

# Bethel Valley, Oak Ridge National Laboratory, TN

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**Integrity**



Bethel Valley Groundwater Engineering Study in  
the Oak Ridge National Laboratory Main Plant  
Area, Oak Ridge, Tennessee

Contract Value: \$438,612.00

Start Date:  
March 2004

End Date:  
January 2005

Project Reference: CDM Federal Programs, Inc.  
Mark Caldwell  
(865) 482-1065  
Contract # 23900-BA-OR81F Work Release 008

Miller provided air rotary drilling techniques and support crews for drilling activities that included subsurface drilling and well Installation of fourteen (14) new groundwater monitoring wells as well as drilling and installation of two (2) cored boreholes with geophysical logging, flow meter testing in support of the Bethel Valley Groundwater Engineering Study. Groundwater is contaminated primarily with radionuclide and/or volatile organic compounds (VOC's). The underlying geological setting consists of dipping and fractured interbedded limestone, siltstones and shale with major rock units of Rockdell, Benbolt and Witten formations of the Chickamauga Group. Westbay monitoring devices were installed in the cored boreholes with 2 to 4 monitoring ports. Project required an aggressive work schedule, complex drilling strategies, RWP work (required Rad Worker II training) and Waste Management of Hazardous and Radiological Waste, Segregation / Isolation of Solid waste Streams and Multiple Staging Areas.



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