T 604-882-8422, A No. 2, 20148 - 102 Avenue, Langley, BC, Canada, V1M 4B4, www.cdnlabs.com

# CDN Resource Laboratories Ltd.

## REFERENCE MATERIAL: CDN-GS-P2B

Recommended value and the "Between Laboratory" two standard deviations

| | | | |
|---|---|---|---|
| **Gold** | **0.433 g/t ± 0.022 g/t** | **Certified value** | **30g FA / AA or ICP Finish** |
| **Arsenic** | **203 ppm ± 13 ppm** | **Certified value** | **Aqua digestion/ Instrumental** |
| **Arsenic** | **204 ppm ± 11 ppm** | **Certified value** | **4 Acid digestion/ Instrumental** |
| **Mercury** | **2.29 ppm ± 0.15 ppm** | **Certified value** | **Aqua digestion/ Instrumental** |

**PREPARED BY:** CDN Resource Laboratories Ltd.
**CERTIFIED BY:** Ali Alizadeh, MSc, MBA, P Geo
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.
**DATE OF CERTIFICATION:** October 24th, 2021

**ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P2B was prepared from material that became available to CDN Resource Laboratories from Nevada Gold Mines, Turquoise Ridge, Nevada.

The Turquoise Ridge deposit is a typical Carlin-type deposit and is characterized by structurally and stratigraphically controlled sediment hosted replacement deposits containing micro-sized gold.

**METHOD OF PREPARATION:**
Reject ore material was dried, crushed, pulverized and then passed through a 270-mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying.

**ASSAY PROCEDURES:**

**Au:** 30 gr Fire assay pre-concentration, Instrumental finish.
**As:** 4 Acid digestion with Instrumental finish
**As, Hg:** Aqua Regia digestion with Instrumental finish

**STATISTICAL PROCEDURES:**
The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual “between-laboratory” standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30g of material. Using a smaller sample weight may result in erratic values. Results from Round Robin Assaying is available in Appendix 1 and can be provided upon request.

**Quality Assurance and Quality Control Procedures:**

**Screening Test:** After completion of homogenization, three samples, 150g each of homogenized material was randomly collected and was re-screened by a testing sieve. Over size material of this standard and based on CDN's screening test was ~%1.0.

**LEGAL NOTICE:**

This certificate and the reference material described in it have been prepared with due care and attention. However, CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist

Dr. Barry Smee, Ph.D., P. Geo.

**APPENDIX I, Notes:**

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 5 samples.

**APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):**

| Analyte | Percent | Analyte | Percent |
|---|---|---|---|
| **$SiO_2$** | 61.1 | **$Na_2O$** | <0.01 |
| **$Al_2O_3$** | 2.1 | **MgO** | 0.3 |
| **$Fe_2O_3$** | 1.5 | **K2O** | 0.6 |
| **CaO** | 18.8 | **$TiO_2$** | 0.1 |
| **MnO** | <0.1 | **LOI** | 14.6 |
| **Total S** | 0.04 | **Total C** | 4 |

**PARTICIPATING LABORATORIES:** (not in same order as table of assays)

| | |
|---|---|
| Activation Labs, Ancaster, Ontario, Canada | Bureau Veritas, Vancouver, BC, Canada |
| Activation Labs, Thunder Bay, Ontario, Canada | Certimin S.A., Lima, Peru |
| ALS, Lima, Peru | MS Analytical, Langley, BC, Canada |
| ALS, Loughrea, Ireland | SGS, Vancouver, BC, Canada |
| ALS, Perth Australia | SGS, Lakefield, ON, Canada |
| ALS Reno, USA | Skyline Assayers & Laboratories, Tucson, USA |
| ALS Canada, North Vancouver, BC, Canada | TSL Laboratories Ltd., Saskatoon, SK, Canada |
| Bureau Veritas, Perth, Australia | |

Au results from Labs 7 and 12 were removed for failing the t test.
As results, from assaying by Aqua Regia digestion from Labs 3 and 12 were removed for failing the t test.
As results, from assaying by 4 Acid digestion from Lab 1 and 2 were removed for failing the t test.
Hg results from Lab 10 were removed for failing the t test.
10 Labs were selected for assaying Arsenic and Mercury.

T 604-882-8422, A No. 2, 20148 - 102 Avenue, Langley, BC, Canada, V1M 4B4, www.cdnlabs.com

## APPENDIX II:

### RESULTS FROM ROUND ROBIN ASSAYING

| Sample | Lab 1 | Lab 2 | Lab 3 | Lab 4 | Lab 5 | Lab 6 | Lab 7 | Lab 8 | Lab 9 | Lab 10 | Lab 11 | Lab 12 | Lab 13 | Lab 14 | Lab 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Au (g/t) by Fire Assay, 30g sample size and Instrumental finish | | | | | | | | | | | | | | |
| GS-P2B-1 | 0.430 | 0.447 | 0.421 | 0.449 | 0.435 | 0.434 | 0.439 | 0.428 | 0.431 | 0.425 | 0.389 | 0.475 | 0.44 | 0.433 | 0.425 |
| GS-P2B-2 | 0.425 | 0.451 | 0.420 | 0.451 | 0.420 | 0.434 | 0.436 | 0.426 | 0.419 | 0.419 | 0.414 | 0.471 | 0.43 | 0.447 | 0.442 |
| GS-P2B-3 | 0.426 | 0.451 | 0.415 | 0.442 | 0.432 | 0.443 | 0.391 | 0.432 | 0.428 | 0.428 | 0.415 | 0.465 | 0.44 | 0.433 | 0.436 |
| GS-P2B-4 | 0.432 | 0.451 | 0.443 | 0.440 | 0.432 | 0.433 | 0.378 | 0.42 | 0.459 | 0.411 | 0.429 | 0.475 | 0.43 | 0.428 | 0.442 |
| GS-P2B-5 | 0.410 | 0.450 | 0.418 | 0.437 | 0.421 | 0.436 | 0.328 | 0.452 | 0.445 | 0.411 | 0.438 | 0.476 | 0.41 | 0.443 | 0.441 |
| GS-P2B-6 | 0.446 | 0.448 | 0.430 | 0.447 | 0.436 | 0.438 | 0.381 | 0.43 | 0.421 | 0.420 | 0.433 | 0.470 | 0.45 | 0.439 | 0.444 |
| GS-P2B-7 | 0.434 | 0.444 | 0.433 | 0.442 | 0.412 | 0.436 | 0.427 | 0.434 | 0.447 | 0.412 | 0.406 | 0.476 | 0.44 | 0.430 | 0.440 |
| GS-P2B-8 | 0.427 | 0.442 | 0.433 | 0.444 | 0.428 | 0.439 | 0.434 | 0.435 | 0.422 | 0.428 | 0.432 | 0.473 | 0.44 | 0.429 | 0.450 |
| GS-P2B-9 | 0.437 | 0.460 | 0.422 | 0.445 | 0.432 | 0.436 | 0.39 | 0.44 | 0.435 | 0.427 | 0.436 | 0.468 | 0.43 | 0.445 | 0.434 |
| GS-P2B-10 | 0.451 | 0.452 | 0.426 | 0.448 | 0.434 | 0.430 | 0.417 | 0.433 | 0.438 | 0.412 | 0.417 | 0.465 | 0.45 | 0.441 | 0.437 |
| Mean | 0.432 | 0.450 | 0.426 | 0.445 | 0.428 | 0.436 | 0.402 | 0.433 | 0.435 | 0.419 | 0.421 | 0.471 | 0.44 | 0.437 | 0.439 |
| Std. Devn. | 0.011 | 0.005 | 0.009 | 0.004 | 0.008 | 0.004 | 0.035 | 0.009 | 0.013 | 0.007 | 0.016 | 0.004 | 0.012 | 0.007 | 0.007 |
| % RSD | 2.656 | 1.096 | 2.017 | 0.979 | 1.851 | 0.820 | 8.756 | 1.990 | 2.984 | 1.756 | 3.709 | 0.912 | 2.692 | 1.611 | 1.524 |
| | As (ppm) by Aqua Regia and Instrumental finish | | | | | | | | | | | | | | |
| GS-P2B-1 | 198 | 199 | 220 | | 214 | 212 | 226 | | | 202 | 201.0 | 213 | 214 | | |
| GS-P2B-2 | 193 | 195 | 216 | | 215 | 207 | 228 | | | 203 | 198.5 | 207 | 209 | | |
| GS-P2B-3 | 193 | 197 | 231 | | 216 | 215 | 224 | | | 204 | 203.9 | 201 | 215 | | |
| GS-P2B-4 | 193 | 193 | 228 | | 203 | 202 | 227 | | | 209 | 203.2 | 202 | 211 | | |
| GS-P2B-5 | 196 | 193 | 229 | | 208 | 202 | 223 | | | 204 | 202.9 | 202 | 208 | | |
| GS-P2B-6 | 196 | 195 | 229 | | 214 | 207 | 227 | | | 208 | 201.7 | 202 | 207 | | |
| GS-P2B-7 | 189 | 193 | 231 | | 207 | 202 | 225 | | | 209 | 201.7 | 197 | 215 | | |
| GS-P2B-8 | 200 | 194 | 232 | | 206 | 207 | 220 | | | 204 | 201.5 | 202 | 214 | | |
| GS-P2B-9 | 194 | 187 | 233 | | 197 | 204 | 225 | | | 207 | 206.6 | 194 | 211 | | |
| GS-P2B-10 | 197 | 198 | 237 | | 203 | 196 | 223 | | | 202 | 205.7 | 195 | 211 | | |
| Mean | 195 | 194 | 229 | | 208 | 205 | 225 | | | 205 | 202.7 | 202 | 212 | | |
| Std. Devn. | 3.14 | 3.37 | 6.20 | | 6.33 | 5.56 | 2.39 | | | 2.78 | 2.35 | 5.60 | 2.92 | | |
| % RSD | 1.61 | 1.74 | 2.71 | | 3.04 | 2.71 | 1.07 | | | 1.36 | 1.16 | 2.78 | 1.38 | | |
| | As (ppm) by 4 Acid digestion and Instrumental finish | | | | | | | | | | | | | | |
| GS-P2B-1 | 230 | 290 | 197.5 | | 208 | 203 | 208 | | | 210 | 200.2 | 197 | 202 | | |
| GS-P2B-2 | 250 | 290 | 203.0 | | 209 | 198 | 206 | | | 204 | 205.5 | 204 | 211 | | |
| GS-P2B-3 | 240 | 280 | 205.0 | | 206 | 196 | 211 | | | 205 | 201.5 | 200 | 200 | | |
| GS-P2B-4 | 230 | 270 | 206.0 | | 208 | 195 | 210 | | | 209 | 199.2 | 207 | 214 | | |
| GS-P2B-5 | 240 | 280 | 210.0 | | 207 | 193 | 208 | | | 206 | 200.2 | 205 | 214 | | |
| GS-P2B-6 | 240 | 290 | 210.0 | | 210 | 192 | 204 | | | 209 | 198.4 | 207 | 219 | | |
| GS-P2B-7 | 230 | 290 | 205.0 | | 207 | 187 | 207 | | | 208 | 207.4 | 202 | 231 | | |
| GS-P2B-8 | 240 | 280 | 208.0 | | 202 | 188 | 206 | | | 209 | 200.0 | 199 | 214 | | |
| GS-P2B-9 | 220 | 280 | 207.0 | | 205 | 191 | 199 | | | 206 | 202.3 | 195 | 206 | | |
| GS-P2B-10 | 230 | 290 | 210.0 | | 202 | 193 | 203 | | | 211 | 200.3 | 203 | 218 | | |
| Mean | 235 | 284 | 206.2 | | 206 | 194 | 206 | | | 208 | 201.5 | 202 | 213 | | |
| Std. Devn. | 8.498 | 6.992 | 3.888 | | 2.716 | 4.719 | 3.521 | | | 2.312 | 2.856 | 4.095 | 9.012 | | |
| % RSD | 3.616 | 2.462 | 1.886 | | 1.316 | 2.437 | 1.708 | | | 1.113 | 1.417 | 2.028 | 4.233 | | |
| | Hg (ppm) by Aqua Regia and Instrumental finish | | | | | | | | | | | | | | |
| GS-P2B-1 | 2.24 | 2.26 | 2.29 | | 2.43 | 2.27 | 2.33 | | | 4 | 2.287 | 2.44 | 2.38 | | |
| GS-P2B-2 | 2.23 | 2.16 | 2.34 | | 2.42 | 2.22 | 2.34 | | | 4 | 2.263 | 2.34 | 2.28 | | |
| GS-P2B-3 | 2.26 | 2.18 | 2.41 | | 2.36 | 2.25 | 2.47 | | | 4 | 2.263 | 2.33 | 2.35 | | |
| GS-P2B-4 | 2.25 | 2.23 | 2.38 | | 2.20 | 2.31 | 2.32 | | | 4 | 2.292 | 2.36 | 2.31 | | |
| GS-P2B-5 | 2.24 | 2.19 | 2.33 | | 2.19 | 2.31 | 2.46 | | | 4 | 2.321 | 2.32 | 2.42 | | |
| GS-P2B-6 | 2.19 | 2.27 | 2.32 | | 2.27 | 2.19 | 2.61 | | | 4 | 2.327 | 2.28 | 2.29 | | |
| GS-P2B-7 | 2.29 | 2.23 | 2.26 | | 2.23 | 2.26 | 2.26 | | | 4 | 2.324 | 2.31 | 2.41 | | |
| GS-P2B-8 | 2.28 | 2.27 | 2.22 | | 2.22 | 2.27 | 2.52 | | | 4 | 2.360 | 2.17 | 2.34 | | |
| GS-P2B-9 | 2.31 | 2.27 | 2.21 | | 2.24 | 2.38 | 2.48 | | | 4 | 2.285 | 2.35 | 2.38 | | |
| GS-P2B-10 | 2.18 | 2.22 | 2.34 | | 2.27 | 2.25 | 2.45 | | | 4 | 2.335 | 2.33 | 2.15 | | |
| Mean | 2.25 | 2.23 | 2.31 | | 2.28 | 2.27 | 2.42 | | | 4 | 2.306 | 2.32 | 2.33 | | |
| Std. Devn. | 0.041 | 0.040 | 0.065 | | 0.089 | 0.053 | 0.108 | | | 0 | 0.032 | 0.068 | 0.080 | | |
| % RSD | 1.830 | 1.818 | 2.820 | | 3.885 | 2.325 | 4.448 | | | 0 | 1.405 | 2.927 | 3.411 | | |