

Annie McCoy
Senior Hydrogeologist
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Ms. McCoy has more than 10 years experience and is a Senior Hydrogeologist at JSAL.

Water Resource Development: Hydrogeologic characterization, well siting studies, evaluation of groundwater supply, and 40-Year Water Development Plans for municipalities, utilities, and water consumers associations.

Groundwater Flow Modeling: Development and calibration of site-specific and regional scale groundwater flow and contaminant transport models to evaluate groundwater supply, support environmental permitting, and support water rights applications. Operation of New Mexico Office of the State Engineer administrative models in support of water rights applications.

Permitting: Technical assistance with various permit applications submitted to the New Mexico Office of the State Engineer for new or replacement wells, proof of beneficial use, proof of completion of well, and to change existing water rights. Technical assistance with environmental permitting as required by State and Federal agencies, including discharge permitting.

Water Supply Well Projects: Development of detailed well drilling specifications (as technical support for Project Engineer) for water supply well projects, including wells completed in artesian aquifers with well depths exceeding 1,000 ft. Management of water supply well projects (as technical support for Project Engineer), including management of well drilling, completion, development, and test pumping. Evaluation of pumping test data and development of pumping schedules for water supply wells.

Groundwater Monitoring: Installation and sampling of groundwater monitoring wells. Installation and maintenance of long-term groundwater monitoring equipment, and development and maintenance of groundwater monitoring databases.

Geologic, Hydrogeologic, and Environmental Field Services: Water quality sampling, soil sampling, soil gas monitoring, streamflow measurements and seepage runs, pumping tests, oversight of drilling and completion of water supply wells and monitoring wells, and installation of long-term groundwater monitoring equipment. Oversight and management of membrane interface probe investigations and dig-and-haul remediation projects at petroleum storage tank sites. Geologic mapping and development of maps and cross-sections in support of hydrogeologic evaluations and environmental permitting.

Geophysical Log Interpretation: Interpretation of geophysical logs from boreholes drilled through unconsolidated sediments, sedimentary rocks, and volcanic rocks.

Statistical Analysis: Using applied environmental statistics, including parametric and non-parametric statistics, to characterize and evaluate hydrogeologic data.

EDUCATION

M.S., Geology, 2001
University of New Mexico
Albuquerque, New Mexico

B.A., Geology, 1999
Hampshire College
Amherst, Massachusetts

REGISTRATIONS

American Institute of Professional
Geologists, CPG-11309

OSHA Hazardous Waste Operations
and Emergency Response certification

MSHA Part 48 certification

AFFILIATIONS

American Water Resource Association
(AWRA)

National Ground Water Association
(NGWA)
