

Aquifers - Sole Source



Tags

aquifer, hydrogeology, groundwater

Summary

Information on sole source aquifers (SSAs) is widely used in assessments under the National Environmental Policy Act and at the state and local level. A national layer, including all available SSA coverages, is available for use in GIS. This layer includes the GIS polygons for SSAs. In addition to single SSA designated area polygons, some EPA regional offices have delineated GIS layers for:

- * Streamflow zones
- * Aquifer recharge areas
- * Other features at the land surface important for SSA designations.

The SSA geospatial data set is available through Data.gov for use by government agencies, private organizations, and the public.

Description

Information on sole source aquifers (SSAs) is widely used in assessments under the National Environmental Policy Act and at the state and local level. A national layer, including all available SSA coverages, is available for use in GIS. This layer includes the GIS polygons for SSAs. In addition to single SSA designated area polygons, some EPA regional offices have delineated GIS layers for: * Streamflow zones * Aquifer recharge areas * Other features at the land surface important for SSA designations. The SSA geospatial data set is available through Data.gov for use by government agencies, private organizations, and the public.

Credits

Environmental Protection Agency

Use limitations

There are no access and use limitations for this item.

Extent

West	-158.147059	East	144.956768
North	48.588894	South	13.414815

Scale Range

Maximum (zoomed in)	1:500,000
Minimum (zoomed out)	1:20,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE farming, geoscientificInformation, inlandWaters
* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Citation

TITLE Aquifers - Sole Source
PUBLICATION DATE 2023-08-30
PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Environmental Protection Agency
CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
STATUS completed
SPATIAL REPRESENTATION TYPE * vector
* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.0.12790
CREDITS
Environmental Protection Agency

ARCGIS ITEM PROPERTIES
* NAME aquifer_sole_source_230830_v1

Extents

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -158.147059
* EAST LONGITUDE 144.956768
* NORTH LATITUDE 48.588894
* SOUTH LATITUDE 13.414815
* EXTENT CONTAINS THE RESOURCE Yes
TEMPORAL EXTENT
DATE AND TIME 2023-08-30
EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -17604850.112175
* EAST LONGITUDE 16136513.615716
* SOUTH LATITUDE 1507163.939357
* NORTH LATITUDE 6205391.024805
* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT
INDIVIDUAL'S NAME Environmental Protection Agency
CONTACT'S ROLE originator

Resource Maintenance

RESOURCE MAINTENANCE
UPDATE FREQUENCY unknown

Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041257.952553775
Y ORIGIN -30241100
XY SCALE 144148035.48642668
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 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 3857
- * CODESPACE EPSG
- * VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME aquifer_sole_source_230830_v1
* OBJECT TYPE composite
* OBJECT COUNT 97

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME aquifer_sole_source_230830_v1
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 97
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT

- * NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT [aquifer_sole_source_230830_v1](#)

- * TYPE Feature Class
- * ROW COUNT 97

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.

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.

FIELD SSA_ID

- * ALIAS Sole Source Aquifer ID
- * DATA TYPE String
- * WIDTH 15
- * PRECISION 0
- * SCALE 0

FIELD SSA_NAME

- * ALIAS Name
- * DATA TYPE String
- * WIDTH 74
- * PRECISION 0
- * SCALE 0

FIELD FR_ID

- * ALIAS Federal Register ID
- * DATA TYPE String
- * WIDTH 30
- * PRECISION 0
- * SCALE 0

FIELD EPA_Link

- * ALIAS EPA Link
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD EPA_Region

- * ALIAS EPA Region
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

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.

FIELD Shape_Area

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

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 2024-01-03
- 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 2023-11-01
 - LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-03
- AUTOMATIC UPDATES
 - HAVE BEEN PERFORMED Yes
 - LAST UPDATE 2024-01-03 15:36:21

Metadata Contacts

METADATA CONTACT

INDIVIDUAL'S NAME Environmental Protection Agency

CONTACT'S ROLE originator

Metadata Maintenance

MAINTENANCE

UPDATE FREQUENCY unknown