

Georges & Woronora Valley

Volume 1

Flood Emergency Sub Plan

**A Sub Plan of the Sydney Metropolitan and South West Metropolitan
Regional Emergency Management Plans (EMPLAN)**

Endorsed by the Regional Emergency Management Committees

October 2023

AUTHORISATION

The Georges and Woronora River Valley Flood Emergency Sub Plan is a sub plan of multiple Local Government Areas Regional Emergency Management Plans (EMPLAN). It has been prepared in accordance with the provisions of the *State Emergency Service Act 1989 (NSW)* and is endorsed by the Regional Emergency Management Committee in accordance with the provisions of the *State Emergency and Rescue Management Act 1989 (NSW)*.

Authorised

Signature:

A Flaxman

NSW SES Zone Commander

Print Name:

Allison Flaxman

Date:

3/10/23

Endorsed

Signature:

Stuart Smith

Chair, South West Metropolitan Regional Emergency Management Committee

Print Name:

STUART SMITH

Date:

23/10/23

Endorsed

Signature:

Paul Dunstan

Chair, Sydney Metropolitan Regional Emergency Management Committee

Print Name:

A/AC Paul Dunstan

Date:

24/11/2023

VERSION HISTORY

Version Number	Description	Date
0	Georges and Woronora River Valley Flood Emergency Sub Plan Volume 1	May 2018

AMENDMENT LIST

Suggestions for amendments to this plan should be forwarded to:

Manager Emergency Planning
 NSW State Emergency Service
 PO Box 6126, Wollongong NSW 2500
nswses.communityplanning@ses.nsw.gov.au

Amendments made to this plan will be entered in the list below.

Amendment Number	Description	Updated by	Date
01	Reformatted into a new version. Note: no agency approved regional flood plan template so have generated off the LFP template but customized specific to the regional level.	Shelly Stingmore	28.10.2022
02	Updated Authorisation Page from Unit Commander sign off to Zone Commander signoff	Shelly Stingmore	28.10.2022
02	NSW SES adopting the Australian Warning System and updated plan to align	Shelly Stingmore	28.10.2022
03	Customize to regional area and added key specific information to the relevant catchment / rivers	Shelly Stingmore	28.10.2022
04	Inserted Section 1.3 - Activation and extracted the relevant text from the SFP template	Shelly Stingmore	28.10.2022
05	Included Bayside and Wollondilly as they are two councils impacted by flooding from these rivers	Shelly Stingmore	28.10.2022
06	Update of wording from 'BoM' to 'Bureau'	Shelly Stingmore	23.02.2023
07	Update to section 1.8.1b to include commitment of exercising plan every five years and within two years of the plan being reviewed	Shelly Stingmore	23.02.2023
08	Update to section 5.10.1.b, c, d, from State Rescue Board Land Rescue Policy to State Rescue Board NSW State Rescue Policy	Shelly Stingmore	23.02.2023
09	Under Section 6- Recovery Operations – updated 6.2.2 (c) reference from Resilience NSW to NSW Reconstruction Authority	Shelly Stingmore	23.02.2023

DISTRIBUTION LIST

Available for general use and distribution on the NSW State Emergency Service website www.ses.nsw.gov.au

This plan is Attribution (CC BY) under the Creative Commons licensing system, unless otherwise indicated. Copyright resides with the State of New South Wales, NSW State Emergency Service unless otherwise indicated.

CONTENTS

AUTHORISATION	2
VERSION HISTORY	3
AMENDMENT LIST	3
DISTRIBUTION LIST	3
CONTENTS.....	5
OUTLINE AND SCOPE	7
1.1 Purpose.....	7
1.2 Authority.....	7
1.3 Activation.....	7
1.4 Area Covered by the Plan	7
1.5 Out of Scope	7
1.6 Flood Threats and their Potential Impact	8
1.7 Relationships between Plans.....	8
1.8 Goals	8
1.9 Key Principles.....	9
1.10 Roles and Responsibilities	9
1.11 Plan Maintenance and Review	9
1.12 Supplementary Documents.....	9
OVERVIEW OF NSW FLOOD HAZARD AND RISK	10
1.13 The Flood Threat	10
PREVENTION/ MITIGATION	11
1.14 Introduction.....	11
1.15 Land Use Planning	11
1.16 Floodplain Risk Management.....	11
PREPARATION	12
1.17 Introduction.....	12
1.18 Flood Emergency Planning	12
1.19 Flood Intelligence Systems	12
1.20 Development of Warning Systems.....	12
1.21 Briefing, Training and Exercising	13
1.22 Community Resilience to Flooding.....	14
RESPONSE	14
1.23 Introduction.....	14
1.24 Incident Management Arrangements.....	14
1.25 Use of Information and Collection of Intelligence	16

1.26	Provision of Information and Warnings to the Community.....	16
1.27	Protection of Property.....	18
1.28	Road and Traffic Control	18
1.29	Protection of Essential Services	18
1.30	Evacuation	19
1.31	Evacuee Management And Welfare	21
1.32	Flood Rescue.....	22
1.33	Resupply	22
1.34	Return.....	23
1.35	End of Response Operations	24
1.36	Post Impact Actions.....	24
	RECOVERY OPERATIONS	25
1.37	Introduction.....	25
1.38	NSW SES Recovery Role.....	25
	ABBREVIATIONS	26
	GLOSSARY	26
	APPENDIX A – MAP OF GEORGES AND WORONORA RIVER VALLEY AREA	27
	APPENDIX B – ROLES AND RESPONSIBILITIES	28

OUTLINE AND SCOPE

1.1 PURPOSE

- 1.1.1 The purpose of this plan is to set out the multi-agency arrangements for the emergency management of region-wide flooding in the Georges and Woronora River Valley, that affects multiple Local Government Areas (LGAs) and parts of two Emergency Management Regions.

1.2 AUTHORITY

- 1.2.1 This plan is written and issued under the authority of the [State Emergency and Rescue Management Act 1989 \(NSW\)](#) ('SERM Act'), the [State Emergency Service Act 1989 \(NSW\)](#) ('SES Act') and the NSW State Emergency Management Plan (EMPLAN).
- 1.2.2 This plan is a sub plan to two Regional Emergency Management Plans (EMPLANs) and is endorsed by both Regional Emergency Management Committees (REMCs) of the South West Metropolitan Region and the Sydney Metropolitan Region.

1.3 ACTIVATION

- 1.3.1 The Georges and Woronora River Valley Flood Emergency Sub Plan (FESP) does not require activation. The arrangements set out in this plan are active at all times in anticipation of the need to coordinate support and resources requested by combat agencies, including the NSW State Emergency Service (NSW SES).

1.4 AREA COVERED BY THE PLAN

- 1.4.1 The following Local Government Areas or parts thereof are situated within the principal catchments of the Georges and Woronora River Valley:
- a. Bayside
 - b. City of Canterbury Bankstown
 - c. Campbelltown City
 - d. Fairfield City
 - e. Georges River City
 - f. Liverpool City
 - g. Sutherland Shire
 - h. Wollondilly Shire

- 1.4.2 The area covered by this plan, including principal waterways of the Georges and Woronora River Valley (rivers and significant tributaries), are shown in Map 1.

1.5 OUT OF SCOPE

- 1.5.1 This FESP is based on existing information publicly available at the time of writing and does not cover planned future development, whether approved or not.

Consultation with the NSW SES and review of this plan may be required to account for future population increase and development within impacted areas.

1.6 FLOOD THREATS AND THEIR POTENTIAL IMPACT

- 1.6.1 The general arrangements for managing floods in NSW are outlined within the NSW State Flood Sub Plan.
- 1.6.2 Known flood threats and their potential impacts within Georges and Woronora River Valley, based on available data and relevant descriptions of flood behaviour, are presented in Volume 2 of this FESP.
- 1.6.3 The arrangements for dealing with episodes of coastal erosion related to severe weather, are described in the NSW State Storm Sub Plan.
- 1.6.4 The arrangements for the emergency management of tsunamis are dealt with in the NSW State Tsunami Emergency Sub Plan.
- 1.6.5 This plan also outlines regional level arrangements for management of any predicated downstream consequences of flooding due to dam failure, however it does not cover the management of flooding of an underground mine by inrush or other cause, which should be covered by the Mine Emergency Sub Plan for the respective mine.

1.7 RELATIONSHIPS BETWEEN PLANS

- 1.7.1 The NSW SES and other agencies with responsibilities listed in this plan may prepare supporting plans in accordance with the State Emergency and Rescue Management Act 1989 (NSW).
- 1.7.2 Supporting plans are available on the Emergency NSW website.
- 1.7.3 The NSW State Flood Sub Plan, Storm Sub Plan and Tsunami Sub Plan are also available on the Emergency NSW website.

1.8 GOALS

- 1.8.1 The primary goals for flood emergency management in NSW are:
 - a. Protection and preservation of life.
 - b. Establishment and operation of flood warning systems.
 - c. Issuing of community information and community warnings.
 - d. Coordination of evacuation and welfare of affected communities.
 - e. Protection of critical infrastructure and community assets essential to community survival during an emergency incident.
 - f. Protection of residential property.
 - g. Protection of assets and infrastructure that support individual and community financial sustainability and aid assisting a community to recover from an incident.
 - h. Protection of the environment and conservation values considering the cultural, biodiversity and social values of the environment.

1.9 KEY PRINCIPLES

- 1.9.1 The protection and preservation of human life (including the lives of responders and the community) is the highest priority.
- 1.9.2 Evacuation is the primary response strategy for people impacted by flooding.

1.10 ROLES AND RESPONSIBILITIES

- 1.10.1 General responsibilities of emergency service organisations and functional areas are set out in the NSW State EMPLAN and NSW State Flood Sub Plan.
- 1.10.2 Specific roles and responsibilities for agencies, functional areas and organisations in relation to flooding within Georges and Woronora River Valley are further detailed within this plan and its appendices.
- 1.10.3 Any agency with agreed responsibilities in this plan that are temporarily unable, or no longer able to fulfil their responsibilities in response operations must as soon as possible notify:
- a. The NSW SES Incident Controller (for regional level responsibilities during response operations).
 - b. The NSW SES Duty Zone Commander (for regional level responsibilities outside of response operations).

1.11 PLAN MAINTENANCE AND REVIEW

- 1.11.1 The NSW SES Metro Zone will maintain the currency of this FESP by:
- a. Ensuring that all agencies, organisations and officers mentioned are aware of their roles and responsibilities.
 - b. Conducting a minimum of one exercise every five years and within two years of the plan being reviewed.
 - c. Reviewing the contents of the plan:
 - When there are changes which alter agreed plan arrangements.
 - After a flood including from after action reviews, reports, or inquiries.
 - When changes to land use strategic plans and policies increase the population exposed to flood risk; and
 - As determined by the NSW SES Commissioner.
 - d. The plan is to be reviewed no less frequently than every five years or after a significant flood event.

1.12 SUPPLEMENTARY DOCUMENTS

- 1.12.1 Supplementary and supporting material of NSW SES Flood Emergency Sub Plans is maintained on the [NSW SES website Flood, Storm and Tsunami Plans](#) including:
- a. Flood Plan Glossary.
 - b. NSW SES Dam Failure Notification Flowchart.
 - c. NSW SES Resupply Flowchart.

OVERVIEW OF NSW FLOOD HAZARD AND RISK

1.13 THE FLOOD THREAT

1.13.1 NSW SES maintains information on the nature of flooding and effects of flooding on the community in the subject LGAs that fall within the Georges and Woronora River catchments. The relevant details are outlined in Volume 2 – Hazard and Risk in the Georges and Woronora River Valley.

1.13.2 There are multiple declared dams located within the Georges and Woronora River catchments as scheduled by Dam Safety NSW.

- a. The following list identifies all of the declared dams that have only local impacts and are addressed as required in relevant Local Flood Plans.

Dam Name	Owner	Location
Amalfi Park Detention Basin	Liverpool City Council	Lurnea
Banks Road Retarding Basin	Liverpool City Council	Hinchinbrook
Barden Ridge Lower Dam	Sutherland Shire Council	Lucas Heights
Bosnjak Park US	Fairfield City Council	Edensor Park
Brennans Creek Dam	South32 Limited	Appin
Calmsley Hill City Farm Dam	Western Sydney Parklands Trust	Abbotsbury
<i>Camden Valley Way Detention Basin</i>	<i>Liverpool City Council</i>	<i>NOT BUILT</i>
Campbelltown Link Area Basin 1	Campbelltown City Council	Campbelltown
Campbelltown, North Detention Basin	Campbelltown City Council	Campbelltown
Cecil Hills Basin 100	Liverpool City Council	Cecil Hills
Cecil Park Basin 3A	Liverpool City Council	Cecil Park
Cecil Park Basin 3B	Liverpool City Council	Cecil Hills
Clear Paddock Creek Basin C	Fairfield City Council	Bonnyrigg
Clear Paddock Creek Basin W2	Fairfield City Council	Edensor Park
Clear Paddock Creek Basin W3	Fairfield City Council	Edensor Park
Comin Place Detention Basin	Fairfield City Council	Abbotsbury
Daruk Park Retarding Basin	Liverpool City Council	Casula
Emerson Street Reserve	Fairfield City Council	Wetherill Park
Fairfield Golf Course Basin	Fairfield City Council	Prairiewood
Greenway Drive Retarding Basin 10 A-B	Liverpool City Council	West Hoxton
Horningsea Park Detention Basin	Liverpool City Council	Horningsea Park
Hoxton Park Basin 6	Liverpool City Council	Elizabeth Hills
King Park Basin	Fairfield City Council	Wakeley
Knight Park	Fairfield City Council	Yennora
Mimosa Road Basin	Fairfield City Council	Greenfield Park
Smiths Creek Ret Basin 1	Campbelltown City Council	Leumeah
Smiths Creek Ret Basin 2	Campbelltown City Council	Leumeah
Smiths Creek Ret Basin 3	Campbelltown City Council	Leumeah
Stockdale Basin	Fairfield City Council	Abbotsbury
Whitford Road Retarding Basin	Liverpool City Council	Green Valley
Widemere Detention Basin	Strata Plus	Greystanes

- b. The following declared dams have regional impacts (across multiple LGAs) and are addressed within Volume 2 of this FESP.

Dam Name	Owner	Location
Prospect Dam	WaterNSW	Prospect
Woronora Dam	WaterNSW	Waterfall

- 1.13.3 Each dam should have a Dam Emergency Plan with direct input from the NSW SES as required to ensure that adequate alert levels are adopted to provide enough time to disseminate Emergency Warnings to downstream communities in the event of a dam failure.
- 1.13.4 Dam Safety NSW provides advice on those declared dams that are considered to be high risk based on specifically determined risk ratings. These dams are prioritised by the NSW SES in emergency planning as required, to include an additional Dam Failure chapter in Volume 3 of this plan - Response Arrangements.

PREVENTION/ MITIGATION

1.14 INTRODUCTION

- 1.14.1 The Floodplain Development Manual outlines the NSW Government's Flood Prone Land Policy which details the framework for managing flood prone land in New South Wales. Incorporation of floodplain risk management into land use planning is one of the key means to limit the exposure to flood risks to our communities and help build long term resilience to future flood events.

1.15 LAND USE PLANNING

- 1.15.1 **Strategy:** Effective land use planning is a key focus for minimising the impacts of flooding. NSW SES will work with land use planning and consent authorities to inform and influence the consideration of the risks arising from flood, storm and tsunami, to prevent the creation of intolerable impacts of these hazards on the community.

Actions:

- a. NSW SES will provide strategic input about land use planning matters which have or will create significant flood risk to life and/or property due to flooding.
- b. NSW SES will provide responses to land use planning proposal referrals that have or will create significant flood risk to life and/or property due to flooding.

1.16 FLOODPLAIN RISK MANAGEMENT

- 1.16.1 **Strategy:** Advocate for consideration of emergency management in decision making to reduce risks to the existing community and minimise the growth in future, continuing and residual risk due to development through input to the floodplain management program.

Actions:

- a. NSW SES will provide coordinated and consistent emergency management advice to councils and other agencies in relation to the management of land that is subject to flooding or coastal inundation.
- b. NSW SES will provide advice, support, technical resources and training for NSW SES representatives to contribute effectively on local Floodplain Management Committees.

PREPARATION

1.17 INTRODUCTION

- 1.17.1 Preparation includes arrangements or plans to deal with an emergency or the effects of an emergency.

1.18 FLOOD EMERGENCY PLANNING

- 1.18.1 **Strategy:** NSW SES develop, review and maintain this Flood Emergency Sub Plan.

Actions:

- a. Develop and review the GWRV Flood Plan as required to outline the specific arrangements for management of flood events within multiple LGAs to include coordinated cross boundary arrangements.
- b. Review this plan as per Section 1.11.

- 1.18.2 Regional EMPLAN Consequence Management Guides (CMG's) for flood are not required for communities covered by specific Flood Emergency Sub Plans, but may be utilised in place of this GWRV Flood Sub Plan, to support the general arrangements within the State Flood Sub Plan, if agreed to by NSW SES.

1.19 FLOOD INTELLIGENCE SYSTEMS

- 1.19.1 **Strategy:** NSW SES develop and maintain a flood intelligence system to identify flood behaviour, its impact on the community and required response actions.

Actions:

- a. Gather and assess flood information for the full range of flood types and severities.
- b. Collect, collate, and assess information on the characteristics of communities at risk and the potential effects of flooding on communities at risk.
- c. Share flood intelligence information with supporting agencies.

1.20 DEVELOPMENT OF WARNING SYSTEMS

- 1.20.1 **Strategy:** Develop, maintain and prepare systems for the provision of flood warnings and associated warning services.

Actions:

- a. All levels of government work in partnership to develop and maintain flood warning infrastructure.
- b. NSW SES maintains a list of the requirements for flood warnings for flood gauges in NSW (including flood classifications, warning times required and key statistics) and can be found in the supplementary documents to the NSW State Flood Plan (see Section 1.12). Gauges of relevance to communities within the Georges and Woronora River Valley are also listed in Volume 3 of this plan.
- c. NSW SES will recommend new warning services and changes to warning alert levels for gauges to the NSW and ACT Flood Warning Consultative Committee.

- d. The State Government, in partnership with Councils, is responsible for developing and maintaining flash flood warning systems for local catchments where required. Some Councils within the Georges and Woronora River Valley have developed and are maintaining flash flood warning systems, including:

LGA	Location
Canterbury-Bankstown	Ashford Ave, Milperra Kelso Levee (Kelso Creek), Panania
Campbelltown	Cambridge Avenue (at the causeway), Glenfield
Sutherland Shire	Woronora River near Prince Edward Park Road Bridge
Fairfield	None
Georges River	None
Liverpool City	None

- e. Dam Owners will provide Dam Emergency Plans (where required) and consult with NSW SES on alert levels and messaging. Alert level definitions are listed in Dam Emergency Plans.
- f. NSW SES maintains a dedicated dam failure hotline and procedures to ensure priority dissemination of dam failure warnings.
- g. NSW SES develops and maintains warning and flood information products by:
- Utilising flood intelligence data.
 - Developing warning and flood information products.
 - Continuously reviewing warning and flood information products.
 - Consulting with affected communities, key stakeholders, Dam Safety NSW and the NSW and ACT Flood Warning Consultative Committee, maintains Operational Readiness.
 - Participating in the development of public information and warning systems.
- h. Gauge owners adequately maintain flood warning gauges and systems, including those identified in the 'Service Level Specification' maintained by the Bureau of Meteorology (Bureau) and those identified in the 'Provision and Requirements for Flood Warning in New South Wales' maintained by NSW SES.

1.21 BRIEFING, TRAINING AND EXERCISING

1.21.1 **Strategy:** Ensure NSW SES, supporting agencies, functional areas and the community are prepared and familiar with the strategies and arrangements within the Flood Emergency Sub Plan and supporting documents.

Actions:

- a. NSW SES will consult stakeholders throughout the development of plans.
- b. NSW SES will inform stakeholders of content changes after revisions.
- c. NSW SES will ensure their facilities and resources are maintained and operationally ready.

- d. NSW SES will train personnel for their expected flood operation roles.
- e. NSW SES will regularly brief stakeholders on the exercise arrangements contained in the NSW Flood Emergency Sub Plan.

1.22 COMMUNITY RESILIENCE TO FLOODING

1.22.1 **Strategy:** NSW SES provides and maintains a flexible volunteer workforce to support community resilience.

Actions:

- a. Ensure ongoing recruitment and training of a diverse range of volunteers.
- b. Ensure pre-planning to facilitate the management of spontaneous volunteers and community members during a flood.

1.22.2 **Strategy:** NSW SES works with individuals, communities, businesses and government agencies to build flood resilience.

Actions:

- a. Partner with and engage communities to understand and manage the risks associated with floods, including providing business continuity guidance (NSW SES Business FloodSafe), family preparedness (NSW SES Home FloodSafe) and other engagement strategies.
- b. Collate, assess and disseminate flood information to the community.
- c. Collaborate with individuals, businesses, government agencies and communities when developing flood intelligence, preparedness and response information.
- d. Plan for floods collaboratively with communities through community and stakeholder participation and engagement.
- e. Collaborate with community sector and recognise the needs of individuals within communities who have an increased susceptibility during floods.

RESPONSE

1.23 INTRODUCTION

1.23.1 Flood response operations will begin:

- a. On receipt of a Bureau Severe Weather Warning or Thunderstorm Warning that includes heavy rain or storm surge; or
- b. On the receipt of a Bureau Flood Watch or Flood Warning; or
- c. On receipt of warnings for flash flood; or
- d. On receipt of a dam failure alert; or
- e. When other evidence leads to an expectation of flooding.

1.24 INCIDENT MANAGEMENT ARRANGEMENTS

1.24.1 **Strategy:** Maintain effective control of flood operations across NSW.

Actions:

- a. NSW SES uses the Australasian Inter-service Incident Management System (AIIMS) to manage the flood response.
- b. Control of flood response will be at the lowest effective level and may be scaled to suit the incident.
- c. The NSW SES State Controller (or delegate) will appoint Incident Controllers and establish Incident Control Centres (see NSW SES facilities on map in Appendix A).
- d. The NSW SES Incident Controller, in consultation with participating supporting emergency services and functional areas will determine the appropriate breakdown of an Area of Operations into Divisions and/or Sectors in accordance with the principles of AIIMS.

1.24.2 **Strategy:** Maintain Incident Control Centre(s).

Actions:

- a. NSW SES will operate Incident Control Centre(s) as required.
- b. The NSW SES Incident Control Centre(s) will:
 - Control resources from NSW SES and coordinate resources of supporting emergency services and functional areas.
 - Manage each notified incident (previously referred to by NSW SES as RFAs) tasking and ensure that they are actioned in a timely manner.
 - Undertake response planning and determine future resourcing requirements.
 - Coordinate information flow, including warnings, public information and social media.

1.24.3 **Strategy:** Provide effective liaison between NSW SES and supporting agencies or functional areas in accordance with the relevant EMPLAN.

Actions:

- a. Supporting emergency services and functional areas should provide Liaison Officers to NSW SES Incident Control Centre(s) and/or Regional Emergency Operation Centres as required.
- b. NSW SES will provide Liaison Officer(s) to the Emergency Operations Centres in support of the respective Regional or Local EOCON as required.
- c. Where possible Regional Emergency Operation Centres are to be co-located with NSW SES Incident Control Centres for coordination of incidents requiring Flood Emergency Response.

1.24.4 **Strategy:** Coordinate resources and logistics support to ensure operational effectiveness.

Actions:

- a. The NSW SES Incident Controller will notify agencies of potential access issues between locations, for the consideration of pre-deploying of resources.

- b. NSW SES may request resources and logistics support directly from a supporting emergency service or functional area.
- c. Wherever possible, supporting organisations are to provide their own logistic support in consultation with NSW SES where appropriate.
- d. The NSW SES Incident Controller will control air support operations and may utilise supporting agencies in the management of aircraft.

1.25 USE OF INFORMATION AND COLLECTION OF INTELLIGENCE

1.25.1 **Strategy:** Ensure flood information is effectively utilised, communicated and collected during and after a flood.

Actions:

- a. Information relating to the consequences of flooding, response strategies, situational awareness and operational updates will be distributed by NSW SES to supporting emergency services and functional areas listed under this Plan.
- b. All supporting emergency services, functional areas and Councils will accurately record and report information relevant to their activities and any real time flood information (including road closure information) to the NSW SES Incident Controller. This may be in the form of a combined Emergency Operations Centre (EOC) report, or direct from agencies where an EOC has not been established.
- c. NSW SES may establish and operate a Joint Intelligence Unit to coordinate the collection, collation, interpretation, mapping, actioning and dissemination of information.
- d. Reconnaissance, mapping, damage assessments, intelligence validation and post flood evaluation will be coordinated by NSW SES. This may occur post impact and continue into the recovery phase.
- e. NSW SES may request Engineering to assist with the gathering of flood intelligence including (not limited to) maximum flood extents, peak flood heights, recording major flood damage at key high velocity locations and preparation of After-Flood Report.

1.25.2 **Strategy:** Ensure that flood intelligence is incorporated into operational decision-making.

Action: NSW SES will use flood intelligence, official forecasts, warnings (including those local warning systems that are managed by Councils if and when their relevance is recognised to have regional significance) and flood scenario products to undertake an assessment of the predicted impact of a flood and to inform operational decision-making.

1.26 PROVISION OF INFORMATION AND WARNINGS TO THE COMMUNITY

1.26.1 **Strategy:** Timely and effective warnings are distributed to the community.

Actions:

- a. The Bureau issues public weather and flood warning products before and during a flood. These may include:

- Severe Thunderstorm Warnings – Detailed - issued for all capital cities and surrounding areas when individual severe thunderstorms are within range of the capital city radars.
 - Severe Thunderstorm Warnings - Broad-based - issued for the entire Australian State or territories affected highlighting broad areas where severe storms may occur within the next 3 hours.
 - Severe Weather Warnings with reference to heavy rainfall and/or storm surge.
 - Flood Watches.
 - Flood Warnings.
- b. In relation to localised flash flood warnings, Councils will use the established flash flood warning systems to provide warnings and information to the community, as well as situational reports to NSW SES and key stakeholders.
 - c. Dam Owners will utilise the Dam Emergency Plan to provide warnings and information to NSW SES and communities (where appropriate).
 - d. NSW SES Incident Controllers will issue the following NSW SES Flood Warnings aligning to the Australian Warning System:
 - Advice;
 - Watch and Act; and
 - Emergency Warning
 - e. NSW SES liaises with the Bureau to discuss the development of flood warnings as required.
 - f. NSW SES provides alerts and deliver flood information to affected communities using a combination of public information, including [Hazards Near Me desktop or App tool](#).
 - g. NSW SES may request supporting agencies redistribute NSW SES alerts and information, including through the provision of doorknocking teams.
 - h. Road closure information will be provided to the community through the following agencies/methods:
 - Local Government Council websites.
 - Transport for NSW ‘Live Traffic’ website: <https://www.livetraffic.com/> or ‘Transport InfoLine’: 131 500. VMS messaging on roadways may also be used to advise motorists.
 - i. The Public Information and Inquiry Centre will be established by NSW Police Force where required to provide information regarding evacuees and emergency information. Contact details will be broadcast once the centre is established.
 - j. The Disaster Welfare Assistance Line will be established by Disaster Welfare Services where required to provide information on welfare services and assistance. Assistance line contact details will be broadcast once Disaster Welfare Services commence.

1.27 PROTECTION OF PROPERTY

1.27.1 **Strategy:** Coordinate the protection of property from destruction or damage arising from floods.

Action: NSW SES, supporting agencies, and community volunteers may assist the community (where resources are available, feasible and safe to do so) in:

- a. The protection of properties including critical infrastructure through flood protection systems (e.g. sandbagging) to minimise entry of water into buildings.
- b. The raising or moving of household furniture and commercial stock and equipment.

1.28 ROAD AND TRAFFIC CONTROL

1.28.1 **Strategy:** Coordinate the closing and re-opening of flood affected roads.

Actions:

- a. Each LGA listed within this plan will coordinate the closure and reopening of their respective council managed roads once inspections have been carried out by the relevant authority.
- b. Transport for NSW will coordinate the closure and reopening of the state road network.
- c. NSW Police Force may close and re-open roads but will normally only do so if the respective council (that the area falls within) or Transport for NSW have not already acted and if public safety requires such action.
- d. NSW SES will assist with erecting road closure signs and barriers if and when available time and operational resources permit.

1.28.2 **Strategy:** Coordinate traffic control measures in flood affected areas.

- a. The NSW SES Incident Controller may direct the imposition of traffic control measures to restrict movement into flood affected areas in accordance with the provisions of the *State Emergency Service Act, 1989* and the *State Emergency Rescue Management Act, 1989*.
- b. The NSW SES Incident Controller may request the Regional Emergency Operations Controller as appropriate to provide suitable personnel to assist with traffic coordination.

1.29 PROTECTION OF ESSENTIAL SERVICES

1.29.1 Arrangements for the protection of regional and local assets are outlined in Volume 3 of this NSW SES Regional Flood Emergency Sub Plan. In addition, both Regional and all local EEMPLANS will contain infrastructure inventories.

1.29.2 **Strategy:** Minimise disruption to the community by ensuring protection of infrastructure and supply of essential energy, utility services and lifelines.

Actions:

- a. Transport Services Functional Area is to coordinate the provision of information about the assessment and restoration of transport network infrastructure.
- b. Energy and Utility Services Functional Area is to coordinate the assessment and restoration of essential energy and utility services (not including telecommunications).
- c. Telecommunications Services Functional Area is to coordinate the assessment and restoration of telecommunications and the Public Safety Network.
- d. Engineering Services Functional Area is to:
 - Coordinate the assessment and restoration of critical public buildings for example hospitals.
 - Assessment and operation of flood protection levees.
 - Protection of property.
 - Construction and repair of levees.
 - Dam safety assessment and dam stability.
 - Water supply and sewerage operations.
 - Other critical infrastructure.
- e. Functional Areas and relevant Regional Emergency Operations Controller will keep NSW SES informed of the status of utilities and infrastructure.

1.30 EVACUATION

- 1.30.1 Evacuation is NSW SES's primary response strategy for managing the population at risk of flooding.
- 1.30.2 Community specific evacuation arrangements are located in Volume 3 of this Plan.
- 1.30.3 **Strategy:** Conduct planning to ensure all evacuation constraints are considered.

Actions:

- a. Evacuations will take place when there is a risk to public safety. Circumstances may include:
 - Evacuation of people when their homes or businesses are likely to flood.
 - Evacuation of vulnerable people who are unsuited to living in isolated circumstances, due to flood water closing access.
 - Evacuation of people where essential energy and/or utility services are likely to fail or where buildings have been or may be made uninhabitable.
- b. NSW SES will consider the following in evacuation decisions:
 - Duration of evacuation.
 - Characteristics of the community.

- Numbers requiring evacuation.
 - Availability of evacuation routes and transport.
 - The ability for existing levees or other flood protection works to fulfil their intended function.
 - Time available for evacuation.
 - Evacuee management requirements.
 - Resources and delivery of evacuation information.
 - Length of isolation.
- c. NSW SES Incident Controllers, planning and intelligence officers will carefully consider the risks involved in conducting evacuations.
 - d. All evacuation decisions will be made as per the current NSW SES policies and procedures, and consistent with the NSW Evacuation Management Guidelines.
 - e. Potential Evacuation Centres are identified in the relevant EMPLANS.
 - f. NSW Police Force will coordinate the provision of overall security for evacuated areas.

1.30.4 **Strategy:** Evacuate people pre-emptively from dangerous or potentially dangerous places and or locations created by the flood hazard to safe locations away from the hazard.

Actions:

- a. NSW SES will control and coordinate the evacuation of affected communities.
- b. The NSW SES Commissioner (or delegate) will warn communities to prepare for a possible evacuation, where circumstances allow such lead time.
- c. The NSW SES Commissioner (or delegate) will order any necessary evacuations and provide information to the community about when and how to evacuate.
- d. Support to evacuation operations may be requested from other emergency services and supporting agencies using arrangements in the relevant EMPLAN and supporting plans.
- e. Health Services Functional Area will coordinate the evacuation of hospitals, health centres and aged care facilities (including nursing homes) in consultation with NSW SES and Welfare Services.
- f. School administration offices (Government and Private) will coordinate the evacuation of schools in consultation with NSW SES and Welfare Services, if not already closed.
- g. Caravan Park proprietors will inform the NSW SES Incident Controller when caravan park evacuations have been completed.
- h. People who are reluctant or refuse to comply with any Emergency Warning will be referred to NSW Police Force.

1.31 EVACUEE MANAGEMENT AND WELFARE

1.31.1 Research and experience in flood operations shows that most evacuees go to family, friends and commercial accommodation outside the impact area.

1.31.2 **Strategy:** Maintain the welfare of communities and individuals affected by the impact of a flood.

Actions:

- a. NSW SES will provide initial welfare for evacuees where required but will hand the responsibility over to Welfare Services Functional Area as soon as possible. NSW SES will brief Welfare Services Functional Area at the earliest opportunity regarding the level of assistance required.
- b. Welfare Services Functional Area will manage evacuation centres for affected residents and travellers in accordance with Welfare Services Functional Area Supporting Plan.
- c. Schools Administration (Government and Private) will manage the safety of students directly affected by flooding and will work with NSW SES in the temporary closure of schools and will coordinate with NSW SES, Transport and Welfare Services in the management of school evacuees.
- d. Disaster Victim Registration will be controlled and coordinated by NSW Police Force with the assistance of NSW SES and the Welfare Services Functional Area. All displaced persons who attend a nominated evacuation centre should be registered. Arrangements for registering those persons who are injured and transported to a medical care facility will require police resources to be allocated, which may be across several locations. Liaison with Ambulance Service NSW and Health Services Functional Area will be required.
- e. NSW SES will provide details of all residents assisted in evacuations to the Welfare Services Functional Area as early as possible.
- f. Where the expected remaining number of evacuees and the duration of evacuation is assessed to be beyond the capability and capacity of the established evacuation centre arrangements, the SEOCON may establish Major Evacuation Centres or Mass Care facilities.
- g. The decision to establish Major Evacuation Centres or Mass Care Facilities will be made by NSW SES and SEOCON in consultation with members of the State Emergency Management Committee.

1.31.3 **Strategy:** Coordinate available and accessible health services for flood affected communities.

Action: The provision of environmental health advice, assessment of public health risks and coordination of immediate mental health support will be provided by Health Services Functional Area.

1.31.4 **Strategy:** Maintain the welfare of animals impacted by a flood.

Actions:

- a. Agriculture and Animal Services Functional Area will coordinate the welfare of livestock, pets, companion animals and wildlife including support to primary producers, animal holding establishments and community members.
- b. Agriculture and Animal Services Functional Area role will coordinate the evacuation, emergency care of animals and assessment, humane destruction and disposal of affected animals, and supply of emergency fodder, water and aerial support where necessary.

1.32 FLOOD RESCUE

1.32.1 **Strategy:** Control and coordinate flood rescue of people and domestic animals.

Actions:

- a. NSW SES will perform flood rescue, where training and equipment is suitable and where a risk assessment has indicated that the risk to rescuers is acceptable.
- b. Flood rescue operations will be conducted in accordance with the State Rescue Board Land Rescue Policy and the NSW State Rescue Board Rescue Policy which sets out the framework, governance, responsibilities and requirements for the management and conduct of flood rescue in NSW.
- c. NSW SES may request other supporting emergency services to undertake flood rescues on behalf of NSW SES. Agencies must be authorised/accredited to undertake flood rescue operations in accordance with State Rescue Board requirements, as prescribed by NSW SES. Supporting emergency services must supply information regarding rescues performed to NSW SES. Notification arrangements with NSW Police Force are outlined in the NSW State Rescue Board Rescue Policy.
- d. Rescue agencies will conduct rescue of domestic small and large animals as per the State Rescue Board Land Rescue Policy (and may include Large Animal Rescue of family horses and cows at a residence or property). The rescue of livestock (which includes commercial animals found on farming and breeding enterprises) will be coordinated through Animal and Agriculture Services Functional Area.

1.33 RESUPPLY

1.33.1 **Strategy:** Coordinate resupply to suburbs isolated by flooding to minimise disruption to the community.

Actions:

- a. NSW SES will advise communities and businesses if flood predictions indicate that areas are likely to become isolated, and indicative timeframes where possible.
- b. Retailers should be advised to ensure sufficient stock is available for the duration of the flood.

- c. When isolation occurs, NSW SES will establish loading points where retailers can instruct suppliers to deliver goods.
- d. NSW SES will endeavour to support the delivery of mail to isolated communities but may not be able to do so according to normal Australia Post timetables.
- e. NSW SES will assist hospitals with resupply of linen and other consumables where able.
- f. NSW SES may request resupply assistance from supporting agencies.
- g. NSW SES may conduct resupply operations as per the designated resupply plan for the event.
- h. Where additional supplies are required Engineering Services Functional Area be requested to coordinate the supply of goods and services in response to and recovery from the emergency.

1.33.2 **Strategy:** Coordinate resupply to rural properties isolated by flooding.

Actions:

- a. When requested, NSW SES will establish a resupply schedule and coordinate the resupply for isolated rural properties.
- b. NSW SES will provide local suppliers with designated loading points. Resupply items are to be packaged by the supplier.
- c. Isolated households unable to afford resupply items will be referred to Welfare Services Functional Area for assistance.

1.34 RETURN

1.34.1 **Strategy:** Coordinate the safe return of communities to flood affected areas when the immediate danger to life and property has passed.

Actions:

- a. The NSW SES Incident Controller will determine when it is safe to progressively return in consultation with the relevant Emergency Operations Controller and supporting agencies considering the ongoing risk to public safety.
- b. The NSW SES Incident Controller will specify the level of access to affected communities as the following:
 - Not suitable for access; or
 - Limited access by emergency services and response agencies; or
 - Limited access by residents and/or business operators; or
 - Full access.
- c. The NSW SES Incident Controller will issue an Advice Warning advising 'Reduced Threat: Return with Caution' when the immediate danger to life and property has passed for areas assessed as safe.
- d. NSW SES will facilitate the return of evacuees to their homes.

1.35 END OF RESPONSE OPERATIONS

1.35.1 **Strategy:** Conclude response operations.

Actions:

- a. Response operations will conclude when:
 - There is a reduced likelihood of additional flooding within the Area of Operation and flood waters have receded.
 - All requests for assistance related to the flood have been completed.
 - The need for warning and evacuation no longer exists.
 - There is no further likelihood of rescuing people.
 - Resupply is no longer required (resupply operations may occur concurrently with the recovery phase).
 - Response to fire and hazardous material incidents have concluded (not including subsequent clean-up of contaminated sites).
 - All affected areas have had an a 'Reduced Threat: Return with Caution' issued.

1.36 POST IMPACT ACTIONS

1.36.1 **Strategy:** Learnings from the event are used to inform recovery and future events.

Actions:

- a. NSW SES will continue to engage with communities after significant floods through convening one or more community forums, workshops or other opportunities to provide communities a chance to provide feedback, address any concerns and provide input into the recovery process. These will typically include other agencies such as the Bureau, Welfare Services and Georges and Woronora River representatives.
- b. NSW SES will conduct After Action Reviews, at the conclusion of response operations, which will involve all stakeholders. Findings will be shared and incorporated into improved disaster resilience planning.
- c. NSW SES will provide information and data throughout the emergency response to inform community recovery. A report will be developed at the request of the SERCON at the conclusion of the response within an area. Should a response summary report be required it will include the following:
 - The emergency action plan in place at conclusion of the response emphasising any continuing activities including community meetings/ engagement activities.
 - Resources allocated to the emergency response and associated exit strategies.
 - Details of any areas or situations with potential to re-escalate the emergency.

- A recommendation for the conclusion of NSW SES as lead agency to transition to NSW Reconstruction as the lead agency for Recovery.
- Any actions that are incomplete or outstanding.
- Damage Assessment Data and Information obtained throughout the response phase which will further support the long-term recovery of communities.

d. NSW SES will undertake/coordinate a comprehensive review of intelligence and plans following significant flood events.

1.36.2 **Strategy:** Participate in post flood data collection analysis.

Actions: NSW SES works with relevant stakeholders within the Georges and Woronora River on post flood data collection analysis including review of flood intelligence where necessary.

RECOVERY OPERATIONS

1.37 INTRODUCTION

1.37.1 Recovery is the process of returning an affected community to its proper level of functioning after an emergency. It will generally commence simultaneously with the Response phase.

1.37.2 Recovery operations will be initiated and conducted as outlined in the NSW State EMPLAN and as further detailed in the NSW Recovery Supporting Plan.

1.38 NSW SES RECOVERY ROLE

1.38.1 **Strategy:** NSW SES will support recovery operations and established Recovery Committees.

1.38.2 **Actions:**

- a. NSW SES will provide representation to Recovery Committees as required and may have an ongoing role in the Recovery phase.
- b. NSW SES roles on Recovery Committees may include providing information about any continuing response, guidance on mitigation strategies and general advice and assistance to the committee as a subject matter specialist and/ or expert.
- c. NSW SES will provide information to NSW Reconstruction Authority to support applications to Treasury for Natural Disaster Relief and Recovery Arrangements.
- d. NSW SES, in conjunction with a Recovery Committee, will provide a service to support the information needs of a community immediately following a flood.
- e. NSW SES and where required supporting agencies will assist with clean-up operations after floods, where possible when resources and personnel permit.
- f. NSW SES may coordinate immediate relief in collaboration with SECON and SERCON.

ABBREVIATIONS

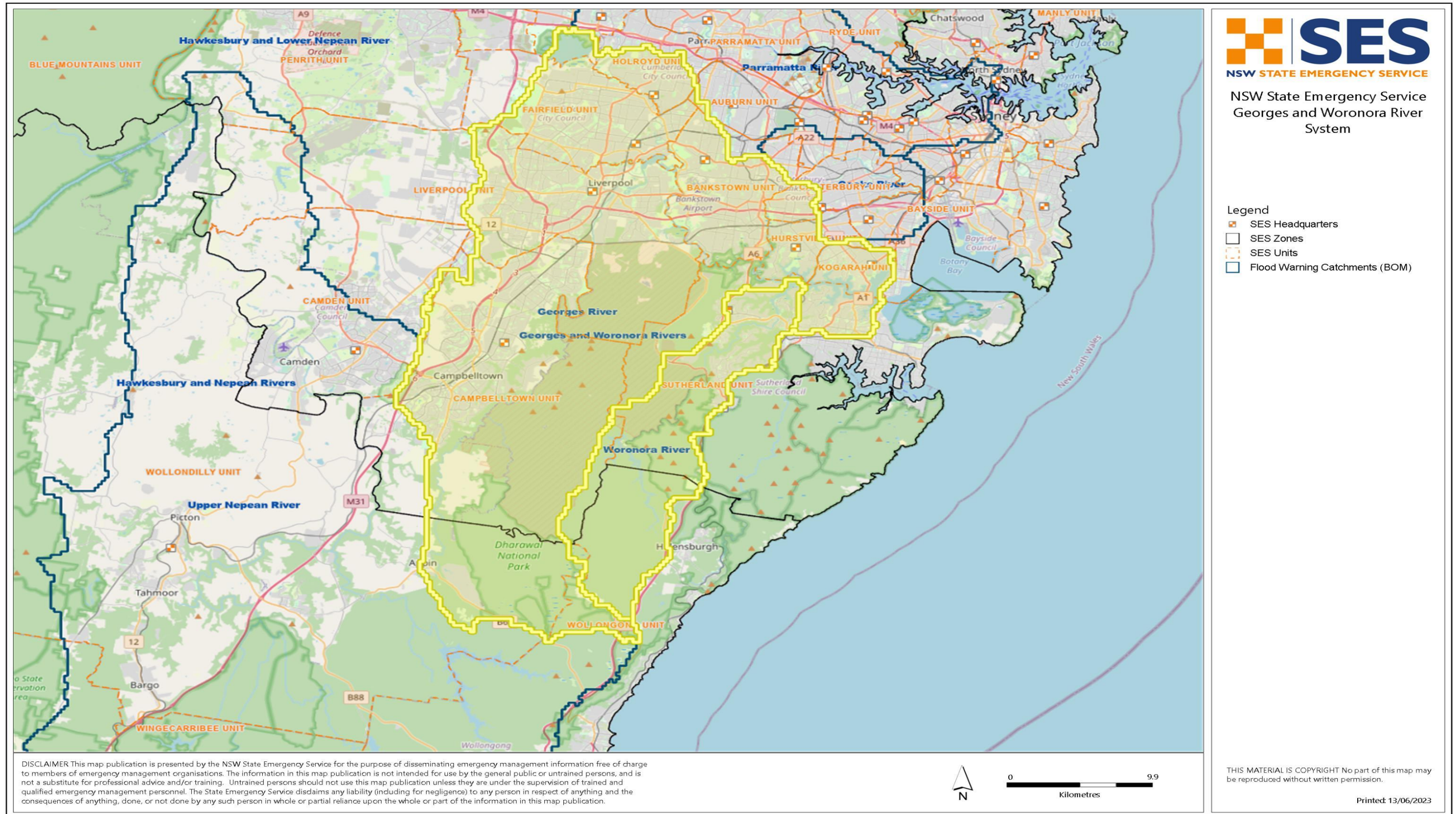
For a full list of abbreviations refer to the NSW State Flood Plan - Abbreviations

GLOSSARY

Refer to the NSW State Flood Plan for a complete glossary of terminology used throughout this plan and within NSW SES Flood Plans.

For a full list of definitions refer to the Supporting Document - State Flood Plan Glossary
<https://www.ses.nsw.gov.au/media/2650/glossary.pdf>

Appendix A – Map of Georges and Woronora River Valley Area



Appendix B – Roles and Responsibilities

AGENCY	RESPONSIBILITIES
NSW State Emergency Service	NSW SES is the designated Combat Agency for floods, storms and tsunami and controls response operations. NSW SES roles and responsibilities in relation to floods are outlined in the NSW State Flood Emergency Sub Plan .

AGENCY	RESPONSIBILITIES
Agriculture and Animal Services Functional Area	The roles and responsibilities for Agriculture and Animal Services are outlined in the Agriculture and Animal Services Supporting Plan and NSW State Flood Plan.
Australian Government Bureau of Meteorology	The roles and responsibilities for the Australian Government Bureau of Meteorology (Bureau) are outlined in the NSW State Flood Plan.
Subject Councils listed within this plan and below: (relevant to Georges and Woronora River Valley) Bayside Campbelltown City Canterbury-Bankstown City Fairfield City Georges River City Liverpool City Sutherland Shire Wollondilly Shire	<p>Preparedness</p> <ul style="list-style-type: none"> • Establish and maintain floodplain and coastal risk management committees and ensure that key agencies are represented. • Develop and implement floodplain risk management plans in accordance with the NSW Government’s Flood Prone Land Policy and the Floodplain Development Manual. • Provide levee studies, flood studies and floodplain management studies to NSW SES. • Maintain Dam Emergency Plans for all of their respective declared dams and provide copies to NSW SES. • Provide information on the consequences of dam failure to NSW SES for incorporation into planning and flood intelligence. • Coordinate the development of warning services for catchments prone to flash flooding (small catchments), where appropriate. • Maintain council-owned flood warning networks and flood mitigation works. • Participate in NSW SES led flood emergency planning meetings, to assist in the preparation of Flood Sub Plans. • Maintain a plant and equipment resource list for the council area. • Contribute to community engagement activities. <p>Response</p> <ul style="list-style-type: none"> • Subject to the availability of council resources, assist NSW SES with flood operations including: <ul style="list-style-type: none"> – Traffic management on council managed roads.

AGENCY	RESPONSIBILITIES
	<ul style="list-style-type: none"> – Provision of assistance to NSW SES (plant, equipment and personnel where able and requested). – Property protection tasks including sandbagging. – Assist with the removal of caravans from caravan parks. – Warning and/or evacuation of residents and other people in flood liable areas. – Provision of back-up radio communications. – Resupply of isolated properties. – Technical advice on the impacts of flooding. – Close and reopen council roads (and other roads nominated by agreement with Transport for NSW) and advise NSW SES, NSW Police Force and people who contact the council for road information. – Assist NSW SES to provide filled sandbags and filling facilities to residents and business in areas which flooding is expected. <ul style="list-style-type: none"> • Assist with making facilities available for domestic pets and companion animals of evacuees during evacuations. • Operate MHL http://mhl.nsw.gov.au/Site-213482 flash flood warning systems. • Operate flood mitigation works including critical structures such as detention basins and levees and advise NSW SES regarding their operation. • Manage and protect council-owned infrastructure facilities during floods. • Provide advice to NSW SES and the Health Services Functional Area during floods about key council managed infrastructure such as sewerage treatment and water supply. • Advise the Environmental Protection Authority of any sewerage overflow caused by flooding. • Work with NSW SES and NSW Department of Planning and Environment to collect flood related data during and after flood events. <p>Recovery</p> <ul style="list-style-type: none"> • Provide for the management of health hazards associated with flooding including removing debris and waste. • Ensure premises are fit and safe for reoccupation and assess any need for demolition. • Provide services, assistance and advice to State Government in accordance with the State Recovery Plan.
Caravan Park Proprietor(s)	<ul style="list-style-type: none"> • Prepare a flood emergency plan for the Caravan Park.

AGENCY	RESPONSIBILITIES
	<ul style="list-style-type: none"> • Ensure that owners and occupiers of movable dwellings are aware that the caravan park is flood liable by providing a written notice to occupiers taking up residence and displaying this notice and emergency management arrangement within the park. • Ensure that owners and occupiers of movable dwellings are aware that if they are expecting to be absent for extended periods, they should: <ul style="list-style-type: none"> – Provide the manager of the caravan park with a contact address and telephone number in case of an emergency. – Leave any movable dwelling in a condition allowing it to be relocated in an emergency (i.e.: should ensure that the wheels, axles and draw bar of the caravans are not removed and are maintained in proper working order). • Ensure that occupiers are informed of Flood Information. At this time, occupiers should be advised to: <ul style="list-style-type: none"> – Ensure that they have spare batteries for their radios. – Listen to a local radio station for updated flood information. – Prepare for evacuation and movable dwelling (cabins) relocation. • Ensure that owners and occupiers of caravans are aware of what they must do to facilitate evacuation and movable dwelling relocation when flooding occurs. • Coordinate the evacuation of people and the relocation of movable dwellings when floods are rising and their return when flood waters have subsided. Movable dwellings will be relocated back to the caravan park(s) by owners or by vehicles and drivers arranged by the park managers. • Secure any movable dwellings that are not able to be relocated to prevent floatation. • Inform NSW SES of the progress of evacuation and/or movable dwellings relocation operations and of any need for assistance in the conduct of these tasks.
Childcare Centres and Preschools	<ul style="list-style-type: none"> • When notified of possible flooding or isolation, childcare centres and preschools should: <ul style="list-style-type: none"> – Liaise with NSW SES and arrange for the early release of children whose travel arrangements are likely to be disrupted by flooding and/or road closures. – Assist with coordinating the evacuation of preschools and childcare centres.
Dams Safety NSW	<p>The roles and responsibilities for Dams Safety NSW (formerly NSW Dam Safety Committee) are outlined in the NSW State Flood Plan.</p>

AGENCY	RESPONSIBILITIES
Department of Defence	Arrangements for Defence Assistance to the Civil Community are detailed within the State EMPLAN (section 448).
Energy and Utilities Services Functional Area	<p>The roles and responsibilities for Energy and Utilities Services are outlined in the Energy and Utility Services Supporting Plan (EUSPLAN).</p> <p>Roles and responsibilities in addition to the Supporting Plan are:</p> <ul style="list-style-type: none"> • Assist NSW SES with identification of infrastructure at risk of flood damage where resources are available. • Facilitate local utility service distribution providers (electricity, gas, water, wastewater) to: <ul style="list-style-type: none"> – Provide advice to NSW SES of any need to disconnect power/gas/water/wastewater supplies or of any timetable for reconnection. – Advise NSW SES of any hazards from utility services during flooding and coastal erosion/inundation. – Advise the public with regard to electrical hazards during flooding and coastal erosion/inundation, and to the availability or otherwise of the electricity supply. – Clear or make safe any hazard caused by power lines or electricity distribution equipment. – Reconnect customers’ electrical/ gas/ water/wastewater installations, when certified safe to do so and as conditions allow. – Assist NSW SES to identify infrastructure at risk of flooding for incorporation into planning and intelligence.
Engineering Services Functional Area	The roles and responsibilities for Engineering Services are outlined in the Engineering Services Supporting Plan and NSW State Flood Plan.
Environmental Services Functional Area	The roles and responsibilities for Environmental Services are outlined in the Environmental Services (ENVIROPLAN) Supporting Plan .
Floodplain Management Australia	The roles and responsibilities for Floodplain Management Australia are outlined in the NSW State Flood Plan .
Fire and Rescue NSW	The roles and responsibilities for Fire and Rescue NSW are outlined in the NSW State Flood Plan .
Forestry Corporation of NSW	The roles and responsibilities for Forestry Corporation of NSW are outlined in the NSW State Flood Plan .
Health Services Functional Area	The roles and responsibilities for Health Services are outlined in the Health Services (HEALTHPLAN) Supporting Plan and NSW State Flood Plan .
Manly Hydraulics Laboratory (MHL)	The roles and responsibilities for Manly Hydraulic Laboratory are outlined in the NSW State Flood Plan.

AGENCY	RESPONSIBILITIES
Marine Rescue NSW (as per NSW State Flood Plan)	<ul style="list-style-type: none"> • When requested by NSW SES, assist in flood operations when training and equipment are available and suitable including assistance with: <ul style="list-style-type: none"> – Warning and/or evacuation of at-risk communities. – Providing communications personnel. – Property protection tasks including sandbagging; and Flood rescue operations.
NSW Ambulance	<p>The roles and responsibilities for NSW Ambulance are outlined in the Health Services (HEALTHPLAN) Supporting Plan and NSW State Flood Plan.</p>
NSW Department of Education, Association of Independent Schools of NSW, and National Catholic Education Commission	<p>Preparedness</p> <ul style="list-style-type: none"> • Liaise with the NSW SES and arrange for the early release of students whose travel arrangements are likely to be disrupted by flooding and/or road closures (or where required, for students to be moved to a suitable location until normal school closing time); • Ensure that evacuation plans for flood liable schools have arrangements for flooding; and • Assist NSW SES with community engagement and capacity building programs. <p>Response</p> <ul style="list-style-type: none"> • Assist with the coordination of the evacuation of schools and the immediate welfare of students until returned to the appropriate carer; • Pass information to school bus drivers/companies and/or school principals on expected or actual impacts of flooding; and • Provide space in schools for evacuation centres where necessary.
NSW Department of Planning and Environment (Environment and Heritage Group)	<p>Prevention</p> <ul style="list-style-type: none"> • Oversee the delivery of the NSW Flood Prone Land Policy including financial support through the Floodplain Management Program. Provide technical advice to councils and state agencies including assistance with the identification of risks, the preparation and implementation of Floodplain Risk Management Plans and associated mitigation and management actions and understanding flood mitigation schemes including levees. • Work with the NSW SES on the Flood Data Access Program to improve the provision of flood information through the NSW Flood Data Porta. • Assist the Department of Industry-Water in the preparation of rural floodplain management plans under the <i>Water Management Act 2000</i> (NSW); and

AGENCY	RESPONSIBILITIES
	<ul style="list-style-type: none"> • Provision of strategic technical advice to support floodplain risk management and environmental water management in rural areas of the Murray Darling Basin. <p>Preparedness</p> <ul style="list-style-type: none"> • Assist the NSW SES in the exercising of Flood Sub Plans. • Management of the state government’s water level gauges for the flood warning network in tidal areas in NSW (Manly Hydraulic Laboratory operates this system as a service provider on behalf of DPE). • Advise NSW SES about conditions which may lead to coastal inundation or retarded river drainage near the coast. <p>Response</p> <ul style="list-style-type: none"> • Provide related advice on flood risks to the NSW SES on request; and • Work with the relevant local council and NSW SES to collect flood related data during and after flood events. <p>Recovery</p> <ul style="list-style-type: none"> • Support recovery committees as required.
NSW Department of Planning and Environment (Water)	The roles and responsibilities for NSW Department of Planning and Environment (Water) are outlined in the NSW State Flood Plan.
NSW Food Authority	The roles and responsibilities for NSW Food Authority are outlined in the Food Safety Emergency Sub Plan.
NSW National Parks and Wildlife Services	The roles and responsibilities for NSW National Parks and Wildlife Services are outlined in the NSW State Flood Plan.
NSW Police Force	The roles and responsibilities for NSW Police Force are outlined in the NSW State Flood Plan.
NSW Rural Fire Service	The roles and responsibilities for NSW Rural Fire Service are outlined in the NSW State Flood Plan.
Owners of Declared Dams within or upstream of the LGA	The roles and responsibilities for Owners of Declared Dams are outlined in the NSW State Flood Plan.
Public Information Services Functional Area	The roles and responsibilities for Public Information Services are outlined in the Public Information Services Supporting Plan and NSW State Flood Plan.
Regional Emergency Management Officer (REMO)	If requested by the NSW SES Incident Controller, advise appropriate agencies and officers of the start of response operations.

AGENCY	RESPONSIBILITIES
Regional Emergency Operations Controller (REOCON)	<ul style="list-style-type: none"> • Monitor flood operations. • Activate the Regional Emergency Operations Centre, if required. • If requested, coordinate support for the NSW SES Incident Controller.
NSW Reconstruction Authority	The roles and responsibilities for NSW Reconstruction Authority are outlined in the NSW State Flood Plan.
SEOCON/SEOC	The roles and responsibilities for the SEOCON/SEOC are outlined in the NSW State Flood Plan.
Surf Life Saving NSW	The roles and responsibilities for Surf Life Saving NSW are outlined in the NSW State Flood Plan.
Telecommunications Services Functional Area	The roles and responsibilities for Telecommunications Services are outlined in the Telecommunications Services (TELCOPLAN) Supporting Plan.
Transport for NSW	<ul style="list-style-type: none"> • Transport for NSW coordinates information on road conditions for emergency services access. • Transport for NSW coordinates the management of the road network across all modes of transport. • Transport for NSW in conjunction will assist NSW SES with the evacuation of at-risk communities by maintaining access and egress routes. • Assist NSW SES with the communication of flood warnings and information provision to the public through Live Traffic and Social Media according to the VMS protocols and procedures. • Assist NSW SES with identification of road infrastructure at risk of flooding.
Transport Services Functional Area	The roles and responsibilities for Transport Services are outlined in the Transport Services Functional Area Supporting Plan and NSW State Flood Plan.
VRA Rescue NSW	The roles and responsibilities for VRA Rescue NSW are outlined in the NSW State Flood Plan.
Water NSW	The roles and responsibilities for Water NSW are outlined in the NSW State Flood Plan.
Welfare Services Functional Area	The roles and responsibilities for Welfare Services are outlined in the Welfare Services Functional Area Supporting Plan and NSW State Flood Plan.