

PLATE 3
Green County Water Table Map

BASEMAP FEATURES

- Green County Boundary
- State Road
- County Road
- Township Road
- Gravel Road
- Village/City Street
- Private Drive
- Multiuse Trail
- Public Land Survey System Township Boundary
- Public Land Survey System Section Boundary
- Railroad
- Populated Place (City/Village)
- Approximate Edge of Glacial Advance (hash lines on glacier-side)

WATER TABLE FEATURES

- Water Table Elevation Contour (10' Interval, NAVD88)
- Private Well Location with Recorded Static Depth to Water

Surface Water Features

- Perennial Stream/River Flowline
- Intermittent Steam/River Flowline
- Spring Location

ABOUT THIS MAP

This map presents an interpreted water table for Green County. This represents the upper elevation surface of the first occurring groundwater below the land surface. This information has been developed using several data sources. Surface waters derived from the National Hydrography Dataset (NHD) were used as expressions of groundwater and assigned elevations based on the Green County LIDAR topographic surface. Springs were also used as expressions of groundwater and assigned elevations in the same way as surface waters. The well construction logs used for geologic mapping that included pumping test information were used as well. These locations were assigned the ground surface elevation and a water table elevation was calculated based on the static depth to water reported on the logs.

The elevation information from these sources was converted into a point format and analyzed in Geographic Information Systems (GIS) software. Geostatistical tools in GIS were used to compare the data for variations compared to surrounding data on a point-by-point basis and generate modeled prediction values for each location. The results of this analysis were used to adjust the dataset for a more consistent model.

Information in this map is an interpreted model of a several datasets from different sources, differing resolutions and accuracy, and different time periods. This is intended to represent a typical model of the Green County water table surface and may not be accurate at a site-specific level depending on the season of the year or antecedent precipitation or snow melt. This map is not a substitute for site-specific groundwater studies that should be conducted as appropriate.

MAP REFERENCES

DRAFT

