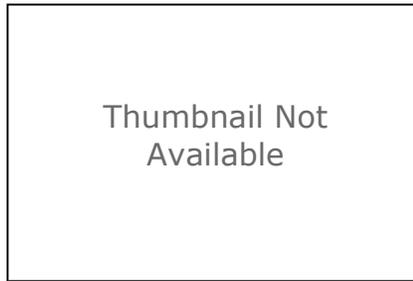


# Potentiometric Surface Map of the Bedrock Aquifers of Tipton County, Indiana

Shapefile



## Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, bedrock, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Tipton County, Indiana, USA

## Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Tipton County, Indiana.

## Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Tipton County in Indiana.

## Credits

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

## Use limitations

Acknowledgement of the following agency in products derived from these data: 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. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of IDNR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

## Extent

**West** -86.244772    **East** -85.858528  
**North** 40.409244    **South** 40.219920

## Scale Range

**Maximum (zoomed in)** 1:50,000  
**Minimum (zoomed out)** 1:5,000,000

## ArcGIS Metadata ▶

### Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

\*CONTENT TYPE Downloadable Data

PLACE KEYWORDS Tipton County, Indiana, USA

THEME KEYWORDS Bedrock

THEME KEYWORDS potentiometric surface

THEME KEYWORDS static water level

THEME KEYWORDS groundwater

THEME KEYWORDS water wells

THEME KEYWORDS Indiana Department of Natural Resources (IDNR)

THEME KEYWORDS Division of Water (DOW)

*Hide Topics and Keywords ▲*

### Citation ▶

TITLE Potentiometric Surface Map of the Bedrock Aquifers of Tipton County, Indiana

PUBLICATION DATE 2013-12-01 00:00:00

CREATION DATE 2013-12-01 00:00:00

EDITION 1

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

#### SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 36-B

#### OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: ARCADIA, ELWOOD, FRANKTON, GREENTOWN, KEMPTON, KOKOMO EAST, KOKOMO WEST, OMEGA, POINT ISABEL, SHERIDAN, TIPTON, and WINDFALL.

*Hide Citation ▲*

### Citation Contacts ▶

## RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

## CONTACT INFORMATION ►

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### ONLINE RESOURCE

LOCATION [//www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)

FUNCTION PERFORMED information

### HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ▼

### Extents ►

#### EXTENT

##### DESCRIPTION

publication date

##### TEMPORAL EXTENT

DATE AND TIME 2013-12-01 00:00:00

#### EXTENT

##### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -86.244772

\* EAST LONGITUDE -85.858528

- \* NORTH LATITUDE 40.409244
- \* SOUTH LATITUDE 40.219920
- \* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 564256.099600
- \* EAST LONGITUDE 596857.111600
- \* SOUTH LATITUDE 4452788.039400
- \* NORTH LATITUDE 4473456.194200
- \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water  
INDIVIDUAL'S NAME Ginger C. Korinek  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE point of contact

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FUNCTION PERFORMED download

HOURS OF SERVICE

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[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

## RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### LEGAL CONSTRAINTS

#### LIMITATIONS OF USE

The Indiana Department of Natural Resources, Division of Water has compiled this data set using data believed to be reasonably accurate. However, the Division makes no representation as to the accuracy, completeness, or usefulness of the data or data set. A degree of error is inherent in all maps. This map is intended for use only at the published scale. Reference to any specific commercial product, process, or service does not constitute an endorsement, recommendation, or favoring by the Division. Copyright 2013, Indiana Department of Natural Resources, Division of Water All Rights Reserved Any copying, adaptation, or distribution of these data without the express written consent of the Indiana Department of Natural Resources, Division of Water is discouraged.

#### OTHER CONSTRAINTS

This file is available to anyone, but access may be contingent on written request, specific terms relevant to the agency or person making the request, and/or current freedom of information statutes in the State of Indiana.

### CONSTRAINTS

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_UTM\_Zone\_16N
- \* COORDINATE REFERENCE DETAILS

#### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26916  
X ORIGIN -5120900  
Y ORIGIN -9998100  
XY SCALE 450445547.3910538

Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 0.001  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true  
LATEST WELL-KNOWN IDENTIFIER 26916  
WELL-KNOWN TEXT PROJCS["NAD\_1983\_UTM\_Zone\_16N",GEOGCS  
["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID  
["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT  
["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER  
["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER  
["Central\_Meridian",-87.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER  
["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26916]]

#### REFERENCE SYSTEM IDENTIFIER

- \*VALUE 26916
- \*CODESPACE EPSG
- \*VERSION 8.1.1

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

#### VECTOR ►

- \*LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

- FEATURE CLASS NAME BED\_PSM\_TIPTON\_CO\_IN
- \*OBJECT TYPE composite
  - \*OBJECT COUNT 16

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME BED\_PSM\_TIPTON\_CO\_IN
- \*FEATURE TYPE Simple
  - \*GEOMETRY TYPE Polyline
  - \*HAS TOPOLOGY FALSE
  - \*FEATURE COUNT 16
  - \*SPATIAL INDEX TRUE
  - \*LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ▶

### SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

### DATA QUALITY REPORT - COMPLETENESS OMISSION ▶

#### MEASURE DESCRIPTION

In conducting the mapping, the author(s) evaluated hundreds of water well records, especially those having relatively complete information on well location, static water level, well depth, ground elevation, and lithology. There are areas in the county with sparse information because of lack of well records or incomplete records.

[Hide Data quality report - Completeness omission ▲](#)

### DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

#### MEASURE DESCRIPTION

The mapping was conducted after a thorough documentation of well locations and water well record details.

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

### DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ▶

#### MEASURE DESCRIPTION

The locations of many wells were field checked and the locations posted on 7.5 minute topographic maps. Visual confirmation of wells was not always possible. Many locations were based only on the street address, driving directions, or other location information provided on the well record.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

## Lineage ▶

### PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2013-10-01 00:00:00

#### DESCRIPTION

Data were selected by careful evaluation of water well records to determine if the wells were field located and if they contained complete and reasonable information.

PROCESS CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water  
INDIVIDUAL'S NAME Ginger C. Korinek  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE processor

CONTACT INFORMATION ►

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POSTAL CODE 46204

COUNTRY US

E-MAIL ADDRESS [gkorinek@dnr.in.gov](mailto:gkorinek@dnr.in.gov)

ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)

FUNCTION PERFORMED download

*Hide Contact information ▲*

*Hide Process step ▲*

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2013-11-01 00:00:00

DESCRIPTION

After selection of water well records was complete, specific well data and other maps and reports were considered in the mapping process. For example, ground elevation, static water level, well depth, aquifer top and bottom elevation and lithology were obtained from well records. Other maps and reports included regional potentiometric surface elevations, hydrogeologic settings, ground-water availability, bedrock topography, and surface topography.

PROCESS CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE owner

CONTACT INFORMATION ►

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ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

*Hide Contact information ▲*

SOURCE DATA ►

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION ►

ALTERNATE TITLES IDNR-DOW water well records for domestic and other supply wells submitted by water well drillers from 1959-2012

*Hide Source citation ▲*

*Hide Source data ▲*

*Hide Process step ▲*

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2013-11-15 00:00:00

DESCRIPTION

Lines of equal potentiometric surface elevation were generated based on static elevation from selected data. Lines were generated and reviewed prior to publication.

PROCESS CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water  
INDIVIDUAL'S NAME Ginger C. Korinek  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE point of contact

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#### ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED download

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

#### SOURCE DATA ►

##### DESCRIPTION

Water well records from the IDNR-DOW well record database; USGS topography maps; various consultant geotechnical reports

##### RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 48000

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ▼

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water  
INDIVIDUAL'S NAME Ginger C. Korinek  
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CONTACT'S ROLE originator

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ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

*Hide Contact information ▲*

AVAILABLE FORMAT

NAME VPF  
FILE DECOMPRESSION TECHNIQUE no compression applied

ORDERING PROCESS

DATE OF AVAILABILITY 2013-09-01 00:00:00

*Hide Distributor ▲*

DISTRIBUTION FORMAT

\*NAME Shapefile

TRANSFER OPTIONS

\*TRANSFER SIZE 0.088

ONLINE SOURCE

LOCATION http://www.in.gov/dnr/water/7256.htm  
DESCRIPTION Data and Maps

*Hide Distribution ▲*

**Fields ►**

DETAILS FOR OBJECT BED\_PSM\_TIPTON\_CO\_IN ►

\*TYPE Feature Class  
\*ROW COUNT 16

FIELD Shape ►

\*ALIAS Shape  
\*DATA TYPE Geometry  
\*WIDTH 0  
\*PRECISION 0  
\*SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field Shape ▲*

FIELD FID ►

\* ALIAS FID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Internal feature number.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field FID ▲*

FIELD Static\_E ►

ALIAS Static Elevation

\* DATA TYPE SmallInteger

\* WIDTH 4

\* PRECISION 4

\* SCALE 0

FIELD DESCRIPTION

Potentiometric surface contours are developed here based on the static water levels from the bedrock aquifer systems with 10-foot contours and 50-foot index contours.

DESCRIPTION SOURCE

Author

*Hide Field Static\_E ▲*

*Hide Details for object BED\_PSM\_TIPTON\_CO\_IN ▲*

*Hide Fields ▲*

## Metadata Details ▼

## Metadata Contacts ▶

### METADATA CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water  
INDIVIDUAL'S NAME Ginger C. Korinek  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE originator

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COUNTRY US  
E-MAIL ADDRESS [gkorinek@dnr.in.gov](mailto:gkorinek@dnr.in.gov)

#### ONLINE RESOURCE

LOCATION [//www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED information

#### HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ▶

### MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ▶

### LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

### OTHER CONSTRAINTS

Access constraints: This metadata file is intended to accompany the subject geospatial set. This file may be updated, and the most recent version is available by contacting the IDNR Division of Water.

*Hide Metadata Constraints ▲*

## **FGDC Metadata (read-only) ▼**