Title	Hydrogeological Landscapes of the Capertee and Coxs River Valleys: August 2019 (Second Edition)
Alternative title(s)	Capertee and Coxs River Valleys Hydrogeological Landscapes (HGL)

Abstract

This dataset supersedes 'Capertee-Lithgow Valleys Hydrogeological Landscapes: June 2010 (First Edition)'. It consolidates the original four volumes into one report. Hydrogeological landscape (HGL) boundaries and descriptions have been reviewed and modified as necessary.

A reformatted version of the main report was added to the data package in January 2020.

The focus of this dataset is the Capertee and Coxs River Valleys in NSW. It contains digital spatial data developed to assist in land management decision making. The dataset contains hazard ratings for land salinity, stream salt load and stream EC as well as overall salinity hazard for each HGL unit. The associated report and descriptions provide information on salinity management for each HGL unit.

The HGL concept provides a structure for understanding how differences in salinity are expressed across the landscape. A HGL spatially differentiates areas with similar salt stores and pathways for salt mobilisation. The process of delineating a HGL relies on the integration of a number of causative factors: geology, soils, slope, regolith thickness, and climate; an understanding of the different modes of salinity development; and the impacts of salinity within landscapes (land salinity, salt load and salt concentration in streams due to salt contributions from base flow and runoff). Information sources such as soil landscape maps, site characterisation, salinity occurrence maps, hydrogeological data, surface water and groundwater data are incorporated into standardised unit descriptions.

Spatial resolution for this product is 1:100 000.

Hydrogeological Landscapes (HGL) and associated salinity impacts and hazards are available as a custom layer in eSPADE, which includes links to individual HGL unit descriptions.

Resource locator

Data Quality Statement

Name: Data Quality Statement

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

Description:

DQS – Hydrogeological Landscapes of the Capertee and Coxs River Valleys: August 2019 (Second Edition)

Function: download

Attributes of Capertee and Coxs River Valley HGL

Name: Attributes of Capertee and Coxs River Valley HGL

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

Description:

Summary of HGL attributes of Capertee and Coxs River Valley study areas.

Function: download

Connect to eSPADE

Name: Connect to eSPADE

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

Description:

View this dataset and other soil-related datasets on eSPADE soil spatial viewer.

Function: download

Download Package

Name: Download Package

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

Description:

Contains Capertee and Coxs River HGL attributed boundary geodatabase, PDF versions

	of HGL and Overall Salinity Hazard maps, and PDF versions of Capertee and Coxs River Valleys HGL report and individual HGL descriptions. *A reformatted version of the main report was added in January 2020.* Function: download
Unique resource identifier	
Code	1493496b-642b-469e-9536-b5815e7aaee0
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/1493496b-642b-469e-9536-b5815e7aaee0
Purpose	This is an update to the data package generated for the Hawkesbury-Nepean Catchment Management Authority (HNCMA). Funding for this project was from the NSW Salinity Strategy Enhancement Program.
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: Soil and Land Resources of the Hawkesbury-Nepean Catchment (DECCW); The Vegetation of the Western Blue Mountains (DECCW); Southeast NSW Native Vegetation Classification and Mapping - SCIVI VIS_ID 2230 (DECCW); GEODATA TOPO 250K Series 3 (Geoscience Australia); Surface Geology of Australia 1:1 million scale, New South Wales - 2nd edition (Geoscience Australia); Bathurst 1:250 000 Geological Series Sheet SI 55-08, second edition (NSW Geological Survey); Bathurst 1:250 000 Geological Series Sheet SI 55-04, second edition (NSW Geological Survey); Singleton 1:250 000 Geological Series Sheet SI 56-01, first edition (NSW Geological Survey); Sydney 1:250 000 Geological Series Sheet SI 56-05, third edition (NSW Geological Survey); New South Wales DTDB Landform Theme 50K Digital Terrain Models (Land and Property Management Authority); New South Wales Digital Topographic Database DTDB (Land and Property Management Authority); High resolution annual rainfall gridded datasets from 1900 onwards (Bureau of Meteorology).

Topic category

Keyword set

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

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	149.9
East bounding longitude	150.34
North bounding latitude	-33.82
South bounding latitude	-32.85
NSW Place Name	Capertee and Coxs River Catchments

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	2008-07-01
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 1:250 000 geological mapping data (polygon); Published 1:100 000 and 1:250 000 soil landscape data (polygon); Soil profile data from the DECCW SALIS database (point); Digital Elevation Model (DEM) for Hawkesbury-Nepean CMA and derivative products taken from the 25 metre DEM; Vegetation of the Western Blue Mountains including the Capertee, Coxs and Jenolan-Gurnang Areas - VIS_ID 2231 (polygon); Southeast NSW Native Vegetation Classification and Mapping - SCIVI VIS_ID 2230 (polygon); and ; Field observations and assessment.

The published and reconnaissance level mapping were combined and rationalised to create a complete hydrogeological landscape classification (map unit) coverage for the entire Capertee and Coxs River valley areas.

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2019-08-01
Explanation	Spatial data capture is complete for presentation and usage at 1:100 000 only.

DQ Completeness Omission

Effective date	2019-08-01

DQ Topological Consistency

Effective date	2019-08-01
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	2019-08-01
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	2019-08-01
Explanation	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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Metadata date

2024-02-26T12:44:21.613363

Metadata language