

B04: Mine reclamation: Multidisciplinary studies from across mining sectors

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Session Description

Mine reclamation presents considerable challenges for all sectors of the mining industry. Mine wastes stored in reclamation landscapes are in an initial state of chemical, biological and physical disequilibrium, and associated risks to the surrounding environment are often uncertain. Although various reclamation approaches are employed across the mining sector, common short- and long-term challenges include: (1) preventing or minimizing contaminant release; (2) predicting contaminant fate and transport; and (3) achieving measureable environmental improvements. Addressing these and other challenges requires a thorough understanding of interconnected physical, chemical and biological processes. The goal of this session is to bring together hydro(geo)logists, (bio)geochemists, and other reclamation researchers and practitioners to advance our understanding of mine reclamation. Contributions focused on oil sands, metal, and other mining sectors are thus encouraged.

Primary Affiliations: Biogeosciences / Hydrology