



Caius Priscu
Ph.D, P.Eng (BC, ON)

Principal Geotechnical Engineer

+1.604.839.4237

cpriscu@priscuengineers.com

Education

McGill University, Montreal, Canada
1999 – Ph.D, Mining Engineering

McGill University, Montreal, Canada
1993 – M.Eng, Civil Engineering

Technical University of Civil Engineering,
Bucharest, Romania
1989 – M.Sc, Civil Engineering

Professional registration

Professional Engineer – P.Eng, Engineers
and Geoscientists BC, Canada (2010-present)

Professional Engineer – P.Eng, Professional
Engineers Ontario, Canada (2002-present)

Languages

English, Romanian (fluent)

Spanish, French (technical level, intermediate)

Specialization

Mine Waste Management; Dam Safety and Portfolio Risk Management for Tailings and Water Retaining Dams; Tailings Management; Corporate Governance, Standards and Policies

Expertise

Dr. Caius Priscu is Co-Founder and Principal Geotechnical Engineer with Priscu and Associates Consulting Engineers Inc., based in West Vancouver, BC, Canada. He has over 30 years of experience in the field of geotechnical and geo-environmental engineering related to the mining and water resources industries across the world. He was involved in projects located in Canada, US, Australia, South Africa, Botswana, Zimbabwe, Tunisia, Chile, Peru, Brazil, Slovenia, Spain, Mongolia, Philippines, and Romania.

Dr. Priscu's background is in both Civil and Mining Engineering, working over the years with a general contractor team, in consulting engineering, and as an owner/operator of tailings and water retaining dams. During his career, he has participated in projects related to the planning, design, construction, operation and closure of tailings storage facilities and water retaining dams for the mining and water resources industries. Over the last two decades, his career focus has been on dam safety and risk management, and the development of Corporate standards and guidance for safe design and operation of mine waste management facilities. He has published and presented over 50 conference papers on these subjects.

Dr. Priscu has been a tireless volunteer and true supporter of many technical not-for-profit organizations, including the Canadian Dam Association (CDA) – currently the Honours and Awards Committee Chair, The Mining Association of Canada (MAC), the Canadian Institute of Mining, Metallurgy and Exploration (CIM), the Canadian Geotechnical Society (CGS), The Society for Mining, Metallurgy and Exploration (SME), the Chilean National Committee on Large Dams (ICOLD Chile), member of the ICOLD Committee H on Dam Safety, and the International Council on Mining and Metals (ICMM) and its working subcommittees on tailings dams.

Dr. Priscu is also an Adjunct Professor with the Norman B. Keevil Institute of Mining Engineering at the University of British Columbia, where since January 2021, he enjoys mentoring students, sharing knowledge, and teaching Mine Waste Management courses.



Employment History

Priscu and Associates Consulting Engineers Inc.,
West Vancouver, BC, Canada
Co-Founder and Principal Geotechnical Engineer
(2021-present).

University of British Columbia - Norman B. Keevil
Institute of Mining Engineering, Vancouver Campus,
BC, Canada
Adjunct Professor (2021-present)

Anglo American (Chile and Canada) - Corporate
Global Head of Mineral Residue Facilities and Water
Management, Group Projects, Technical and
Sustainability (2014-2021)

Principal Engineer, Tailings and Mine Waste,
Engineering Standards and Governance, Group
Engineering, Mining and Technology (2013-2014)

AMEC Earth & Environmental (now Wood.), Canada
Senior Associate Geotechnical Engineer (2011-2013)
Regional Technical Lead, Manitoba and
Saskatchewan (2004-2011)

Acres International (now Hatch), Canada
Senior Geotechnical Engineer (1999-2004)

Geotechnical Consultant, Montreal, QC, Canada
Independent Consultant (1997-1999)

Group Axor Consulting Engineers, Montreal, QC,
Canada
Geotechnical Project Engineer (1994-1997)

CIMA + Ingenieus Conseils, Laval, QC, Canada
Geotechnical Engineer (1993-1994)

Hydropower Construction Co. (now Hidroconstructia
SA), Romania
Junior Site Engineer (1987-1990)

Experience Highlights

- Corporate Level: Global practice area strategic advisory role and technical support for Mineral Residue Facilities and Water Management. Supporting the implementation of leading industry practices for effective and sustainable design, construction, operation, and closure of Mineral Residue Facilities. Supporting as a Senior Advisor on ICMM technical standards and guidelines implementation of best practices in water management.
- Corporate Level: Led a team of up to 15 engineers and scientists to implement leading industry practices for effective and sustainable design, construction, operation, and closure of mineral residue facilities. Portfolio included over 100 tailings dams and 200 water retaining dams. Defined and implemented the Group structural integrity and operational management of tailings dams, water retaining dams, waste rock dumps and stockpiles technical standard.
- Corporate Level: Provided the technical support for implementation of mineral residue disposal strategies and technologies, based on environmental, safety and business principles. Provided advisory and technical support to the Anglo American four Business Units and 34 Operations over eight years, with technical support to non-managing JV partners.
- Corporate Level: Provided recommendations to the Board, its Sustainability Committee, Operations Committee, Directors and Group Heads to needs and requirements related to best practices in dam safety and risk management of the Group portfolio of dams. Prepared technical notes and Annual Reports to the Board and senior management team.
- Business Units and Operation Level: Provided specialist support for leading practices implementation across the group in the field of mine waste management, dam safety and surface flooding protection, including OMS manuals, design criteria, emergency planning, FMEA and dam breach analyses, in line with applicable internal technical standard, country specific and ICMM technical requirements, such as the Tailings Governance Framework and GISTM (Global Industry Standard on Tailings Management). Appointed independent Technical Review Panels at all Operations.
- Business Units and Operation Level: Provided expert technical support, training, Investment Assurance, Operational Risk Management audits, along with internal reviews for reliability, environmental impact, safety, integrity, risk management and mitigation, suitability and capacity to meet license/permit and regulatory requirements in a sustainable manner for tailings, waste rock dumps, water dams and other mineral residue disposal facilities.
- Participated as a Consultant, Senior Geotechnical Engineer, Geotechnical Lead and Project Manager in various studies and projects in the water resources, hydropower and mining industries related to dam engineering design, construction and monitoring, dam safety inspections and reviews for tailings and water retaining dams.

Summary of Key Consulting Engineering Projects (prior to February 2013)

Dr. Priscu has been heavily involved as a Senior Geotechnical Consulting Engineer in the geotechnical investigations, assessments, pre-feasibility and feasibility studies, preliminary and detailed engineering design work for several Canadian and international projects related to dams, embankments and earthworks for the mining, water resources and hydropower industries, including mine waste management and tailings facilities, water storage facilities and run-of-river hydraulic structures, control and conveyance, appurtenant structures, lagoons and sludge containment facilities, mine closure planning, closure implementation and rehabilitation of active, inactive and/or abandoned mine sites.

The table below lists a selection of Dr. Priscu's key projects as a consulting engineer prior to February 2013.

CLIENT	OPERATION	LOCATION
Tailings Dams and Mine Waste Management; Water Retaining Dams		
Teck Resources Limited	Highland Valley Copper Operations	BC, Canada
Canaccord Genuity Limited	Confidential Operation (Investments)	BC, Canada
Pan American Silver Corp.	Mina Quiruvilca / Mina Huaron	Peru
Teck Resources Limited	Elkview Coal	BC, Canada
Barrick Gold Corp.	Nickel Plate Mine	BC, Canada
Newgold Inc.	Blackwater Project	BC, Canada
Oyu Tolgoy LLC (Rio Tinto)	Oyu Tolgoy Mine	Mongolia
OneSteel Manufacturing Pty Ltd	Whyalla Ops	SA, Australia
Xstrata Copper Canada	Kidd Mine	ON, Canada
Vale Newfoundland and Labrador	Voisey's Bay Mine	NL, Canada
Lundin Minerals	Central Ops	Spain
Inmet Mining	Various Locations	Canada & US
Xstrata Zinc	Heath Steele Mine	NB, Canada
Ontario Ministry of Northern Development, Mines and Forestry	Kerr Mine	ON, Canada
BHP Billiton (now BHP)	Jansen Project	SK, Canada
Shore Gold Inc.	Star – Orion Diamond Project	SK, Canada

Vale Canada Ltd (and predecessor companies, Vale Inco, CVRD, Inco Ltd.)	Thompson 1-D; Sudbury Ops, Thompson Ops, Pipe Lake Mine, Soab N & S Mines, New Thompson Open Pit, Birchtree Mine	MB, Canada
Manitoba Hydro	Brandon Ash Lagoons	MB, Canada
Goldcorp Inc.	Equity Silver Mine; Gold Eagle Mines	BC & ON, Canada
Imerys Inc	Various Mining Operations in N. America	QC, Canada CA, GE, NC, United States
Crowflight Minerals	Bucko Lake Project	MB, Canada
Gabriel Resources, RMGC	Rosia Montana Corna Dam	Romania
Manitoba Innovation, Energy and Mines	EL Mine; Multiple Mines	MB, Canada
Public Works and Government Services Canada	Roberts Bay & Ida Bay Mine Sites	NU, Canada
Falconbridge Limited (also Noranda, Xstrata Copper)	Manibridge Mine Site	MB, Canada
Saskatchewan Research Council	Agrium Vanscoy Potash Corp	SK, Canada
Nunavut Water Board	Nanisivik Mine; Lupin Mine	NU, Canada
Manitoba Conservation	Farley Mine	MB, Canada
Cameco Corporation	Key Lake Mine; Rabbit Lake Mine	SK, Canada
Confidential client	Potash Mine in QC	QC, Canada

CLIENT	OPERATION	LOCATION
Dams, Dikes and Water Control Structures for Water Resources Management and Flood Control Major Infrastructure Projects		
Saskatchewan Watershed Authority	Houghton Lake	SK, Canada
Manitoba Infrastructure and Transportation	Red River Valley, MB; Manitoba Interlake Region, MB; Sherlett Creek, MB	MB, Canada

R.M. of Estevan	Boundary Dam Reservoir	SK, Canada
R.M. of Lajord	Davin Lajord Dam	SK, Canada
Manitoba Water Stewardship	Red River Floodway Improvement	MB, Canada
Manitoba Hydro	Wuskwatim Generating Satation; Keeyask (Gulll Lake) Generating Station; Notigi GS; MB; Nat Gas Pipeline Assessment	MB, Canada
Axor Energy	Jean Guérin Hydroelectric Project; Chutes-à-Gorry Hydro Project; Various other BOT/BOOT Projects	QC, Canada; Philippines, Slovenia, Romania, Tunisia
Hydro-Quebec	Multiple Earthfill Dams Software Development and Analyses; Beauharnois Hydroelectric Project Rehabilitation, QC	QC, Canada
Groupe Cascades	Two Water Retaining Dam Safety Review Projects	ON, Canada
Hidroconstructia SA	Poiana Rusca Arch Dam; Turnu Ruieni U/G Hydropower Plant	Romania
Ministry of Water Resources Management, Romania	Lacul Morii Flood Control Structure	Romania
Public Works and Government Services Canada (PWGSC)	Confidential Project, SK	SK, Canada
Various law firms	Expert Witness, Civil Infrastructure Projects in QC and ON	QC & ON, Canada
Ter-Voile Inc.	Earth Retaining Systems	QC & ON, Canada

Publications and Technical Contributions

Dr. Priscu has published and presented over 50 papers in conferences, guest lectures, and workshops around the world. A list of papers and presentations is available on the University of British Columbia web page at the following web address: <https://mining.ubc.ca/caius-priscu/>