

Perry B. Grunenberg, P.Geo.

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Career Profile

A highly adaptable, multi-disciplined geoscientist with over 20 years professional experience coupled with continuous career development. Specializing in all aspects of surficial and sub-surface geological, geochemical, geophysical and hydro-geological investigations and development, client liaisons, project management and presentations.

Education

- **B.Sc. GEOLOGY**, University of British Columbia, 1982.
- **CERTIFICATE IN TERRAIN MAPPING**, U.B.C. Continuing Studies, 1995.
- **FOREST ROAD CONSTRUCTION PRACTICES AND PROCEDURES**, B.C. Forestry Continuing Studies Network, 1995.
- **TERRAIN STABILITY MAPPING AND ASSESSMENTS** U.B.C. Continuing Studies, 1996.
- **PRINCIPLES OF GROUNDWATER FLOW, TRANSPORT AND REMEDIATION** National Ground Water Association, 2003.

Other Training

- Fundamentals of Supervision, 2001
- Industrial First Aid Level 1, 2013
- Gemcom - Surpac Foundation and Geology Workshop, 2008
- Arc-GIS Introduction (9.2), 2008
- Small water systems certification, 2004
- Sewage disposal planner certification, 2004

Professional Affiliations

- **MEMBERSHIP** in the **ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF BRITISH COLUMBIA (APEGBC)** since 1992 (Reg. #19246), Professional Geoscientist.

Community

I am Vice President of the Kamloops Exploration Group and a director of the Association for Mineral Exploration in BC. I am a cyclist, runner, and have raced triathlons including twice finishing the Hawaii Ironman World Championship.

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PROFESSIONAL EXPERIENCE

PBG GEOSCIENCE 1982 to Present (excluding below positions 2000-2004)

Position: Proprietor, Geoscientist

I have provided continuous professional geoscientist services, since obtaining professional status in 1982, as a proprietor of PBG Geoscience. This involved consulting for projects throughout British Columbia, the Northwest Territories, Yukon, Washington, Nevada, and Alaska. Work included:

- General project management and supervision of >10 person crews,
- Geological mapping, geochemical sampling, geophysical surveying,
- Underground and surface drilling data interpretation and Standard Instrument 43-101 compliant evaluation and reporting of several projects, including deposit modeling using Access, Surpac, and ArcGIS software,
- Terrain mapping and slope stability assessments for project permitting,
- Access and work-site deactivation and reclamation,
- Piesometer and weir installation, monitoring and sampling,
- Air and water quality sampling for base-line data acquisition,
- Liaison between client and provincial regulators,
- Professional report writing, including qualifying reports (43-101) reviewed by the Canadian Securities Administration for listing on the Canadian Venture Exchange (American Creek Resources, Sego Resources, Sultan Minerals and more).

Mining exploration and development work has included the following:

- Working as a mine geologist within the Cheni Gold epithermal vein mine in the Toadogone region of BC;
- Exploration for diamond-bearing kimberlite throughout the Northwest Territories;
- Exploration management including the search for low-grade, bulk tonnage gold, high grade epithermal and mesothermal gold vein, room and pillar silver-lead-zinc (replacement, MVT, Irish Type) mine exploration, and tungsten skarn, and copper and molybdenum porphyry projects in USA and Canada.

KALA GROUNDWATER CONSULTING LTD. April 2002-September 2004

Position: Project Geoscientist

As a geoscientist in this small consulting company's team I was involved in the following:

- Ground Water exploration and development, yield testing and water quality assessment;
- Wellhead protection area determination including potential for groundwater under the influence of surface water;

- Subdivision feasibility and development studies including Onsite Waste Disposal systems, potable water sources, materials testing, and environmental impact assessments.
- Preliminary Geo-environmental Site Investigations, Stage 1 and Stage 2, data compilation, and report writing for contaminated site review;
- Consultation and reporting to clients, including engineering firms, Land and Water BC, BC First Nations and individuals.

MINISTRY OF TRANSPORTATION

December 2000-2002

Position: Site Investigations Technician/Geoscientist

As a key member of the Site Investigations Team I was involved in the following:

- Preliminary Geoenvironmental Site Investigations, Stage 1 and Stage 2, data compilation, and report writing for contaminated site review,
- Water well pnesometer and lysimeter installation, monitoring, and analysis, comparison to standards presented in the Contaminated Sites Regulations, tracking changes in water quality at a contaminated site,
- Geoenvironmental Site Assessment, soil sampling for metals contamination,
- Acid Rock Drainage site investigation including geological mapping, rock sampling, drill core logging and sampling, groundwater and surface water sampling, electromagnetic surveying and report writing,
- Structural geological mapping and analysis using “DIPS” program,
- Rockfall Hazard Rating of soil and rock slopes,
- Topographical surveying using total station transit, Impulse laser, and GPS survey equipment,
- Seismic refraction surveys for subsurface profiling.

References:

Mr. Arthur Troup, P.Eng, President-Sultan Minerals Inc, Vancouver, BC
Phone: 604-644-3808 or email atroup@sultanminerals.com

Mr. Dave Watkinson, President and CEO, Emgold Mining Corp, Vancouver
Phone: 778-375-3106 or email <mailto:dwatkinson@idaho-maryland.com>

Mr. Malcolm Powell, President, Acrex Ventures Ltd, Vancouver, BC
Phone: 604-277-1752 or email mpowell@acrexventures.com

Mr. Paul Blackett, Principle, Kala Geosciences, Kamloops, BC
Phone: 250-372-9194 or email kalagroundwater@telus.net