Title Lower Mehi River Fish Habitat Mapping

Alternative title(s)

Lower Mehi River Fish Habitat Mapping

Abstract

2rog Consulting was engaged by DPIRD to undertake aquatic habitat mapping surveys for the NSW DCCEEW – BCS Group along 170 km of the Mehi River in the Gwydir Catchment as part of the broader Gwydir Reconnecting Watercourse Country Program which forms part of the Northern Basin Toolkit designed to implement environmental works and measures identified in the Northern Basin Review.

Aquatic habitat mapping was undertaken to establish a baseline record of aquatic and riparian habitats in the study area. The project was required to determine priorities for protection and enhancement of aquatic and riparian habitats through a range of interventions including water management and aquatic habitat rehabilitation activities, landholder liaison and weed management.

The main objectives of this mapping project included the following: • Document the riparian features of the identified reaches of the Lower Mehi River, focusing on native vegetation, weed infestation and existing management activities. • Document the stream bed morphology including the location, length and depth of pools that may act as drought refugia; and instream habitat features including large woody habitat (snag) loading. • Calculate commence-to-inundate flow thresholds of select habitat features where feasible including benches, wetland entry/exit points, large woody habitat and root balls/bank overhangs. • Identify and map threats and processes that may influence the extent and condition of aquatic and riparian habitat features. • Make recommendations to protect and improve river health, threatened species habitat enhancement, weed control, and other habitat features.

The spatial dataset is provided in the form of a geodatabase containing point, line and polygon features of the mapped habitats. Some of the features contain embedded geotagged photos. Detailed explanation of the fields used in the attribute tables for the various feature classes are available in "Appendix G: Metadata for geodatabases" of the accompanying "Fish Habitat Mapping - Lower Mehi River" report.

Resource locator

Data Quality Statement Name: Data Quality Statement

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

Description:

Data quality statement for Lower Mehi River Fish Habitat Mapping

Function: download

Lower Mehi River Fish Habitat Name: Lower Mehi River Fish Habitat Mapping report

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

Mapping report Description:

Gwydir Reconnecting Watercourse Country Program 2024 Lower Mehi River fish

habitat mapping

Function: download

Lower Mehi River Fish Habitat Mapping 2024 geodatabase Name: Lower Mehi River Fish Habitat Mapping 2024 geodatabase

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

Description:

Gwydir Reconnecting Watercourse Country Program 2024 Lower Mehi River fish habitat mapping geodatabase containing point, line and polygon features with

embedded photos.

Function: download

Unique resource identifier

Code 075dd8a7-fc4d-4c4a-b87f-cfe4ac212c97

Presentation form	Map digital	
Edition	1	
Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/075dd8a7-fc4d-4c4a-b87f-cfe4ac212c97	
Purpose	The mapping of key aquatic habitat features is intended to help determine priorities for protection and enhancement of aquatic and riparian habitats through a range of interventions including water management and aquatic habitat rehabilitation activities, landholder liaison and weed management.	
Status	Completed	
Spatial representation		
Туре	vector	
Spatial reference system		
Code identifying the spatial reference system	4283	
Spatial resolution	100 m	
Topic category	у	

Keyword set		
keyword value	WATER-Wetlands	
	ECOLOGY-Habitat	
	FISHERIES-Freshwater	
Originating controlled vocabulary		
Title	ANZLIC Search Words	
Reference date	2008-05-16	
Geographic location		
West bounding longitude	148.671799	
East bounding longitude	149.675674	
North bounding latitude	-29.609208	
South bounding latitude	-29.462244	
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	2024-04-22	
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

NSW Department of Primary Industries and Regional Development (DPIRD) Fisheries and Forestry was engaged by the NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW), Biodiversity, Conservation and Science (BCS) Group to conduct a field survey to undertake fish habitat mapping along the Lower Mehi River (the project area) in the Gwydir Catchment, as part of the Gwydir Reconnecting Watercourse Country Program. The objective of the work was to address gaps in ecological knowledge and improve understanding of the environmental assets that exist in the lower Mehi River. This will aid in the management of flows down the system to restore fish communities in this river. The Lower Mehi River fish habitat mapping project has identified opportunities for refinement of flow delivery, as outlined in the Gwydir Long Term Water Plan (LTWP), and identified key habitat features including LWH, root balls and bank overhangs, wetlands and benches. 2rog Consulting was engaged by DPIRD to undertake the aquatic habitat mapping surveys.

Limitations on public access

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

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Metadata date 2025-04-01T23:58:32.346130

Metadata language