

## Earth Resources Analytic, LLC

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## Dr. BRUCE D. SEELIG

### INTERNET CONTACT

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### EXPERIENCE

**Consulting Soil Scientist** owner Earth Resources Analytic, LLC, December 2007 to present. Freelance consulting with Western Plains Consulting, May 2006 to December 2007. Senior scientist with High Plains Consortium, 1998 to December 2003.

- **Soil restoration and reclamation** - Field investigation and recommendations related to soil quality, erosion, salinity & sodicity for landfills, strip mines, oil well pads, water diversion, and production farming in Billings, Burleigh, Cass, Golden Valley, Grand Forks, McLean, McIntosh, McKenzie, Mercer, Sargent, Trail, and Ward Counties in North Dakota.
- **Wetland survey/delineation** - Field investigation of wet soils and their distribution related to energy production and transmission, highway construction, and land development in Barnes, Benson, Cass, Cavalier, Griggs, Grand Forks, Nelson, Ramsey, Richland, Rolette, Steele, and Walsh Counties in North Dakota; Hand and Hyde Counties in South Dakota.
- **Irrigation compatibility** - Field and GIS investigation for soil compatibility in Emmons, McKenzie, Mercer, and Oliver Counties in North Dakota.
- **Septic systems suitability** - Field investigation for soil suitability to septic filtration drainage fields in Cass, Mercer, Morton, Trail Counties in North Dakota.

**Water Quality Program Coordinator** for North Dakota State University Extension Service, October 2000 – May 2006.

Coordinated water quality educational activities in North Dakota within the context of the Northern Plains and Mountains Region Water Quality Education Program led by Colorado State University. Led the regional focus on advanced technological methods (GIS/GPS) for identification of potential impacts to water resources.

**Water Quality Specialist** for North Dakota State University Extension Service, December 1989 to October 2000.

Developed, delivered, and administered a statewide water quality educational program with a variety of components including water testing and treatment, nutrient management, pesticide management, wellhead protection, and animal waste management.

**Teaching and Research Fellow** Soil Science Department, North Dakota State University, Dec. 1986 - June 1989.

**Party leader/soil scientist** for ND Soil Survey (SCS), Jan. 1984 - Dec. 1986.

Lead the USDA, SCS Soil Survey team in Kidder and Foster Counties. Mapped soils on 90,000 acres.

**Soil Scientist** for Iowa Soil Survey (SCS), Jan. 1979 - Jan. 1984.

Member of the USDA, SCS Soil Survey team in Delaware and Sioux Counties. Mapped soils on 130,000 acres.

**Environmental Scientist** for North Dakota Public Service Commission, Siting and Reclamation Division, July 1977 - Jan. 1979.

Coordinated siting permits for energy transmission and conversion facilities.

## EDUCATION

**PhD Soil Science** (1989) North Dakota State University

- **Minor** - Range Management
- **Dissertation title** - Sodic Soil Characteristics and Genesis as a Function of Landscape Position
- **Major Professor** – Dr. Jimmie L. Richardson

**MS Soil Science** (1978) North Dakota State University, Fargo

- **Minor - Geology**
- **Thesis title** - Hydrology and Stratigraphy of Saline Seeps in Northwestern North Dakota
- **Major Professor** – Dr. Bruce K. Worcester

**BS Medical Technology** (1974) Minot State College

## PROFESSIONAL CERTIFICATIONS

**Registered Professional Soil Scientist**, 1999, WI Board of Professional Registry.

**Registered Professional Soil Classifier**, 1984, ND State Board of Registration for Professional Soil Classifiers.

**Certified Professional Soil Scientist**, 1983 and **Professional Soil Classifier**, 1984, American Registry of Certified Professionals in Agronomy, Crops, and Soils.

## **PROFESSIONAL AFFILIATIONS**

**Soil Science Society of America**

**Professional Soil Classifiers Association North Dakota**

**National Society of Consulting Soil Scientists**