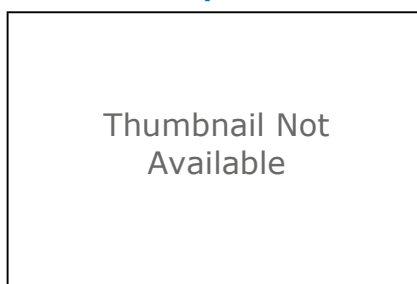


Potentiometric Surface Map of the Unconsolidated Aquifers of St. Joseph County, Indiana

Shapefile



Tags

St. Joseph County, Indiana, USA, unconsolidated potentiometric surface

Summary

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

Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for St. Joseph County in Indiana.

Credits

There are no credits for this item.

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	-86.527592	East	-86.056256
North	41.762955	South	41.430061

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

*CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS St. Joseph County, Indiana, USA

THEME KEYWORDS unconsolidated potentiometric surface

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Potentiometric Surface Map of the Unconsolidated Aquifers of St. Joseph County, Indiana

PUBLICATION DATE 2011-12-01 00:00:00

EDITION 1

EDITION DATE 2012-02-06

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 07-A

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Bremen, Edwardsburg, Galien, Hamlet, Lakeville, La Paz, Lydick, Nappanee West, New Carlisle, Niles East, Niles West, North Liberty, Osceola, South Bend East, South Bend West, Stillwell, Three Oaks, Wakarusa and Wyatt.

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME Randal D. Maier, 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

TYPE

DELIVERY POINT Indianapolis, Indiana, USA

[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 10.2.0.3348

ARCGIS ITEM PROPERTIES

*NAME UNC_PSM_St_Joseph_CO_IN
 *SIZE 0.783
 *LOCATION file:///\\iotfilp19pw\dnr\dow\TS\Water_Resources_and_Rights\!Potentiometric_Finished\07_St.
 Joseph\2_Shapefiles\Shapefiles_FINAL_Map\UNC_PSM_St_Joseph_CO_IN.shp
 *ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION
 publication date

TEMPORAL EXTENT

DATE AND TIME 2011-10-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -85.224803
 EAST LONGITUDE -84.80548
 SOUTH LATITUDE 39.709138
 NORTH LATITUDE 40.012109

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 *WEST LONGITUDE -86.527592
 *EAST LONGITUDE -86.056256
 *NORTH LATITUDE 41.762955
 *SOUTH LATITUDE 41.430061
 *EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

*WEST LONGITUDE 539469.233202
 *EAST LONGITUDE 578451.933728
 *SOUTH LATITUDE 4586925.099157
 *NORTH LATITUDE 4623566.850160
 *EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Randal D. Maier

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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HOURS OF SERVICE

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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

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 2012, 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 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 UNC_PSM_St_Joseph_CO_IN

* OBJECT TYPE composite

* OBJECT COUNT 46

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME UNC_PSM_St_Joseph_CO_IN

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 46

* 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 ►

DIMENSION horizontal

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 2011-01-01 00:00:00

DESCRIPTION

After the maps were joined, a polyline coverage was created and attributed by Scott H. Dean. Attribute definitions are described below.

PROCESS CONTACT

INDIVIDUAL'S NAME Randal D. Maier

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

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE processor

CONTACT INFORMATION ►

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COUNTRY US

E-MAIL ADDRESS rmaier@dnr.IN.gov

HOURS OF SERVICE

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2011-01-01 00:00:00

DESCRIPTION

The hand-drawn work maps (scale 1:24,000) showing lines of equal potentiometric surface elevation were digitized and edge matched in ESRI ArcEdit (ArcScan) by Scott H. Dean. The maps were individually georeferenced using a minimum of 4 tics per map. Projection was UTM, Zone 16, NAD83.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2011-01-01 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.

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 1959-2011

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2011-01-01 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.

SOURCE DATA ►

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION ►

ALTERNATE TITLES IDNR-DOW records for domestic and other supply wells submitted by water well drillers from 1959-2011

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[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

SOURCE CITATION ►

TITLE Potentiometric Surface Map of St. Joseph County, Indiana

ALTERNATE TITLES Potentiometric Surface Map of St. Joseph County, Indiana

PUBLICATION DATE 2011-07-01

EDITION 1

FGDC GEOSPATIAL PRESENTATION FORMAT map, vector digital data

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 07-A

RESPONSIBLE PARTY

ORGANIZATION'S NAME Randal D. Maier, 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, IN

Hide Contact information ▲

Hide Source citation ▲

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2011-07-01

Hide Source data ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Randal D. Maier

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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AVAILABLE FORMAT

NAME VPF

FILE DECOMPRESSION TECHNIQUE no compression applied

ORDERING PROCESS

DATE OF AVAILABILITY 2011-10-01

TRANSFER OPTIONS

ONLINE SOURCE

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

TRANSFER OPTIONS

ONLINE SOURCE

DESCRIPTION Data and Map

Hide Distributor ▲

DISTRIBUTION FORMAT

*NAME Shapefile

TRANSFER OPTIONS

*TRANSFER SIZE 0.783

ONLINE SOURCE

LOCATION none

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [UNC_PSM_St_Joseph_CO_IN](#) ►

* TYPE Feature Class

* ROW COUNT 46

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

[Hide Field STATIC_E ▲](#)

[Hide Details for object UNC_PSM_St_Joseph_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 2014-06-26

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 2012-01-30 13:12:50
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2014-06-26 12:30:46

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2014-06-26 12:30:02

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Randal D. Maier
 ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water
 CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

FGDC Metadata (read-only) ▼