UNCONSOLIDATED AQUIFER SYSTEMS OF FOUNTAIN COUNTY, INDIANA

The thickness of unconsolidated deposits in Fountain County is quite variable due to the deposition of glacial material over an uneven bedrock surface. The depth to bedrock ranges from outcropping along many of the streams and the Wabash River to over 200

Regional estimates of potential contamination to aquifer systems from the surface can differ considerably by location. Variations within geologic environments can result in a wide range of susceptibility to these systems. In addition, man-made structures such as poorly constructed water wells, unplugged or improperly abandoned wells, and open



most of the wells having reported capacities of less than 10 gallons per minute (gpm). completed in unconsolidated materials, which are bypassed for the generally more productive underlying bedrock. In this county the depth of the few wells completed in the Till Veneer Aquifer System range from 20 to 50 feet deep with static water levels ranging between 5 and 32 feet below the surface. There are no registered significant groundwater withdrawal facilities reported in this system.

Wabash River and Tributaries Outwash Aquifer System

materials commonly 10 to 40 feet thick. Static water levels range from 20 to 45 feet below the surface.

reported yield of 600 gpm. The use for this facility is irrigation.

This system is highly susceptible to surface contamination where sand and gravel

The subsystem is mapped similar to the Wabash River and Tributaries Outwash Aquifer overlying silt and/or clay materials, and potential yields are less in the subsystem than in the system. Total thickness of unconsolidated deposits ranges from approximately 60 feet to over 100 feet.





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INDIANA DEPARTMENT OF NATURAL RESOURCES

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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), Surface Coal Mines polygon shapefile, 20081231), 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. Streams27 (line shapefile, 20000420) was from the Center for Advanced Applications in GIS at Purdue University. Managed Areas 96 (polygon shape file, various dates) was from IDNR. Unconsolidated aquifer systems coverage (Schmidt, 2009) was based on a 1:24,000 scale.

Unconsolidated Aquifer Systems of Fountain County, Indiana

1 0.5 0

1 Kilometer

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August 2009

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Municipal Boundary

State Managed Property

Surface Coal Mine

Lake & River