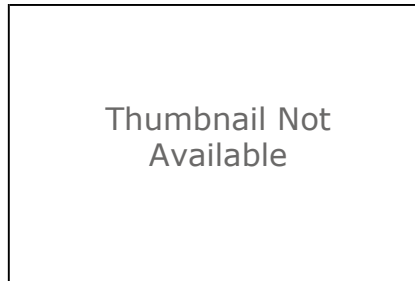


Potentiometric Surface Map of the Unconsolidated Aquifers of Vermillion County, Indiana

Shapefile



Tags

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

Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Vermillion County.

Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Vermillion County 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	-87.533856	East	-87.380019
North	40.127841	South	39.607334

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Vermillion County, Indiana, USA

THEME KEYWORDS unconsolidated

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 Unconsolidated Aquifers of Vermillion County, Indiana

PUBLICATION DATE 2015-12-23 00:00:00

CREATION DATE 2015-08-03 00:00:00

EDITION 1

PRESENTATION FORMATS digital map

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 58-A

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Clinton, Covington, Dana, Danville NE, Danville SE, Humrick, Kingman, Montezuma, New Goshen, Newport, Perrysville, Saint Bernice, Sandford and Scotland.

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME Robert K. Schmidt, IDNR Division of Water, Resource Assessment Section

CONTACT'S ROLE originator

RESPONSIBLE PARTY

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

CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT Indianapolis, Indiana, USA

Hide Contact information ▲

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES Undetermined ()
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

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_Vermillion_Co_IN
* SIZE 0.156
* LOCATION file:///\\iotisip01pa\dnrgis\$!\Potentiometric\Vermillion\1_Web_Products\Zip
Products\UNC_PSM_Vermillion_Co_IN.shp
* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -87.533856
* EAST LONGITUDE -87.380019
* NORTH LATITUDE 40.127841
* SOUTH LATITUDE 39.607334
EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 454514.829899
* EAST LONGITUDE 467376.895412
* SOUTH LATITUDE 4384310.712061
* NORTH LATITUDE 4442016.758651
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Robert K. Schmidt
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water
CONTACT'S POSITION Resource Assessment Section
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

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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 2015, 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

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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 IDENTIFIER26916

X ORIGIN-5120900

Y ORIGIN-9998100

XY SCALE450445547.3910538

Z ORIGIN-100000

Z SCALE10000

M ORIGIN-100000

M SCALE10000

XY TOLERANCE0.001

Z TOLERANCE0.001

M TOLERANCE0.001

HIGH PRECISIONtrue

LATEST WELL-KNOWN IDENTIFIER26916

WELL-KNOWN TEXTPROJCS["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

8.6.2

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET

geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME

UNC_PSM_Vermillion_Co_IN

* OBJECT TYPE

composite

* OBJECT COUNT

71

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME

UNC_PSM_Vermillion_Co_IN

* FEATURE TYPE

Simple

* GEOMETRY TYPE

Polyline

* HAS TOPOLOGY

FALSE

* FEATURE COUNT

71

* 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 ►
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, groundwater availability, unconsolidated topography, and surface topography.

[Hide Process step](#) ▲

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2015-08-03 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.

Hide Process step ▲

SOURCE DATA ▶

DESCRIPTION

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

SOURCE CITATION ▶

TITLE Unconsolidated Potentiometric Surface Map Vermillion County, Indiana

PUBLICATION DATE 2015-12-23 01:00:00

CREATION DATE 2015-08-03 00:00:00

EDITION 1

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 58-A

RESPONSIBLE PARTY

ORGANIZATION'S NAME IDNR Division of Water, Resource Assessment Section

INDIVIDUAL'S NAME Robert K. Schmidt

CONTACT'S ROLE originator

RESPONSIBLE PARTY

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

CONTACT'S ROLE publisher

CONTACT INFORMATION ▶

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DELIVERY POINT Indianapolis, IN

Hide Contact information ▲

Hide Source citation ▲

Hide Source data ▲

Hide Lineage ▲

Distribution ▶

DISTRIBUTOR ▶

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

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE distributor

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[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.156

ONLINE SOURCE

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

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [UNC_PSM_Vermillion_Co_IN ►](#)

* TYPE Feature Class

* ROW COUNT 71

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 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 SmallInteger
- * WIDTH 4
- * PRECISION 4
- * SCALE 0
- FIELD DESCRIPTION
Unconsolidated contour lines.

Hide Field Static_E ▲

Hide Details for object UNC_PSM_Vermillion_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 2016-01-12

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 2016-01-11 11:32:32
LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-01-12 10:28:36

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2016-01-12 10:28:36

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-01-11 11:32:32

FROM M:\!Potentiometric\Vermillion\2_Shapefiles\Shapefiles_Misc_Analytical\UNC_PSM_Vermillion_Co_IN
TO \\iotisip01pa\dnrgis\$\!Potentiometric\Vermillion\1_Web_Products\Zip
Products\UNC_PSM_Vermillion_Co_IN

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

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) ▼