



# Professional Profile

## Dale M. Reynolds

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### Fields of Expertise

- Monitoring Well Installation & Abandonment
- Hydrogeologic Evaluation
- Multi-media Sampling & Monitoring
- Contaminated Site Restoration
- UST Assessment and Remediation
- Data Evaluation and Validation
- Due Diligence/Property Transfer
- Project Management

### Experience Summary

Over 26 years of experience in geological, hydrological, and hazardous waste studies.

Senior Hydrogeologist at TORF Environmental Management, Boise, Idaho for 10 years. Current work involves investigation of groundwater and soil contamination with respect to hazardous wastes and hazardous substances. Work continues to include preparation of scope of work, work plan, monitoring plans, and sampling and analysis plans.

Staff Hydrogeologist for the Morrison Knudsen Corporation's Environmental Services Group, Boise, Idaho for 16 years. Formerly designated as Sampling Program Manager the MK Underground Storage Tank Removal and Closure Program. Performed research and conducted field investigations for hazardous waste sites involving pesticide formulation, chemical production, metals processing, uranium tailings and petroleum storage facilities. Responsibilities included project management; monitoring well design and installation; drilling supervision; and development and implementation of surface water, groundwater, and soil sampling and analysis programs.

Environmental Specialist, Self Employed, Boise, Idaho. Evaluated technical data on hazardous waste sites. Reviewed and analyzed hazardous waste documents concerning types, production, storage, spills, groundwater

### Experience Summary Cont.

contamination, surface water contamination and cleanup of hazardous wastes, and reviewed applicable laws and regulations.

Geologic Consultant for Terra Concepts, Golden, Colorado. Geologist for oil exploration project in Nigeria. Evaluated seismic data for prospective oil and gas reservoirs. Evaluated data and developed geophysical maps.

Geologist for the Morrison Knudsen Corporation, Boise, Idaho. Geologist supporting mining exploration for coal and oil shale energy sources. Performed geological evaluations, worked on drilling programs, and evaluated other scientific data.

Assistant for the United States Geological Survey. Gathered geologic and geophysical data for the Snake River Canyon basalt groups. Researched earthquake risks and performed precision surveying and mapping for the southern coast of Alaska.

Water Quality Technician for Malheur County, Oregon. Performed water quality analyses in the U.S. Bureau of Reclamation laboratory. Analyses focused on samples of runoff and other sources for nonpoint pollutants.

### Credentials

- Professional Geologist - Idaho No. 623
- OSHA 29 CAR 1910.120 Hazardous Waste Training
- OSHA 29 CAR 1910.120(e) Supervisor's Course
- BS, Geology, Boise State University (1979)  
Minor, Chemistry and Math

## KEY PROJECTS

### Monitoring and Assessments

- Investigated possible groundwater and soil contamination at a automobile repair shop located adjacent to an area of known groundwater contamination from leaking USTs. Performed an electromagnet survey to reveal drainage pattern and outflows. Conducted a Geoprobe survey around an oil/water separator.
- Spearheaded well testing for a Phase II Environmental Site Assessment at an agricultural site being considered for development to determine if arsenic levels in the drinking water would necessitate water treatment.
- Coordinated closure of four ground water monitoring wells at a semiconductor manufacturing facility. Prepared and submitted all required documentation to the Idaho Department of Water Resources and assisted in the well closure.
- Lead investigator for contaminated site investigation involving perchloroethylene contamination in soil and groundwater at a multi-tenant industrial park. Work led to State “no further action” determination and delisting from a U.S. EPA contaminated site database.
- Performed Phase 2 Environmental Assessment for potential groundwater contamination at a wood products manufacturing facility. Lead geologist responsible for siting, developing and monitoring groundwater wells.
- Managed Superfund site evaluation and cleanup confirmation soil monitoring at a former lead smelter. Coordinated work with analytical laboratories and validated data. Prepared assessment reports and reviewed waste water assessment data.
- Worked as hydrogeological investigator during remediation of construction yards and work camps in Guam and Saipan. Projects included UST sites, oil water separators and infiltration units. Performed assessments and prepared reports.
- Performed integrated property transaction Phase 1 and Phase 2 Environmental Assessment at a site which included a buried petroleum pipeline and substantial groundwater contamination from bulk fuel distribution facilities at adjacent properties. Lead geologist responsible for siting, developing and monitoring groundwater wells.
- Performed hydrogeologic investigation at a Boise area industrial site. Investigated soil and groundwater contaminated with heavy metals and chlorinated solvents. Work included soil sampling and monitoring well installation and sampling. Equipment and procedures were implemented to identify very low levels of contaminants and prevent cross contamination. Work plans and a final report were developed.
- Performed a detailed soil and groundwater investigation at a former pesticide applicator site. Work included evaluation of historical groundwater monitoring network design and monitoring data; soil sampling; and monitoring well installation and sampling. Key challenges included evaluating residual contamination from previous attempts to treat soil contamination by on-site land-farming, developing data suitable for site-specific risk evaluation and disposal approvals, and gaining regulatory concurrence for site closure.
- Underground Storage Tank Investigation for the State of Idaho. Served as project manager for regulatory site investigations at leaking underground petroleum storage tank site. The projects included surveying well locations and elevations, sampling domestic water wells, determining groundwater flow directions, and compiling data into a final report.
- Phase II Underground Storage Tank Investigation for the State of Idaho. Installed monitoring wells and performed soil gas surveys to determine source of groundwater contamination. Duties included project management, cost estimating, budgeting, work projections, subcontract supervision, data analysis, and report preparation.
- Multi-phase soil and monitoring program at a large vehicle maintenance facility affected by historical oily wastewater discharges into a subsurface disposal system. Project included development and examination of soil pits, development of soil borings, design and installation of groundwater monitoring wells and monitoring groundwater.
- Multi-phase site investigation to identify and characterize soil and groundwater contamination at an abandoned petroleum refinery in Prewitt, New Mexico. Supervised drilling activities and pump testing of the aquifer. Performed data analysis and prepared reports.
- Supervised hydrogeologic investigation at a bulk petroleum storage tank farm in Casper, Wyoming.

### Key Projects cont.

- Investigated leaks and spills at large crude oil storage site and located buried refinery waste ponds which contained acid sludge and separator sludge. Supervised monitoring well installation, soil borings, and sampling. Prepared hydrogeologic data sections for verification report.
- Supervised trenching and soil boring activities and performed sludge sampling at a Petrochemical Complex in Sand Springs, Oklahoma. Work at the Glen Wynn lagoon required advanced level personal protective equipment. Responsible for calibration of numerous toxic vapor and monitoring instruments including a photoionization organic vapor analyzer, hydrogen sulfide, sulfur dioxide and oxygen detectors. Reviewed regulatory agency comments and edited final technical report.
- Task leader for the U.S. Air Force Installation Restoration Program in Shenyra, Alaska. Project included site investigation for soil and groundwater contamination at a remote Air Force Base. Supervised drilling activities for soil and groundwater monitoring. Coordinated personnel and managed and prepared detailed task assignments and budgets.

### Contaminated Site Remediation

- Principle investigator for UST removal program at various military bases in Hawaii. Removed over 100 buried tanks containing aviation fuel, gasoline, diesel fuel, and waste oil. Supervised sampling and analytical activities. Supervised personnel and coordinated work with regulatory agencies. Developed work plans and site characterization reports.
- Underground Storage Tank Removal Closure - NAS, Glenview, Illinois. Serving as Sampling Program Manager for removal and closure of 25 USTs. Work involved managing sampling personnel, directing analytical laboratory, sample tracking, sample validation, and analyzing sampling results. Project involved working with heating oil tanks, gasoline tanks, aviation fuel tanks, waste oil tanks, unknown tanks, and RCRA tanks. Contamination was identified at all removal sites. Sampling was performed for state

closure, RCRA and disposal requirement.

- Numerous environmental restoration projects for the Environmental Restoration Project at the Idaho National Engineering and Environmental Laboratory near Idaho Falls, Idaho. The projects included cleanup and remediation of a former waste injection well, cleanup and remediation of a former waste pond, UST removal and replacement, and cleanup and remediation of above-ground waste storage. Monitoring work included developing written scopes of work and preparing detailed work plans, monitoring plans, sample and analysis plans. Responsibilities included working with various subcontractors and coordinating response to regulatory agency comments.
- Site manager for the site investigation and remediation of the Southern Pacific Railroad hydrazine spill at Seaclyff California. Conducted site investigation for hydrazine and ammonia soil contamination. Task included supervision of sampling activities, data analysis, and report preparation. Supervised soil remediation and site cleanup.

### Environmental Regulatory Audits

- Various Environmental Audits. Conducted environmental audits of gasoline stations, pesticide storage facilities, manufacturing plants, and public buildings. Performed site visits and sampling where required. Conducted audits to identify potential environmental liabilities associated with the properties.