

Occurrence of diatoms in lakeside wells in northern New Jersey as an indicator of the effect of surface water on ground-water quality



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OCCURRENCE OF DIATOMS IN LAKESIDE WELLS IN NORTHERN NEW JERSEY AS AN INDICATOR OF THE EFFECT OF SURFACE WATER ON GROUND-WATER QUALITY

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No binding. Book Condition: New. This item is printed on demand. Original publisher: Reston, Va. : U. S. Dept. of the Interior, U. S. Geological Survey, 2006. OCLC Number: (OCoLC)244006992 Subject: Diatoms -- New Jersey. Excerpt: . . . Summary and Conclusions 11 which 1, 890 to 3, 785 L of ground water are filtered. The wells to the wells. Hydraulic evidence from static-and stressed-sampled during this study are small-diameter (typically 4-in.) water-level measurements also indicates that water moves domestic wells in which it was not practical to operate the from the lakes into the aquifer. Transport of diatoms from owners submersible pump for such a long sampling period. the lake to nearby wells could indicate that contaminants and The MPA concentrates material from a much larger sample pathogens from the surface are being introduced into local volume than the method used here. Therefore, cell counts drinking-water supplies. Detection of Navicula in 4 of 18 resulting from a MPA may be more accurate than results of a samples is of particular interest because previous studies have particle analysis conducted on a smaller volume of sample; shown that the presence of that diatom genus is a significant however, the method used in this study is less intrusive for predictor of contamination with Giardia and Cryptosporidium. homeowners and allows for ambient surveys using domestic Because private well owners in New Jersey generally are not wells, not only production wells. required to regularly monitor their wells, and tests conducted by public-water suppliers may not be sensitive to indicators of ground-water surface-water interaction, these contaminants may remain undetected. The presence of diatoms in wells Summary and Conclusions in similar settings can warn of lake well interactions in the absence of other indicators. Substantial concentrations of diatoms, which are abun-Investigations of ground-water quality...



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