



**BKS Environmental  
Associates, Inc.**  
Gillette, Wyoming

**BRENDA K. SCHLADWEILER**  
RECLAMATION SPECIALIST  
SENIOR SOIL SCIENTIST  
SENIOR PLANT ECOLOGIST  
SENIOR WETLAND SPECIALIST

PRESIDENT, BKS ENVIRONMENTAL ASSOCIATES, INC.

## EDUCATION

Ph.D.  
Soil Science  
University of Wyoming: Laramie  
Dissertation: Soil and Plant  
Responses to Variable Topsoil  
Replacement Depths at a Coal  
Mine in Northeastern Wyoming.  
Research was conducted at the  
North Antelope/Rochelle Mine  
southeast of Wright, Wyoming.

M.S.  
Soil Science  
University of Wyoming:  
Laramie  
Thesis: Relationship between Soil  
Selenium Concentration and  
Selenium Uptake by Vegetation on  
Surface Coal Mine Lands in  
Wyoming

B.S.  
Range Management (Land  
Rehabilitation)  
Colorado State University: Fort  
Collins

## CERTIFICATION & TRAINING

T&E Plant Surveys  
State of Wyoming Abandoned  
Mine Program

Wetland Delineator  
Omaha and Sacramento Districts  
U.S. Corps of Engineers

OSHA Hazardous  
Waste/Supervisor

MSHA Experienced Miner

Certified Professional Soil  
Scientist, ARCPAC

## SKILLS SUMMARY

Conducted baseline soils and vegetation assessments in Wyoming, Utah, South Dakota, and Montana for coal and non-coal operations, including both large and small mine permit applications

Directed and maintained ongoing operation soils and vegetation assessments on various energy development projects

Compiled reclamation plans for various proposed, existing or abandoned mining and oil and gas projects

Administered and coordinated construction management and monitoring on various mining and oil and gas reclamation projects

Conducted environmental audits or Phase I assessments of various industrial sites

Reclamation skills training for interested parties, including topsoil management

## PROFESSIONAL EXPERIENCE

**Environmental Technician:** 1979, Thunder Basin Coal Company, Black Thunder Mine, Wright, Wyoming

**Range Scientist:** 1980, Energy Fuels, Kerr Coal Company, Walden, Colorado

**Assoc. Environmental Coordinator:** 1980-1982, ARCO Coal Company, Coal Creek Mine, Wright, Wyoming

**Project Coordinator:** 1982, Anaconda Minerals Company, Denver, Colorado

**President, Reclamation Specialist:** 1982-Present, BKS Environmental Assoc., Inc., Gillette, Wyoming

## PUBLICATIONS

### REFEREED PUBLICATIONS

Schladweiler, B.K. 2009. *Comparison of Coal Mine Reclamation under the Surface Mining Control and Reclamation Act of 1977 and Oil and Gas Sites in Wyoming.* American Society of Mining and Reclamation. Billings, Montana.

**PROFESSIONAL  
AFFILIATIONS**

Certified Professional in Rangeland  
Management (CPRM)

Commercial Pesticide Applicator

Soil and Water Conservation  
Society

Soil Science Society of America

Society for Range  
Management

American Society for  
Mining Reclamation

Society for Mining,  
Metallurgy, and  
Exploration, Inc.

Western Society of Soil  
Science

Association of Women  
Soil Scientists

National Society of  
Consulting Soil Scientists

Wyoming Weed  
Management Association

Schladweiler, B.K. 2007. *Ongoing Evaluation of Effects from Variable Topsoil Depths at a Coal Mine in Northeastern Wyoming*. American Society of Mining and Reclamation. Gillette, Wyoming.

Schladweiler, B.K., G.F. Vance, D.E. Legg, L.C. Munn, and R. Haroian. 2005. *Topsoil Depth Effects on Reclaimed Coal Mine and Native Area Vegetation in Northeastern Wyoming*. Rangeland Ecology & Management Vol 58:167-176.

Schladweiler, B.K., G.F. Vance, D.E. Legg, and S. Belden. 2005. *Ongoing Evaluation of Effects from Variable Topsoil Depths at a Coal Mine in Northeastern Wyoming*. 2005. National Meeting of the American Society of Mining and Reclamation.

Schladweiler, B.K., G.F. Vance, D.E. Legg, L.C. Munn, and R. Haroian. 2004. *Influence of Variable Topsoil Replacement Depths on Soil Chemical Parameters within a Coal Mine in Northeastern Wyoming*. Arid Land Research and Management. Vol 18:347-358.

Schladweiler, B.K., G.F. Vance, and R. Haroian. 2002. *Influence of Variable Topsoil Replacement Depths on Soil and Plant Characteristics at a Coal Mine in Northeastern Wyoming*. American Society of Mining and Reclamation. Lexington, Kentucky. Pg 1157.

Schladweiler, B.K. and G.F. Vance. 1996. *Vegetation Diversity within Native and Reclaimed Coal Mine Sites: Environmental Factors and Seasonal Variability*. American Society of Surface Mining and Reclamation Proceedings, Knoxville, Tennessee. Vol 13:472-483.

Schladweiler, B.K., G.F. Vance, D.E. Legg, and C. Bilen. 1995. *Regression Analysis to Predict Selenium Levels at Two Surface Coal Mines in the Powder River Basin, Wyoming*. Decades Later: A Time for Reassessment. American Society of Surface Mining and Reclamation, Princeton, WV. Vol I: 246-257.

Schladweiler, B.K., G.F. Vance, R.N. Pasch, P.K. Carroll, M.S. Page, D.L. Bonett, & S.E. Williams. 1993. *Relationship between Soil Selenium Concentrations & Selenium Uptake by Vegetation on Surface Coal Mine Lands in Wyoming*. Billings Reclamation Symposium. Office of Surface Mining. Vol I: 119-130.

Schladweiler, B.K., G.F. Vance, P.K. Carroll, M.S. Page, P. Wanek, D.L. Bonett, R.N. Pasch, and S.E. Williams. 1993. *Comparison of Selenium Uptake by Vegetation on Surface Coal Mine Land in Wyoming and Seasonal Variability of Uptake*. American Society of Surface Mining and Reclamation. Vol II: 828-838.

#### REFEREED ABSTRACTS

Schladweiler, B.K., G.F. Vance, D.E. Legg, and S. Rexroat. 1997. *Hydric soils and their relationship to plant biodiversity within reclaimed stream channels in semi-arid environments*. *Agronomy Abstracts*, 89:315.

Schladweiler, B.K., G.F. Vance, R.N. Pasch, P.K. Carroll, M.S. Page, D.L. Bonett, and S.E. Williams. 1995. *Relationship between Soil Selenium Concentrations and Selenium Uptake by Vegetation on Surface Coal Mine Lands in Wyoming*. *American Society of Surface Mining and Reclamation Abstracts*, p. 861.

Schladweiler, B.K., G.F. Vance, P.K. Carroll, M.S. Page, P. Wanek, D.L. Bonett, R.N. Pasch, and S.E. Williams. 1993. *Comparison of Selenium Uptake by Vegetation on Surface Coal Mine Land in Wyoming and Seasonal Variability of Uptake*. *American Society of Surface Mining Reclamation Abstracts*, p. 36.

Vance, G.F., R.N. Pasch, D.L. Bonett, B.K. Schladweiler, P.K. Carroll and M.S. Page. 1992. *Evaluation of Various Selenium Extraction Methods for Correlating Soil/Backfill Levels to Plant Concentrations*. *Agronomy Abstracts*, p. 246.

#### MISC. RESEARCH PUBLICATIONS

Vance, G.F., C.P. Skinner, B.K. Schladweiler, and J.A. Young. 1997. *Selenium in the Environment: Soil/Geology, Vegetation, and Animal Science Research*. U.S. Army, Fort Carson DECAM Research Report, Colorado Springs, CO. 45pp.

Vance, G.F., R.N. Pasch, P.K. Carroll, M.S. Page, and B.K. Schladweiler. 1991-1994. *Relationship between Soil Selenium Concentrations and Selenium Uptake by Vegetation on Surface Coal Mine Lands in Wyoming*. *Proceedings of the First, Second, Third, Fourth, Fifth, and Sixth Abandoned Coal Mine Lands Research Meeting*. Sheridan, Gillette, Kemmerer, and Laramie, Wyoming, 24pp.

Pasch, R.N., G.F. Vance, S.E. Williams, M.S. Page, P.K. Carroll, and B.K. Schladweiler. 1992. *Relationship between Soil Selenium Concentrations and Selenium Uptake by Vegetation on Surface Coal Mine Lands in Wyoming*. *Abandoned Coal Mine Lands Research Meeting*, Gillette, Wyoming.

#### PRESENTATIONS

Schladweiler, B.K. 2009. *Comparison of Coal Mine Reclamation under the Surface Mining Control and Reclamation Act of 1977 and Oil and Gas Sites in Wyoming*. American Society of Mining Reclamation. Billings, Montana.

Schladweiler, B.K. 2009. *Abandoned Mine Land Uranium Reclamation and Research in Wyoming*. U2009 Global Uranium Symposium. Denver, Colorado.



Schladweiler, B.K. 2008. *Reclamation in Northeastern Wyoming*. Society for Range Management/Society for Soil Water Conservation Society combined state meeting. Cheyenne, Wyoming.

Schladweiler, B.K. 2008. *Topsoil Management Issues Related to Oil and Gas Development*. PAW Reclamation Conference. Casper, Wyoming.

Schladweiler, B.K. 2007. *Ongoing Evaluation of Effects from Variable Topsoil Depths at a Coal Mine in Northeastern Wyoming*. American Society of Reclamation. Gillette, Wyoming.

Schladweiler, B.K. 2007. *Vegetation and Soils Recovery for Post-CBNG Co-produced Water Discharge*. Wyoming BLM, Buffalo Field Office. Best Management Practices.

Schladweiler, B.K. 2006. *Vegetation and Soils Recovery for Post-CBNG Co-produced Water Discharge*. Coalbed Methane Education Fair.

Schladweiler, B.K. 2006. Reclamation Class, Wyoming Workforce Development, Gillette Campus.

Schladweiler, B.K. 2006. *A Survey of Successful Mineland Revegetation Techniques*. Billings Land Reclamation Symposium.

Schladweiler, B.K. 2005. *Topsoil Management Workshop, Part 1*. Coalbed Methane Education Fair.

Schladweiler, B.K. 2005. *A Survey of Successful Mineland Revegetation Techniques*. SRM/SWCS Combined Annual Meeting.

Schladweiler, B.K.. 2004. *Environmental Assessments Related to CBNG Activity*. Wyoming Water Well Association.

Schladweiler, B.K. 2004. *Overview of Natural Resources in the Powder River Basin*. Wyoming L.E.A.D. Seminar.

Schladweiler, B.K. 2001. *Effect of CBM Water on Soils and Vegetation*. Coalbed Methane Education Fair.