

Daniel Apodaca
Staff Hydrogeologist, Level 1
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Mr. Apodaca has been with JSAI since March 2013. His work at JSAI involves building, organizing, and maintaining databases of water resource and environmental data, and creating visual representations of data through graphs, plots, maps, cross-sections, and diagrams of wells and lithologies. He also operates groundwater models and processes model results, and performs geophysical well log analysis. In the field, Mr. Apodaca has experience sampling groundwater and surface water, performing aquifer pumping tests, overseeing water-supply well drilling projects, and logging lithologies.

Water Resource Database Development:

Building, organizing, and maintaining databases of water resource and environmental data for projects related to water resources development and mining.

Visual Representations of Data:

Preparing graphs and plots in MS Excel and AquaChem, preparing maps using GIS tools, and cross-sections and diagrams using Adobe Creative Suite.

Groundwater and Geochemical Modeling:

Operating groundwater models using the MODFLOW code and processing model results using spreadsheet-based post-processors. Operating geochemical models using PHREEQC and Geochemist's Workbench.

Well Log Analysis:

Geophysical well log analysis and study area correlation, coring analysis.

Hydrogeologic Field Services:

Sampling groundwater and surface water, performing aquifer pumping tests, overseeing water-supply well drilling projects, and logging lithologies. Operating field equipment including well sounders, transducers, and field water quality meters.

Groundwater Monitoring:

Sampling groundwater monitoring wells at various sites contaminated with petroleum hydrocarbons. Collecting samples for field water quality measurements and laboratory analysis.

Software Experience:

MS Word, MS Excel, MS PowerPoint, ArcGIS, Adobe Illustrator, Adobe Acrobat, Adobe Photoshop, AutoCAD, MODFLOW, AquaChem, PHREEQC, Geochemist's Workbench

EDUCATION

B.S. Environmental Science, 2012
University of New Mexico

REGISTRATIONS

OSHA Hazardous Waste Operations
and Emergency Response certification

EMT Basic Certification, 2011