Title	Sydney Metropolitan Western Study Area Hydrogeological Landscapes: March 2011 (First Edition)
Alternative title(s)	Sydney Metropolitan Western Study Area Hydrogeological Landscapes (HGL)
Abstract	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 package is the Sydney Metropolitan Western Study Area. It comprises four volumes - Volume 1: project background, regional setting, methodologies, interpretations, conclusions, glossary and references; Volume 2: HGL templates, and information associated with the use of the HGL templates; Volume 3: maps and digital spatial data developed for the project, including derivative maps to assist in land management decision making; and Volume 4: background information relevant to land management for rural and urban salinity in the Sydney Metropolitan Western 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. Spatial resolution for this product is 1:100 000.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: DQS – Sydney Metropolitan Western Study Area Hydrogeological Landscapes: March 2011 (First Edition) Function: download
Sydney Metro HGL package March 2011	Name: Sydney Metro HGL package March 2011 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Contains Sydney Metro HGL attributed boundary shapefile, PDF versions of derivative maps, and PDF versions of Sydney Metro HGL report and individual HGL descriptions. Function: download
Attributes of Sydney Metropolitan Western HGL	Name: Attributes of Sydney Metropolitan Western HGL Protocol: WWW:DOWNLOAD-1.0-http--download Description: Summary of HGL attributes of Sydney Metropolitan Western study area. Function: download

Unique resource identifier

Code	b694e039-ef53-4b0f-8bdd-779fac57c21d
Presentation form	Map digital
Edition	First
Dataset	English

language	

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/b694e039-ef53-4b0f-8bdd-779fac57c21d
Purpose	This data package was generated for the Sydney Metropolitan Catchment Management Authority (SMCMA). Funding for this project was from the NSW Salinity Strategy Enhancement Program (Stage 2).
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 Landscapes of the Penrith 1:100 000 sheet (OEH); Soil Landscapes of the Sydney 1:100 000 sheet (OEH); NSW National Parks & Wildlife Service - 1:25 000 Map Series (Native Vegetation of the Cumberland Plain) (OEH); GEODATA TOPO 250K Series 3 (Geoscience Australia); Surface Geology of Australia 1:1 million scale, New South Wales - 2nd edition (Geoscience Australia); Sydney 1:250 000 Geological Series Sheet SI 56-05, third edition (NSW Geological Survey); Penrith 1:100 000 Geological Sheet 9030, first edition (NSW Geological Survey); Sydney 1:100 000 Geological Sheet 9130, first edition (NSW Geological Survey); Wollongong-Port Hacking 1:100 000 Geological Sheet 9029-9129, first 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).

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	150.752
East bounding longitude	151.068
North bounding latitude	-34.27
South bounding latitude	-33.722
NSW Place Name	Sydney

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 OEH SALIS database (point); Digital Elevation Model (DEM) for Sydney Metropolitan CMA and derivative products taken from the 25 metre DEM; Native Vegetation of the Cumberland Plain spatial data (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 Sydney Metropolitan Western Study Area.

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2011-01-01
Explanation	Spatial data capture is complete for presentation and usage at 1:100 000 only.

DQ Completeness Omission

Effective date	2001-01-01

DQ Conceptual Consistency

Effective date	1900-01-01

DQ Topological Consistency

Effective date	2011-01-01
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	2011-01-01
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	2011-01-01
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

2024-02-26T12:56:22.667112

Metadata language