Aquifer Sensitivity

This map was produced as part of Kane County Geologic Materials Investigation. Final Report on Geologic Investigation (Shih et al. 2005) and is a redacted version of a previous map (Abert et al. 2007). The map land uses are a part of a set of regulatory tools to the redacted version "Kane County Geologic Materials Investigation for Kane County," April 2005. This map was created to meet the regulations of the Illinois State Geological Survey and is based on results of the Illinois Department of Natural Resources County Geologic Map, ICGM Kane-AS, 1:100,000.

Aquifers are defined as geologic materials that would be classified as an aquifer but are above the uppermost aquifer material and thickness: Illinois State Geological Survey, Illinois County Geologic Map, ICGM Kane-AS (2005).

This map is intended to be used for county-scale planning and is based on general conditions of geologic materials and hydraulic gradients. It is not based on results of any groundwater-aquifer investigation for this map, because they still provide a hydraulic conduit for contaminating water to a well. Aquifers with an upper surface deeper than 100 feet were considered fine-grained and have limited potential to yield economic quantities of water to a well. Aquifers with an upper surface deeper than 100 feet were considered aquifers but are above the uppermost aquifer material.

Applications


Aquifer Sensitivity Classification

Map Unit A: High Potential for Aquifer Contamination

Aquifers are between 20 and 50 feet below the land surface. Aquifers are between 20 and 50 feet thick and are within 5 and 20 feet below the land surface. Aquifers are between 20 and 50 feet thick and are between 20 and 50 feet below the land surface. Aquifers are between 20 and 50 feet thick and are within 5 and 20 feet below the land surface.

Map Unit B: Moderate Potential for Aquifer Contamination

Aquifers are between 20 and 50 feet thick and are between 20 and 50 feet below the land surface. Aquifers are between 20 and 50 feet thick and are within 5 and 20 feet below the land surface.

Map Unit C: Low Potential for Aquifer Contamination

Aquifers are greater than 50 feet thick and are between 50 and 100 feet below the land surface. Aquifers are greater than 50 feet thick and are between 50 and 100 feet below the land surface.

Hanger Distortion of Land Surface

Map Units A, B, and C represent land area that is more susceptible to contamination from a source of pollution at or near the ground surface. The map provides information on areas that are potentially more susceptible, but are not necessarily more susceptible.

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