

## Abstract

## Objective

This Floodplain Management Study defines the nature and extent of the flood hazard in the three catchments. It also identifies and assesses strategies and measures aimed at reducing the impact of flooding on both existing and future development, and measures to prevent future development from making flooding worse.

The results of this Floodplain Management Study are being used to prepare a Floodplain Management Plan (FPMP). The objective of the FPMP is to establish a cost-effective floodplain management strategy for the area and to recommend a programme for implementation of the Plan.

The Study Brief is attached as Appendix A.

## What is in the Study

The Floodplain Management Study and Plan will not totally eliminate flooding. Flooding is a natural phenomenon which cannot be fully controlled by human works. In fact, excessive artificial controls are likely to be very costly and to have adverse environmental effects. Therefore the Floodplain Management Study and Plan aim to provide a package of best management practices which give a balance between reducing flood hazard and flood damages, allowing appropriate development, and protecting and enhancing the environment of the floodplain.

This Report has been divided into the following sections:

- **Section 1:** Introduction (page 1) Establishes the context and basis for the plan.
- **Section 2:** Background (page 5) Describes the study process, including previous studies, and the background technical information which is available. It includes a review of the previous Muddy Creek Flood Studies.
- **Section 3:** Existing Flood Behaviour (page 15) Summarises the available data and modelling results concerning flood behaviour.
- **Section 4:** Social and Economic Impacts of Flooding (page 23) Examines the potential flood damages and other social and economic effects of flooding for a range of flood events, including an extreme flood.
- **Section 5:** Choosing the Designated Flood (page 28) Discusses the issues to be considered by Council in choosing a designated flood for Rockdale, and recommends that the 1% AEP flood be adopted.
- **Section 6:** Available Floodplain Management Options (page 35) Describes in broad terms the range of flood mitigation and other management works and other measures available to address the existing, future and residual flooding problems in the study area.
- **Sections 7, 8 and 9:** Options for Management Areas (page 48) These three sections describe in detail, for the Muddy Creek, Spring St Drain and Scarborough Ponds catchments respectively, the feasible options and their likely benefits and costs.
- **Section 10:** Assessment of Management Options (page 86) Reviews the financial aspects and the justification for the proposed management measures, identifies priorities and possible sources of funding. These issues will be further addressed in the future Floodplain Management Plan.
- **Section 11:** References (page 90) Technical detail which supports the main report is provided in the Appendices, in Volume 2.

## Resource locator

[Spring Street Drain, Muddy Creek & Scarborough Ponds - Floodplain Management Study Vol 1](#)

Name: Spring Street Drain, Muddy Creek & Scarborough Ponds - Floodplain Management Study Vol 1 January 2000

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

Function: download

**Unique resource identifier**

Code 90f8b8bd-456d-4496-a842-80abd2456dcc

**Presentation form**

Edition 26/07/2017

Dataset language English

**Metadata standard**

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/90f8b8bd-456d-4496-a842-80abd2456dcc>

Purpose Land and Resource Management

Status On going

**Spatial representation**

Type vector

**Spatial reference system**

Code identifying the spatial reference system 4283

**Topic category**

<b>Keyword set</b>	
keyword value	
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	151.109486
East bounding longitude	151.168897
North bounding latitude	-33.978498
South bounding latitude	-33.937642
NSW Place Name	Rockdale
<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	
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	As needed
<b>Contact info</b>	
Contact position	Data Broker
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Responsible party role	pointOfContact
<b>Limitations on public access</b>	

## Responsible party

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