

Alexander Shchipansky

Principal Hydrogeologist

Expertise Mining Engineering, Hydrogeology, Groundwater Flow Modeling

Education Ph.D., Hydrogeology, 1992
M.S., Mining Engineering/Hydrogeology, 1984
Mining Institute, St. Petersburg, Russia

Registrations Mining Engineer/Hydrogeologist, CIS

Certifications MSHA (Mining Safety and Health Administration), First Aid, CPR,
WHMIS (Workplace Hazardous Materials Information System)

Professional Experience

2007 – Present *HCItasca Denver, Inc. (formerly, Hydrologic Consultants, Inc. of Colorado)*
Principal Hydrogeologist

2002 – 2007 *Hydrologic Consultants, Inc. of Colorado, Lakewood, Colorado*
Senior Hydrogeologist

1991 – 2002 *Hydrogeoeological Research and Design Company (HYDEC),*
Moscow, Russia
Lead Research Hydrogeologist

1984 – 1991 *All Union Research and Design Institute of Mineral Deposit Drainage*
(VIOGEM), Belgorod, Russia
Research Scientist

Project Experience

Conceptual and Numerical Hydrogeologic Modeling: Assessment of mining impacts on the quantity and quality of surface-water and groundwater resources and creation of protective measures for said resources, including water-resource protection systems, prediction of passive inflow to mines, design of dewatering systems for open-pit mines, and assessed leakage from tailings facilities; development of deep aquifers and petroleum reservoirs; prediction of regional hydrologic impacts of large water impoundments; design of field investigations of flow in fractured rocks; modeling of hydrocarbon spills, recovery of LNAPLs, mass transport and groundwater flow.

Field Testing: Design and testing of solute migration in fractured rocks, planning and design of point piezometers in pit highwalls.

Laboratory Testing: Design and testing of laboratory columns and physical model experiments to evaluate adsorption agents on various materials.

Hydrogeologic Analysis: Mine dewatering, water resource development and protection, development of deep aquifers and petroleum reservoirs, and assessment of hydrocarbon contamination.