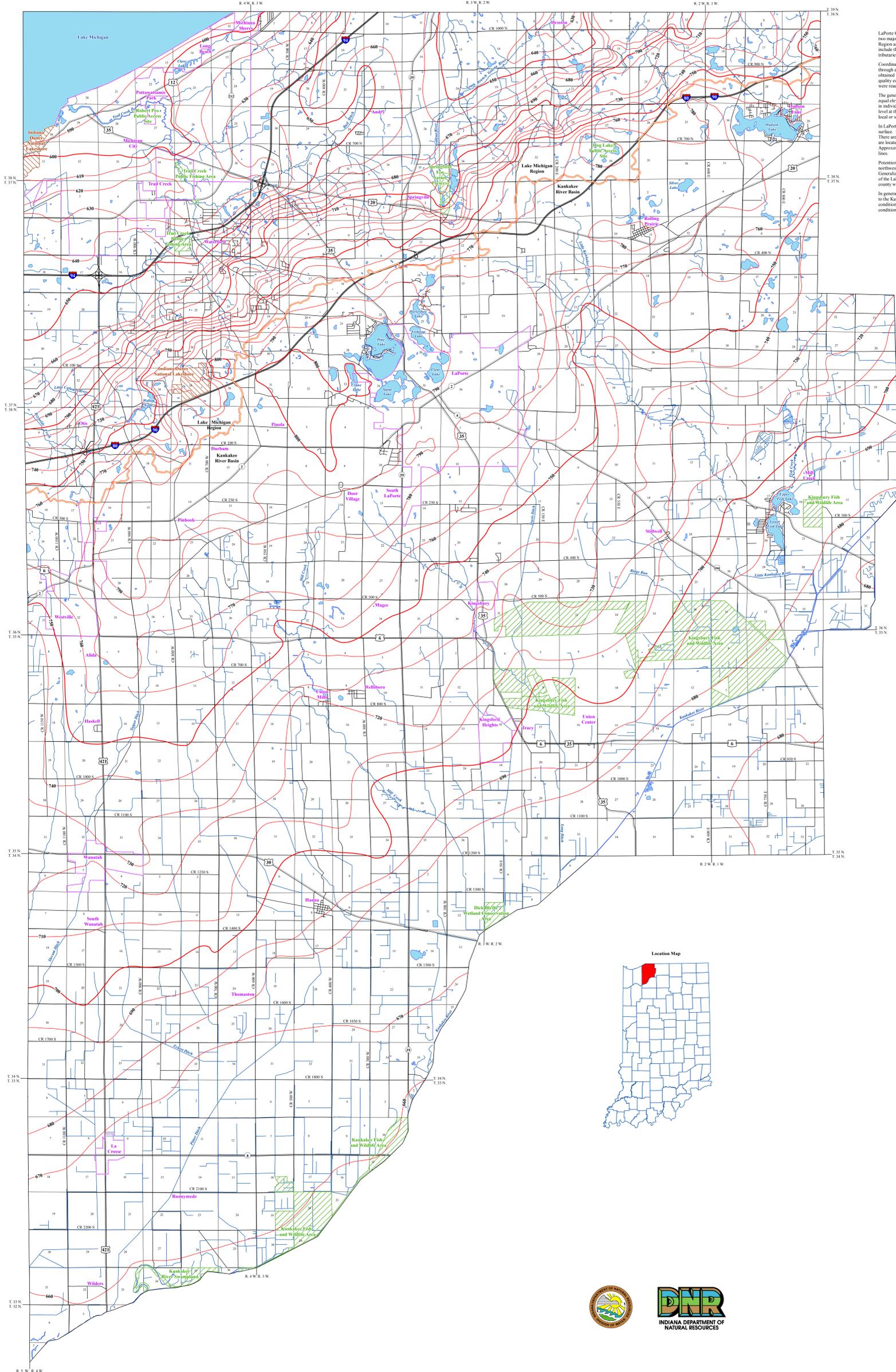


POTENTIOMETRIC SURFACE MAP OF THE UNCONSOLIDATED AQUIFERS OF LAPORTE COUNTY, INDIANA



LaPorte County, Indiana is located in the northwestern portion of the state and is situated within two major drainage basins. The northern portion of the county is within the Lake Michigan Region and the rest of the county is within the Kankakee River Basin. Major drainage systems include the Kankakee River, the Little Kankakee River, and Trail Creek along with several tributaries.

Coordinate locations of water well records were physically obtained in the field, determined through address geocoding, or reported on water well records. Elevation data were either obtained from topographic maps or a digital elevation model (DEM). Elevation and location quality control/quality assurance procedures were utilized to refine or remove data where errors were readily apparent.

The generalized unconsolidated potentiometric surface map contour elevations represent lines of equal elevation to which groundwater levels will rise in wells. Static water level measurements in individual wells used to construct the potentiometric surface map are indicative of the water level at the time of well completion. Therefore, current site specific conditions may differ due to local or seasonal variations in measured static water levels.

In LaPorte County well depths 100 feet or less were a priority in mapping the potentiometric surface. However, deeper wells were often compared and used in areas where data was sparse. There are approximately 12,100 water well records in the county of which, about 5,800 (47%) are located. About 4,465 (77%) of the located wells are less than 100 feet in depth. Approximately 5,800 water well records were used to construct the groundwater equipotential lines.

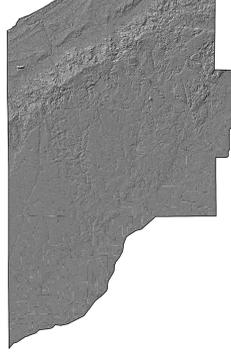
Potentiometric surface elevations range from a high of 800 feet mean sea level (msl) in the northwestern portion of central LaPorte County, to a low of 590 feet msl in the northwest corner. Generalized groundwater flow direction, therefore, appears to be toward Lake Michigan for most of the Lake Michigan Region. Groundwater flow for the central and southern portions of the county within the Kankakee River Basin appears to be to the southeast.

In general, the potentiometric surface in the lower two-thirds of LaPorte County, portions close to the Kankakee River, and areas near Lake Michigan are under semi-confined or unconfined conditions. However, the remaining portions of LaPorte County may be under confined conditions.

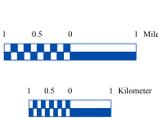
EXPLANATION

- Line of equal elevation, in feet above mean sea level
- Potentiometric Contour interval 10 feet
- Stream
- County Road
- State Road
- US Highway
- Interstate
- Basin Boundary
- Municipal Boundary
- State Managed Property
- Indiana Dunes National Lakeshore
- Lake & River

Hillshade Map of LaPorte County, Indiana



Location Map



Map Use and Disclaimer Statement

We request that the following agency be acknowledged in products derived from this map: Indiana Department of Natural Resources, Division of Water.

This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as is" without warranties of any kind, either expressed or implied. This map is intended for use only in the published scale.

This map was created from several existing shapefiles. Township and Range Lines of Indiana (line shapefile, 20020621), Land Survey Lines of Indiana (polygon shapefile, 20020621), and County Boundaries of Indiana (polygon shapefile, 20020621) were all from the Indiana Geological Survey and based on a 1:24,000 scale. Draft road shapefiles, System1 and System2 (line shapefiles, 2003), were from the Indiana Department of Transportation and based on a 1:24,000 scale. Populated Areas in Indiana 2000 (polygon shapefile, 20021000) was from the U.S. Census Bureau and based on a 1:100,000 scale. Hydrography, Streams (NHID) (line shapefile, 20081218), Rivers (NHID) (polygon shapefile, 20081218), Lakes (NHID) (polygon shapefile, 20081218), was from the U.S. Geological Survey and the U.S. Environmental Protection Agency, and based on a 1:24,000 scale. Managed Lands IDNR IN (polygon shapefile, 20100920) was from IDNR and based on a 1:24,000 scale. County Hillshade image was from the U.S. Geological Survey National Elevation Dataset (raster image, 20100324). Potentiometric Surface Map of the Unconsolidated Aquifers of LaPorte County, Indiana (line shapefile, Scott, 2012) was based on a 1:24,000 scale.

Potentiometric Surface Map of the Unconsolidated Aquifers of LaPorte County, Indiana
by
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March, 2012

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