 156 | 3480 | 423 | 44.44 | 15.30 | 18.00 | 0.140 | 7.19 | 9.47 | 1.74 | 0.16 | 1.11 | 0.01 | 0.153 | 2.35 | 100.4 | < 0.01 | 0.209 | 0.014 | 0.208 |
| 13-001-415 LABDUP | 160 | 3580 | 440 | | | | | | | | | | | | | | | | | |
| 13-001-415 LABPREP | 162 | 3610 | 453 | 43.80 | 15.00 | 17.70 | 0.140 | 7.03 | 9.31 | 1.68 | 0.15 | 1.11 | < 0.01 | 0.154 | 2.46 | 98.96 | < 0.01 | 0.206 | 0.012 | 0.205 |