

Senior Hydrogeologist

Expertise	Groundwater Hydrology
Education	B.A. (Geology), 1983, University of Colorado, Boulder B.A. (Environmental Studies), 1978
Registrations	Registered Professional Geologist: Utah (No. 5529811-2250) Registered Professional Geologist: Wyoming (No. 1486)
Professional Experience	
2007 – Present	<i>Itasca Denver, Inc., (formerly Hydrologic Consultants, Inc.), Colorado Senior Hydrogeologist</i>
2006 – 2007	<i>Hydrologic Consultants, Inc. of Colorado, Lakewood, Colorado Contract Hydrogeologist</i>
1999 – 2006	<i>TRC Environmental Corp. Littleton, Colorado Senior Hydrogeologist</i>
1995 – 1999	<i>Hydro Geo Consultants, Lakewood, Colorado Senior Hydrogeologist</i>
1992 – 1995	<i>Jacobs Engineering, Denver, Colorado Project Hydrogeologist</i>
1984 – 1991	<i>FMC Gold Corporation and Echo Bay Exploration, Reno, Nevada Project Geologist</i>

Expertise

Mr. Wright specializes in hydrogeologic, geologic and environmental studies for the mining industry. He currently serves as Project Manager for an open-pit diamond-mine dewatering project in northern Ontario, Canada. Over the last 20 years, he has worked extensively on investigations involving ground- and surface-water issues for mine permitting and development, mine closure, and mine environmental compliance. This work has included investigations involving aquifer characterization, groundwater contaminant characterization, and water supply and dewatering programs for mining operations.

Mr. Wright has managed rotary, core, hollow-stem auger, and sonic drilling programs for geological and hydrogeological characterization, environmental characterization and minerals exploration. He has designed and implemented borehole geophysical-logging programs for geological, hydrogeological and environmental characterization purposes. His experience includes installation and testing of deep, large-diameter production and dewatering wells, and monitoring wells. He has performed various types of aquifer tests, including single borehole tests, heat-pulse flowmeter tests, packer permeability tests and multiple well-pumping tests. His international experience includes projects in Argentina, Canada, Indonesia, Mexico, and Peru.

Selected Project Experience

- Pit-filling study for closure of three mines (Yanacocha, Maqui Maqui, La Quinua) in northern Peru for Minera Yanacocha S.A. The study predicted pit-filling rates and pit-lake water quality at three large open-pit mines operated by Minera Yanacocha (Newmont Mining) in northern Peru. Analytical techniques were used to predict the rate of pit filling.
- Onsite manager overseeing groundwater exploration drilling program, and installation and testing of water supply wells to establish water supply for the Batu Hijau project in Indonesia. Supervised and performed analysis of well pumping tests and prepared reporting documents.
- Onsite manager overseeing installation of tailings-dam groundwater pump-back system at the Alumbraera Project, a large porphyry copper mine in northern Argentina. Supervised a groundwater exploration program and installation of eight high-capacity pump back wells and associated piezometers. Oversaw up to six drill rigs and 4 contract geologists.
- Senior hydrogeologist for a hydrogeologic study for the Turquoise Ridge Project at the Getchell gold mine in Nevada. Study included design of deep (2000 ft.) shaft dewatering wells, packer permeability testing of wells, long-term multiple-well pumping tests, and calculations of groundwater inflow to the mine with recommendations for mine dewatering. Pumping test specifications and evaluation of pump test data for mine water-supply well.
- Hydrogeologic study for the Climax Molybdenum Company at its Henderson mine, including in-mine aquifer testing, potentiometric surface determination and calculations of groundwater inflow to underground development in support of the Henderson 2000 Project.
- Supervised a pilot grouting program in support of underground mine permitting for the Crandon Project near Rhinelander, Wisconsin. The program was designed to test the feasibility of grouting the crown pillar of the mine for groundwater-inflow control purposes. Included extensive pre- and post-grouting permeability testing and advancement of verification boreholes to determine the magnitude of hydraulic conductivity reduction resulting from grouting. Preparation of report documents for Nicolet Minerals and the Wisconsin Department of Natural Resources.
- Design and implementation of a hydrogeologic investigation to characterize a large phosphate mining waste-rock dump in Idaho for requirements of an EE/CA. Subsurface characterization included core drilling and logging, monitoring well installation, aquifer testing, geophysical investigations, and laboratory core analyses to determine saturated/unsaturated hydraulic properties of the waste-rock dump. Surface characterization included infiltrometer testing, continual long-term soil moisture monitoring, and installation, long-term monitoring, and analysis of engineered test cells. Vadose zone modeling (SoilCover and Hydrus-2D) and preparation of reporting documents to the client and U.S. Forest Service.