

Potentiometric Surface Map of the Unconsolidated Aquifers of Blackford County, Indiana

Shapefile

Thumbnail Not
Available

Tags

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

Summary

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

Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Blackford 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 -85.450224 **East** -85.202603
North 40.567096 **South** 40.375375

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 Blackford County, Indiana, USA

THEME KEYWORDS Unconsolidated

THEME KEYWORDS potentiometric surface

THEME KEYWORDS static water level

THEME KEYWORDS groundwater

THEME KEYWORDS water wells

THEME KEYWORDS water table

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 Unconsolidated Aquifers of Blackford County, Indiana

PUBLICATION DATE 2013-09-01 00:00:00

CREATION DATE 2013-09-01 00:00:00

EDITION 1

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

SERIES

NAME Unconsolidated Potentiometric Surface Map
ISSUE PSM 31-A

OTHER CITATION DETAILS This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Hartford City East, Hartford City West, Montpelier, Pennville, Petroleum, and Roll.

[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 10.1.1.3143

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 UNC_PSM_BLACKFORD_CO_IN
*SIZE 0.037
*LOCATION file:///\\jotfilp19pw\dnr\dow\TS\Water_Resources_and_Rights\!
Potentiometric\Blackford\1_Web_Products\31_Blackford_Co_PSM_Shapefiles\UNC_PSM_BLACKFORD_CO_IN.shp
*ACCESS PROTOCOL Local Area Network

[Hide Resource Details](#) ▲

Extents ►

EXTENT

DESCRIPTION
 publication date

TEMPORAL EXTENT

DATE AND TIME 2013-09-01 00:00:00

EXTENT

DESCRIPTION

Extent used for searching

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -85.7011966037037
EAST LONGITUDE -85.2946799636978
SOUTH LATITUDE 40.9761770215052
NORTH LATITUDE 41.3222285987671
EXTENT CONTAINS THE RESOURCE Yes

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -85.450224
* EAST LONGITUDE -85.202603
* NORTH LATITUDE 40.567096
* SOUTH LATITUDE 40.375375
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 631556.989047
* EAST LONGITUDE 652160.450513
* SOUTH LATITUDE 4470963.505430
* NORTH LATITUDE 4491862.961695
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

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CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

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Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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OTHER CONSTRAINTS

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CONSTRAINTS

LIMITATIONS OF USE

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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 7.11.2

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

*LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME UNC_PSM_BLACKFORD_CO_IN

*OBJECT TYPE composite

*OBJECT COUNT 9

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME UNC_PSM_BLACKFORD_CO_IN

- *FEATURE TYPE Simple
- *GEOMETRY TYPE Polyline
- *HAS TOPOLOGY FALSE
- *FEATURE COUNT 9
- *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 were 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 2013-07-01 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

ONLINE RESOURCE

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

FUNCTION PERFORMED download

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2013-08-01 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

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

FUNCTION PERFORMED download

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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 ►

WHEN THE PROCESS OCCURRED 2013-08-01 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

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ONLINE RESOURCE
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 0

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

Geoprocessing history ►

PROCESS

DATE 2013-10-22 09:46:13

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

Clip Blackford_UNC_PSM_Review Blackford_Boundary J:\
Potentiometric\Blackford\2_Shapefiles\Shapefiles_Misc_Analytical\PSM\Uncon\Drafts\Blackford_UNC_Clip_County_wo_nodata.shp
#

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2013-10-22 09:55:21

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Erase

COMMAND ISSUED

Erase Blackford_UNC_Clip_County_wo_nodata "J:\
Potentiometric\Blackford\2_Shapefiles\Shapefiles_Misc_Analytical\PSM\Uncon\Drafts\No Data Erase Lines.shp" J:\
Potentiometric\Blackford\2_Shapefiles\Shapefiles_Misc_Analytical\PSM\Uncon\UNC_PSM_BLACKFORD_CO_IN.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2013-10-22 10:06:30

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField UNC_PSM_BLACKFORD_CO_IN StaticElev [Id] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

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 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 0.037

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

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT UNC_PSM_BLACKFORD_CO_IN ►

* TYPE Feature Class
* ROW COUNT 9

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 StaticElev ►
* ALIAS StaticElev
* DATA TYPE SmallInteger
* WIDTH 4

*PRECISION 4
*SCALE 0

[Hide Field StaticElev ▲](#)

[Hide Details for object UNC_PSM_BLACKFORD_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 2013-10-30

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2013-10-30 08:34:02
LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-10-30 09:07:26

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2013-10-30 09:07:26

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2013-10-30 08:34:02
FROM J:\!Potentiometric\Blackford\2_Shapefiles\Shapefiles_FINAL_Map\UNC_PSM_BLACKFORD_CO_IN
TO \\iotfilp19pw\dnr\dow\TS\Water_Resources_and_Rights\!
Potentiometric\Blackford\1_Web_Products\31_Blackford_Co_PSM_Shapefiles\UNC_PSM_BLACKFORD_CO_IN

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE originator

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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) ▼