

Coal Mining

KEY SERVICES

Site Assessments:

- Backfill sampling & monitoring
- Topsoil pedestals for topsoil salvage depths
- Topsoil replacement verification for bond release
- Order 1, 2, and 3 soil mapping
- Soil limiting factors
- Erosion potential
- Vegetation community mapping
- Dominant vegetation species
- Noxious weeds
- Threatened, endangered and special status plants
- USFS and BLM Biological Assessments and Evaluation
- Wetland delineations
- Wetland mitigation monitoring

Reclamation Monitoring

- Weed surveys
- Interim reclamation monitoring
 - Qualitative assessments
 - Quantitative assessments
- Reclamation success / bond release assessment
- Stormwater pollution prevention plan

BKS Environmental Associates, Inc. (BKS) has been providing natural resource services to the mineral extraction industry since 1981.

BKS has a robust safety plan and meets requirements set forth by Browz, ISNetwork, and PEC Premier.

SOIL ASSESSMENTS

- Management of topsoil/suitable subsoil and undesirable subsoil
- Topsoil salvage depth determinations and verifications
- Re-establishment of slope and surface stability and topographic diversity
- Backfill soil sampling
- Erosion control practices
- Overburden sampling



WETLANDS—AQUATIC RESOURCE INVENTORY

BKS can aid your company during baseline analysis to determine the aquatic resources within your proposed permit area. BKS can also assist with wetland mitigation planning and monitoring. BKS are experts in conducting aquatic resource inventories.

BKS will utilize:

- CIR imagery and NAIP Imagery
- Topographic mapping
- USFWS National Wetlands Inventory mapping
- USACE supplements— Great Plains, Arid West, and Western Mountains, Valleys
- Relationships with USACE regulators

Please visit our website at www.bksenvironmental.com for further information.



Client List

- Bridger Coal Mine
- Kemmerer Coal Mine
- Antelope Coal Mine
- Cordero Coal Mine
- Eagle Butte Mine
- Glenrock Coal Mine
- North Antelope Rochelle Mine (NARM)
- School Creek Mine
- Caballo Mine
- Rawhide Mine
- Black Thunder Mine
- Coal Creek Mine
- Ramaco, LLC
- Wyodak Resources, Inc.

BKS Environmental Associates, Inc. was established in 1981.

- - -

BKS' mission is to provide the highest quality natural resource services to all of our clients.

- - -

All BKS employees have MSHA 24 hour New Miner or 8 hour Annual Refresher Training

RECLAMATION MONITORING SERVICES

Vegetation assessments meet State and Federal requirements.

- Interim Reclamation Monitoring
- Qualitative Monitoring
- Trend analysis
- Shrub Density Evaluations
- Shrub Mapping
- Noxious/Invasive Weed Mapping
- Sage-Grouse Habitat Surveys



RECOMMENDATIONS FOR ENHANCED RECLAMATION

- Soil testing to determine amendments to aid plant establishment
- Inter-seeding with specific seed mix
- Erosion control methods
- Weed management methods

BOND RELEASE ASSESSMENT

- Vegetation Surveys
 - Cover
 - Production
 - Shrub Density
- Vegetation Assessment to compare the reclaimed vegetation parameters to the
 - Comparison area
 - Extended reference area
 - Native vegetation
 - Regulatory standard
- Statistical Analysis Comparison

BKS CONTACT INFORMATION

Gillette

P.O. Box 3467
Gillette, WY 82717
(P) 307.686.0800
(F) 307.686.0880

Rock Springs

P.O. Box 3017
Rock Springs, WY 82902
(P) 307.382.2443

Dickinson

P.O. Box 1930
Dickson, ND 58602
(P) 701.300.0672

cadams@bksenvironmental.com