

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-PGMS-28

Recommended values and the "Between Lab" Two Standard Deviations

<i>Gold</i>	<i>0.193 g/t ± 0.022</i>	<i>Certified value</i>	<i>30g FA / ICP or AA</i>
<i>Platinum</i>	<i>1.51 g/t ± 0.14 g/t</i>	<i>Certified value</i>	<i>30g FA / ICP or AA</i>
<i>Palladium</i>	<i>1.75 g/t ± 0.12 g/t</i>	<i>Certified value</i>	<i>30g FA / ICP or AA</i>
<i>Copper</i>	<i>0.144 % ± 0.008 %</i>	<i>Certified value</i>	<i>4-Acid / ICP or AA</i>
<i>Nickel</i>	<i>0.271 % ± 0.018 %</i>	<i>Certified value</i>	<i>4-Acid / ICP or AA</i>

PREPARED BY: CDN Resource Laboratories Ltd.

CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia

INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.

DATE OF CERTIFICATION: 7-Oct-15

ORIGIN OF REFERENCE MATERIAL:

The material was sourced from the Drenthe deposit located on the northern limb of the Bushveld mafic intrusive complex in northern South Africa. The deposit is hosted in the Platreef pyroxenite unit and PGE mineralization is associated with pyrrhotite, chalcopyrite and pentlandite.

METHOD OF PREPARATION:

Reject ore was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed in a double-cone blender for 5 days. Splits were taken and sent to 15 commercial laboratories for round robin analysis. Round robin results are displayed below:

Approximate chemical composition (by whole rock analysis) is as follows:

	Percent		Percent
SiO ₂	48.6	Na ₂ O	0.8
Al ₂ O ₃	9.1	MgO	18.1
Fe ₂ O ₃	10.8	K ₂ O	0.3
CaO	7.0	TiO ₂	0.2
MnO	0.19	LOI	3.9
Total S	0.7	Total C	0.1

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 means and standard deviations 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.

Results from round-robin assaying are presented on the following pages:

REFERENCE MATERIAL: CDN-PGMS-28

Assay Procedure: 30g fire assay, AA or ICP finish.

	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
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
PGMS-28-1	0.197	0.188	0.208	0.179	0.209	0.201	0.200	0.174	0.207	0.211	0.220	0.212	0.202	0.190	0.204
PGMS-28-2	0.183	0.182	0.184	0.193	0.199	0.203	0.190	0.175	0.242	0.195	0.197	0.182	0.161	0.206	0.199
PGMS-28-3	0.191	0.196	0.198	0.174	0.221	0.204	0.200	0.176	0.201	0.196	0.183	0.224	0.175	0.179	0.190
PGMS-28-4	0.204	0.188	0.189	0.190	0.201	0.182	0.210	0.170	0.227	0.211	0.194	0.182	0.190	0.188	0.200
PGMS-28-5	0.183	0.192	0.205	0.193	0.221	0.203	0.190	0.177	0.213	0.206	0.186	0.233	0.180	0.185	0.181
PGMS-28-6	0.188	0.180	0.200	0.178	0.192	0.195	0.190	0.178	0.210	0.203	0.191	0.211	0.207	0.191	0.194
PGMS-28-7	0.203	0.185	0.205	0.174	0.209	0.200	0.210	0.172	0.205	0.200	0.218	0.182	0.172	0.199	0.196
PGMS-28-8	0.183	0.180	0.190	0.178	0.187	0.197	0.210	0.173	0.207	0.191	0.197	0.232	0.205	0.194	0.189
PGMS-28-9	0.193	0.200	0.196	0.197	0.201	0.192	0.200	0.172	0.204	0.203	0.194	0.231	0.230	0.197	0.195
PGMS-28-10	0.186	0.182	0.194	0.179	0.207	0.204	0.210	0.173	0.206	0.199	0.177	0.203	0.176	0.227	0.200
Mean	0.191	0.187	0.197	0.184	0.205	0.198	0.201	0.174	0.212	0.202	0.196	0.209	0.190	0.196	0.195
Std. Dev'n	0.0080	0.0069	0.0078	0.0087	0.0111	0.0070	0.0088	0.0025	0.0127	0.0066	0.0138	0.0212	0.0209	0.0134	0.0067
%RSD	4.20	3.68	3.97	4.76	5.42	3.52	4.36	1.43	5.98	3.29	7.07	10.14	11.03	6.83	3.45
	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t
PGMS-28-1	1.48	1.48	1.57	1.41	1.61	1.50	1.59	1.49	1.38		1.58	1.58	1.36	1.52	1.55
PGMS-28-2	1.41	1.51	1.57	1.38	1.48	1.49	1.56	1.49	1.43		1.51	1.39	1.30	1.45	1.47
PGMS-28-3	1.49	1.46	1.61	1.38	1.62	1.48	1.59	1.49	1.54		1.49	1.57	1.38	1.43	1.52
PGMS-28-4	1.53	1.49	1.53	1.40	1.59	1.50	1.57	1.45	1.46		1.61	1.42	1.48	1.60	1.51
PGMS-28-5	1.56	1.52	1.55	1.39	1.56	1.56	1.64	1.50	1.48		1.59	1.55	1.46	1.59	1.51
PGMS-28-6	1.49	1.47	1.57	1.39	1.52	1.46	1.62	1.51	1.49		1.58	1.63	1.58	1.54	1.49
PGMS-28-7	1.47	1.48	1.61	1.38	1.61	1.47	1.61	1.48	1.56		1.61	1.42	1.44	1.57	1.46
PGMS-28-8	1.56	1.49	1.52	1.46	1.62	1.49	1.61	1.49	1.45		1.53	1.62	1.45	1.55	1.57
PGMS-28-9	1.52	1.49	1.63	1.44	1.54	1.48	1.60	1.46	1.52		1.55	1.67	1.40	1.57	1.51
PGMS-28-10	1.56	1.44	1.56	1.47	1.61	1.49	1.65	1.49	1.47		1.57	1.59	1.41	1.46	1.65
Mean	1.50	1.48	1.57	1.41	1.58	1.49	1.60	1.48	1.48		1.56	1.54	1.43	1.53	1.52
Std. Dev'n	0.0486	0.0231	0.0355	0.0347	0.0484	0.0268	0.0284	0.0172	0.0533		0.0413	0.0987	0.0759	0.0611	0.0561
%RSD	3.23	1.56	2.26	2.46	3.07	1.79	1.77	1.16	3.61		2.65	6.39	5.32	4.00	3.68
	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t
PGMS-28-1	1.76	1.66	1.73	1.65	1.79	1.69	1.82	1.67	1.62		1.82	1.83	1.70	1.76	1.64
PGMS-28-2	1.65	1.67	1.73	1.53	1.69	1.65	1.77	1.69	1.64		1.70	1.58	1.58	1.70	1.60
PGMS-28-3	1.80	1.70	1.77	1.54	1.79	1.68	1.79	1.69	1.74		1.76	1.86	1.73	1.72	1.73
PGMS-28-4	1.80	1.73	1.72	1.54	1.80	1.68	1.82	1.66	1.70		1.82	1.67	1.72	1.82	1.73
PGMS-28-5	1.85	1.73	1.79	1.59	1.82	1.71	1.81	1.71	1.73		1.83	1.77	1.74	1.85	1.79
PGMS-28-6	1.81	1.67	1.78	1.56	1.81	1.72	1.82	1.72	1.71		1.81	1.82	1.71	1.78	1.69
PGMS-28-7	1.82	1.71	1.87	1.55	1.82	1.69	1.81	1.67	1.78		1.89	1.61	1.73	1.80	1.74
PGMS-28-8	1.84	1.67	1.79	1.65	1.84	1.72	1.82	1.67	1.76		1.80	1.80	1.68	1.77	1.72
PGMS-28-9	1.81	1.67	1.83	1.69	1.80	1.71	1.79	1.67	1.79		1.82	1.91	1.74	1.77	1.70
PGMS-28-10	1.83	1.61	1.73	1.73	1.80	1.72	1.85	1.67	1.81		1.80	1.88	1.70	1.76	1.77
Mean	1.79	1.68	1.77	1.60	1.79	1.70	1.81	1.68	1.73		1.80	1.77	1.70	1.77	1.71
Std. Dev'n	0.0570	0.0365	0.0490	0.0706	0.0410	0.0230	0.0221	0.0183	0.0623		0.0507	0.1147	0.0474	0.0440	0.0577
%RSD	3.17	2.17	2.76	4.40	2.29	1.36	1.22	1.09	3.61		2.81	6.47	2.78	2.48	3.37

**Notes: Au data from Lab 12 was excluded for failing the t test.
Pd data from Lab 4 was excluded for failing the t test.
Lab 10 did not provide Pt and Pd data.**

REFERENCE MATERIAL: CDN-PGMS-28**Assay Procedure: 4-Acid Digest / AA or ICP finish**

	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
	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %
PGMS-28-1	0.144	0.148	0.150	0.135	0.146	0.146	0.148	0.149	0.147	0.150	0.143	0.138	0.141	0.146	0.148
PGMS-28-2	0.136	0.143	0.140	0.132	0.133	0.148	0.140	0.143	0.133	0.140	0.140	0.128	0.135	0.140	0.145
PGMS-28-3	0.159	0.156	0.140	0.136	0.143	0.138	0.144	0.146	0.144	0.150	0.141	0.141	0.140	0.140	0.147
PGMS-28-4	0.162	0.156	0.150	0.134	0.143	0.141	0.145	0.141	0.145	0.150	0.143	0.143	0.138	0.146	0.146
PGMS-28-5	0.162	0.159	0.140	0.136	0.137	0.146	0.145	0.145	0.146	0.150	0.144	0.144	0.143	0.150	0.146
PGMS-28-6	0.157	0.155	0.140	0.140	0.141	0.148	0.147	0.145	0.143	0.150	0.150	0.142	0.142	0.149	0.151
PGMS-28-7	0.161	0.152	0.150	0.139	0.144	0.142	0.149	0.148	0.144	0.150	0.145	0.144	0.144	0.142	0.148
PGMS-28-8	0.157	0.155	0.150	0.141	0.144	0.148	0.146	0.144	0.146	0.150	0.144	0.143	0.142	0.149	0.147
PGMS-28-9	0.158	0.152	0.150	0.141	0.144	0.148	0.144	0.143	0.140	0.150	0.146	0.138	0.138	0.148	0.146
PGMS-28-10	0.151	0.154	0.140	0.138	0.146	0.139	0.149	0.146	0.149	0.150	0.149	0.140	0.138	0.150	0.152
Mean	0.155	0.153	0.145	0.137	0.142	0.144	0.146	0.145	0.144	0.149	0.145	0.140	0.140	0.146	0.148
Std. Dev'n	0.0087	0.0046	0.0053	0.0032	0.0041	0.0040	0.0028	0.0023	0.0045	0.0032	0.0032	0.0048	0.0028	0.0041	0.0023
%RSD	5.60	3.00	3.63	2.30	2.90	2.77	1.89	1.58	3.11	2.12	2.19	3.42	2.00	2.78	1.59
	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %	Ni %
PGMS-28-1	0.274	0.254	0.270	0.260	0.273	0.264	0.277	0.270	0.279	0.280	0.276	0.275	0.261	0.256	0.304
PGMS-28-2	0.266	0.260	0.270	0.260	0.255	0.259	0.265	0.261	0.258	0.260	0.275	0.253	0.251	0.248	0.292
PGMS-28-3	0.288	0.269	0.270	0.260	0.275	0.275	0.280	0.262	0.274	0.280	0.275	0.280	0.256	0.248	0.296
PGMS-28-4	0.301	0.269	0.280	0.259	0.275	0.274	0.274	0.261	0.279	0.280	0.277	0.288	0.254	0.261	0.295
PGMS-28-5	0.295	0.277	0.260	0.262	0.273	0.273	0.275	0.268	0.277	0.280	0.278	0.284	0.257	0.266	0.292
PGMS-28-6	0.290	0.266	0.270	0.267	0.273	0.279	0.281	0.270	0.272	0.280	0.287	0.280	0.261	0.264	0.302
PGMS-28-7	0.293	0.271	0.280	0.267	0.277	0.276	0.279	0.263	0.275	0.280	0.278	0.287	0.263	0.254	0.301
PGMS-28-8	0.290	0.275	0.270	0.270	0.276	0.275	0.277	0.266	0.275	0.280	0.278	0.284	0.255	0.264	0.299
PGMS-28-9	0.290	0.274	0.280	0.270	0.276	0.272	0.268	0.266	0.271	0.280	0.281	0.281	0.254	0.260	0.294
PGMS-28-10	0.283	0.271	0.270	0.263	0.279	0.273	0.284	0.265	0.284	0.290	0.286	0.276	0.255	0.261	0.307
Mean	0.287	0.269	0.272	0.264	0.273	0.272	0.276	0.265	0.274	0.279	0.279	0.279	0.257	0.258	0.298
Std. Dev'n	0.0103	0.0070	0.0063	0.0042	0.0067	0.0060	0.0058	0.0034	0.0069	0.0074	0.0043	0.0100	0.0038	0.0064	0.0053
%RSD	3.58	2.62	2.33	1.58	2.45	2.20	2.11	1.26	2.51	2.64	1.53	3.59	1.48	2.49	1.76

Notes: Cu data from Labs 1 & 2 was excluded for failing the t test.

Ni data from Lab 15 was excluded for failing the t test.

REFERENCE MATERIAL: CDN-PGMS-28

Participating Laboratories:

(not in same order as listed in table of results)

Bureau Veritas Ltd., Vancouver, British Columbia, Canada
Activation Laboratories Ltd., Ancaster, Ontario, Canada
Activation Laboratories Ltd., Thunder Bay, Ontario, Canada
AGAT, Mississauga, Ontario
Argetest, Ankara, Turkey
ALS Canada, North Vancouver, British Columbia, Canada
ALS, Loughrea, Ireland
American Assay Laboratories, Nevada, USA
Certimin, Peru
Labtium, Finland
Met-Solve Analytical, Langley, British Columbia, Canada
SGS, Lima, Peru
SGS, Vancouver, B.C., Canada
Skyline Assayers & Laboratories, Arizona, USA
TSL Laboratories, Saskatoon, SK, Canada
Ultra Trace Analytical Laboratories, Perth, Australia


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Certified by


Duncan Sanderson, Certified Assayer of B.C.

Geochemist


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