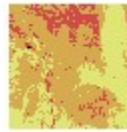


Groundwater contaminant susceptibility map for Town of Lincoln, Kewaunee County, Wisconsin; groundwater contaminant susceptibility raster (2017; 1:50,000 scale; tol_gwsus)

Raster Dataset



Tags

Town of Lincoln, Kewaunee County, Wisconsin, groundwater, hydrogeology, groundwater contamination, groundwater susceptibility

Summary

These data accompany the Wisconsin Geological and Natural History Survey (WGNHS) Open-File Report 2017-05. The raster presented in map 7 of this report, "Groundwater contaminant susceptibility" was developed by combining four environmental or geologic factors known to influence the movement of contaminants in groundwater: 1) depth to bedrock, 2) type of bedrock, 3) groundwater recharge rate, and 4) depth to the water table.

Description

This raster data depicts the relative groundwater contamination susceptibility, applying the terminology of "moderate", "high", and "highest", in order of increasing susceptibility. No ranking was assigned below "moderate" since all parts of the town are underlain by fractured dolomite bedrock and contain areas with either shallow depth to bedrock and/or shallow depth to groundwater. In other words, all areas of the town are considered to exhibit a minimum level of groundwater contaminant susceptibility which are designated as "moderate".

More details about the groundwater contaminant susceptibility map and modeling procedure are included in the following report: Parsen, M.J., Mauel, S.W., Streiff, C.M., 2017, Hydrogeological characterization of the Town of Lincoln, Kewaunee County, Wisconsin: Wisconsin Geological and Natural History Survey Open File Report 2017-05.

Fields

VALUE: Groundwater contaminant susceptibility score for depth to bedrock + depth to the water table + groundwater recharge.

COUNT: Number of raster cells classified for each groundwater contaminant susceptibility score.

RANK: Final groundwater contaminant susceptibility ranking associated with each groundwater contaminant susceptibility score.

SCORE: Total groundwater contaminant susceptibility score including an additional 5 points added to each category to account for the rock type (Silurian dolomite). In other words, "VALUE" + 5 = "SCORE".

Credits

This project was completed by the Wisconsin Geological and Natural History Survey (WGNHS), UW-Extension, with support from the Town of Lincoln, Kewaunee County, Wisconsin.

Use limitations

This dataset was developed from sources of varying map scales and may not be accurate for site-specific applications without verification. These data represent work performed by the

Wisconsin Geological and Natural History Survey. Please contact gis@wgnhs.uwex.edu with any questions or comments.

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