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Water and Rock Geochemistry, Geologic Cross Sections, Geochemical Modeling, and Groundwater Flow Modeling for Identifying the Source of Groundwater to Montezuma Well, a Natural Spring in Central Arizona

By U. S. Department Of Interior

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 72 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. The National Park Service (NPS) seeks additional information to better understand the source(s) of groundwater and associated groundwater flow paths to Montezuma Well (fig. 1) in Montezuma Castle National Monument, central Arizona. The source of water to Montezuma Well, a flowing sinkhole in a desert setting (see picture on cover), is poorly understood. Water emerges from the middle limestone facies of the lacustrine Verde Formation (Twenter and Metzger, 1963), but the precise origin of the water and its travel path are largely unknown (McKee and others, 1947; Lange, 1957). Some have proposed artesian flow to Montezuma Well through the Supai Formation, which is exposed along the eastern margin of the Verde Valley and underlies the Verde Formation (Konieczki and Leake, 1997). The groundwater recharge zone likely lies above the floor of the Verde Valley somewhere to the north or east of Montezuma Well, where precipitation is more abundant. Additional data from groundwater, surface water, and bedrock geology are required for Montezuma Well and the surrounding region to test the current conceptual ideas, to provide new details on the groundwater flow in...



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