

SELECTED REFERENCES

The following is a partial list of references pertinent to aquifer studies within the central and eastern Black Hills.

GENERAL

- Aller, L., Bennett, T., Lehr, J. H., Petty, R. J. and Hackett, G., 1987, DRASTIC: A standardized system for evaluating ground water pollution potential using hydrogeologic settings: U. S. Environmental Protection Agency, EPA/600/2-87/035, 622 p.
- Carter, J. M., Driscoll, D. G., Williamson, J. E. and Lindquist, V. A., 2002, Atlas of water resources in the Black Hills area, South Dakota: U. S. Geological Survey Water-Resources Investigations Report 01-4119, 120 p.
- Cheema, T. J., 1995, Fractures, fracture traces, and directional permeability: a field, experimental, and numerical study: Ph.D. dissertation, South Dakota School of Mines and Technology, 238 p.
- Darton, N. H. and Paige, S., 1925, Geologic atlas of the United States, central Black Hills, South Dakota: U. S. Geological Survey Folio 219, 34 p.
- Driscoll, D. G., Carter, J. M., Williamson, J. E., and Putnam, L. D., 2002, Hydrology of the Black Hills area: U. S. Geological Survey Water-Resources Investigations Report 02-4098, 150 p.
- Lester, J. L., 2004, Geology of the Rockerville Quadrangle, South Dakota, and fracture study of the northern half of the quadrangle: Unpub. M. S. thesis, South Dakota School of Mines and Technology, 221 p.
- Sawyer, J. F., 2006, Water quality near wastewater treatment systems in alluvial and karst hydrogeologic settings, Black Hills, South Dakota: Ph.D. dissertation, South Dakota School of Mines and Technology, 197 p.
- Williamson, J. E. and Carter, J. M., 2001, Water-quality characteristics in the Black Hills area, South Dakota: U. S. Geological Survey Water-Resources Investigations Report 01-4194, xx p.

GEOLOGIC MAPS

- Fahrenbach, M. and Sawyer, J. F., 2001, Geologic map of the Rapid City West quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 3, 1,24,000 scale.
- Hargrave, R. G. and Lisenbee, A. L., 2004, Geologic map of the Blackhawk quadrangle, Black Hills of South Dakota (1:24,000 scale): Geological Society of America, Denver Annual Meeting, November 7-10.
- Lester, J. L. and Rahn, P.H., 2001, Geologic map of the Rockerville quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 1, 1,24,000 scale.
- Lisenbee, A. L. and Hargrave, R., 2001, Geologic map of the Blackhawk quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 5, 1,24,000 scale.
- Redden, J. A., 2010, Geologic map of the Piedmont quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 5, 1,24,000 scale.

Redden, J. A., Alexander, D. L., and Nonnast, D., 2010, Geologic map of the Silver City quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 4, 1,24,000 scale.

Redden, J. A. and Nonnast, D. and Siren, D., 2001, Geologic map of the Custer quadrangle, South Dakota: Geological Survey, South Dakota Department of Environment and Natural Resources, 7.5 Minute Geologic Quadrangle Map 12, 1,24,000 scale.

INYAN KARA AQUIFER

Engstrom, W. S., 1979, Sedimentology of the Inyan Kara Group east of Piedmont , South Dakota: Unpub. M.S. thesis, South Dakota School of Mines and Technology, 104 p.

Francisco, E. M., 2008, Susceptibility and vulnerability of the Inyan Kara aquifer in the Blackhawk quadrangle: Unpub. M. S. thesis, South Dakota School of Mines and Technology, 81 p.

MADISON AQUIFER

Carter, J. M., Driscoll, D. G. and Hamade, G. R., 2001, Estimated recharge to the Madison and Minnelusa aquifers in the Black Hills area, South Dakota and Wyoming, water years 1931-98: U. S. Geological Survey Water-Resources Investigations Report 00-4278, 66 p.

Greene, E. A., 1993, Hydraulic properties of the Madison aquifer system in the western Rapid City area, South Dakota: U. S. Geological Survey Water-Resources Investigations Report 93-4008, 56 p.

Greene, E. A., and Rahn, P. H., 1995, Localized anisotropic transmissivity in a karst aquifer: Ground Water, v. 33, no. 5, p. 806-816.

Hocking, C. M., 2007, Geohydrology of the Madison Aquifer in the Hayward quadrangle, Pennington and Custer Counties, South Dakota: Unpub. M.S. thesis, South Dakota School of Mines and Technology, 76 p.

Long, A. J. and Putnam, L. D., 2002, Flow-system analysis of the Madison and Minnelusa aquifers in the Rapid City area, South Dakota – conceptual model: U. S. Geological Survey Water-Resources Investigations Report 02-4185, 100 p

Miller, S. L., 2005, Influence of Geologic Structure and Stratigraphy on Ground-Water Flow Paths in the Karstic Madison Aquifer in the Rapid City Area, South Dakota: Ph.D. dissertation, South Dakota School of Mines and Technology, 191 p.

Rahn, P. H., 1985, Permeability of the Madison aquifer in the Black Hills area: Final Technical Report, South Dakota Ground-Water Research and Public Education Program, 131 p.

MINNELUSA AQUIFER

Carter, J. M., Driscoll, D. G. and Hamade, G. R., 2001, Estimated recharge to the Madison and Minnelusa aquifers in the Black Hills area, South Dakota and Wyoming, water years 1931-98: U. S. Geological Survey Water-Resources Investigations Report 00-4278, 66 p.

Hargrave, R. G., 2005, Vulnerability of the Minnelusa aquifer to contamination in the Rapid City West quadrangle, Pennington County, South Dakota: Unpub. M. S. thesis, South Dakota School of Mines and Technology, 80 p.

PRECAMBRIAN (CRYSTALLINE) AQUIFERS

- Alexander, D.L., 2002, Geology and fracture analysis of the Silver City quadrangle, Black Hills, South Dakota: Unpub. M.S. thesis, South Dakota School of Mines and Technology, 115 p.
- Anderson, F. J., 2002, Structural and hydrogeological analysis of systematic fracture sets within Precambrian metamorphic and Lower Paleozoic bedrock: Pactola Dam quadrangle, Black Hills, South Dakota: Unpub. M. S. thesis, South Dakota School of Mines and Technology, 108 p.
- Nonnast, D. A., 2006, Geology and joint set analysis of the southern half of the Custer quadrangle, Black Hills, South Dakota: Unpub. M. S. thesis, South Dakota School of Mines and Technology, 141 p.
- Rahn, P. H., and Johnson, C. S., 2002, Effects of anisotropic transmissivity on a contaminant plume at Nemo, South Dakota: Environmental and Engineering Geoscience, v. VIII, no. 1, p. 11-18.
- Siren, D., 2001, Geology and fracture/joint analysis of the northern half of the Custer quadrangle, Black Hills, South Dakota: Unpub. M. S. thesis, South Dakota School of Mines and Technology, p.