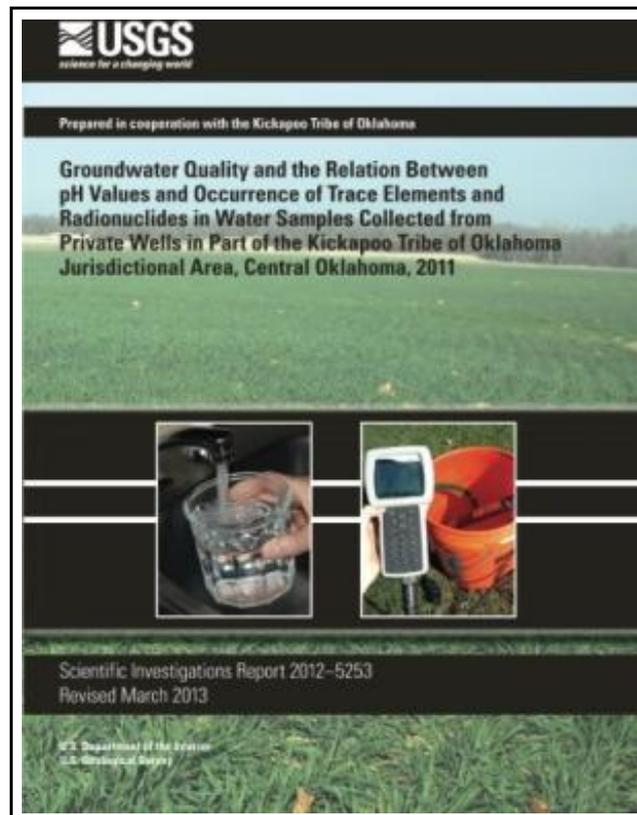


# Groundwater Quality and the Relation Between PH Values and Occurrence of Trace Elements and Radionuclides in Water Samples Collected from Private Wells in Part of the Kickapoo Tribe of Oklahoma Jurisdictional Area, Central



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***(Stefan Von)***

## **GROUNDWATER QUALITY AND THE RELATION BETWEEN PH VALUES AND OCCURRENCE OF TRACE ELEMENTS AND RADIONUCLIDES IN WATER SAMPLES COLLECTED FROM PRIVATE WELLS IN PART OF THE KICKAPOO TRIBE OF OKLAHOMA JURISDICTIONAL AREA, CENTRAL**



Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.From 1999 to 2007, the Indian Health Service reported that gross alpha-particle activities and concentrations of uranium exceeded the Maximum Contaminant Levels for public drinking-water supplies in water samples from six private wells and two test wells in a rural residential neighborhood in the Kickapoo Tribe of Oklahoma Jurisdictional Area, in central Oklahoma. Residents in this rural area use groundwater from Quaternary-aged terrace deposits and the Permian-aged Garber-Wellington aquifer for domestic purposes. Uranium and other trace elements, in rocks composing the Garber-Wellington aquifer and in low concentrations in groundwater throughout its extent. Previous studies have shown that pH values above 8.0 from cation-exchange processes in the aquifer cause selected metals such as arsenic, chromium, selenium, and uranium to desorb (if present) from mineral surfaces and become mobile in water. On the basis of this information, the U.S. Geological Survey, in cooperation with the Kickapoo Tribe of Oklahoma, conducted a study in 2011 to describe the occurrence of selected trace elements and radionuclides in groundwater and to determine if pH could be used as a surrogate for laboratory analysis to quickly and inexpensively identify wells that might contain high concentrations of uranium and other trace elements.

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