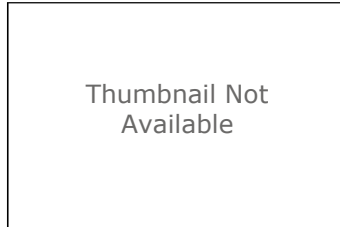


Potentiometric Surface Map of the Bedrock Aquifers of Bartholomew County, Indiana

Personal GeoDatabase Feature Class



Tags

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

Summary

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

Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Bartholomew 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 -86.044561 **East** -85.683090
North 39.353482 **South** 39.038443

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

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Bartholomew 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 Bartholomew County, Indiana

PUBLICATION DATE 2014-12-01 00:00:00

CREATION DATE 2014-11-01 00:00:00

EDITION 1

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 48-B

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: AZALIA, COLUMBUS, EDINBURGH, ELIZABETHTOWN, GRAMMER, HARTSVILLE, HOPE, JONESVILLE, NEW BELLSVILLE, NINEVEH, and WAYMANSVILLE.

[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

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ONLINE RESOURCE

LOCATION //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 ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE vector

*PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; Esri ArcGIS 10.2.2.3552

CREDITS

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

ARCGIS ITEM PROPERTIES

*NAME BED_PSM_BARTHOLOMEW_CO_IN

*SIZE 0.824

*LOCATION file:///\\iotisip01pa.state.in.us\dnrgis\$\!

Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_FINAL_Map\Bartholomew.mdb

*ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2014-12-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

*WEST LONGITUDE -86.044561

*EAST LONGITUDE -85.683090

*NORTH LATITUDE 39.353482

*SOUTH LATITUDE 39.038443

*EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

*WEST LONGITUDE 582685.132800

*EAST LONGITUDE 613471.610400

*SOUTH LATITUDE 4321860.425500

*NORTH LATITUDE 4356443.183300

*EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

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ONLINE RESOURCE

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

HOURS OF SERVICE

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

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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

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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

LIMITATIONS OF USE

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.

[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 10000
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 8.2.6

[Hide Spatial Reference](#) ▲

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME BED_PSM_BARTHOLOMEW_CO_IN
* OBJECT TYPE composite
* OBJECT COUNT 107

[Hide Vector](#) ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED_PSM_BARTHOLOMEW_CO_IN
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 107
* 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 ►

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

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ONLINE RESOURCE

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

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

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

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LOCATION www.in.gov/dnr/water/7256.htm
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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 ►

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

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LOCATION 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 ►

PROCESS

PROCESS NAME

DATE 2014-12-31 09:48:40

TOOL LOCATION c:\program files\arcgis\desktop10.2\ArcToolbox\Toolboxes\Conversion
Tools.tbx\FeatureClassToFeatureClass

COMMAND ISSUED

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FeatureClassToFeatureClass \\iotisip01pa.state.in.us\dnrgis$\!  
Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_BARTHLOMEW_CO_IN.shp  
\\iotisip01pa.state.in.us\dnrgis$\!  
Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_FINAL_Map\Bartholomew.mdb  
BED_PSM_BARTHLOMEW_CO_IN # "Static_E" "Static_E" true true false 9 Long 0  
9 ,First,#,\\iotisip01pa.state.in.us\dnrgis$\!  
Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_BARTHLOMEW_CO_IN.shp,Static_E,-  
1,-1" #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

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INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
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 Personal GeoDatabase Feature Class

TRANSFER OPTIONS

* TRANSFER SIZE 0.824

ONLINE SOURCE

LOCATION <http://www.in.gov/dnr/water/7256.htm>

DESCRIPTION Data and Maps

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT BED_PSM_BARTHOLOMEW_CO_IN ►

*TYPE Feature Class

*ROW COUNT 107

FIELD OBJECTID ►

*ALIAS OBJECTID

*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 OBJECTID ▲

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 Static_E ►

*ALIAS Static_E

*DATA TYPE Integer

*WIDTH 4

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

Static elevation of the associated aquifer's potentiometric surface (10-foot contour interval).

DESCRIPTION SOURCE

Author

Hide Field Static_E ▲

FIELD Shape_Length ►

- * **ALIAS** Shape_Length
- * **DATA TYPE** Double
- * **WIDTH** 8
- * **PRECISION** 0
- * **SCALE** 0
- * **FIELD DESCRIPTION**
Length of feature in internal units.
- * **DESCRIPTION SOURCE**
Esri
- * **DESCRIPTION OF VALUES**
Positive real numbers that are automatically generated.

[Hide Field Shape_Length ▲](#)

[Hide Details for object BED_PSM_BARTHOLOMEW_CO_IN ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset
SCOPE NAME *dataset

LAST UPDATE 2013-12-01

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2014-12-30 15:53:52
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-02-13 13:36:46

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-02-13 13:36:46

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2014-12-30 15:53:52
FROM \\iotisip01pa.state.in.us\dnrgis\$\!
 Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_Misc_Analytical\Final\Cleaning 2\BED_PSM_BARTH_Final
TO \\iotisip01pa.state.in.us\dnrgis\$\!
 Potentiometric\Bartholomew\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_BARTH_Final

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

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ONLINE RESOURCE

LOCATION //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 ▲](#)

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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) ▼