Title Groundwater Productivity in NSW - 2013

Abstract

This map was created by the Department of Primary Industries (Office of Water) in 2013 to identify areas in NSW with highly productive groundwater. Mapping identifies two classes of productivity, highly productive and less productive. Highly productive groundwater areas are characterised by bores having yield rates greater than 5 litre/second and total dissolved solids of less than 1,500 mg/litre. It also excludes miscellaneous alluvial aquifers called small storage aquifers.

This mapped areas of highly productive groundwater along with two other datasets (rainfall of 350mm for more per annum - 9 out of 10 years and reliable surface water) are used to identify land with access to a reliable water supply, forming part of the regional and site level assessment classification of Biophysical Strategic Agricultural Land (BSAL).

Under the Mining SEPP, all State Significant Development applications require a Site Verification Certificate to determine if their site contains any BSAL and therefore requiring further assessment from the Mining and Petroleum Gateway Panel. This process is managed by Planning, Industry and Environment and are custodian of this dataset.

A pdf map and GIS shapefile of this dataset is accessible from the resources section of the metadata.

Resource locator

Data Quality Statement Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement for Groundwater Productivity in NSW - 2013

Function: download

NSW Groundwater Productivity Name: NSW Groundwater Productivity map

Description:

<u>map</u>

Protocol: WWW:DOWNLOAD-1.0-http--download

PDF map of Groundwater Productivity in NSW - June 2013

Function: download

GIS map Package Name: GIS map Package

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Download Groundwater Productivity of NSW GIS shapefile

Function: download

Unique resource identifier

Code f0178fa0-9667-4a5f-bfdc-fbfddc8904b1

Presentation

form

Map digital

Edition 1.0

Dataset language

English

Metadata standard

Name

ISO 19115

Additional	GIS attribute fields
Spatial resolution	0 m
Code identifying the spatial reference system	4283
Spatial referer	nce system
Geometric Object Type	surface
Туре	vector
Spatial repres	entation
Status	Completed
Purpose	One intended purpose is to be used as part of the Site Verification Certificate (SVC) process to determine if land contains Biophysical Strategic Agricultural Land.
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/f0178fa0-9667-4a5f-bfdc-fbfddc8904b1
Edition	2016

Additional information source

GIS attribute fields

- Catchment Water catchment that the groundwater area
- WtrShrPln1 Water sharing plan (WSP) of first aquifer described
- W Source 1 Location of groundwater source of first aguifer described
- Mgt Zone 1 Management zone of first aquifer described
- GW_Catgry1 Category of first groundwater aquifer described (ie. fractured rock or alluvial)
- Prductvty1 Productivity of first groundwater area (highly or less) described
- WtrShrPln2 Water sharing plan (WSP) of second aquifer described (if applicable)
- W_Source_2 Location of groundwater source of second aquifer described (if applicable)
- Mqt Zone 2 Management zone of second aguifer described (if applicable)
- GW_Catgry2 Category of second groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty2 Productivity of second groundwater area (highly or less) described (if applicable).
- WtrShrPln3 Water sharing plan (WSP) of third aquifer described (if applicable)
- W_Source_3 Location of groundwater source of third aquifer described (if applicable)
- Mgt Zone 3 Management zone of third aquifer described (if applicable)
- GW_Catgry3 Category of third groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty3 Productivity of third groundwater area (highly or less) described (if applicable)
- WtrShrPln4 Water sharing plan (WSP) of fouth aquifer described (if applicable)
- W_Source_4 Location of groundwater source of fourth aquifer described (if applicable)
- Mgt_Zone_4 Management zone of fourth aquifer described (if applicable)
- GW_Catgry4 Category of fourth groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty4 Productivity of fourth groundwater area (highly or less) described (if applicable)
- WtrShrPln5 Water sharing plan (WSP) of fifth aguifer described (if applicable)
- W_Source_5 Location of groundwater source of fifth aquifer described (if applicable)
- Mgt Zone 5 Management zone of fifth aguifer described (if applicable)
- GW_Catgry5 Category of third groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty5 Productivity of fifth groundwater area (highly or less) described (if applicable)

Topic category			
Keyword set			
keyword value	WATER-Groundwater		
	WATER-Quality		
Originating controlled vocabulary			
Title	ANZLIC Search Words		
Reference date	2008-05-16		
Geographic location			
West bounding longitude	140.99927		
East bounding longitude	153.63541		
North bounding latitude	-37.50503		
South bounding latitude	-28.15829		
NSW Place Name	New South Wales		
Vertical extent information			
Minimum value	-100		
Maximum value	2228		
Coordinate reference system			
Authority code	urn:ogc:def:cs:EPSG::		
Code identifying the coordinate reference system	5711		
Temporal extent			
Begin position	2013-01-01		
End position	N/A		
Dataset reference date			
Resource maintenance			
Maintenance and update frequency	Not planned		
Contact info			
Contact position	Data Broker		
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water		
Telephone number	131555		
Email address	data.broker@environment.nsw.gov.au		
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew		
Responsible party role	pointOfContact		

Lineage

This map was derived by collating multiple sources of aquifer information, identifying areas of their location, and other associated details including water sharing plan names, their source, management zones, groundwater type/category and groundwater productivity. Up to 5 different aquifers were assessed within any delineated groundwater map area.

Of importance for this map, is the identification of groundwater productivity (attributed as either highly or less). If any of the aquifers are identified as highly productive then it is considered highly productive overall in the productivity map, even if other groundwater areas (like at a different depth) are classed less productive and occur elsewhere within the same mapped groundwater polygon area.

The assessment of this groundwater productivity map was undertaken in 2013.

Limitations on public access

Scope dataset

DQ Completeness Commission

Effective

2021-04-14

Explanation

Groundwater productivity was assessed for all areas in NSW. The area within the

Australian Capital Territory contains no groundwater information but mapped identifying

its catchment only.

Responsible party

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata point of contact

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata date 2024-02-26T13:35:54.348082

Metadata language