Title	Soil and Land Resources of the Hawkesbury-Nepean Catchment		
Abstract	This product contains natural resource mapping for the Hawkesbury-Nepean Catchment. The project was undertaken to enhance knowledge of soils, landscapes and physical constraints to land use in the urban and rural environment. The information will assist in informed decision making and planning throughout the catchment.		
	Each soil landscape unit is an inventory of soil and landscape information with relatively uniform land management requirements, allowing major soil and landscape qualities and constraints to be identified. Soils are described using the Australian Soil Classification and the Great Soil Group systems.		
	Related Datasets: The dataset area is also covered by the mapping of the Soil landscape 1:100 000 and 1:250 000 mapping series for the mapsheets of <u>Bathurst</u> , <u>Braidwood</u> , <u>Dubbo</u> , <u>Gosford</u> , <u>Goulburn</u> , <u>Katoomba</u> , <u>Kiama</u> , <u>Penrith</u> , <u>Singleton</u> , <u>St Albans</u> , <u>Sydney</u> , <u>Wallerawang</u> and <u>Wollongong</u> . Part of this area is also covered by the mapping of <u>Hydrogeological landscapes of NSW</u> and <u>Acid Sulphate Soil Risk Mapping</u> .		
	Online Maps: This and related datasets can be viewed using <u>eSPADE</u> (NSW's soil spatial viewer), which contains a suite of soil and landscape information including soil profile data. Many of these datasets have hot-linked soil reports. An alternative viewer is the <u>SEED Map</u> ; an ideal way to see what other natural resources datasets (e.g. vegetation) are available for this map area.		
	Reference: Department of Environment and Climate Change, 2008, <i>Soil and Land Resources of the Hawkesbury-Nepean Catchment</i> , Department of Environment and Climate Change, Sydney.		
Resource locator			
Show on SEED	Name: Show on SEED Web Map		
<u>Web Map</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload		
	Description:		
	Display dataset on SEED's map		
	Function: download		
<u>Data quality</u>	Name: Data quality statement		
<u>statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload		
	Description:		
	DQS - Soil and Land Resources of the Hawkesbury-Nepean Catchment		
	Function: download		
Show on	Name: Show on eSPADE Web Map		
eSPADE Web Map	Protocol: WWW:DOWNLOAD-1.0-httpdownload		
	Description:		
	View dataset on eSPADE spatial viewer		
	Function: download		
Soil and Land	Name: Soil and Land Resources data package		
<u>Resources data</u> package	Protocol: WWW:DOWNLOAD-1.0-httpdownload		
 	Description:		
	Download complete package: GIS data, reports and maps.		
	Function: download		
<u>GIS data</u>	Name: GIS data		
	Protocol: WWW:DOWNLOAD-1.0-httpdownload		
	Description:		
	Download shapefiles and ESRI layer files		

	Function: download
Soil and Land Resources	Name: Soil and Land Resources reports
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Download soil landscape map unit reports
	Function: download
ArcGIS REST	Name: ArcGIS REST Map Services
Map Services	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Connect to REST map services using ArcGIS or ArcGIS online map viewer.
	Function: download
Land and soil	Name: Land and soil information web page
information web page	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>web page</u>	Description:
	About land and soil information in NSW - DPIE's data systems and map products.
	Function: download
DPIE's Land	Name: DPIE's Land and soil website
<u>and soil</u> website	Protocol: WWW:DOWNLOAD-1.0-httpdownload
website	Description:
	Soil information, mapping & management; land degradation & geodiversity.
	Function: download
<u>Web Map</u>	Name: Web Map Service (WMS)
<u>Service (WMS)</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Connect to WMS using your GIS
	Function: download
KML Service	Name: KML Service
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Download KML for use in Google Earth.
	Function: download
<u>Web Map Tile Service (WMTS)</u>	Name: Web Map Tile Service (WMTS)
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Connect to WMTS service using your GIS.
	Function: download
Unique resourc	e identifier
Code	2ea220d3-d396-4a61-8cc8-7c9c1cd9a7bc
Drecontation	
form	Map digital

Edition	1.1		
Dataset language	English		
Metadata stan	ıdard		
Name	ISO 19115		
Edition	2016		
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/2ea220d3-d396-4a61-8cc8-7c9c1cd9a7bc		
Purpose	This product was funded by the Hawkesbury Nepean Catchment Management Authority to assist them with their natural resource management planning and decision making. For example in Catchment Action Plans.		
Status	Completed		
Spatial represe	entation		
Туре	vector		
Geometric			
Object Type	surface		
Geometric Object Count	10745		
Spatial referen	nce system		
Code identifying the spatial reference system	4283		
Equivalent scale	1:None		
Additional	GIS Field name descriptions		
information	S_NSWcode – unique soil map unit code using the NSW mastered naming convention.		
source	S_NSWname - unique soil map unit name using the NSW mastered naming convention.		
	Process_D – Dominant geomorphic process group of the soil landscape.		
	Groups are named after either recent or current land-forming processes, or conditions that influence soil parent material or soil type. Descriptions of these groups are available within soil landscape reports, glossary and on the DPIE website.		
	Process_SD – Sub-dominant geomorphic process group of the soil landscape.		
	Version - Version number of dataset		
	STEEP_SLOP – Steep slopes hazard		
	MASS_MOVEM – Mass Movement hazard		
	ROCK_OUTCR – Rock outcrop limitation		
	FOUNDATION – Foundation hazard		
	SHALLOW_SO - Shallow soils		
	HIGH_RUN_O – High run-on		
	POOR_DRAIN – Poor drainage		
	WATERLOGGI – Permanent waterlogging hazard		

F	LOOD_HAZA - Flood hazard
C	GULLY_EROS – Gully erosion risk
S	HEET_EROS – Sheet erosion risk
S	GALINITY_H – Salinity hazard
F	RURAL_LAND - Rural Land Capability (RLC) classification
5	EASONAL_W – Seasonal waterlogging hazard
ι	JRBAN_CAPA – Urban capability classification
5	TREAMBANK – Streambank erosion hazard
F	ROD_AG – Productive agricultural potential
F	ERT_LOW – Low fertility limitation
5	SUB_SODIC – subsoil sodicity hazard
F	<pre>tEGOLITH_D - Dominant soil regolith stability classification</pre>
ľ	Available Formats
	 Download JPG map, report or GIS ESRI shapefiles(.shp) & layer files (.lyr) from <u>SEED</u> data portal. Purchase a DVD data package from <u>Shop.DPIE</u> Soil profile points data is also available in MS spreadsheet format by contacting the data custodians at soils@environment.nsw.gov.au
Topic category	
Keyword set	
keyword value	AGRICULTURE
	GEOSCIENCES-Geology
	GEOSCIENCES-Geomorphology
	HAZARDS-Flood
	HAZARDS-Landslip
	LAND-Topography
	SOIL
	SOIL-Chemistry
	SOIL-Erosion
	SOIL-Physics
	VEGETATION
Originating controlle	d vocabulary
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic locat	ion
West bounding longi	tude 149.41
East bounding longit	ude 151.4778
North bounding latitu	ıde -35.1645
South bounding latitu	ıde -32.6974

NSW Place Name	Hawkesbury Nepean CMA catchment		
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	2005-01-01		
End position	N/A		
Dataset reference date			
Resource maintenance			
Maintenance and update frequency	As needed		
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 mapping undertaken by the NSW Government (Department of Land and Water Conservation, Department of Infrastructure Planning and Natural Resources and Department of Natural Resources) was created using: existing published soil landscape mapping (Braidwood, Sydney, Wallerawang, St Albans, Katoomba and Gosford/Lake Macquarie 1:100,000 map sheets) unpublished 1:100,000 scale mapping undertaken previously and co-funded by the Sydney Catchment Authority new mapping and upgrading of existing mapping undertaken and co-funded by the Natural Heritage Trust. Includes parts of Oberon, Bathurst, Wollongong, Penrith, Moss Natural Heritage Trust. Includes parts of Oberon, Bathurst, Wollongong, Penrith, Moss 			
Hawkesbusry Nepean For all datasets, provisiona geomorphic processes res geological parent material mapped using stereoscopi scale colour aerial photogr used to assist with percept were transferred onto 1:25 detailed investigations of t or sub-divided. Soils have been examined morphological data and sit System (SALIS) cards. Suff identify the range of soil m landscape to be described	a Catchment. al soil landscapes were established firstly on the dominant ponsible for the formation of the landscape and secondly on the . The boundaries of these provisional soil landscapes were c interpretation of 1:40,000 scale black and white and/or 1:25,000 raphs. LANDSAT thematic mapper and radiometric imagery were tion and charting of provisional soil landscapes. These boundaries 5,000 topographic base maps. After field checking boundaries and he soil, the provisional landscapes were confirmed, amalgamated and described in detail at over 3000 sites. At each site, soil te information were recorded on Soil and Land Information ficient field work was undertaken within each soil landscape to naterials present and to enable their distribution within the		

Limitations on public access		
Scope	dataset	
DQ Completene	ss Commission	
Effective date	2020-10-09	
Explanation	All polygons ir code (S_NSW subdominant (Version). Lar are available terrain and ro	n the GIS layer are labeled with a core group of fields: unique soil landscape code) and name (S_NSWname), dominant process group (Process_D), process group if applicable (Process_SD) and dataset version number adscape limitations and capability classification also are present. Pdf report for each map unit. Water polygons are identified as 'Water' and disturbed ock polygons are tagged as 'Not assessed' for limitation attribution.
	A shapefile of catchment is	physiographic regions (HkPhysRegFinal) for the Hawkesbury Nepean provied in the SEED data package and on the DVD.
DQ Conceptual	Consistency	
Effective date	2008-08-01	
Explanation	Map unit concepts and polygons, major soil types and soil landscape descriptions have been field verified by a peer soil surveyor or soils quality officer. Soil landscape boundaries have been checked and refined using iterative field and aerial photo checks	
DQ Topological Consistency		
Effective date	2008-08-01	
Explanation	ArcGIS was used to ensure all polygons in the shape file are topologically correct. All polygons have a unique identifier.	
DQ Absolute Ex	ernal Positional	Accuracy
Effective date	2008-08-01	
Explanation	Observations and soil profiles were located using handheld GPS (accurate to 50m) or using 1:25,000 topographic maps. Soil boundaries on this 1:100,000 scale map is generally accurate to within 100m on the ground but variations will occur especially where soil boundaries are gradual.	
DQ Non Quantit	ative Attribute Co	rrectness
Effective date	2008-08-01	
Explanation	Soil landscape map units are individualised by unique combinations of soil type, topography, geology, vegetation, land use existing erosion/land degradation and constraints to development. The land and soil attributes in this product were predominately assessed using field observations, remote sensing interpretation (satellite, radiometric and aerial photos) and laboratory analysis of some dominant soil type profiles.	
Responsible	party	
Contact position		a Broker
Organisation n	ame NSV	V Department of Climate Change, Energy, the Environment and Water
Telephone nun	iber 131	555
Email address		a.broker@environment.nsw.gov.au
Web address	<u>http</u>	s://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role		ntOfContact

Metadata point of contact			
Contact position	Data Broker		
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water		
Telephone number	131555		
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Responsible party role	pointOfContact		
Metadata date 2024-02-26T13:36:31.967499			
Metadata language			