

## STERLING ENVIRONMENTAL ENGINEERING, P.C.

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### Elizabeth M. Dobson-Davis Hydrogeologist

- Education:** MS Geology, Rensselaer Polytechnic Institute, 1985  
BS Geology, Michigan State University, 1984
- Professional Affiliations:** Association of Groundwater Scientists and Engineers,  
National Ground Water Association  
Hudson-Mohawk Professional Geologists Association  
(HMPGA)
- Experience:** 4/2001 to present, Sterling Environmental Engineering, P.C.  
8/1992 – 1/1994, Environmental Hydrogeology Corp.  
11/1988 – 7/1990, The LA Group  
4/1985 – 6/1988, Engineering-Science, Inc.  
9/1985 – 3/1986, United States Geological Survey  
6/1985 – 8/1985, Lake Ijssel Development Authority  
9/1984 – 12/1985, Rensselaer Polytechnic Institute  
7/1983 – 9/1983, New York State Department of Environmental  
Conservation

Ms. Davis' responsibilities at Sterling Environmental Engineering, P.C. include consulting to the solid waste, hazardous waste and property development industries, and legal litigations with regards to assessment of hydrogeologic settings. These responsibilities include test boring and monitoring well installations, monitoring programs, data interpretation and preparation of Environmental Impact Statements.

#### **Special Project Experience:**

Expert witness for litigation case concerning mining impacts of a rock quarry mine in Rensselaer County, New York.

Prepared expert report for litigation case concerning hydrogeology issues for a Class II Inactive Hazardous Waste Site in Cayuga County, New York.

Oversaw completion of Part 360-2.11 requirements (hydrogeology report) for landfill closure in Sullivan County, New York. Requirements included monitoring well design and installation, well development and sampling, and conducting a water well survey.

Conducted a water supply assessment for a town in Dutchess County, New York. Evaluated present water supply system, aquifer protection areas and potential future needs for the town.

Completed a file and literature review and evaluated remedial responses for an Environmental Protection Agency (EPA) National Priority List (NPL) inactive hazardous waste site located in Dutchess County, New York.

Conducted environmental audits for real estate transactions, including field investigations and report preparation.

Designed well construction, pump tests and interpreted results for aquifer analysis for industrial and residential water supply wells.

Oversaw geotechnical investigations for major land development projects, including test pit inspection, percolation tests and soil stability analysis. Responsible for writing Environmental Impact reports.

Field team leader for Phase II investigations of New York State Inactive Hazardous Waste Sites. Field work included geophysical surveys, monitoring well installation and matrix sampling. Responsible for writing and reviewing various sections of Phase II reports.

Field inspector of remedial systems at fuel station sites in western New York.

Designed Lotus 123 program for Fiscal Impact Analyses for Environmental Impact Statements and another program for analyses of phosphorous loading from septic systems and land use to lakes.

Participated in drilling contract negotiations.

Speaker at various town meetings, explained geotechnical aspects of proposed commercial and residential development projects.

Assisted in initial and second phase impact studies of landfill expansions on aquifers in Orange and Sullivan Counties, New York. Helped to initiate field studies, including geophysical surveys and river bottom sampling. Generated aquifer thickness and well yield maps.