

Title	Tweed River Floodplain Prioritisation Study
Abstract	The Coastal Floodplain Prioritisation Study covered seven estuaries on the NSW floodplain. The study included an extensive data collection and collation process to improve understanding of the processes and areas that contribute to poor water quality and improve overall floodplain management. The data delivered here includes information on floodplain drainage infrastructure, soil stratigraphy and hydraulic conductivity, sea level rise vulnerability and drain cross sections. The final outcomes of the prioritisation for the Tweed River floodplain with respect to acid and blackwater generation is also provided.
Resource locator	
Tweed River Floodplain Prioritisation Study	<p>Name: Tweed River Floodplain Prioritisation Study</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>File contains: .shp, .mxd, .mpk, .pdf</p> <p>Function: download</p>
Tweed River Floodplain Prioritisation Study Data Quality Statement	<p>Name: Tweed River Floodplain Prioritisation Study Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data Quality Statement for the Tweed River Floodplain Prioritisation Study</p> <p>Function: download</p>
Unique resource identifier	
Code	cc90b02e-addf-42ae-804c-f4e802a8b912
Presentation form	Map digital
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/cc90b02e-addf-42ae-804c-f4e802a8b912
Purpose	The aims of the study were to develop and apply multi-criteria prioritisation methodologies to rank drainage subcatchments within NSW coastal floodplains by their contribution to acid and blackwater generation and discharge, to determine the subsequent risks to the estuarine waterways, and to guide the future management of coastal floodplains. The purpose of this prioritisation is to establish an evidence-based list of high priority subcatchments to be targeted for on-ground management actions or remediation. The Tweed River Floodplain Prioritisation Study was the application of the method on the Tweed River.
Status	Completed
Spatial representation	
Type	vector
Spatial reference system	
Code	

Topic category

Keyword set

keyword value	ECOLOGY-Landscape Biophysical SOIL-Chemistry HAZARDS WATER WATER-Hydrochemistry WATER-Hydrology WATER-Quality WATER-Surface MARINE MARINE-Coasts MARINE-Estuaries MARINE-Human-Impacts CLIMATE-AND-WEATHER CLIMATE-AND-WEATHER-Climate-change CLIMATE-AND-WEATHER-Extreme-weather-events HAZARDS-Flood HAZARDS-Severe-local-storms GEOSCIENCES-Hydrogeology HUMAN-ENVIRONMENT-Planning
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Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	153.33986
East bounding longitude	153.58425
North bounding latitude	-28.37816
South bounding latitude	-28.14802

Vertical extent information

Minimum value	-100
Maximum value	2228

Coordinate reference system

Authority code	urn:ogc:def:cs:EPSG::
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Temporal extent

Begin position

End position N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency Not planned

Contact info

Contact position Data Broker

Organisation name Department of Primary Industries and Regional Development (DPIRD)

Responsible party role pointOfContact

Lineage

Tucker, T. A., Rayner, D. S., Harrison, A. J., Lumiatti, G., Rahman, P. F., Gilbert, D. & Glamore, W. 2023. Tweed River Floodplain Prioritisation Study WRL TR2020/04. Water Research Laboratory, University of New South Wales. Rayner, D. S., Harrison, A. J., Tucker, T. A., Lumiatti, G., Rahman, P. F., Waddington, K., Juma, D. & Glamore, W. 2023. Coastal Floodplain Prioritisation Study – Background and Methodology WRL TR2020/32. Water Research Laboratory, University of New South Wales.

Parent data sources include: Geoscience Australia 5 m DEM derived from lidar DPIE. 2020. eSpade NSW Soil and Land Informatin [Online]. Available: <https://www.environment.nsw.gov.au/eSpade2WebApp> [Accessed 2019]. Smith, J., van Oploo, P., Marston, H., Melville, M. D. & Macdonald, B. C. T. 2003. Spatial distribution and management of total actual acidity in an acid sulfate soil environment, McLeods Creek, northeastern NSW, Australia. *Catena*, 51, 61-79. Kinsela, A. S., Reynolds, J. K. & Melville, M. D. 2007. Agricultural acid sulfate soils: a potential source of volatile sulfur compounds? *Environmental Chemistry*, 4. JGA 2005. ENVIRONMENTAL IMPACT STATEMENT: PROPOSED EXPANSION OF SAND QUARRY AT AT CRESCENT STREET, CUDGEN. Gilbert and Sutherland 2009. Acid Sulfate Soil Assessment & Management Plan Central Open Space Area, Cobaki Lakes. Macdonald, B. C. T., White, I., Keene, A., Melville, M. D. & Reynolds, J. 2004. Acidity, metals and acid sulfate soils. Hirst, P., Slavich, P., Johnston, S. & Walsh, S. 2009. Assessment of hydraulic conductivity in coastal floodplain acid sulfate soils on the north coast of NSW. Industry & Investment NSW. White, L., Melville, M. D., Wilsor, B. P., Price, C. B. & Willett, L. Understanding acid sulphate soils in canelands. Proceedings of the National Conference on Acid Sulphate Soils, 1993 Coolongatta, Queensland. CSIRO, NSW Agriculture, Tweed Shire Council, Australia, 130-148.

Limitations on public access

Responsible party

Contact position Data Broker

Organisation name Department of Primary Industries and Regional Development (DPIRD)

Responsible party role pointOfContact

Metadata point of contact

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Metadata date 2023-10-31T05:37:52.208057

Metadata language