

Title	Soil Landscapes of the Penrith 1:100,000 sheet
Abstract	<p>This map is one of a series of soil landscape maps that are intended for all of central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets. The map provides an inventory of soil and landscape properties of the area and identifies major soil and landscape qualities and constraints. It integrates soil and topographic features into single units with relatively uniform land management requirements. Soils are described in terms of soil materials in addition to the Great Soil Group and Northcote classification systems.</p> <p><b>Related Datasets:</b> The dataset area is also covered by the mapping of the <a href="#">Soil and Land Resources of the Hawkesbury-Nepean Catchment interactive DVD</a>.</p> <p><b>Online Maps:</b> This and related datasets can be viewed using <a href="#">eSPADE</a> (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 <a href="#">SEED Map</a>; an ideal way to see what other natural resources datasets (e.g. vegetation) are available for this map area.</p> <p><b>Reference:</b> Bannerman S.M. and Hazelton P.A., 2011, <i>Soil Landscapes of the Penrith 1:100,000 Sheet</i> report, digital reprint, Office of Environment and Heritage, Sydney.</p> <p>Bannerman S.M., Hazelton P.A. and Tille P.J., 2010, <i>Soil Landscapes of the Penrith 1:100,000 Sheet</i> map, reprint, Department of Environment, Climate Change and Water, Sydney.</p>
Resource locator	<div> <div><a href="#">Data quality statement</a></div> <div> <p>Name: Data quality statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>DQS - Soil Landscapes of the Penrith 1:100,000 sheet</p> <p>Function: download</p> </div> </div> <div> <div><a href="#">Show on eSPADE Web Map</a></div> <div> <p>Name: Show on eSPADE Web Map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>View dataset on eSPADE spatial viewer.</p> <p>Function: download</p> </div> </div> <div> <div><a href="#">GIS data</a></div> <div> <p>Name: GIS data</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Download shapefile and ESRI layer file</p> <p>Function: download</p> </div> </div> <div> <div><a href="#">Soil landscape map</a></div> <div> <p>Name: Soil landscape map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Download high quality JPG map</p> <p>Function: download</p> </div> </div> <div> <div><a href="#">NSW Government Online Shop</a></div> <div> <p>Name: NSW Government Online Shop</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Purchase hardcopy map from Shop.DPIE website</p> <p>Function: download</p> </div> </div>

Soil map information

Name: Soil map information

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

Description:

Web page about soil maps in NSW.

Function: download

Land and soil information

Name: Land and soil information

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

Description:

Web page about land and soil information in NSW.

Function: download

Soil landscape reports

Name: Soil landscape reports

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

Description:

Download complete soil landscape report & individual landscape descriptions.

Function: download

Soil landscape data package

Name: Soil landscape data package

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

Description:

Download complete package: GIS data, soil landscape reports and JPG map.

Function: download

Unique resource identifier

Code 34442f2a-e6e1-4c32-8375-6ef0cdb2cdaa

Presentation form Map digital

Edition 1.0

Dataset language English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/34442f2a-e6e1-4c32-8375-6ef0cdb2cdaa>

Purpose Support natural resource management and decision making.

Status Completed

Spatial representation

Type vector

Geometric Object Type surface

Geometric 622

Object Count	
Spatial reference system	
Code identifying the spatial reference system	4283
Equivalent scale	1:None
Additional information source	<p><b>GIS Field name descriptions</b></p> <p>CODE - Soil landscape code  NAME - Soil landscape name  PROCESS - 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 and on the DPIE website.  LANDSCAPE - A string combining process group and the soil landscape code. The first two capital letters are the process groups abbreviation and the remaining letters are the soil landscape code.  VERSION - Version number</p> <p><b>Available Formats</b></p> <ul style="list-style-type: none"> <li>• View online using <a href="#">eSPADE</a> Spatial viewer</li> <li>• Download JPG map, report or GIS ESRI shapefiles(.shp) &amp; layer files (.lyr) from <a href="#">SEED</a> data portal.</li> <li>• Purchase a hard-copy map from <a href="#">Shop.DPIE</a></li> <li>• Soil profile points data is also available in MS spreadsheet format by contacting the data custodians at soils@environment.nsw.gov.au</li> </ul>
Topic category	
Keyword set	
keyword value	<p>GEOSCIENCES-Geology</p> <p>GEOSCIENCES-Geomorphology</p> <p>HAZARDS-Flood</p> <p>HAZARDS-Landslip</p> <p>LAND-Geography</p> <p>SOIL</p> <p>SOIL-Chemistry</p> <p>SOIL-Erosion</p> <p>SOIL-Physics</p> <p>VEGETATION</p>
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	150.501162
East bounding longitude	151.001161
	-33.99843

North bounding latitude	
South bounding latitude	-33.498424
NSW Place Name	Penrith 1:100,000 map sheet
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	1988-01-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Unknown
<b>Contact info</b>	
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
<b>Lineage</b> <p>Provisional soil landscapes were established, based firstly on the dominant geomorphic process responsible for the formation of the landscape and secondly, on the geological parent material. The boundaries of these provisional soil landscapes were mapped using stereoscopic interpretation of 1:40,000 black and white aerial photographs transferred onto 1:25,000 base maps. After field checking these boundaries and detailed investigation of the soils, the provisional landscapes were confirmed, amalgamated or sub-divided. The resulting soil landscapes are presented on the map at 1:100,000 scale in groups based on their dominant geomorphic process.</p> <p>Soils were examined and described in detail at 142 sites and inspected at many hundreds more over the 21 soil landscapes. At each described site, soil morphological data and site information were recorded on Soil Data Cards and later transferred into the Soil and Land Information System (SALIS). 37 soil samples were collected for laboratory analysis.</p> <p>The GIS shapefile linework has been updated to reflect latest hydrology data. Therefore small differences will occur between the shapefile and hard copy map.</p>	
<b>Limitations on public access</b>	
Scope	dataset
<b>DQ Completeness Commission</b>	
Effective	

date 1990-06-01

**Explanation** Each soil landscape generally has a representative profile (type profile) for each sub-landscape (facet) within it. Soil landscapes with difficult access may have very little to no soil profile descriptions. The number of soil profile descriptions and observations are within the recommended range specified in the Australian Soil and Land Survey Handbook (Reid 1988). Soil landscape polygons less than 40 hectares and elongated polygons less than 300 m wide are generally not shown unless they are unusually significant.

#### DQ Completeness Omission

**Effective date** 2009-01-10

#### DQ Conceptual Consistency

**Effective date** 1990-06-01

**Explanation** The map and report have been checked for technical consistency and compliance with soil landscape map series standards. Map unit concepts and polygons, major soil types and soil landscape descriptions have been field verified (field edited) by a peer soil surveyor. Soil landscape boundaries have been checked and refined using iterative field and aerial photo checks. Logical consistency of vector data was assessed at the time of map digitisation.

#### DQ Topological Consistency

**Effective date** 1900-01-01

**Explanation** ArcGIS was used to ensure all polygons in the shapefile are topologically correct.

#### DQ Absolute External Positional Accuracy

**Effective date** 1990-06-01

**Explanation** Boundaries between soil landscapes are drawn as solid lines where they could be delineated reliably and broken lines where they were more diffuse or difficult to identify. Solid line boundaries are generally accurate within 100m. Dashed line boundaries are generally accurate within 100 to 250m. Dotted line boundaries are generally accurate within 250 to 400m.

Observations and soil profile numbers are located onto the field sheets in the field. Location is determined by map reading (with accuracy to 25m) and where this is not possible using Global Positioning Systems (with accuracy within 100m). Field sheets are digitised to 13m accuracy.

#### DQ Non Quantitative Attribute Correctness

**Effective date** 1990-06-01

**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 from field observations and aerial photo interpretation.

Soil laboratory tests are undertaken for at least one representative sample for each soil material. Where possible, the chemical test methods adopted are the same as those in Raymond and Higginson (1992). Single test results provided for each soil material are intended as a guide only and variation in physical and chemical properties within each soil material should be anticipated.

Soils were examined and described in the field. At each site, soil morphological data and site information were recorded on Soil and Land Information System (SALIS) cards. Sufficient field work was undertaken within each soil landscape to identify the range of soils present and to enable their distribution within the landscape to be described.

Responsible party	
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Metadata date	2024-02-26T13:44:00.417744
Metadata language	