Title	Hydrogeological Landscapes for the Central West Catchment Management Authority Western Study Area: May 2013 (Second Edition)
Alternative title(s)	Western Central West Hydrogeological Landscapes – Phase 2
Abstract	**This dataset has largely been superseded by the *Hydrogeological Landscapes of the Central West Local Land Services Region: Nov 2020* and *Residual Hydrogeological Landscapes of the Central West CMA Catchment: Nov 2020* datasets.** *NOTE: The water EC attributes for datasets associated with this product were revised in December 2016. This change mostly affects the eastern Central West area covered by the original 2008 mapping. The revised datasets have been given the suffix '_Dec2016' to distinguish them from the previous 2013 versions. No changes have been made to the linework.* The Hydrogeological Landscape (HGL) concept provides a structure for the understanding of how salinity manifests itself in the landscape and how differences in salinity are expressed across the landscape. A HGL spatially defines areas of similar salt stores and pathways for salt mobilisation. The process of HGL determination relies on the integration of a number of factors: geology, soils, slope, regolith depth, and climate; an understanding of the differences in salinity development; and the impacts (land salinity/salt load/water electrical conductivity) in landscapes. Information sources such as soils maps, site characterisation, salinity site mapping, hydrogeological conditions and surface and groundwater data are combined to develop standard templates for each HGL. The focus of this dataset is the Western Central West study area west of the Newell Highway. It comprises introductory information on HGLs; HGL templates; and maps and digital spatial data developed for the project, including derivative maps to assist in land management decision making in the Western Central West study area. This includes information on salinity management from the perspectives of land use design, scales and types of management, landscape function, management strategies, actions and outcomes, as well as land use to be avoided. In addition, HGL mapping carried out in 2008 has been incorporated into the GIS component of this product and edge-matched with the Western HGLs where possible. Spatial resolution for this product is 1:250 000.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: DQS – Hydrogeological Landscapes for the Central West Catchment Management Authority Western Study Area: May 2013 (Second Edition) Function: download

Unique resource identifier

Code	6c9944cc-558f-404a-bab2-3313b350c869
Presentation form	Map digital
Edition	Second
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/6c9944cc-558f-404a-bab2-3313b350c869

Purpose	This data package was generated for the Central West Catchment Management Authority (CWCMA). It follows on from the Western Central West HGL mapping project carried out in 2011-2012
Status	Completed

Spatial representation

Type	vector
Geometric Object Type	complex

Spatial reference system

Code identifying the spatial reference system	4283

Equivalent scale	1:None
Additional information source	Source datasets: Hydrogeological-Landscape Systems over the Central West catchment, NSW (OEH); Nyngan Soil Landscape Map – Sheet Series SH/55-15 (OEH); Narromine Soil Landscape Map – Sheet Series SI/55-3 and Part Sheet Series SI/55-7 (OEH); Walgett Soil Landscape Map, Central West CMA – Part Sheet Series SH/55-11 (OEH); Gilgandra-Narrabri Soil Landscape Map – Sheet Series SH/5516 and Part Sheet Series SH/5512 (OEH); Soil Landscapes of the Dubbo 1:250,000 Sheet (OEH); Landscapes (Mitchell) of NSW - Version 2 (OEH); Land System of Western NSW (OEH); Dryland Salinity Outbreak Mapping – Eastern and Central New South Wales (OEH); GEODATA TOPO 250K Series 3 (Geoscience Australia); Radiometric Map of Australia (Grids) (Geoscience Australia); 1 second SRTM Derived Digital Elevation Model (Geoscience Australia); Surface Geology of Australia 1:1 million scale, New South Wales – 2nd edition (Geoscience Australia); Dubbo 1:100 000 Geological Sheet, 2nd edition (Geoscience Australia); New South Wales DTDB Landform Theme 50K Digital Terrain Models (Land and Property Information); New South Wales Digital Topographic Database DTDB (Land and Property Information).

Topic category

Keyword set

keyword value	GEOSCIENCES-Geology
	GEOSCIENCES-Geomorphology
	HAZARDS
	LAND-Use
	SOIL
	WATER-Salinity
	GEOSCIENCES-Hydrogeology
	BOUNDARIES-Biophysical

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	146.2

East bounding longitude	150.5
North bounding latitude	-34
South bounding latitude	-30

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	2008-10-01
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

The hydrogeological landscape (HGL) mapping used the following base data for delineation of map units: published 1:1 million and 1:250 000 geological mapping data (polygon); published 1:250 000 soil landscape data (polygon); soil profile data from the OEH SALIS database (point); and Digital Elevation Model

(DEM) for Central West CMA and derivative products taken from the 25 metre DEM. The published and reconnaissance level mapping were combined and rationalised to create complete hydrogeological landscape classification (map unit) coverage for the entire Western Central West study area.

The combined HGL map product comprises two different datasets from different scales of investigation that cover the eastern and western portion of the Central West CMA area. Discrepancies may occur at the contact of these two datasets (essentially a line defined by the Newell Highway).

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2015-05-01
Explanation	Spatial data capture is complete for presentation and usage at 1:250 000 only.

DQ Completeness Omission

Effective date	2001-01-01

DQ Conceptual Consistency

Effective date	1900-01-01

DQ Topological Consistency

Effective date	2015-05-01
Explanation	All polygons in the coverage are topologically correct and all polygons have been attributed. Data has been visually checked at applicable scales

DQ Absolute External Positional Accuracy

Effective date	2015-05-01
Explanation	The accuracy of the coverage varies across the mapping area as map polygon boundaries were derived from different sources. HGL boundaries derived from published and draft 1:100 000 scale mapping are generally accurate to 100 m. HGL boundaries derived from published 1:250 000 scale mapping are approximate and generally accurate to 250 m.

DQ Non Quantitative Attribute Correctness

Effective date	2015-05-01
Explanation	It should be noted that the attributes for HGLs west of the Newell Highway are more recent and have undergone more intense investigation than those defined on the eastern side of the Newell Highway. Care should be exercised when making comparisons between the two areas. All polygons are labelled with a hydrogeological landscape unit tag, and attributed with information relevant to salinity management. Attributes were checked as part of routine GIS capture quality assurance procedures, including a visual check of polygon tags against field data. During the fieldwork phase, regular meetings were held to discuss and review methods, processes and consistency in landscape interpretation and documentation.

Responsible party

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

Metadata point of contact

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Responsible party role	pointOfContact

Metadata date

2024-07-03T04:23:51.555045

Metadata language