

LCRWPG ADOPTED PLAN

APPENDIX 6C

TPWD SUPPLEMENTAL INFORMATION RESOURCES FOR SECTION 6.3

LOCATED IN VOLUME II OF THE LCRWPG REGIONAL WATER PLAN - APPENDICES

Rocky Creek:

Bayer, C. E., J. R. Davis, S. R. Twidwell, R. Kleinsasser, G. Linam, K. Mayes, and E. Hornig. 1992. Texas aquatic ecoregion report: an assessment of least disturbed streams. Draft. Texas Water Commission, Austin, Texas.

The Barton Springs Segment of the Edwards Aquifer:

A comprehensive list of literature about the Barton Springs portion of the Edwards aquifer was prepared by the City of Austin in collaboration with the Austin History Center and is available at <http://www.ci.austin.tx.us/aquifer/>. A partial list of existing information obtained from this website is given in Appendix C (Austin, City of 2000).

General Overview:

Abbott, P.L., and Woodruff, C.M., Jr., eds., 1986, The Balcones escarpment-geology, hydrology, ecology and social development in central Texas Geological Society of America, 200 p.

Brown, J.B., Ritch, K.D., and Yelderman, J.C., Jr., 1986, The stratigraphy, geomorphology and groundwater of the Edwards Plateau, Texas Waco, Tex., Baylor Geological Society Field Conference Guidebook, 34 p.

Cardwell, Walter, III 1988, Proceedings; San Marcos & Comal Springs symposium, San Marcos, TX, Southwest Tex. State Univ., 74 p.

Dimmock, P.E., 1986. Regional geomorphology, geology, and hydrogeology of the Edwards Limestone outcrop belt of Texas and their influence on cave formation Waco, Tex., Baylor University, B.S. thesis, 143 p.

Hill, R.T., 1901. Geography and geology of the Black and Grand Prairies of Texas, with detailed descriptions of the Cretaceous formations and special reference to artesian waters U.S. Geological Survey 21st Annual Report, pt. 7, 666 p.

Hill, R.T., and Vaughan, T.W., 1898. Geology of the Edwards Plateau and Rio Grande Plain adjacent to Austin and San Antonio, Texas, with reference to the occurrence of underground waters U.S. Geological Survey 18th Annual Report, pt. 2, p. 193-321.

Metcalf & Eddy, Inc., 1976. Bibliography-appendix to the phase one report, Edwards aquifer study San Antonio, Tex., Metcalf & Eddy, Inc., 87 p.

Trombatori, D.R., 1992. The Edwards aquifer, central Texas, Austin, Tex., University of Texas, Walter Geology Library, 7 p.

Biology and Ecology:

Albritton, E.M., 1994. The Endangered Species Act: The fountain darter teaches what the snail darter failed to teach, Ecology Law Quarterly, vol. 21, no. 4, pp. 1007-1066.

Arsuffi, T. L., 1996. Ecological structure and biodiversity of benthic communities associated with karst topographic springs of the Edwards aquifer region of central Texas and their effects on water quality

assessment - in Abstracts with Programs - Geological Society of America, Boulder, CO, Geological Society of America.

Blair, W.F., 1950. The biotic provinces of Texas, *Texas Journal of Science*, v. 2, no. 1, p. 93-117.

Bowles, David E., Arsuffi, Thomas, L., 1993. Karst aquatic ecosystems of the Edwards Plateau region of central Texas, USA: a consideration of their importance, threats to their existence, and efforts for their conservation, *Aquatic Conservation: Marine and Freshwater Ecosystems*, v. 3, pp. 317-329.

Crowe, Joanna Catherine, 1994. Detailed hydrologic maps of the Comal and San Marcos Rivers for endangered species habitat definition, Austin, TX, University of Texas, M. S. Thesis, 153 p.

Edwards, R.J., Longley, Glenn, Moss, Randy, Ward, John, Matthews, Ray, and Stewart, Bruce, 1989. A classification of Texas aquatic communities with special consideration toward the conservation of endangered and threatened taxa, *Texas Journal of Science*, v. 41, no. 3, p. 231-240.

Karnei, H.S., 1978. A survey of the subterranean aquatic fauna of Bexar County, Texas. San Marcos, Tex., Southwest Texas State University, M.S. thesis, 118 p.

Longley, Glenn, 1981. Ecosystem of a deep confined aquifer in Texas, Eighth International Congress of Speleology (Beck, B.F., ed.), Bowling Green, Ky., July 18-24, 1981, Proceedings of the International Congress of Speleology No. 8, p. 611.

Longley, Glenn, 1981. Ecosystem studies of the central portion-Balcones Fault Zone Edwards aquifer [abs.], *Geological Society of America Abstracts with Programs*, v. 13, no. 5, p. 241.

Longley, Glenn, 1981. The Edwards aquifer - earth's most diverse groundwater ecosystem, *International Journal of Speleology*, v. 11, no. 1-2, p. 123-128. Copyright© 1981, by Biological Abstracts, Inc. (BIOSIS).

Longley, Glenn, 1991. Research needs for Texas aquatic ecosystems, Water for Texas-setting the research agenda, Nov. 18-19, Austin, Tex., Proceedings Austin, Tex., Texas Water Development Board and Texas Water Resources Institute, p. 9-15.

Longley, Glenn, 1992. The subterranean aquatic ecosystem of the Balcones Fault Zone Edwards aquifer in Texas - threats from over pumping, in *Groundwater Ecology*, First International Conference, Tampa, Fla., April, Proceedings Bethesda, Md., American Water Resources Association, p. 291-300.

Mathews, R. and Edwards, R., 1992. Influence of springflows on river flows and instream fisheries, *NEW WAVES* vol. 5, no. 3, pp. 2-3

Neck, R.W., 1986. The Balcones Fault Zone as a major zoogeographic feature, The Balcones escarpment-geology, hydrology, ecology and social development in central Texas Geological Society of America (Abbott, P.L., and Woodruff, C.M., Jr., eds.), p. 35-40.

U.S. Fish and Wildlife Service, 1984. San Marcos River recovery plan for San Marcos River endangered and threatened species - San Marcos gambusia (*Gambusia georgei*) (Hubbs and Peden), fountain darter (*Etheostoma fonticola*) (Jordan and Gilbert), San Marcos salamander (*Eurycea nana*) (Bishop, and The U.S. Fish and Wildlife Service), 109 p.

U.S. Soil Conservation Service, 1978. Draft watershed plan and environmental impact statement, upper San Marcos River watershed, Comal and Hays Counties, Texas U.S. Soil Conservation Service, 102 p.

Wegner, D.E., 1991. Safe play among protected species, *Parks & Recreation*, v. 26, no. 11, p. 42-44.

Water Resources Planning and Management:

Anon, 1992. Effectiveness of alternative systems being monitored in Kerr County, ON-SITE INSIGHTS vol. 1, no. 1, p. 3.

Berryman, Marc E., 1993. A ground water and a contamination potential analysis using a geographic information system - in American Water Resources Association, Texas Section fall meeting on Man's effect on hydrologic systems, p. 66-72 Balcones Research Center, University of Texas, Austin, TX.

Butler, K.S., 1987. Urban growth management and groundwater protection, Austin, Texas, in *Planning for groundwater protection* New York, Academic Press, Inc., p. 261-287.

City of Austin, 1992. Comprehensive watershed ordinance, City of Austin [variously paged].

Conti, R.D., and Smith, H.B., 1990. Comprehensive management of a sole-source aquifer in central Texas-a model for coping with urban development in hydrologically sensitive areas, in 1990 National Conference, Irrigation and Drainage Division, American Association of Civil Engineers, Durang New York, American Association of Civil Engineers, p. 395-403.

Donald G. Rauschuber & Associates, Inc., 1990. Regional water plan for the Barton Springs segment of the Edwards aquifer, Austin, Tex., Donald G. Rauschuber & Associates, Inc., 1 v. [variously paged].

Donald G. Rauschuber & Associates, Inc., 1992. Onion Creek recharge project-engineering assessment and environmental inventory issues report of artificial recharge enhancement, Austin, Tex., Barton Springs/Edwards aquifer Conservation District [variously paged].

Evans, Thomas Anders, 1995. A spatial and statistical assessment of the vulnerability of Texas groundwater to nitrate contamination, Austin, TX, University of Texas, Ph. D. dissertation, 334 p. Regional distribution of permeability in the Edwards aquifer.

Ferguson, B.K., 1991. Urban stream reclamation, *Journal of Soil and Water Conservation*, v. 46, no. 5, p. 324-328.

Jensen, Ric, 1990. Storing water underground-aquifer recharge projects may replenish groundwater supplies, *Texas Water Resources*, v. 16, no. 4, [6] p.

Lamb, B.L., and Lovrich, N.P., 1987. Strategic use of technical information in urban instream flow plans, *Journal of Water Resources Planning and Management*, v. 113, no. 1, p. 42-52.

Longley, Glenn, and Maler, J., 1990. San Marcos River management plan - preliminary report, phase 1 San Marcos, Tex., Southwest Texas State University, Edwards aquifer Research and Data Center Report R2-90, 56 p.

Marsh, William M. and Marsh, Nina L, 1994. Microtopography, runoff processes, sediment transport, and their implications for land-use planning in the central Texas Hill Country, Gulf Coast Association of Geological Societies and Gulf Coast Section of SEPM meeting (AAPG Gulf Coast Section); abs AAPG Bulletin vol. 78 no. 9; p. 1469.

- Mays, L.W., Wanakule, Nisai, and Lasdon, L.S., 1985. Large-scale optimization models for groundwater management, in *Issues in groundwater management* Austin, Tex., University of Texas, Center for Research in Water Resources, Water Resources Symposium Twelve, p. 309-329.
- McKinney, D.C., and Watkins, D.W., Jr., 1993. Management of the Edwards aquifer - a critical assessment, Austin, Tex., University of Texas, Center for Research in Water Resources Technical Report 244, 94 p.
- McKinney, Daene C.; Lindner, P. Ray; Kam, Aaron; Kan, Lihong; Ye, Zichuan, 1995. Edwards aquifer emergency withdrawal reduction plan; a modeling analysis, First International Symposium on Water Resources Engineering, New York, NY, American Society of Civil Engineers, p. 65-70.
- McReynolds, Maureen, 1985. Regulation and development of the northern Edwards aquifer, Edwards aquifer - northern segment, Travis, Williamson, and Bell Counties, Texas, Austin Geological Society Guidebook 8 (Woodruff, C.M., Jr., Snyder, F.R., De La Garza, Laura, and Slade, R.M., Jr., eds.), p. 71-86.
- McReynolds, Maureen, and Slade, R.M., Jr., 1986. A case study of aquifer contamination and development of a ground-water management program, Water Pollution Control Federation Special Report, 14 p.
- Musick, S.P., 1985. Edwards aquifer protection rules, Williamson County, Edwards aquifer-northern segment, Travis, Williamson, and Bell Counties, Texas, Austin Geological Society Guidebook 8 (Woodruff, C.M., Jr., Snyder, F.R., De La Garza, Laura, and Slade, R.M., Jr., eds.), p. 61-63.
- Shih, C.S., Ingram, J.W., and Hogenauer, D.O., 1979. Protection of groundwater resources using multiattribute decision analysis, International Water Resources Association Third World Congress on Water Resources Mexico Papers - World Congress on Water Resources (Ponencias - Congreso Mundial sobre Provechamientos Hidraluicos), 3 v. 5, p. 2,477-2,487.
- Stein, William G., 1993. Population and well distribution for the Edwards aquifer, American Water Resources Association, Texas Section fall meeting on Man's effect on hydrologic systems, p. 17-22, Balcones Research Center, University of Texas, Austin, TX.
- Streckfus, D.L., 1977. The successful involvement of a citizen group in an environmental controversy, Aquifer Protection Association, and the Edwards aquifer, San Marcos, Tex., Southwest Texas State University, M.S. thesis, 140 p.
- U.S. Environmental Protection Agency, 1988. A portion of the Austin-area Edwards aquifer in parts of Hays and Travis Counties, Texas; sole source aquifer; final determination Federal Register, v. 53, no. 109, p. 20,897-20,899.
- Wanakule, Nisai, 1987. A groundwater management model for the Barton Springs-Edwards aquifer [abs.], Geological Society of America Abstracts with Programs, v. 19, no. 3, p. 180.
- Wanakule, Nisai, 1989. Optimal groundwater management models for the Barton Springs-Edwards aquifer, San Marcos, Tex., Southwest Texas State University, Edwards Aquifer Research and Data Center Report R1-89, 31 p.

Wanakule, Nisai, and Anaya, Roberto, 1993. A lumped parameter model for the Edwards aquifer, College Station, Tex., Texas A&M University, Texas Water Resources Institute Technical Report 163, 84 p.

Wanakule, Nisai, and Mays, L.W., 1986. Optimal management of large-scale aquifers-methodology and applications, *Water Resources Research*, v. 22, no. 4, p. 447-465.

Wanakule, Nisai, Mays, L.W., and Lasdon, L.S., 1985. Development and testing of a model for determining optimal pumping and recharge of large-scale aquifers, Austin, Texas, University of Texas at Austin, Center for Research in Water Resources Technical Report 217, 137 p. [Available from National Technical Information Service, Springfield, VA 22161 as NTIS report PB86-186210.]