

Service Level Specification for Flood Forecasting and Warning Services for New South Wales – Version 2.0



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This document outlines the Service Level Specification for Flood Forecasting and Warning Services provided by the Commonwealth of Australia through the Bureau of Meteorology for the State of New South Wales in consultation with the New South Wales Flood Warning Consultative Committee.

Service Level Specification for Flood Forecasting and Warning Services for New South Wales

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© Commonwealth of Australia (Bureau of Meteorology) 2013. Cover image: Major flooding on the Hunter River at Morpeth Bridge in June 2007. Photo courtesy of New South Wales State Emergency Service

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1 Introduction

- 1.1 The purpose of this Service Level Specification is to document and describe the flood forecasting and warning services provided for by the Bureau of Meteorology (the Bureau) in New South Wales.
- 1.2 The Bureau's flood forecasting and warning services are provided within the context of the Total Flood Warning System as defined in the Australian Emergency Manuals Series, Manual 21 Flood Warning (Australian Government, 2009 and illustrated in Figure 1).

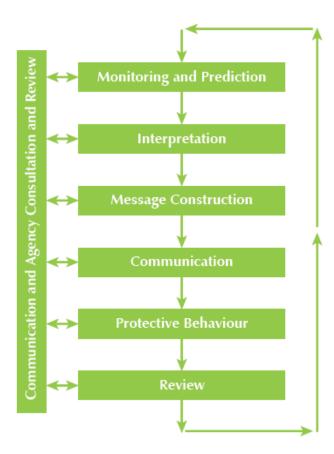


Figure 1: The components of the Total Flood Warning System (Australian Emergency Manual Series, Manual 21 Flood Warning, Australian Government 2009)

- 1.3 The Total Flood Warning System recognises that a fully effective flood warning service is multi-faceted in nature and its development and operation involves input from a number of agencies each with specialised roles to play. It is vital that the agencies involved work in close cooperation through all stages of developing and operating the system. The services described here are the Bureau's contribution to the Total Flood Warning System.
- 1.4 The Bureau's main role in the Total Flood Warning System is focussed on monitoring and prediction, and to a lesser extent interpretation, message construction and communication components (see Appendix A for descriptions). The Bureau also contributes to the review activities and takes a role in the planning and coordination activities associated with ensuring that the activities of all agencies and appropriate linkages are well coordinated. The roles and responsibilities of all key stakeholders involved in the provision of a flood warning

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service in New South Wales are described in the National Arrangements for Flood Forecasting and Warning (Bureau of Meteorology, 2015)¹.

- 1.5 This Service Level Specification is concerned with describing the Bureau's role in the Total Flood Warning System and its interaction with other stakeholders as described in the National Arrangements. This is to ensure that the service the Bureau is providing in support of each of the relevant components of the Total Flood Warning System is understood by the Bureau and other stakeholders.
- 1.6 A description of the activities that make up the Bureau's flood forecasting and warning services for New South Wales is given in Section 3. This set of activities, associated products and target levels of service constitute the current standard services provided freely by the Bureau. The Bureau also provides supplementary services on a commercial or cost recovery basis but they are not covered in this document.

¹ The National Arrangements for Flood Forecasting and Warning (2015) is available on the Bureau's website: http://www.bom.gov.au/water/floods/index.shtml

2 Flood Warning Consultative Committee

- 2.1 The New South Wales Flood Warning Consultative Committee provides the Bureau's key stakeholder's with a consultation mechanism for its flood forecasting and warning services. As such, the committee is responsible for reviewing this Service Level Specification on an annual basis or as required.
- 2.2 The overall role of the New South Wales Flood Warning Consultative Committee is to coordinate the development and operation of flood forecasting and warning services in New South Wales, acting as an advisory body to the Bureau and participating State and local government agencies. Membership and terms of reference for this committee in New South Wales are detailed in Schedule 1.
- 2.3 The Bureau chairs and provides the secretariat support to the New South Wales Flood Warning Consultative Committee, which meets six monthly depending on need and activity.

3 Bureau flood forecasting and warning services

- 3.1 The scope of services covered by this Service Level Specification is confined to those dealing with riverine flooding caused by rainfall where typical rain-to-flood times are six hours or more. Flash flooding (rain-to-flood times less than six hours) and flooding caused purely by elevated sea levels are not covered, nor are the weather forecasting and other services the Bureau provides that contribute to the flood forecasting and warning service, including Severe Weather and Severe Thunderstorm Warnings, Tropical Cyclone Warnings, provision of radar data and rainfall forecasts. Schedule 2 is an up-to-date version (as at June 2013) of the information contained in Annex C of the New South Wales State Flood Plan (State Emergency Service, 2008) which also defines warning lead time requirements for most locations.
 - 3.1.1 In New South Wales flood warnings are also provided for 13 smaller subcatchments with faster catchment response times (rain-to-flood times less than six hours) that have specialised warning systems in place. As stated in Annex C of the New South Wales State Flood Plan the reliability of the service for these 13 locations is not as high as for other sites along the major streams listed in Schedule 2.
- 3.2 The nature of the services covered by this Service Level Specification include undertaking the routine catchment monitoring and river height prediction activities necessary for the Total Flood Warning System, as well as issuing and publishing specific warning and data products. These activities are listed below with further detail and associated performance measures provided in subsequent sections.
 - Collect and publish rainfall and river level data
 - Routine monitoring of flood potential
 - Flood modelling and prediction
 - Automated information and alerting
 - Issue flood watches
 - Issue flood warnings
 - Communication of flood warnings and flood watches
 - Data networks, communications and storage
 - Operations
 - Publishing of data and flood information
 - Planning and liaison
 - Support for emergency management training and training exercises
- 3.3 Collect and publish rainfall and river level data
 - 3.3.1 The collection and publishing of rainfall and river level data is an important component of the overall service. Apart from use by the Bureau for data analysis and its hydrological modelling for flood predictions, the data is also used by the emergency service agencies, numerous operational agencies, businesses and the public to monitor rainfall and river conditions. To assist in describing the service, the locations where river height; dam, weir or lake level; and tidal observations are made are categorised into three types; namely forecast location (Schedule 2), information location (Schedule 3a and 3b) and data location (Schedule 4).
 - **Forecast location** is a location for which the Bureau provides a forecast of future water level either as the class of flood that is predicted (minor, moderate or major) or as a level and class refer to Appendix A for definitions. At these locations observed data, flood classifications and additional qualifying

information will also be available (Schedule 2). Real time data collected at these locations is critical for the provision of a **quantitative** flood warning service to that site. Permanent or temporary loss of real time data may necessitate a downgrading of the flood warning service from **quantitative** predictions to either **qualitative** or **generalised**.

- **Information location** is a forecast location at which flood classifications are defined and observations of water level data are provided. At these locations forecasts of future water level are not produced. Other key thresholds may be defined and reported against (Schedule 3a and 3b).
- **Data location** is a location for which just the observed water level data is provided. Flood classifications are not available for these locations and forecasts of future water level are not produced (Schedule 4).
- 3.3.2 An indicative level of priority has been assigned to each observing site and key communication infrastructure such as radio repeaters (Schedules 2-4 and 7-9) based on a three tiered scheme (Table 1). The priority level is based on the expected impact to the Bureau's services. The impacts identified are the expected outcome of a service outage at that site during a flood emergency. Impact is described in terms of forecast performance and the Bureau's ability to provide a flood warning service. Note that the scope of this priority scheme is limited to consideration of the requirements of forecasting and prediction only and should not be confused with any other priority assigned to that site by third party owners or other users.

Table 1: Site Priority

Priority Level	Impact on performance	Impact on service delivery	Description
High	Very difficult to meet target	Direct and significant high level impact for the site and/or downstream locations	Degradation of service highly likely.
Medium	Difficult to meet target	Some impact for the site and/or downstream locations.	Possible degradation of service.
Low	Not likely to affect meeting targets	Little impact on the site and/or downstream location	No change in service. Lower possibility of degradation of service.

Note: Multiple outages within a given network will lead to a higher impact levels and greater service degradation. Table 1 indicates the effect of a single site failure within an otherwise functional network.

- **3.4** Routine monitoring of flood potential
 - 3.4.1 The Bureau will maintain an awareness of catchment conditions and monitor the potential for riverine flooding. This monitoring activity will be supported by the Bureau's weather services as required and is an activity undertaken to plan future flood operations.
- **3.5** Flood modelling and prediction
 - **3.5.1** The Bureau will develop and maintain prediction systems for the forecast locations listed in Schedule 2.

- 3.5.2 The Bureau prediction systems can include real-time hydrologic models, simple peak to peak correlations and other hydrologic techniques as appropriate.
- 3.5.3 The Bureau prediction systems will be maintained and updated following significant events or when new data becomes available.
- **3.5.4** The target level of performance for the prediction at each forecast location is given in Schedule 2.

3.6 Automated information and alerting

3.6.1 A threshold based rainfall and river alerting service is provided to the New South Wales State Emergency Services using the Bureau Environon system which sends simple SMS and email messages based on rainfall rates as outlined in Schedule 3b.

3.7 Issue flood watches

- 3.7.1 The Bureau will issue flood watches when the combination of forecast rainfall and catchment conditions indicates flooding is likely. The catchments and basins covered by flood watches include all those listed in Schedule 10. Note that flood watches may cover catchments that do not have established flood warning services.
- 3.7.2 The primary purpose of a flood watch is to provide early advice to communities and the relevant emergency service organisations of the potential flood threat from a developing weather situation. Typically, a flood watch is issued 1 to 4 days before an anticipated flood event depending on the confidence in rainfall forecasts
- **3.7.3** Flood watches will be communicated using the dissemination methods detailed in section 3.9.

3.8 Issue flood warnings

- **3.8.1** In general flood warnings are issued based on the following criteria:
 - The river level of at least one forecast location (listed in Schedule 2) is expected to reach and or exceed or has exceeded the minor flood level;
 - The flood class levels or trigger heights defined at forecast locations are expected to be exceeded (refer to Schedule 2);
 - The flood class levels defined at information locations are exceeded (refer to Schedule 3)

The specific initiating criteria, if any, for each flood warning product is listed in Schedule 10.

3.8.2 Flood warnings may include either qualitative or quantitative predictions at forecast locations or a statement about future flooding in more generalised terms as outlined in Table 2. The type of prediction included is commensurate with user requirements, the availability of real time rainfall and river level data, and the capability of available flood prediction systems. A flood warning may contain generalised, quantitative and qualitative predictions and typically start with more generalised information and become more specific as data becomes available as the event develops and progresses.

- 3.8.3 In New South Wales, the Bureau will issue flood warnings with either **quantitative** and/or **qualitative** predictions, for those catchments, and the locations within those catchments (consistent with Annex C of the New South Wales State Flood Plan) as listed in Schedule 2.
- 3.8.4 Quantitative predictions include expected flood class (minor, moderate or major) with specific information on the height and time of water levels at the forecast locations identified in Schedule 2. A quantitative prediction can be a specific level or a range of levels, and has detailed timing down to blocks of a minimum of three to six hours. Quantitative predictions are based on all available information at the time of warning issue. The target lead time of the river height prediction for each forecast location where quantitative predictions are provided is given in Schedule 2. For an example of a quantitative prediction refer to Table 2.
 - 3.8.4.1 For the Bureau to be able to provide a **quantitative** prediction at a location, it is essential to have a suitable network of rainfall and river level sites upstream with data coming in real time, sufficient historical data to calibrate the flood forecasting model, a reliable rating table and documented flood impacts and flood classifications.
- 3.8.5 Quantitative predictions include expected flood class (minor, moderate or major) with specific information on the height and time of water levels at the forecast locations identified in Schedule 2. A quantitative prediction can be a specific level or a range of levels, and has detailed timing down to blocks of a minimum of three to six hours. Quantitative predictions are based on all available information at the time of warning issue. The target lead time of the river height prediction for each forecast location where quantitative predictions are provided is given in Schedule 2. For an example of a quantitative prediction refer to Table 2.
 - 3.8.5.1 For the Bureau to be able to provide a **quantitative** prediction at a location, it is essential to have a suitable network of rainfall and river level sites upstream with data coming in real time, sufficient historical data to calibrate the flood forecasting model, a reliable rating table and documented flood impacts and flood classifications.
- 3.8.6 Qualitative predictions include expected flood class (minor, moderate or major) and timing of flooding at the forecast locations identified in Schedule 2. The timing is indicated in blocks of six, 12 or 24 hours, using the terms such as early morning, afternoon or overnight. Such predictions are based on all available information at that time and may include advice on the peak classification that is expected or has occurred at that location. The target lead time for each forecast location where only qualitative predictions are provided are given in Schedule 2. For an example of a qualitative prediction refer to Table 2.
 - 3.8.6.1 For the Bureau to be able to provide a **qualitative** prediction at a location, it is essential to have at least some rainfall and river level sites upstream of the location with data coming in real time, at least some historical flood data to calibrate the flood forecasting model, a reasonable rating table and documented flood impacts and flood classifications.
- 3.8.7 The Bureau may also issue flood warnings with more **generalised** predictions and information when there are not enough data to make specific predictions or in the developing stages of a flood. These warnings contain generalised statements advising that flooding is expected and may include forecast trend (rising or falling) (for examples refer to Table 2).

- 3.8.8 The typical target accuracy of a **quantitative** water river level prediction is that 70% are within 0.3 or 0.6 metres of the observed water level. Specific accuracy targets by location are defined in Schedule 2. Achievement of these targets is not possible in all floods or at all locations. In general predictions of a flood peak are more accurate than "reach" or "exceed" predictions that are issued during the developing stages of a flood. This is due to uncertainty of future rainfall rates and/or upstream flood behaviour that are used when making those predictions.
- 3.8.9 A list of the flood warnings issued in New South Wales, along with the basin/river to which they apply is included in Schedule 10. Details about forecast locations in each basin/river are included in Schedule 2.
- 3.8.10 Flood warning summaries a summary of flood watches and warnings that are current is provided to help media and other users readily access information. This product is currently not issued in New South Wales but it is planned to be automated as part of a nationally consistent product set.

Table 2. Prediction types description

Prediction type	Height prediction	Time of prediction	Example
Quantitative	Numerical prediction - Any Height - Peak Height Can refer to flood class	More specific, typically in blocks of 3 to 6 hours	The Clarence River at Grafton will exceed minor flood level (2.1 metres) around 3pm Saturday evening The Clarence River at Grafton is expected to peak near 6.5 metres with (major flooding) around 6pm on Sunday
Qualitative	Refers to flood class (minor, moderate or major)	Range of times (6, 12 or 24 hour blocks)	Minor flooding is expected in the Hunter River at Singleton during Saturday afternoon The Hunter River at Singleton is expected to peak above the Major Flood Level (13.0 metres) during Sunday evening
Generalised	No height prediction - forecast trend (rising or falling)	Range of times (24 hour blocks)	Flooding is expected in the Parramatta River catchment during Saturday with higher levels possible depending on future rainfall.

- 3.9 Communication of flood warnings and flood watches
 - 3.9.1 Flood watches and warnings will be issued directly to a list of stakeholders with emergency management responsibilities. This list is maintained by the Bureau but is not detailed in this document. The direct dissemination methods supported include email, fax and the internet protocols such as File Transfer Protocol (FTP).
 - 3.9.2 The format of messaging in flood related products will conform to a nationally consistent standard determined by the Bureau, in consultation with the Flood Warning Consultative Committee.
 - 3.9.3 Flood watches and warnings are also communicated by the Bureau via:
 - **3.9.3.1 Radio:** Radio stations, particularly the ABC, broadcast flood warning information as part of their news bulletins, or whenever practicable. This form of broadcast may be covered in separate agreements between the Bureau and broadcasters.

- 3.9.3.2 Weather warning service: Flood warning information is recorded on a contracted telephone information service. Calls to this service incur a fee-for-service charge.
- 3.9.3.3 **Internet:** Flood watches and warnings are published on the Bureau's public web site and available by File Transfer Protocol (FTP) and Rich Site Summary (RSS) along with related rainfall and river level information (see 3.12).
- Emergency management partners² and media can also access flood level and 3.9.4 warning information directly from the Bureau Flood Warning Centre and Bureau National Operations Centre, subject to operational constraints. The Bureau does not publish to the public the contact details for the Flood Warning Centres and Bureau National Operations Centre.
- **3.10** Data networks, communications and storage
 - 3.10.1 The services to be provided by the Bureau under this Service Level Specification depend on provision of data from networks of stations owned and operated by the Bureau and partner agencies. Permanent or temporary loss of real time data may necessitate a downgrading of the flood warning service from quantitative predictions to qualitative or then generalised.
 - The Bureau contribution to this network of stations includes: 3.10.2
 - the operation and maintenance of equipment at the sites which are fully owned and maintained by the Bureau as listed in Schedule 7.
 - assisting with maintenance of equipment for other agencies at the sites listed in Schedule 8.
 - operating and maintaining Bureau-owned equipment at sites where this equipment is co-located at a site owned by another agency Schedule 9.
 - 3.10.3 Where the site is owned or operated by other parties, installation, maintenance and repairs of Bureau equipment will depend on adequate access being provided to the Bureau and any of its contractors. The Bureau will confirm access arrangements with relevant land owners before entering the premises. The Bureau also requires that the site operators provide timely advice regarding any possible faults or other issues affecting the performance of the data network.
 - 3.10.4 The flood forecasting and warning service for New South Wales also depends on the provision of data from partner agency data networks. The provision of these data for each of the agencies concerned is detailed in a Data Sharing Agreement between the Bureau and each partner (Schedule 6).
 - 3.10.5 The Bureau will maintain the essential set of metadata describing the network of stations and related infrastructure regarding the Bureau's component of the data network, along with metadata required to inform the data ingest process for partner agency related networks and sites.
 - The Data Sharing Agreements are intended to reflect operational arrangements and 3.10.6 are not legally binding and allow multiple agreements between individual and/or multiple agencies.

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² Emergency management partners include those organisations that have an emergency management responsibility for the wider community (e.g. State Emergency Service)

- 3.10.7 The parties agree to the provision of data as set out in the Data Sharing Agreements during periods of routine site operation and increased frequency during flood periods.
- 3.10.8 Data transfer protocols and conditions regarding fitness for purpose as provided by each stakeholder will be adhered to as set out in the Data Sharing Agreements for data provision.
- **3.10.9** The sharing of data as set out in the Data Sharing Agreements can be amended by following the process described in the agreement.
- 3.10.10 The Bureau has developed special purpose software (Environon) for collecting, alarming, storing, on-forwarding and display of data from Event-Reporting Radio Telemetry Systems (ERRTS) (field equipment) based on Automated Local Evaluation in Real Time (ALERT) data protocol.
- 3.10.11 The Bureau provides a range of supplementary services associated with Environon including: installation of Environon software; the commissioning of an Environon base station or maintenance and support; and onsite Environon training. However, software licensing and limited support for Environon base stations listed in Schedule 5 is currently a standard service (free of charge).

3.11 Operations

- 3.11.1 The Bureau will use reasonable endeavours to provide a 24 hours a day, seven days a week operational systems capability necessary to support flood warning operations. This will include on-line computer and data ingestion systems, along with appropriate communications infrastructure.
- 3.11.2 The Bureau operates a regional Flood Warning Centre in each capital city and a Bureau National Operations Centre in Melbourne on an as-required basis.
- 3.11.3 Through the regional Flood Warning Centre and Bureau National Operations Centre, the Bureau will provide operational coverage for up to 24 hours per day during flood events, subject to event requirements and operational constraints. The Bureau will advise its key emergency management clients of any impact in services if it is unable to provide sufficient staff coverage to meet the service levels set out in this Service Level Specification (see also 4.2)
- 3.11.4 Staff in the Bureau National Operations Centre will support regional operations either remotely or by providing additional capacity to a regional Flood Warning Centre where reasonably possible during significant and long duration events. When necessary, staff from regional offices in areas not impacted by current flooding will endeavour to assist.
- 3.11.5 The Bureau will maintain an internal catchment directive for each catchment where a warning service is provided. The catchment directive documents and describes the forecast process for the particular catchment and includes flood intelligence information, flood history, contact details for partners with local knowledge and warning issue criteria.
- **3.11.6** The operation of the Flood Warning Centres will endeavour to be compliant with the fatigue management guidelines developed under the Bureau's Work Health and

Safety Procedures. Particular attention to fatigue management will be provided during the management of extreme events. The requirement to comply with these guidelines applies to all personnel present at these centres.

The Bureau will assist in meeting the needs of the Australian Government's National 3.11.7 Crisis Coordination Centre. The Bureau will use reasonable endeavours to support and participate in relevant critical event briefings as resources permit.

3.12 Publishing of data and flood information

- 3.12.1 The Bureau will maintain the systems to ingest all data being gathered through the flood warning data network.
- 3.12.2 The river height and rainfall data received by the Bureau will be published as soon as practicable (the data is supplied at different frequencies and by various methods) upon receipt into Bureau operational systems. The data will be published in the form of tables, maps and plots and will also be included in warnings and alerting messages and used in modelling systems.
- 3.12.3 Data collected in Bureau systems will be available for use by the Bureau as it requires and for distribution to the public on suitable open source licence terms³.
- 3.12.4 The Bureau will continue to collect and update the flood background information on floods contained on its website. These include survey information, flood history and flood event reports, catchment maps and brochures.

3.13 Planning and liaison

3.13.1 The Bureau undertakes a range of routine planning, maintenance and liaison activities that support the Total Flood Warning System. This includes contributing to related flood risk management activities within the State or Territory impacting on, or related to flood warning along with the ongoing coordination and liaison activities essential to the smooth operation of the Total Flood Warning System.

3.14 Support for emergency management training and exercises

3.14.1 The Bureau will, within operational constraints, endeavour to support and participate in relevant disaster management activities outside of flood operational periods, including training exercises and flood response planning.

³ Please refer to the Creative Commons License: http://www.bom.gov.au/water/regulations/dataLicensing/ccLicense.shtml

4 Level of service and performance reporting

- 4.1 Achievable levels of performance provided by the Bureau are dependent on many factors including adequate access to Bureau equipment where located on sites owned by other agencies, data availability in near real time from Bureau and partner agencies, modelling and prediction capability, geomorphology of the catchment and meteorological considerations such as rainfall patterns.
- 4.2 If during a flood event the achievable service level is expected to be reduced, for any reason below the target level as stated in this Service Level Specification, the Bureau will inform the key emergency management clients in New South Wales of the reduced service level via email and phone.
- 4.3 The Bureau's performance during significant events will be reviewed and reported on using a standard performance structure developed in conjunction with key stakeholders and within the context of the Total Flood Warning System based on key performance indicators and the service levels defined in Schedule 2.
- 4.4 An annual performance report will be tabled at a Flood Warning Consultative Committee meeting if significant flooding has occurred in the previous year. This report may be published on the Bureau website.
- **4.5** Event based performance reports with more detailed technical information may also be produced for significant and high profile events.

5 Limitations of service

- **5.1** Performance of services provided under this document are subject to:
 - (a) The availability of funds and human resources of the Bureau and its partner agencies and changes to organisational policies that may affect the terms and conditions of the Service Level Specification.
 - (b) Circumstances beyond the control of the Bureau including where the performance is the responsibility of another entity.
 - (c) The existence of a reliable and ongoing supply of quality real time rainfall, water level and flow data.
 - (d) The reliable and ongoing availability of the computing and communication infrastructure required for the performance of the services.
 - (e) Adequate communication between the Bureau and all relevant partners under this Service Level Specification and related Data Sharing Agreements and any other agreement relevant to it including on any faults or issues.
- 5.2 In New South Wales there is one key document that describes the State's arrangements for flood warning and flood risk management. This Service Level Specification does not replace or reduce the value of this document. The document is:
 - (a) New South Wales State Flood Plan 2008 (New South Wales State Emergency Service)

- 6 Service Level Specification consultation, review and updating
- **6.1** The initial and annual process for acceptance of this Service Level Specification will be:
 - 6.1.1 The Flood Warning Consultative Committee members will be provided with the draft or amended Service Level Specification in advance of a special or scheduled committee meeting.
 - 6.1.2 The members of the Flood Warning Consultative Committee will distribute the draft or amended Service Level Specification within their organisations and provide feedback from their organisation at the committee meeting.
 - 6.1.3 After consultation and discussion at the Flood Warning Consultative Committee meeting, the Bureau will update the Service Level Specification.
 - 6.1.4 The Chair of the Flood Warning Consultative Committee (Bureau's Regional Director) will accept and sign the document on behalf of the committee.
 - 6.1.5 The Assistant Director Water Forecasting Services will sign the Service Level Specification on behalf of the Director of Meteorology.
 - 6.1.6 The Bureau will then distribute the Service Level Specification to all members of the Flood Warning Consultative Committee and publish a copy on the Bureau website.
- 6.2 The schedules of this Service Level Specification will be reviewed annually and either updated following review, or when a significant change is made that impacts on the level of services described in this document. Updates to this document will be recorded in Schedule 11.
- 6.3 Any changes to the categorisation of a location into data, information or forecast location or to the level of services described in this document will be through a consultative process using agreed arrangements in New South Wales and when required coordinated by the Flood Warning Consultative Committee.

7 Signature of parties

7.1 This Service Level Specification has been prepared by the Bureau of Meteorology in consultation with the New South Wales Flood Warning Consultative Committee.

Mr Barry Hanstrum

Date

10/9/15

Chair of the New South Wales Flood Warning Consultative Committee, and

Regional Director - New South Wales

Bureau of Meteorology

Grant Wilson

Acting Assistant Director Water Forecasting Services

Bureau of Meteorology

Date

Schedule 1: Flood Warning Consultative Committee

The New South Wales Flood Warning Consultative Committee was formed in late 1989. The Committee's role is to coordinate the development and operations of the State's flood forecasting and warning services. It is an advisory body and reports to the Bureau of Meteorology and participating state and local government agencies as required. The membership includes

- Bureau of Meteorology (Chair/Secretariat)
- DPI Water
- New South Wales State Emergency Service
- New South Wales Office of Environment and Heritage
- Floodplain Management Association
- Water NSW (Sydney Catchment Authority)

The nationally consistent Terms of Reference for Flood Warning Consultative Committees are:

- 1. Identify requirements and review requests for new and upgraded forecasting and warning services.
- **2.** Establish the priorities for the requirements that have been identified using risk based analyses of the Total Flood Warning System.
- **3.** Review and provide feedback on the Service Level Specification for the Bureau's Flood Forecasting and Warning services on an annual basis.
- **4.** Coordinate the implementation of flood warning systems in accordance with appropriate standards.
- **5.** Promote effective means of communication of flood warning information to the affected communities.
- **6.** Monitor and review the performance of flood forecasting and warning services.
- 7. Build awareness and promote the Total Flood Warning System concept.

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Schedule 2: Forecast locations and levels of service

Column definitions:

<u>Bureau number</u>: Refers to the unique number assigned to a particular station by the Bureau. External refers to stations which do not currently have a Bureau number assigned to them.

<u>Forecast location</u>: Is the specific location that will be referred to in flood warnings (refer Clause 3.3.1) * indicates this is also a key location for downstream predictions. u/s refers to predictions refer to upstream levels. n/a refers to flood classifications have not yet be defined by the New South Wales State Emergency Service. * refers to provisional flood classifications to be confirmed by the New South Wales State Emergency Service

Station owner: Refers to the owning and operating agency of the station. The Bureau may co-own stations. (refer Schedules 7 and 8)

Gauge type: Either manual (read by human) or automatic (consisting of either ALERT or telemeter gauges)

Flood classification: For definitions please refer to Appendix A.2.

Prediction type: The type of warning service that particular location can expect. (refer 3.8)

<u>Target warning lead time</u>: The minimum lead time that will be provided before the height or the flood class level given is exceeded. (Refer 3.8) * provisional minimum lead time not specified in Annex C of the New South Wales State Flood Plan

<u>Target peak accuracy:</u> The error within which peak river level height is predicted (refer 3.8.7)

Priority: The impact a temporary or permanent loss of site will have on service delivery and in meeting performance targets (refer 3.3.2)

To view the New South Wales Flood Plan please follow this link: http://www.ses.nsw.gov.au/content/documents/pdf/research-papers/42925/The revised NSW State Flood Plan.pdf

Bureau	AWRC	Forecast			Flood	Flood classification (m)			Target warning lead time		70% of peak	
number	number	location	Station owner	Gauge type	Minor	Moderate	Major	Prediction type	Time (hrs)	Trigger height (m)	forecasts within	Priority
201 – Two	eed River \	Valley										
058186	201420	Murwillumbah	NSW OEH - MHL	Automatic	3.0	4.0	4.8	Quantitative	6 hrs 12 hrs	>3.5 m >6.6m	+/- 0.3 m	High

B	AWDO	F			Floor	d classificatio	on (m)	Prediction		warning d time	70% Of	
Bureau number	AWRC number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	type	Time (hrs)	Trigger height (m)	forecasts within	Priority
201 – Two		Valley (continued										
558010	201426	Chinderah - Barneys Point	NSW OEH – MHL	Automatic	1.3	1.7	2.0	Quantitative	6 hrs [#]	>1.3m	+/- 0.3 m	High
202 -Bru	nswick Riv	er Valley										
558020	202400	Billinudgel ^	NSW OEH – MHL	Automatic	2.5	3.0	3.5	Quantitative	3 hrs#	>2.5 m	+/- 0.3 m	High
558006	202402	Mullumbimby ^	NSW OEH – MHL	Automatic	2.5	3.5	4.5	Quantitative	3 hrs [#]	>2.5 m	+/- 0.3 m	High
203 - Ric	hmond an	d Wilsons River \	/alley									
058176	203904	Lismore AHD	Local Council	Automatic	4.2	7.2	9.7	Quantitative	12 hrs	>10 m	+/- 0.3 m	High
558001	203005	Wiangaree	NSW Office of Water	Automatic	11.0	15.5	n/a	Quantitative	6 hrs [#]	>11 m	+/- 0.3 m	High
558002	203900	Kyogle	NSW Office of Water	Automatic	12.0	14.4	16.0	Quantitative	6 hrs	13.0 m	+/- 0.3 m	High
058179	203907	Casino	Local Council	Manual	9.2	12.2	15.0	Quantitative	6 hrs	>9.2 m	+/- 0.3 m	High
058175	203403	Coraki	NSW OEH – MHL	Automatic	3.4	5.0	5.7	Quantitative	24 hrs	3.8	+/- 0.3 m	High
058184	203450	Bungawalbin	NSW OEH – MHL	Automatic	3.0	4.5	5.0	Quantitative	24 hrs	4.5	+/- 0.3 m	High
058016	203412	Woodburn	NSW OEH – MHL	Automatic	3.2	3.7	4.2	Quantitative	12 hrs*	>3.2 m	+/- 0.3 m	High
204 - Cla	rence Rive	er Valley										
058178	204400	Grafton	NSW OEH – MHL	Automatic	2.1	3.6	5.4	Quantitative	6 hrs 24 hrs	>3.6 m >8.2 m	+/- 0.3 m	High
058188	204480	Ulmarra	NSW OEH - MHL	Automatic	2.1	3.4	4.9	Quantitative	6 hrs 12 hrs	>3.4 m >3.3 m	+/- 0.3 m	High
558002	204410	Maclean	NSW OEH - MHL	Automatic	1.6	2.2	2.5	Quantitative	6 hrs 24 hrs	>2.2 m >3.3 m	+/- 0.3 m	High
059123	204907	Glenreagh	Bureau	Manual	4.0	7.0	10.0	Quantitative	6 hrs	>5.8 m	+/- 0.3 m	High
558030	204909	Coutts Xing	Local Council	Manual	5.0	9.0	12.0	Quantitative	6 hrs#	>9.0 m	+/- 0.3 m	High
	linger Rive									•		, ,
059121	205002	Thora	NSW Office of Water	Automatic	3.0	4.3	5.8	Quantitative	3 hrs	>3.0 m	+/- 0.3 m	High
059126	205442	Bellingen	NSW OEH – MHL	Automatic	3.7	6.7	8.2	Quantitative	6 hrs	>4.9 m	+/- 0.3 m	High
559024	205403	Repton	NSW OEH – MHL	Automatic	2.0	n/a	3.0	Quantitative	6 hrs#	>2.0 m	+/- 0.3 m	High
559011	205407	Urunga	NSW OEH – MHL	Automatic	1.5	2.0	2.4	Quantitative	6 hrs#	>1.5 m	+/- 0.3 m	High
559012	205439	Coffs Creek ^	NSW OEH – MHL	Automatic	3.0	n/a	4.7	Quantitative	1 hr [#]	>3.0 m	+/- 0.3 m	High
558060	205463	Wooli Caravan Park ^	NSW OEH - MHL	Automatic	1.9#	2.2#	2.5#	Quantitative	6 hrs [#]	>1.9m	+/- 0.3 m	High
205 – Nar	mbucca Ri							1		<u> </u>	1	1
559045	205015	Bowraville	NSW Office of Water	Manual	5.5	5.8	10.1	Quantitative	3 hrs	>5.5 m	+/- 0.3 m	High
559006	205416	Macksville	NSW OEH – MHL	Automatic	1.7	2.1	2.6	Quantitative	6 hrs 12 hrs	>2.0 m >3.0 m	+/- 0.3 m	High

Bureau	AWRC	Forecast			Floor	d classificatio	on (m)	- Prediction		warning I time	70% of	
number	number	location	Station owner	Gauge type	Minor	Moderate	Major	type	Time (hrs)	Trigger height (m)	forecasts within	Priority
	cleay Rive											
556017	206032	Armidale – Stephens Bridge ^	NSW Office of Water	Automatic	2.9	n/a	n/a	Quantitative	1 hr#	>2.9 m	+/- 0.3 m	High
557001	206024	Georges Creek	NSW Office of Water	Automatic	6.0	8.0	10.0	Quantitative	6 hrs	>8.0 m	+/- 0.3 m	High
059122	206019	Bellbrook	Local Council	Automatic	6.5	10.5	13.5	Quantitative	6 hrs [#]	>6.5 m	+/- 0.3 m	High
059127	206468	Kempsey AHD	NSW OEH – MHL	Automatic	4.5	5.7	6.6	Quantitative	12 hrs 24 hrs	4.5 m >5.7m	+/- 0.3 m	High
559040	206406	Smithtown	NSW OEH – MHL	Automatic	3.4	4.0	4.2	Quantitative	12 hrs [#]	>4.0 m	+/- 0.3 m	High
207 – Has	stings and	Camden Haven F										
060116	207004	Kindee Bridge	NSW Office of Water	Automatic	3.0	5.5	7.6	Quantitative	6 hrs	>8.7 m	+/- 0.3 m	High
060124	207401	Wauchope	NSW OEH – MHL	Automatic	2.5	4.3	5.5	Quantitative	6 hrs 12 hrs	>2.5 m >5.5 m	+/- 0.3 m	High
060133	207418	Settlement Point	NSW OEH – MHL	Automatic	1.2	1.5	1.75	Quantitative	12 hrs	>1.2 m	+/- 0.3 m	High
560017	207428	Logans Crossing ^	NSW OEH – MHL	Automatic	7.0	n/a	n/a	Quantitative	3 hrs [#]	>7.0 m	+/- 0.3 m	High
560018	207425	Laurieton	NSW OEH – MHL	Automatic	1.1	1.5	1.7	Quantitative	3 hrs 6 hrs	>1.1 m >1.5 m	+/- 0.3 m	High
208 – Ma	nning Rive	r Valley								•		
560062	208020	Gloucester	NSW Office of Water	Automatic	4.3	4.9	5.2	Quantitative	3 hrs [#]	>4.0 m	+/- 0.3 m	High
060120	208400	Wingham AHD	NSW OEH – MHL	Automatic	4.9	8.9	11.9	Quantitative	12 hrs 24 hrs	>5.0 m >12 m	+/- 0.3 m	High
060019	208410	Taree AHD	NSW OEH – MHL	Automatic	1.8	2.4	3.7	Quantitative	12 hrs 24 hrs	>2.1 m >4 m	+/- 0.3 m	High
560008	208404	Croki	NSW OEH – MHL	Automatic	1.5	n/a	n/a	Quantitative	12 hrs [#]	>1.5m	+/- 0.3 m	High
560027	208425	Harrington	NSW OEH – MHL	Automatic	1.9	2.2	2.8	Quantitative	12 hrs [#]	>1.9 m	+/- 0.3 m	High
209 – Kai	ruah River	Valley										
560057	209906	Tuncurry	Local Council	Automatic	0.9	1.5#	1.9#	Quantitative	3 hrs [#]	>0.9 m	+/- 0.3 m	High
560040	209460	Bulahdelah ^	NSW OEH – MHL	Automatic	3.0	n/a	4.5 [#]	Quantitative	3 hrs [#]	>3.0 m	+/- 0.3 m	High
	nter River											
061360	210904	Scone ^	Local Council	Automatic	3.2	3.5	3.7	Quantitative	3 hrs [#]	>3.2 m	+/- 0.3 m	High

Bureau	AWRC	Forecast			Floor	d classificatio	on (m)	- Prediction		warning d time	70% Of	
Bureau number	number	location	Station owner	Gauge type	Minor	Moderate	Major	type	Time (hrs)	Trigger height (m)	forecasts within	Priority
		Valley (continued										_
561005	210002	Muswellbrook	NSW Office of Water	Automatic	7.2	8.0	10.0	Quantitative	4 hrs 12 hrs	>7.2 m >10.0 m	+/- 0.3 m	High
561105	210055	Denman	NSW Office of Water	Automatic	6.5	7.9	9.0	Quantitative	8 hrs	9.0 m	+/- 0.3 m	High
061347	210028	Bulga	NSW Office of Water	Automatic	3.0	3.7	4.6	Quantitative	12 hrs	3.0 m	+/- 0.3 m	High
561010	210001	Singleton	NSW Office of Water	Automatic	10.0	11.5	13.0	Quantitative	6 hrs 24 hrs	>10 m >14.2 m	+/- 0.3 m	High
061268	210458	Maitland AHD - Belmore Br.	NSW OEH – MHL	Automatic	5.9	8.9	10.5	Quantitative	12 hrs 24 hrs	>5.9 m >7.1 m	+/- 0.3 m	High
061349	210402	Gostwyck Br.	NSW OEH- MHL	Automatic	9.1	10.7	12.2	Quantitative	12 hrs	>9.1 m	+/- 0.3 m	High
061267	210903	Dungog	NSW Office of Water	Automatic	4.9	7.6	8.5	Quantitative	3 hrs#	>4.9m	+/- 0.3 m	High
061139	210010	Mill Dam Falls	NSW Office of Water	Automatic	6.1	7.6	9.1	Quantitative	12 hrs	6.1 m	+/- 0.3 m	High
561037	210452	Raymond Terrace	NSW OEH – MHL	Automatic	2.5	3.1	3.5	Quantitative	6 hrs 18 hrs	>2.5 m >3.5 m	+/- 0.3 m	High
211 – Lal	ke Macqua	rie, Tuggerah Lal	ke and Wyong River									
561025	211002	Wyong	Local Council	Automatic	2.7	3.8	4.0	Quantitative	6 hrs [#]	>2.7m	+/- 0.3 m	High
561001	211418	Tuggerah Lake – Long Jetty	NSW OEH - MHL	Automatic	0.9	1.8	2.2	Quantitative	6 hrs [#]	>0.9 m	+/- 0.3 m	High
561071	211461	Lake Macquarie - Belmont	NSW OEH - MHL	Automatic	0.7	0.9	1.1	Quantitative	6 hrs [#]	>0.7 m	+/- 0.3 m	High
212 – Hav	wkesbury l	Nepean River Val	ley									
068216	212904	Menangle	Bureau	Automatic	5.2	9.2	12.2	Quantitative	6 hrs [#]	>5.2 m	+/- 0.3 m	High
568154	212216	Camden Weir	Sydney Catchment Authority	Automatic	6.8	8.3	13.8	Quantitative	12 hrs	>6.8 m	+/- 0.3 m	High
067093	212202	Wallacia Weir	Sydney Catchment Authority	Automatic	5.0	8.7	11.0	Quantitative	12 hrs	> 5.0 m	+/- 0.3 m	High
567047	212201	Penrith	Sydney Catchment Authority	Automatic	3.9	7.9	10.4	Quantitative	6 hrs 8 hrs	>8.9 m >11.3m	+/- 0.3 m	High
567098	212200	North Richmond Bridge	Sydney Catchment Authority	Automatic	4.3	8.4	11.0	Quantitative	6 hrs 15 hrs	>16 m >18 m	+/- 0.3 m	High

	AWDO	F			Floor	d classificatio	on (m)	B Badaa	Target warning lead time		70% Of	
Bureau number	AWRC number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	- Prediction type	Time (hrs)	Trigger height (m)	forecasts within	Priority
	wkesbury l	Nepean River Val										
567044	212426	Windsor	NSW OEH – MHL	Automatic	5.8	7.0	12.2	Quantitative	6hrs if peak>16 15hrs if peak>16 12-18 hrs	9.6m 13.7m Peak	+/- 0.3 m	High
063280	212406	Sackville	NSW OEH - MHL	Automatic	4.6	7.3	9.7	Quantitative	18 hrs	>4.6	+/- 0.3 m	High
067094	212407	Lower Portland	NSW OEH – MHL	Automatic	4.6	6.1	7.6	Quantitative	18 hrs	>4.6	+/- 0.3 m	High
063288	212908	Putty Road	Bureau	Manual	2.7	5.7	10.7	Quantitative	12 hrs	>5.7	+/- 0.3 m	High
561004	212408	Wisemans Ferry	NSW OEH – MHL	Automatic	n/a	3.5	4.2	Quantitative	12hrs	>3.5 m	+/- 0.3 m	High
213 – Ge	orges Rive	r and Sydney Co										
566054	213400	Liverpool	NSW OEH – MHL	Automatic	2.0	3.0	4.5	Quantitative	6 hrs 12 hrs	>2.0 m >4.0 m	+/- 0.3 m	High
066168	213405	Milperra	NSW OEH – MHL	Automatic	2.0	3.3	4.2	Quantitative	6 hrs 12 hrs	>2.0 m >4.0 m	+/- 0.3 m	High
566011	213410	Picnic Point	NSW OEH – MHL	Automatic	2.0#	n/a	n/a	Quantitative	6 hrs [#]	>2.0m	+/- 0.3 m	High
566045	213904	Woronora Bridge ^	Local Council	Automatic	1.5	3.4	5.9	Quantitative	3 hrs [#]	>1.5 m	+/- 0.3 m	High
n/a	n/a	Parramatta River		ation exists – fore eshold as per trig			ice of a	Generalised	3 hrs [#]	>1%	n/a	n/a
566012	213415	Cooks River – Tempe Bridge	NSW OEH – MHL	Automatic	1.3	n/a	n/a	Quantitative	3 hrs [#]	>1.3 m	+/- 0.3 m	High
215 - She	oalhaven R	River Valley										
068213	215411	Nowra – AHD	NSW OEH – MHL	Automatic	2.3	3.3	4.3	Quantitative	6 hrs 9 hrs 12 hrs	>2.3m >3.3 m >4.3 m	+/- 0.3 m	High
068221	215420	Terara	NSW OEH – MHL	Automatic	2.2#	3.0#	3.9#	Quantitative	6 hrs [#]	>3.0m	+/- 0.3 m	High
216 - Cly	de River V	alley – St George	es Basin					•			•	
568200	216415	Island Point Road	NSW OEH – MHL	Automatic	1.2#	1.5#	1.8#	Quantitative	3 hrs [#]	>1.2m	+/- 0.3 m	High

Bureau	AWRC	Forecast			Flood	d classificatio	on (m)	Prediction		warning I time	70% Of	
number	number	location	Station owner	Gauge type	Minor	Moderate	Major	type	Time (hrs)	Trigger height (m)	forecasts within	Priority
	de River V		es Basin (continued)									
568198	216412	Sussex Inlet	NSW OEH – MHL	Automatic	0.9#	1.2#	1.8#	Quantitative	3 hrs [#]	>0.9m	+/- 0.3 m	High
	ruya River											
069136	217002	Wamban	NSW Office of Water	Automatic	4.4	6.2	8.0	Quantitative	3 hrs [#]	>4.4 m	+/- 0.3 m	High
069130	217410	Moruya	NSW OEH – MHL	Automatic	2.0	2.6	3.2	Quantitative	6 hrs	>2.6 m	+/- 0.3 m	High
	ga River Va					,						
569023	219900	Bega	NSW Office of Water	Automatic	4.6	7.0	8.0	Quantitative	3 hrs [#]	>4.6m	+/- 0.3 m	High
	owy River '					, 						
570020	220019	Bombala	NSW Office of Water	Automatic	3.0	5.0	8.0	Quantitative	3hrs [#]	>3.0m	+/- 0.3 m	High
	goa River					, 						
048212	422016	Brenda	NSW Office of Water	Automatic	4.9	5.5	5.9	Quantitative	3days	>5.9m	+/- 0.3 m	High
048230	422017	Weilmoringle	NSW Office of Water	Automatic	5.2	n/a	5.8	Quantitative	2 days 3 days	>5.6m >6.2m	+/- 0.3 m	High
048052	422006	Kenebree	NSW Office of Water	Automatic	4.7	5.7	6.3	Quantitative	3 days 3 days	>6.1m >6.5m	+/- 0.3 m	High
048215	422014	Goodooga (Bokhara)	NSW Office of Water	Automatic	2.7	3.4	4.2	Quantitative	2 days	>3.7m	+/- 0.3 m	High
548011	422013	Goodooga (Birrie)	NSW Office of Water	Automatic	3.2*	4.0#	5.0#	Quantitative	2 days [#]	>4.0m	+/- 0.3 m	High
548012	422005	Goodwins	NSW Office of Water	Automatic	2.0	2.6	3.5	Quantitative	2 days [#]	>2.0 m	+/- 0.3 m	High
048223	422030	New Angledool	NSW Office of Water	Automatic	1.8	2.0	2.3	Quantitative	2 days	>2.8m	+/- 0.3 m	High
423 – Wa	rrego Rive	r Valley			•				•			
548003	423004	Barringun 2	NSW Office of Water	Automatic	2.8	3.8	5.0	Quantitative	24 hrs	>2.8m	+/- 0.3 m	High
048039	423903	Enngonia	Bureau	Manual	2.0	2.5	3.0	Quantitative	24 hrs 2 days	>2.0m >3.1 m	+/- 0.3 m	High
548002	423002	Ford's Bridge Bywash	NSW Office of Water	Automatic	1.7	2.3	3.2	Quantitative	24 hrs	>2.3m	+/- 0.3 m	High
424 – Par	oo River V					1						
548008	424002	Willara Crossing	NSW Office of Water	Automatic	0.7	n/a	n/a	Quantitative	1 day [#]	>0.7m	+/- 0.3 m	High
048181	424001	Wanaaring	Bureau	Manual	2.4	3.3	4.0	Quantitative	3 days	>4.0 m	+/- 0.3 m	High

D	AWDO	Famoust			Flood	d classificatio	on (m)	Duo diation	Target warning lead time		70% 01 ————————————————————————————————————	
Bureau number	AWRC number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	- Prediction type	Time (hrs)	Trigger height (m)	forecasts within	Priority
416 – Ma	cintyre Riv	er Valley										
056242	416009	Inverell (Ross Hill)	Local Council	Manual	3.0	4.3	5.2	Quantitative	3 hrs [#]	>3.0 m	+/- 0.3 m	High
054145	416006	Ashford	NSW Office of Water	Automatic	2.2	4.0	6.0	Quantitative	3 hrs [#]	>2.2 m	+/- 0.3 m	High
554014	416058	Yetman Bridge	NSW Office of Water	Automatic	5.0	7.6	9.1	Quantitative	6 hrs#	>5.0 m	+/- 0.3 m	High
553029	416060	Boggabilla	NSW Office of Water	Automatic	5.0	11.5	12.0	Quantitative	6 hrs [#]	>5.0 m	+/- 0.3 m	High
425 - Bar	rwon Darlir	ng River										
056068	416001	Mungindi	NSW Office of Water	Automatic	6.1	6.7	7.2	Quantitative	24 hrs [#]	>6.1m	+/- 0.3 m	High
548000	422004	Mogil Mogil	NSW Office of Water	Automatic	7.5	n/a	8.3	Quantitative	24 hrs [#]	>7.5m	+/- 0.3 m	High
048226	422003	Collarenebri	NSW Office of Water	Automatic	5.8	7.9	8.5	Quantitative	24 hrs [#]	>5.8m	+/- 0.3 m	High
552014	422001	Walgett	NSW Office of Water	Automatic	10.5	12.0	12.5	Quantitative	24 hrs [#]	>10.5m	+/- 0.3 m	High
048214	422002	Brewarrina	NSW Office of Water	Automatic	6.4	7.0	9.5	Quantitative	3 days	>10m	+/- 0.3 m	High
548004	425003	Bourke	NSW Office of Water	Automatic	9.0	10.7	12.2	Quantitative	3 days	>13.2 m	+/- 0.3 m	High
548005	425004	Louth	NSW Office of Water	Automatic	8.6	9.2	10.0	Quantitative	3 days	>13.6 m	+/- 0.3 m	High
048213	425900	Tilpa	NSW Office of Water	Automatic	9.0	9.7	10.3	Quantitative	3 days	>12.2 m	+/- 0.3 m	High
546010	425002	Wilcannia	NSW Office of Water	Automatic	9.0	9.7	10.4	Quantitative	3 days	>10 m	+/- 0.3 m	High
047101	425001	Menindee	NSW Office of Water	Automatic	8.5	9.1	9.7	Quantitative	2 days	>8.8 m	+/- 0.3 m	High
047103	425005	Pooncarie	NSW Office of Water	Automatic	6.8	7.6	8.7	Quantitative	2 days [#]	>6.8m	+/- 0.3 m	High
547015	425007	Burtundy	NSW Office of Water	Automatic	6.1	n/a	7.7	Quantitative	2 days [#]	>6.1m	+/- 0.3 m	High
418 – Gw	ydir River	Valley										
556007	418008	Bundarra	NSW Office of Water	Automatic	8.0	9.1	10.7	Quantitative	3 hrs [#]	>8 m	+/- 0.3 m	High
054141	418013	Gravesend	NSW Office of Water	Automatic	6.1	9.4	12.0	Quantitative	12 hrs	>6.1 m	+/- 0.3 m	High
553000	418001	Pallamallawa	NSW Office of Water	Automatic	6.0	9.5	10.4	Quantitative	12 hrs	>6 m	+/- 0.3 m	High
553002	418004	Yarraman Bridge	NSW Office of Water	Automatic	4.0	6.5	7.0	Quantitative	12 hrs 24 hrs	5.5 m >7 m	+/- 0.3 m	High
553001	418002	Moree	NSW Office of Water	Automatic	5.5	7.6	8.8	Quantitative	12 hrs 24 hrs	>5.5 m >7.0 m	+/- 0.3 m	High
419 – Nar	moi and Pe	el River Valley										
055277	419022	Manilla	NSW Office of Water	Automatic	6.1	9.7	10.7	Quantitative	7 hrs	>6.1 m	+/- 0.3 m	High
055307	419009	Tamworth	NSW Office of Water	Automatic	3.0	4.2	6.0	Quantitative	6 hrs	>3 m	+/- 0.3 m	High
External	419909	Carroll Village	Local village	Manual	8.2	8.8	9.3	Quantitative	6 hrs [#]	>8.2 m	+/- 0.3 m	High
555000	419001	Gunnedah	NSW Office of Water	Automatic	7.3	7.6	7.9	Quantitative	24 hrs	>7.3 m	+/- 0.3 m	High

B	AWDO	F			Floor	d classificatio	on (m)	Base Bartina	Target warning lead time		70% Of	
Bureau number	AWRC number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	Prediction type	Time (hrs)	Trigger height (m)	forecasts within	Priority
419 – Nar	moi and Pe	el River Valley (c										
555013	419032	Boggabri	NSW Office of Water	Automatic	7.0	n/a	n/a	Quantitative	12 hrs	>7.0m	+/- 0.3 m	High
054152	419003	Narrabri Creek	NSW Office of Water	Automatic	4.9	6.4	6.7	Quantitative	6 hrs#	>4.9m	+/- 0.3 m	High
053105	419900	Wee Waa	NSW Office of Water	Automatic	5.3	6.4	6.7	Quantitative	12 hrs [#]	>5.3m	+/- 0.3 m	High
552000	419021	Bugilbone	NSW Office of Water	Automatic	4.9	5.5	n/a	Quantitative	12 hrs#	>4.9m	+/- 0.3 m	High
552011	419026	Goangra	NSW Office of Water	Automatic	5.5	6.7	7.8	Quantitative	12 hrs#	>5.5 m	+/- 0.3 m	High
420 - Cas	stlereagh F	River Valley										
064015	420004	Mendooran	NSW Office of Water	Automatic	3.3	5.0	9.0	Quantitative	6 hrs#	>3.3m	+/- 0.3 m	High
051144	420001	Gilgandra	Local Council	Manual	5.0	6.4	7.9	Quantitative	6 hrs#	>5.0m	+/- 0.3 m	High
051143	420005	Coonamble	Local Council	Manual	n/a	4.9	5.2	Quantitative	6 hrs#	>4.9m	+/- 0.3 m	High
421 – Ma	cquarie Riv	ver Valley										
063287	421908	Bathurst	Local Council	Automatic	3.0	4.5	5.7	Quantitative	12 hrs	>6m	+/- 0.3 m	High
565002	421003	Wellington- Macquarie	NSW Office of Water	Automatic	4.0	9.1	12.2	Quantitative	3 hrs [#]	>4.0m	+/- 0.3 m	High
562006	421008	Wellington-Bell	Local Council	Manual	3.4	5.9	8.4	Quantitative	3 hrs#	>3.4m	+/- 0.3 m	High
563026	421911	Molong – Wellington Bridge ^	Local Council	Manual	n/a	3.3	3.9	Quantitative	1 hr [#]	>3.3m	+/- 0.3 m	High
n/a	n/a	Orange	No specific forecast loca rainfall thre	ation exists – fore eshold as per trig			ice of a	Generalised	1 hr	>70mm in 6rs	n/a	n/a
565001	421001	Dubbo	NSW Office of Water	Automatic	5.5	7.9	11.0	Quantitative	6hrs [#]	>5.5m	+/- 0.3 m	High
551000	421006	Narromine	Local Council	Manual	5.5	9.1	13.7	Quantitative	6hrs#	>5.5m	+/- 0.3 m	High
051145	421014	Warren	NSW Office of Water	Automatic	7.5	8.5	9.0	Quantitative	12hrs#	>7.5m	+/- 0.3 m	High
421 – Bog	gan River \	/alley										_
550001	421076	Peak Hill	NSW Office of Water	Automatic	2.5	4.6	6.0	Quantitative	3 hrs#	>2.5m	+/- 0.3 m	High
551002	421083	Dandaloo	NSW Office of Water	Automatic	4.1	5.2	6.0	Quantitative	12 hrs#	>4.1m	+/- 0.3 m	High
051155	421905	Mudall	Bureau	Manual	2.7	3.0	3.6	Quantitative	24 hrs#	>2.7m	+/- 0.3 m	High
051156	421138	Nyngan	NSW Office of Water	Automatic	n/a	3.5	4.2	Quantitative	24 hrs#	>3.5m	+/- 0.3 m	High
048225	421902	Mulgawarrina	Bureau	Manual	4.2	5.0	5.5	Quantitative	24 hrs#	>4.2m	+/- 0.3 m	High
548010	421023	Gongolgon	NSW Office of Water	Automatic	0.8	1.0	1.3	Quantitative	24 hrs#	>0.8m	+/- 0.3 m	High
412 – Lac	hlan River	Valley										
063278	412002	Cowra	NSW Office of Water	Automatic	8.5	10.7	13.4	Quantitative	6 hrs	>8.5 m	+/- 0.3 m	High
565013	421195	Canowindra	NSW Office of Water	Automatic	4.0	4.5	5.5	Quantitative	3 hrs#	>4.0m	+/- 0.3 m	High
565007	412057	Nanami	NSW Office of Water	Automatic	7.4	9.7	10.7	Quantitative	6 hrs 12 hrs	>7.4m >10.7m	+/- 0.3 m	High

Demonstr	AWDC	Farraget			Flood	d classificatio	on (m)	Dradiation		warning I time	70% of	
Bureau number	AWRC number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	Prediction type	Time (hrs)	Trigger height (m)	peak forecasts within	Priority
		Valley (continue	ed)									
065013	412904	Eugowra-town	Bureau	Manual	8.0	n/a	9.0	Quantitative	6 hrs [#]	>8.0m	+/- 0.3 m	High
065088	412901	Forbes	Local Council	Automatic	8.8	9.5	10.55	Quantitative	12 hrs	>8.8 m	+/- 0.3 m	High
									24 hrs	>10.4 m		
565003	412004	Cottons Weir	NSW Office of Water	Automatic	3.5	5.3	6.6	Quantitative	24 hrs*	>3.5m	+/- 0.3 m	High
565000	412036	Jemalong Weir	NSW Office of Water	Automatic	7.2	7.5	7.7	Quantitative	48 hrs	>7.2 m	+/- 0.3 m	High
550000	412006	Condobolin	NSW Office of Water	Automatic	5.2	5.9	6.7	Quantitative	48 hrs	>5.2 m	+/- 0.3 m	High
049125	412903	Euabalong	Bureau	Manual	6.4	n/a	6.8	Quantitative	3 days	>5.8 m	+/- 0.3 m	High
575013	412039	Hillston Weir	NSW Office of Water	Automatic	2.4	2.8	3.0	Quantitative	3 days#	>2.4 m	+/- 0.3 m	High
075171	412005	Booligal Weir	NSW Office of Water	Automatic	2.4	n/a	n/a	Quantitative	3 days#	>2.4 m	+/- 0.3 m	High
410 – Qu	eanbeyan l	Molonglo River V	alley									
570033	410901	Queanbeyan	Local Council	Manual	4.2	7.4	8.2	Quantitative	6 hrs	>4.2m	+/- 0.3 m	High
570943	410729	Oaks Estate	ACT Government	Automatic	4.6	5.8	6.4	Quantitative	6 hrs	>4.5m	+/- 0.3 m	High
410 – Mu	rrumbidge	e River Valley										
n/a	n/a	Cootamundra	No specific forecast loca	ntion exists – fore	cast based	d on exceeden	ce of a	Generalised	1 hr#	>70mm	n/a	n/a
			rainfall thre	shold as per trigg	ger height	column.				in 6hrs		
570031	410902	Cooma SMEC	Local Council	Automatic	n/a	n/a	1.8	Quantitative	1 hr [#]	>1.8 m	+/- 0.3 m	High
570035	410081	Cooma – Koolaroo	Local Council	Automatic	n/a	n/a	3.8	Quantitative	1 hr [#]	>3.8m	+/- 0.3 m	High
572014	410006	Tumut	NSW Office of Water	Automatic	2.0	2.6	3.7	Quantitative	3 hrs#	>2.0 m	+/- 0.3 m	High
073132	410004	Gundagai	NSW Office of Water	Automatic	6.1	7.6	8.5	Quantitative	12 hrs	>6.1 m	+/- 0.3 m	High
573000	410001	Wagga Wagga	NSW Office of Water	Automatic	7.3	9.0	9.6	Quantitative	12 hrs 24 hrs 30 hrs	7.3 m 9.0 m >9.6 m	+/- 0.3 m	High
574020	410005	Narranderra	NSW Office of Water	Automatic	6.7	7.3	8.2	Quantitative	5 days	6.7 m	+/- 0.3 m	High
575011	410021	Darlington Point	NSW Office of Water	Automatic	5.5	7.0	7.3	Quantitative	7 days	5.5 m	+/- 0.3 m	High
075170	410078	Carrathool	NSW Office of Water	Automatic	7.0	7.5	8.5	Quantitative	10 days	7.0 m	+/- 0.3 m	High
575010	410002	Hay-town	Local Council	Manual	6.5	7.5	8.0	Quantitative	10 days	6.5 m	+/- 0.3 m	High
549001	410130	Balranald- Weir	NSW Office of Water	Automatic	6.5	7.5	8.0	Quantitative	10 days	>6.5 m	+/- 0.3 m	High
409 – Mu	rray River	Valley				•		•				
572000	409001	Albury	NSW Office of Water	Automatic	4.3	4.9	5.5	Quantitative	12 hrs	>5.5 m	+/- 0.3 m	High
582003	409002	Corowa	NSW Office of Water	Automatic	4.6	5.9	8.6	Quantitative	24 hrs	>6.0 m	+/- 0.3 m	High

Bureau	AWRC	Foreset			Flood	d classificatio	on (m)	- Prediction		warning I time	70% of	
Bureau number	number	Forecast location	Station owner	Gauge type	Minor	Moderate	Major	type	Time (hrs)	Trigger height (m)	peak forecasts within	Priority
409 – Mu	rray River	Valley (continued	d)									
074246	409025	Yarrawonga D/S	NSW Office of Water	Automatic	6.4	6.7	7.8	Quantitative	24 hrs*	>6.4 m	+/- 0.3 m	High
574004	409202	Tocumwal	Murray Darling Basin Authority	Automatic	6.4	6.7	7.3	Quantitative	24 hrs*	>6.4 m	+/- 0.3 m	High
574000	409200	Moama/ Echuca	Murray Darling Basin Authority	Automatic	93.5	93.9	94.4	Quantitative	24 hrs#	>93.5 m	+/- 0.3 m	High
574003	409207	Torumbarry Weir	Murray Darling Basin Authority	Automatic	7.3	7.6	7.8	Quantitative	24 hrs*	>7.3 m	+/- 0.3 m	High
575000	409005	Barham	NSW Office of Water	Automatic	5.5	5.8	6.1	Quantitative	24 hrs*	>5.5 m	+/- 0.3 m	High
076112	409204	Swan Hill	Murray Darling Basin Authority	Automatic	4.5	4.6	4.7	Quantitative	24 hrs*	>4.5 m	+/- 0.3 m	High
574010	409003	Deniliquin	NSW Office of Water	Automatic	4.6	7.2	9.4	Quantitative	24 hrs#	>4.6 m	+/- 0.3 m	High
575001	409014	Moulamein	NSW Office of Water	Automatic	4.6	5.2	6.1	Quantitative	24 hrs#	>4.6 m	+/- 0.3 m	High
574024	409023	Stevens Weir	NSW Office of Water	Automatic	5.5	5.8	6.6	Quantitative	24 hrs#	>5.5 m	+/- 0.3 m	High
049115	414213	Euston Weir	Murray Darling Basin Authority	Automatic	9.1	9.8	10.3	Quantitative	24 hrs*	>9.1m	+/- 0.3 m	High
076124	414210	Mildura AHD	Murray Darling Basin Authority	Automatic	36.0	37.5	38.5	Quantitative	24 hrs*	>36.0 m	+/- 0.3 m	High
047100	425010	Wentworth Weir	NSW Office of Water	Automatic	7.3	7.9	9.1	Quantitative	24 hrs*	>7.3 m	+/- 0.3 m	High
076120	414200	Wakool Junction	Murray Darling Basin Authority	Automatic	8.8	10.5	11.5	Quantitative	24 hrs#	>8.8 m	+/- 0.3 m	High
076135	414201	Boundary Bend	Murray Darling Basin Authority	Automatic	8.0	8.5	9.0	Quantitative	24 hrs [#]	>8.0 m	+/- 0.3 m	High

Notes:

- # = Provisional flood classification or Warning Lead time not specified in Annex C of the New South Wales State Flood Plan
- ^ = Indicates one of the 13 identified locations where forecasts are provided for small catchments.
- All levels are in metres to local gauge datums unless indicated otherwise.
- AHD Australian Height Datum. See Geoscience Australia for further information.
- n/a: Refers to stations flood classifications have not yet been defined by the New South Wales SES.
- u/s: Refers to upstream levels acting as a trigger for forecasts at the given location.

Service Level Specification for Flood Forecasting and Warning Services for New South Wales

- AWRC number: Australian Water Resources Council number
- MHL: Manly Hydraulics Laboratory
- NSW OEH: NSW office of Environment and Heritage

Schedule 3a: Information locations with flood class levels defined

Bureau	AWRC	Station name	Station owner	Gauge	Flo	od classification (m)	Priority	
number number				type	Minor	Moderate	Major	
207 - Hast	ings/Camde	n Haven						
560045	207423	North Haven *	NSW OEH – Manly Hydraulics Laboratory	Automatic	1.0	1.5	1.7	High
208 - Mani	ning							
060017	208440	Mount George *	NSW OEH – Manly Hydraulics Laboratory	Automatic	5.5	7.6	10.6	High
210 - Hunt	er							
561032	210406	Paterson #	NSW OEH – Manly Hydraulics Laboratory	Automatic	6.1	7.6	9.1	Medium
561022	210448	Hexham *	NSW OEH – Manly Hydraulics Laboratory	Automatic	1.9	2.9	3.8	High
561088	210456	Stockton	NSW OEH – Manly Hydraulics Laboratory	Automatic	1.2	1.3	1.7	High
418 – Gwy	dir							
554009	418025	Bingara	NSW Office of Water	Automatic	5.5	7.6	9.1	High
419 – Nam	oi							
055310	419027	Breeza *	NSW Office of Water	Automatic	n/a	3.9	4.8	High
555033	419910	Peel River at Pearly	Local Council	Automatic	n/a	n/a	n/a	High
		Gates *						
412 - Lach	ılan							
065095	412030	Eugowra Smithfield *	NSW Office of Water	Automatic	6.5	8.1	8.5	High
575006	412011	Lake Cargellico #	NSW Office of Water	Automatic	1.5	1.9	2.0	High
410 – Quea	anbeyan/Mol	onglo						
570965	410734	Tinderry – NSW *	ACT Government	Automatic	3.0	3.8	5.0	High
570938	410760	Wickerslack – NSW *	ACT Government	Automatic	2.0	4.0	5.0	High
570012	410705	Burbong – NSW *	ACT Government	Automatic	1.6	2.2	2.8	High
410 – Murr	umbidgee							
570003	410761	Lobbs Hole - ACT #	ACT Government	Automatic	4.5	11.0	13.0	Medium
570017	410738	Mt MacDonald *	ACT Government	Automatic	3.2	9.2	10.0	High

Notes:

- n/a refers to locations at which the New South Wales State Emergency Service have yet to define flood classifications for.
- All levels are in metres to local gauge datums unless indicated otherwise.
- All flow rates are in cubic metres per second (m3/sec) unless indicated otherwise
- n/a indicates flood class levels not yet determined
- All levels indicate flooding in the local reaches of the stream
- AHD Australian Height Datum. See Geoscience Australia for further information
- AWRC number: Australian Water Resources Council number

Service Level Specification for Flood Forecasting and Warning Services for New South Wales

• NSW OEH: NSW Office of Environment and Heritage

Schedule 3b: River and rainfall alert conditions

River alerting stations

Basin	Station name	Criteria	Priority
Namoi/Peel	Nundle (Pearly Gates)	3.0m (assumed datum)	High

Rainfall alerting stations

Basin	Station name	Criteria	Priority
Cooma	Cooma (Benefield)	20mm in 30 minutes	High
Cooma	Cooma (Bondo)	20mm in 30 minutes	High
Cooma	Cooma (Cherry Tree)	20mm in 30 minutes	High
Cooma	Cooma (Myalla Lake)	20mm in 30 minutes	High
Cooma	Cooma (Willarney)	20mm in 30 minutes	High
Cooma	Cooma (Willow Grove)	20mm in 30 minutes	High
Cooma	Cooma SMEC (Back Ck)	20mm in 30 minutes	High
Cooma	Koolaroo (Cooma Creek)	20mm in 30 minutes	High
Molong	Molong (Bonnie Doon)	25mm in 30 minutes	High
Molong	Molong TM	25mm in 30 minutes	High
Molong	Borenore (Lyden Brae)	25mm in 30 minutes	High
Namoi/Peel	Nundle (Head of Peel)	20mm in 30 minutes	High
Namoi/Peel	Nundle (Keeva)	20mm in 30 minutes	High
Namoi/Peel	Nundle (Malonga)	20mm in 30 minutes	High
Namoi/Peel	Nundle (Pearly gates)	20mm in 30 minutes	High
Namoi/Peel	Crawney mountain	20mm in 30 minutes	High
Murrumbidgee	Stockinbingal (Sunnydale)	25mm in 30 minutes	High
Orange	Canobolas (Hillview)	20mm in 30 minutes	High
Orange	Orange (Agriculture)	20mm in 30 minutes	High
Orange	Canobolas (Hillview)	20mm in 30 minutes	High
Orange	Orange (Kite St)	20mm in 30 minutes	High
Orange	Orange (North Orange WTP)	20mm in 30 minutes	High
Orange	Orange (Spring Ck WTP)	20mm in 30 minutes	High
Orange	Orange (STP)	20mm in 30 minutes	High

Schedule 4: River data locations

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
201 – Tweed Va	alley				
058204	201906	BOAT HARBOUR	Local Council	Automatic	High
558077	201005	BOAT HARBOUR (NOBBYS CREEK)	DPI Water	Automatic	Low
558065	201455	BRAY PARK WEIR	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
058011	201008	CHILLINGHAM	Local Council	Automatic	High
558028	201905	CLARRIE HALL DAM	Local Council	Automatic	Low
558009	n/a	CLARRIE HALL DAM D/S	Local Council	Automatic	Low
558045	201448	COBAKI	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
558029	201428	DRY DOCK (TERRANORA INLET)	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
058193	201001	EUNGELLA	DPI Water	Automatic	High
558051	201422	KYNNUMBOON	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558041	201429	LETITIA 2A	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558067	201465	MURWILLUMBAH BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
558018	n/a	PALMERS ROAD	Local Council	Automatic	Low
558056	201447	TERRANORA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558011	201472	TWEED ENTRANCE SOUTH	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
558014	201432	TUMBULGUM	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
558088	n/a	TYALGUM BRIDGE	Local Council	Automatic	Medium
058167	201900	UKI	DPI Water	Automatic	High
202 – Brunswic					
558043	202416	BOGANGAR	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558063	202403	BRUNSWICK HEADS	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558050	202418	KINGSCLIFF	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558005	202901	MIDDLE POCKET	Local Council	Automatic	High
558004	202903	THE POCKET	Local Council	Automatic	High
558008	202904	MULLUMBIMBY CREEK	Local Council	Automatic	High
558007	202001	SHERRYS BRIDGE (DURRUMBUL)	DPI Water	Automatic	High
558095	n/a	WOOYUNG RD	North Byron Parklands – Manly Hydraulics Laboratory	Automatic	Medium
558096	n/a	YELGUN	North Byron Parklands – Manly Hydraulics Laboratory	Automatic	Medium
	d/Wilsons Valle	/ <u></u>			
558097	203471	BALLINA	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
058202	203009	BENTLEY	DPI Water	Automatic	High
558044	203461	BYRNES POINT	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558013	203004	CASINO (AUTOMATIC)	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
	nd/Wilsons Valle	y (continued)		-, -,,,,,	
058206	203909	CORNDALE	DPI Water	Automatic	High
558037	203034	DOUBTFUL	DPI Water	Automatic	High
558047	203427	EAST GUNDERIMBA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
058200	203014	ELTHAM	DPI Water	Automatic	High
558048	203462	EVANS HEAD	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558075	n/a	GOOLMANGAR	Local Council	Automatic	Medium
558052	203455	LAKE AINSWORTH	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
558087	n/a	LISMORE DAWSON STREET	Local Council	Automatic	Medium
058162	203902	NASHUA	Local Council	Automatic	High
058180	203901	NIMBIN	Local Council	Automatic	High
558015	203030	RAPPVILLE (MYRTLE CK)	DPI Water	Automatic	High
558000	203002	REPENTANCE	DPI Water	Automatic	High
058199	203010	ROCK VALLEY	DPI Water	Automatic	High
558070	n/a	TEVEN	DPI Water	Automatic	Low
058147	203906	THE CHANNON	DPI Water	Automatic	High
External	203023	TOONUMBAR DAM D/S	DPI Water	Automatic	Medium
558039	203042	TOONUMBAR DAM WL	DPI Water	Automatic	Medium
058201	203443	TUNCESTER	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
558054	203432	ROCKY MOUTH CREEK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558038	203041	YORKLEA	DPI Water	Automatic	High
558076	n/a	TUCKURIMBA (BAXTER LANE)	Local Council	Automatic	Low
558058	203480	TUCOMBIL HIGHWAY BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
058061	203412	WOODBURN	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
558012	203402	WOODLAWN	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
204 - Clarence	Valley				_
557011	204030	ABERFOYLE	DPI Water	Automatic	High
057114	204900	BARYULGIL	DPI Water	Automatic	High
558074	204041	BAWDEN BRIDGE	DPI Water	Automatic	High
560032	204003	BILLYRIMBA	DPI Water	Automatic	High
557004	204043	BONALBO	DPI Water	Automatic	Medium
057116	204015	BROADMEADOWS	DPI Water	Automatic	High
558027	204406	BRUSHGROVE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
058181	204903	COPMANHURST	Local Council	Manual	Medium
559025	204017	DORRIGO	DPI Water	Automatic	High
557007	204046	DRAKE	DPI Water	Automatic	High
557009	204008	EBOR	DPI Water	Automatic	High
557008	204056	GIBRALTAR RANGE	DPI Water	Automatic	Low

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
	Valley (continue	ed)		typo	
059123	204906	GLENREAGH (u/s automatic)	DPI Water	Automatic	High
058178	204904	GRAFTON-PRINCE ST (manual)	Local Council	Manual	Medium
058158	204902	HEIFER STATION (manual)	Local Council	Manual	Medium
057113	204004	JACKADGERY	DPI Water	Automatic	High
559023	204025	KARANGI	DPI Water	Automatic	High
557005	204007	LILYDALE	DPI Water	Automatic	High
557003	204014	MITCHELL	DPI Water	Automatic	High
059124	204001	NYMBOIDA	DPI Water	Automatic	High
558040	204069	NYMBOIDA R D/S NYMBOIDA WEIR	DPI Water	Automatic	Medium
559018	204068	ORANGE GROVE	DPI Water	Automatic	High
558042	204426	PALMERS CHANNEL	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
558055	204414	ROGANS BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
556024	204036	SANDY HILL	DPI Water	Automatic	High
556023	204031	SHANNON VALE	DPI Water	Automatic	Medium
557000	204002	TABULAM	DPI Water	Automatic	High
558073	204465	TYNDALE (COLDSTREAM RIVER JUNCTION)	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
556026	204039	WYLIE CREEK	DPI Water	Automatic	Medium
205 – Bellinger	and Nambucca	Valleys			
n/a	205425	BOWRAVILLE DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
559045	205015	BOWRAVILLE UPSTREAM	DPI WATER	Automatic	High
n/a	205490	WARRELL CREEK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
559055	n/a	COFFS HARBOUR (BAKERS RD)	Local Council	Automatic	Low
559057	n/a	COFFS HARBOUR (BRAY STREET)	Local Council	Automatic	Low
559059	n/a	COFFS HARBOUR (ENGLANDS ROAD)	Local Council	Automatic	Low
559058	n/a	COFFS HARBOUR (GUNDAGAI STREET)	Local Council	Automatic	Low
559053	n/a	COFFS HARBOUR (INDUSTRIAL DRIVE)	Local Council	Automatic	Low
559056	n/a	COFFS HARBOUR (LOADERS LANE)	Local Council	Automatic	Low
559054	n/a	COFFS HARBOUR (SAWTELL)	Local Council	Automatic	Low
559014	205470	COFFS INNER HARBOUR	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
559047	205016	FOSTERS	DPI Water	Automatic	Medium
559004	205014	GLENNIFFER	DPI Water	Automatic	High
559008	205440	KOOROOWI	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
559039	205460	NEWPORTS CREEK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
559020	205458	NEWRY ISLAND	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
559042	205466	STUARTS ISLAND DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
559005	205414	UTUNGUN TAYLORS ARM	NSW OEH – Manly Hydraulics Laboratory	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
205 – Bellinger	and Nambucca	Valleys (continued)			
559043	205441	WOOLGOOLGA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
559044	205462	WOOLI RIVER ENTRANCE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
206 - Macleay	Valley				
559151	206459	ALDAVILLA DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
557012	206018	APSLEY FALLS	DPI Water	Automatic	High
557013	206033	APSLEY GORGE	DPI Water	Automatic	High
559003	206405	BELMORE ENTRANCE	Local Council	Automatic	Low
559029	n/a	BELMORE US FLOODGATES	Local Council	Automatic	Low
559032	n/a	CLYBUCCA CK US FLOODGATES	Local Council	Automatic	Low
557006	206002	CONINSIDE (WOLLOMOMBI)	DPI Water	Automatic	High
559037	n/a	COOLAMBATTI	Local Council	Automatic	Low
556022	206037	DUMARESQ DAM D/S	DPI Water	Automatic	Low
External	206906	GLEN FORRES	DPI Water	Automatic	Medium
557002	206001	JEOGLA	NSW Office of Water	Automatic	High
559013	206459	JERSEYVILLE	Local Council	Automatic	Low
559031	206460	KINCHELA DS FLOODGATES	Local Council	Automatic	Low
559010	206426	KINCHELA CREEK	Local Council	Automatic	Low
556016	206027	KIRBY FARM	Local Council	Automatic	High
059056	206900	KOGAL	Local Council	Automatic	High
059128	206039	MALPAS DAM	DPI Water	Automatic	Low
059128	206904	MOPARRABAH	Local Council	Automatic	High
556020	206026	NEWHOLME	DPI Water	Automatic	High
559035	n/a	PLUMMERS LANE	Local Council	Automatic	Low
559036	n/a	RAINBOW BEACH	Local Council	Automatic	Low
559034	n/a	SEVEN OAKS	Local Council	Automatic	Low
559026	206601	SEALE ROAD	Local Council	Automatic	Low
559041	206456	SOUTH WEST ROCKS	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
057112	206009	TIA	DPI Water	Automatic	High
556021	206008	TIVERTON	NSW Office of Water	Automatic	Low
559038	206907	TOOROOKA	Local Council	Automatic	High
559002	206011	TURNERS FLAT	DPI Water	Automatic	High
556033	206038	URANDANGIE	NSW Office of Water	Automatic	Low
556031	206035	WILLOW GLEN	DPI Water	Automatic	Low
059125	206903	WITTITRIN	Local Council	Automatic	High
207 - Hastings	/Camden Haven	Valley			
560033	207014	AVENAL	DPI Water	Automatic	High
060138	207010	BEECHWOOD	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
207 - Hastings/		Valley (continued)			
560031	207006	BIRDWOOD	DPI Water	Automatic	High
560000	207013	BUNOO RIVER D/S ELLENBOROUGH	NSW Office of Water	Automatic	High
559033	207452	CRESCENT HEAD	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
560042	207444	DENNIS BRIDGE DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
560022	207909	HERONS CREEK BRIDGE	Local Council	Automatic	High
560020	207442	KOREE ISLAND	Local Council	Automatic	Low
560016	207904	LONG FLAT	Local Council	Automatic	High
560025	n/a	LORNE BRIDGE	Local Council	Automatic	Medium
560003	207406	MARIA RIVER (GREEN VALLEY)	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560002	207015	MT SEAVIEW	DPI Water	Automatic	High
560045	207423	NORTH HAVEN	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560046	207422	PORT MACQUARIE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
560012	207906	REDOAK	Local Council	Automatic	High
056047	207437	WEST HAVEN	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
560011	207415	TELEGRAPH POINT	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560064	207905	TELEGRAPH POINT (COUNCIL)	Local Council	Automatic	Medium
560010	207908	UPSALLS CREEK BRIDGE	Local Council	Automatic	High
208 – Manning					
060128	208009	BARRY	DPI Water	Automatic	High
560065	208436	ASHLEA BRIDGE D/S (DINGO CK)	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560060	208028	WAUKIVORY	DPI Water	Automatic	High
560063	208907	BELLEVUE	DPI Water	Automatic	High
060137	208011	BRETTI (MACKAY)	DPI Water	Automatic	High
560008	208404	CROKI	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560051	208471	CROWDY BOAT HARBOUR (TIDAL)	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560006	208003	DOON AYR	DPI Water	Automatic	High
560041	208415	FARQUHAR INLET	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560001	208006	FORBESDALE (BARRINGTON R)	DPI Water	Automatic	High
560061	208008	FORBESDALE (GLOCESTER R)	DPI Water	Automatic	High
060129	208004	KILLAWARRA	DPI Water	Automatic	High
560037	208015	LANSDOWNE	DPI Water	Automatic	High
060017	208440	MOUNT GEORGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560035	208007	NOWENDOC	DPI Water	Automatic	Medium
060118	208005	ROCKS CROSSING	DPI Water	Automatic	High
209 – Karuah V	alley				
560059	209905	COOMBA PARK	Local Council	Automatic	Low
560058	209904	CRAWFORD PARK	Local Council	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
209 – Karuah V	alley (continued				
560044	209470	FORSTER TIDE GAUGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
561106	209485	KARUAH	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561040	209003	KARUAH R AT BOORAL	DPI Water	Automatic	Low
561060	209461	MALLABULA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561104	209902	MARKWELL (MYALL R)	Local Council	Automatic	High
560048	209404	NABIAC	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
n/a	209406	PACIFIC PALMS WHARF	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
n/a	209474	SHOAL BAY	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
560053	209401	TUNCURRY WALLAMBA R	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
560056	209903	UPPER MARKWELL	Local Council	Automatic	High
560049	209006	WILLINA (WANG WAUK RIVER)	DPI Water	Automatic	High
210 - Hunter V	alley				
561024	210056	ABERDEEN	DPI Water	Automatic	High
561042	210039	BELLTREES	DPI Water	Automatic	Medium
061372	210061	BLANDFORD	DPI Water	Automatic	High
561061	210459	BOLWARRA UPSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561071	210451	BOLWARRA DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561058	210135	BRICKMANS BRIDGE	DPI Water	Automatic	High
External	210033	CAMYR ALLYN	DPI Water	Automatic	High
561108	210114	CARROWBROOK	DPI Water	Automatic	Medium
561059	210007	CHICHESTER	DPI Water	Automatic	High
External	210006	COGGAN	DPI Water	Automatic	High
561101	210906	CRESSFIELD	DPI Water	Automatic	High
561075	210409	DUNMORE	DPI Water	Automatic	Medium
561055	210130	FOY BROOK D/S BOWMANS CK BRIDGE	DPI Water	Automatic	Medium
561012	210097	GLENBAWN DAM WL	DPI Water	Automatic	High
061185	210015	GLENBAWN DAM D/S	DPI Water	Automatic	High
External	210071	GLENDON BROOK	DPI Water	Automatic	Medium
561049	210117	GLENNIES CREEK DAM WL	DPI Water	Automatic	High
561021	210432	GREEN ROCKS	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561016	210064	GRETA	DPI Water	Automatic	High
061348	210052	GUNDY	DPI Water	Automatic	High
561019	210022	HALTON	DPI Water	Automatic	High
561022	210448	HEXHAM BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
561023	210410	HINTON BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561121	210908	CROUDACE RD,NEWCASTLE	Local Council	Automatic	High
561120	210909	KATORA (NEWCASTLE)	Local Council	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
210 – Hunter Va	alley (continued)				
062094	210016	KERRABEE	DPI Water	Automatic	High
561017	210083	LIDDELL PUMP STN	DPI Water	Automatic	High
561047	210110	LIDDELL (BAYSWATER CK)	DPI Water	Automatic	Low
561011	210021	LOSTOCK DAM D/S	DPI Water	Automatic	High
561013	210102	LOSTOCK DAM WL	DPI Water	Automatic	Low
561053	210128	MAISON DIEU	DPI Water	Automatic	High
561064	210455	MCKIMMS CORNER	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
External	210091	MERRIWA	DPI Water	Automatic	Medium
561014	210044	MIDDLE FALBROOOK	DPI Water	Automatic	High
561103	210018	MOONAN DAM SITE	DPI Water	Automatic	Medium
561041	210017	MOONAN BROOK	DPI Water	Automatic	Medium
561002	210430	MORPETH	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561039	210475	OAKHAMPTON BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
61373	210093	PARKVILLE	DPI Water	Automatic	High
561032	210406	PATERSON D/S RAILWAY BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561046	210089	ROTHBURY	DPI Water	Automatic	High
561007	210014	ROUCHEL BROOK	DPI Water	Automatic	High
561008	210031	SANDY HOLLOW	DPI Water	Automatic	High
561087	210462	SEAHAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561099	210907	SCONE (DRY CREEK)	Local Council	Automatic	High
561088	210456	STOCKTON BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561045	210084	THE ROCKS NO.2	DPI Water	Automatic	High
561033	210011	TILLIGRA	DPI Water	Automatic	High
561050	210125	U/S BAYSWATER CK JN	DPI Water	Automatic	Medium
561051	210126	U/S FOY BROOK	DPI Water	Automatic	Medium
561052	210127	U/S GLENNIES CK	DPI Water	Automatic	Medium
561054	210129	U/S SINGLETON	DPI Water	Automatic	Medium
561130	210066	U/S VALLANCE	DPI Water	Automatic	Medium
561020	210079	VACY	DPI Water	Automatic	Medium
561093	210428	WALLIS CREEK UPSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561095	210457	WALLIS CREEK DOWNSTREAM	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561094	210453	WALLIS CREEK AT LOUTH PARK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561006	210004	WARKWORTH	DPI Water	Automatic	High
561009	210040	WYBONG	DPI Water	Automatic	High
561018	210124	YARRANDI BRIDGE	DPI Water	Automatic	Medium
		es/Wyong Valley			
561068	211450	BARNSLEY VALE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
211 - Macquai	rie-Tuggerah La	kes/Wyong Valley (continued)			
561073	211455	COCKLE RAILWAY STATION	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561074	211470	COORANBONG	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
061383	211991	GEARS	Local Council	Automatic	High
561038	211009	GRACEMERE	DPI Water	Automatic	High
061380	211010	JILLIBY	DPI Water	Automatic	High
561062	211475	KALANG RD	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
061384	211990	KANGY ANGY	Local Council	Automatic	High
561063	211460	MARMONG POINT	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
561152	211912	OURIMBAH	Local Council	Automatic	Low
561034	211013	OURIMBAH CK U/S WEIR	DPI Water	Automatic	Medium
561086	211425	OURIMBAH CK AT LEES BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561131	211913	PORTERS CREEK	Local Council	Automatic	Low
561089	211480	STOCKTON CREEK (MORRISET)	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561090	211462	SWANSEA CHANNEL	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
561000	211401	TOUKLEY - TUGGERAH LAKE	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
561092	211419	TUMBI UMBI CREEK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
561066	211417	U/S WYONG WEIR	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
561091	211420	WALLARAH CREEK (BRIDGE)	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
061386	211992	WYONG BRIDGE U/S	Local Council	Automatic	High
561031	211014	YARRAMALONG	NSW Office of Water	Automatic	High
212 - Central C	oast	·	•		
561129	212911	ERINA HEIGHTS	Local Council	Automatic	Low
561128	212912	KINCUMBER CREEK	Local Council	Automatic	Low
561126	212435	NARARA	Local Council	Automatic	Low
561127	212913	WEST GOSFORD	Local Council	Automatic	Low
212 - Nepean/l	lawkesbury Val	ley	•		
568142	212211	AVON DAM WL	Sydney Catchment Authority	Automatic	Medium
568211	212204	AVON DAM ROAD	Sydney Catchment Authority	Automatic	High
568215	n/a	BERRIMA	Sydney Catchment Authority	Automatic	Low
568156	212233	BROUGHTONS PASS	Sydney Catchment Authority	Automatic	High
567045	212404	CASTLEREAGH	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
568143	212232	CATARACT DAM WL	Sydney Catchment Authority	Automatic	High
563039	212260	CEDAR FORD	Sydney Catchment Authority	Automatic	High
068211	212220	CORDEAUX DAM WL	Sydney Catchment Authority	Automatic	High
563010	212427	EBENEEZER	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
563011	212410	FREEMANS REACH	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
563075	212018	GLEN DAVIS	DPI Water	Automatic	Medium

Bureau	AWRC	Station name	Owner	Gauge	Priority
number	number			type	
	lawkesbury Vall		O les Ortal ment A the St	A (1.12 - 1
568152	212271	GOLDEN VALLEY	Sydney Catchment Authority	Automatic	High
068215	212009	GREENSTEAD	Sydney Catchment Authority	Automatic	High
561076	212429	GUNDERMAN CARAVAN PARK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
563024	212025	GROSEWOLD	Sydney Catchment Authority	Automatic	High
561036	212021	HOWES VALLEY	Sydney Catchment Authority	Automatic	Medium
568144	212270	JOORILAND	Sydney Catchment Authority	Automatic	High
563000	212250	KELPIE POINT	Sydney Catchment Authority	Automatic	High
561125	n/a	LISAROW	Sydney Catchment Authority	Automatic	Low
563074	212011	LITHGOW	NSW Office of Water	Automatic	Low
568171	212238	MENANGLE WEIR	Sydney Catchment Authority	Automatic	High
570027	212217	MURRAYS FLAT	Sydney Catchment Authority	Automatic	Medium
068212	212205	NEPEAN DAM WL	Sydney Catchment Authority	Automatic	High
563021	212203	PHEASANTS NEST	Sydney Catchment Authority	Automatic	High
568172	212053	PICTON	DPI Water	Automatic	Low
568140	212280	SMALLWOOODS CROSSING	Sydney Catchment Authority	Automatic	Low
567070	212915	SOUTH CREEK (ELIZABETH DR)	Sydney Catchment Authority	Automatic	Medium
567071	212916	GT WESTERN HWY	Sydney Catchment Authority	Automatic	Medium
561065	212431	SPENCER	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
061353	212010	ST ALBANS	DPI Water	Automatic	High
563069	212280	THE CAUSEWAY	Sydney Catchment Authority	Automatic	High
563033	212290	UPPER COLO	Sydney Catchment Authority	Automatic	High
563076	212054	WALLERAWANG	DPI Water	Automatic	Low
563077	212055	WALLERAWANG COLLIERY U/S	DPI Water	Automatic	Low
567099	212243	WARRAGAMBA DAM	Sydney Catchment Authority	Automatic	High
568214	n/a	WEROMBI	DPI Water	Automatic	Low
213 – Georges					
567088	213012	BUNBURY CURRAN CK AT R'WAY PDE	DPI Water	Automatic	Medium
567061	213407	IRELANDS BRIDGE	NSW OEH - Manly Hydraulics Laboratory	Automatic	Medium
567060	213903	KELSO CREEK D/S LEVEE	Local Council	Automatic	High
567048	213902	KELSO CREEK U/S LEVEE	Local Council	Automatic	Low
567067	213402	LANSDOWNE BRIDGE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
566014	213401	LANSVALE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
567080	203011	ORANGE GROVE ROAD	DPI Water	Automatic	Medium
567089	203014	SACKVILLE RD	DPI Water	Automatic	Medium
n/a	213452	BUNDEENA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568145	213013	REDFERN RD	DPI Water	Automatic	High
566013	213404	SCRIVENER ST.	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
213 – Georges	River Valley (co	ntinued)		, ,,	
567041	213009	SMITHFIELD RD	DPI Water	Automatic	Low
566062	213901	THE NEEDLES	Local Council	Automatic	Low
068070	213210	WORONORA DAM LEVEL	Sydney Catchment Authority	Automatic	Low
213 - Parramat	ta River Valley				
567057	213991	DARLING MILLS CK	Greater Sydney Local Land Services	Automatic	Medium
567072	213994	LOYALTY ROAD BASIN	Greater Sydney Local Land Services	Automatic	Medium
567074	213005	BRIENS RD	Greater Sydney Local Land Services	Automatic	Medium
567058	213993	JOHNSTONS BRIDGE	Greater Sydney Local Land Services	Automatic	Medium
567056	213990	REDBANK ROAD	Greater Sydney Local Land Services	Automatic	Medium
213 – Sydney E	Basin				
566007	213411	CANTERBURY ROAD (COOKS R)	NSW OEH – Manly Hydraulics Laboratory	Automatic	High
215 - Shoalhav	en Valley				_
568044	215471	CROOKHAVEN HEADS	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568226	n/a	BROUGHTON CREEK	Local Council	Automatic	Low
568159	215904	DANJERA DAM	Local Council	Automatic	Medium
568196	215906	DANJERA CREEK	Local Council	Automatic	High
068232	215207	FOSSICKERS FLAT	Sydney Catchment Authority	Automatic	High
568179	215410	GERORA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
n/a	215430	GRADYS CARAVAN PARK	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
068233	215200	GRASSY GULLY	Sydney Catchment Authority	Automatic	High
568180	215417	GREENWELL POINT	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
068181	215220	HAMPDEN BRIDGE	Sydney Catchment Authority	Automatic	High
070335	215208	HILLVIEW	Sydney Catchment Authority	Automatic	High
568183	215454	LAKE WOLLUMBOOLA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569010	215210	MONGARLOWE	Sydney Catchment Authority	Automatic	High
569019	215209	MOUNTVIEW	Sydney Catchment Authority	Automatic	High
568195	215470	SHOALHAVEN HEADS	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568157	215212	TALLOWA DAM	Sydney Catchment Authority	Automatic	High
568202	n/a	TOMERONG CREEK	Local Council	Automatic	Low
570037	215002	WARRI	DPI Water	Automatic	Medium
	lley – Jervis Bay				
569018	216002	BROOMAN	DPI Water	Automatic	Low
568173	216004	CURRAMBENE CK AT FALLS CK	DPI Water	Automatic	Low
568182	216420	LAKE CONJOLA	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568194	216470	HMAS CRESWELL (TIDAL)	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568198	216412	SUSSEX INLET	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
568200	216415	ISLAND POINT ROAD	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
216 - Clyde Val	lley – Jervis Bay	(continued)			
568225	216405	CURRARONG	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569036	216440	LAKE TABOURIE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569037	216435	BURRILL LAKE	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569038	n/a	MILLARDS CREEK	Local Council	Automatic	Low
217 – Moruya					
069123	217402	MORUYA HOSPITAL	NSW OEH – Manly Hydraulics Laboratory	Automatic	Medium
569041	217007	RIVERVIEW	DPI Water	Automatic	High
569025	217006	NERINGLA	DPI Water	Automatic	Medium
218 – Tuross Va	alley				
569012	218001	TUROSS VALE	DPI Water	Automatic	Low
569015	218008	EUROBODALLA	DPI Water	Automatic	Low
569011	218007	WADBILLIGA	DPI Water	Automatic	Low
569026	218007	D/S WADBILIGA JUNCTION	DPI Water	Automatic	Low
569031	218415	BARLOWS BAY	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
219 – Bega Vall	ley				
569008	219025	ANGLEDALE	DPI Water	Automatic	High
569016	219027	BROGO DAM STORAGE	DPI Water	Automatic	Low
569012	219022	CANDELO DAMSITE	DPI Water	Automatic	High
569013	219003	MORANS CROSSING	DPI Water	Automatic	High
569027	219017	DOUBLE CK NEAR BROGO	DPI Water	Automatic	Medium
569028	219032	BEGA R AT KANOONA	DPI Water	Automatic	Medium
569032	219405	REGATTA POINT	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569033	219470	BERMAGUI HARBOUR (TIDAL)	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
220 – Towamba					
569034	220470	EDEN BOAT HARBOUR	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569014	220003	LOCHIEL	DPI Water	Automatic	Low
569029	220410	MERIMBULA WHARF	NSW OEH – Manly Hydraulics Laboratory	Automatic	Low
569017	220004	TOWAMBA	DPI Water	Automatic	Low
222 – Snowy Va					
570000	222019	BOMBALA	DPI Water	Automatic	High
007008	222013	BURNT HUT CROSSING	DPI Water	Automatic	High
071019	222026	DALGETY WEIR	DPI Water	Automatic	High
569017	220004	TOWAMBA	DPI Water	Automatic	High
570056	222017	THE HUIT	DPI Water	Automatic	High
070309	222008	QUIDONG	DPI Water	Automatic	Medium
570018	222004	WELLESLY (ROWES)	DPI Water	Automatic	Medium

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
422 – Culgoa V					
548007	422011	MUNDIWA (U/S COLLERINA)	DPI Water	Automatic	High
422 – Warrego		,			J
548018	423005	TURRA	DPI Water	Automatic	High
548001	423001	FORDS BRIDGE	DPI Water	Automatic	High
422 - Severn/N	lacIntyre Valley				G
556010	416021	WESTHOLME	Local Council	Automatic	High
541066	416305	BEEBO	Queensland Station	Automatic	Medium
556004	416023	BOLIVIA	DPI Water	Automatic	Medium
054155	416007	BONSHAW	DPI Water	Automatic	High
041519	416415	BOOBA SANDS	Queensland Station	Automatic	Medium
553027	416054	BOOLATAROO	DPI Water	Automatic	Medium
553024	416037	BOOMI OFFTAKE	DPI Water	Automatic	Medium
052084	416043	BOOMI WEIR 3	DPI Water	Automatic	Low
556003	416003	CLIFTON	DPI Water	Automatic	Medium
554015	416020	COOLATI	DPI Water	Automatic	Medium
556002	416032	DONALDSON	DPI Water	Automatic	Medium
554012	416067	DUCCA MARRIN	DPI Water	Automatic	High
556011	416057	ELSMORE BRIDGE	DPI Water	Automatic	High
042106	417204	FENTON	DPI Water	Automatic	Medium
556013	416055	FERNDALE	Local Council	Automatic	High
556019	416022	FLADBURY	DPI Water	Automatic	Medium
552019	416052	GALLOWAY	DPI Water	Automatic	Medium
541051	416315	GLENLYON DAM WL	Queensland Station	Automatic	High
541052	416309	GLENLYON DAM D/S	Queensland Station	Automatic	High
541067	416040	GLENARBON WEIR D/S	DPI Water	Automatic	Medium
554017	416069	GLENORCHY	DPI Water	Automatic	High
541030	416201	GOONDIWINDI WEIR	DPI Water	Automatic	Low
556025	416059	GRED	Local Council	Automatic	High
054146	416008	HAYSTACK	DPI Water	Automatic	High
054156	416012	HOLDFAST	DPI Water	Automatic	High
041520	416402	INGLEWOOD	DPI Water	Automatic	High
556008	416016	INVERELL (MIDDLE CREEK)	DPI Water	Automatic	High
052085	416029	KANOWNA (BOOMI)	DPI Water	Automatic	High
552012	416048	KANOWNA (MACINTYRE)	DPI Water	Automatic	High
556014	416056	LITTLE VALLEY	Local Council	Automatic	High
556013	416055	MIDDLE CREEK (FERNDALE)	Local Council	Automatic	High

Bureau	AWRC	Station name	Owner	Gauge	Priority
number	number	(a - m t in))		type	
	lacIntyre Valley (DDI Water	Automotic	Madium
041507	416917 416062	NEW KILDONAN	DPI Water	Automatic	Medium
556036 556035	416062	NEWSTEAD NORTH PARADISE STATION	Local Council	Automatic	High High
554001	416030	PINDARI DAM LEVEL	Local Council DPI Water	Automatic	
554001	416030	RIDGELANDS	DPI Water DPI Water	Automatic	High
				Automatic	High
556039	416066	RIVERSTONE	DPI Water	Automatic	Medium
042055	416907	RIVERVIEW	Queensland Station	Automatic	High
056158	416011	ROSENEATH	DPI Water	Automatic	High
554004	416039	STRATHBOGIE	DPI Water	Automatic	High
556038	416064	STANNIFER	Local Council	Automatic	High
042076	417901	THALLON	Queensland Station	Automatic	High
554016	416068	TINTOT	Local Council	Automatic	High
054147	416010	WALLANGRA	DPI Water	Automatic	High
552010	416027	WEEMELAH	DPI Water	Automatic	High
556037	416063	WYOMING	Local Council	Automatic	High
425 – Barwon I					
External	422028	BEEMERY	DPI Water	Automatic	High
548015	422026	BOOROOMA	DPI Water	Automatic	High
External	422027	GEERA	DPI Water	Automatic	High
548006	417001	GUNDABLOUIE	DPI Water	Automatic	High
547001	425012	MENINDEE WEIR 32	DPI Water	Automatic	High
548009	416050	PRESBURY WEIR	DPI Water	Automatic	High
546000	425018	TALYAWALKA (BARRIER HWY)	DPI Water	Automatic	High
548014	422025	TARA (U/S NAMOI JUNCTION)	DPI Water	Automatic	High
548012	425999	WARRAWEENA	DPI Water	Automatic	Medium
418 – Gwydir	•				
552004	418061	ALMA BRIDGE	DPI Water	Automatic	Medium
552006	418068	BALLIN BORA CK U/S	DPI Water	Automatic	Medium
552057	418091	BELARRE (THALABA CREEK)	DPI Water	Automatic	Medium
554009	418025	BINGARA (HALLS CK)	DPI Water	Automatic	High
553005	418011	CAROLE REGULATOR	DPI Water	Automatic	Low
553011	418087	CHINOOK	Local Council	Automatic	High
553023	418067	CLARENDON BR (HEATHFIELD)	DPI Water	Automatic	Low
552001	418055	COLLARENEBRI (MEHI RIVER)	DPI Water	Automatic	Medium
553016	418037	COMBADELLO D/S	DPI Water	Automatic	Low
556000	418026	COPETON DAM D/S	DPI Water	Automatic	High
556001	418035	COPETON DAM WL	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
418 – Gwydir (d				.,,,,,,	
553019	418052	GARAH	DPI Water	Automatic	Low
553022	418060	GLENDELLO	DPI Water	Automatic	Low
553003	418032	HORSESHOE LAGOON	DPI Water	Automatic	High
554010	418027	HORTON DAM SITE	DPI Water	Automatic	High
556009	418005	KIMBERLEY	DPI Water	Automatic	Low
552013	418066	MILLEWA	DPI Water	Automatic	Low
553025	418048	MOOMIN OFFTAKE	DPI Water	Automatic	Low
552017	418070	MOOMIN PLAINS	DPI Water	Automatic	Low
554007	418012	PINEGROVE	DPI Water	Automatic	High
554008	418015	RIDER	DPI Water	Automatic	High
553028	418056	TYREEL D/S REGULATOR	DPI Water	Automatic	Low
556006	418014	YARROWYCK	DPI Water	Automatic	Medium
419 – Namoi/Pe	eel				
555016	419073	APPLEBY	DPI Water	Automatic	High
555027	419051	AVOCO EAST	DPI Water	Automatic	High
555018	419074	BECTIVE	DPI Water	Automatic	High
554013	419053	BLACK SPRINGS	DPI Water	Automatic	Medium
555013	419032	BOGGABRI (COXS)	DPI Water	Automatic	High
555004	419012	BOGGABRI (NAMOI)	DPI Water	Automatic	High
053098	419905	BOHENA CREEK	DPI Water	Automatic	High
555019	419085	BOMERA CREEK	DPI Water	Automatic	High
055285	419020	BRABRI	DPI Water	Automatic	High
055310	419027	BREEZA STATION	DPI Water	Automatic	High
553015	419083	THARLANE	DPI Water	Automatic	High
555021	419085	BUNDELLA	DPI Water	Automatic	High
552025	419095	NAMOI BULLAWA	DPI Water	Automatic	Low
555005	419034	CAROONA	DPI Water	Automatic	High
055284	419006	CARROLL GAP	DPI Water	Automatic	High
555006	419045	CHAFFEY DAM D/S	DPI Water	Automatic	High
555012	419069	CHAFFEY DAM STORAGE	DPI Water	Automatic	High
552026	419082	DUNCAN JUNCTION	DPI Water	Automatic	High
055313	419035	GOONOO GOONOO	DPI Water	Automatic	High
553007	419059	GUNIDGERA D/S	DPI Water	Automatic	Medium
553009	419061	GUNIDGERA OFFTAKE	DPI Water	Automatic	Low
553008	419060	GUNIDGERA WEIR	DPI Water	Automatic	Low
555035	419099	KOOTINGAL	DPI Water	Automatic	High
555034	419097	MEADOWS LANE	Local Council	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
419 – Namoi/Pe	eel (continued)				
555034	419039	MOLLEE WEIR D/S	DPI Water	Automatic	High
553006	419062	MOLLEE WEIR WL	DPI Water	Automatic	High
055321	419016	MULLA CROSSING	DPI Water	Automatic	High
553026	419002	NARRABRI (NAMOI)	DPI Water	Automatic	Medium
555003	419005	NORTH CUERINDI	DPI Water	Automatic	High
555033	419910	NUNDLE (PEARLY GATES)	DPI Water	Automatic	High
555017	419076	OLD WARRAH	DPI Water	Automatic	Medium
556005	419024	PARADISE WEIR	DPI Water	Automatic	High
055315	419015	PIALLAMORE	DPI Water	Automatic	High
555026	419028	RETREAT	DPI Water	Automatic	High
552009	419064	ROSSMORE	DPI Water	Automatic	Medium
555022	419084	RUVIGNE	DPI Water	Automatic	High
555025	419075	SOMERTON	DPI Water	Automatic	High
555011	419043	SPLIT ROCK DAM D/S	DPI Water	Automatic	High
555002	419080	SPLIT ROCK DAM WL	DPI Water	Automatic	High
555028	419093	SPRING RIDGE YARRAMAN CK	DPI Water	Automatic	Medium
555007	419033	TAMBAR SPRINGS	DPI Water	Automatic	High
555008	419070	TAMWORTH WATER SUPPLY	DPI Water	Automatic	Medium
555009	419081	TAROONA (U/S CHAFFEY DAM)	DPI Water	Automatic	Low
554005	419023	TURRAWAN (WALLAH)	DPI Water	Automatic	High
555023	419029	UKOLAN	DPI Water	Automatic	Medium
555020	419056	UPPER MANILLA	DPI Water	Automatic	Medium
552022	419091	WALGETT U/S	DPI Water	Automatic	Medium
552005	419049	WAMINDA	DPI Water	Automatic	Medium
553012	419068	WEETA WEIR D/S	DPI Water	Automatic	High
552020	419067	WEETA WEIR WL	DPI Water	Automatic	High
554006	419047	WOODS REEF	DPI Water	Automatic	Low
559000	419010	WOOLBROOK	DPI Water	Automatic	High
420 – Castlerea					
564005	420022	COONABARABAN	DPI Water	Automatic	High
564006	420007	BINNAWAY	DPI Water	Automatic	High
551020	420020	GUNGALMAN	DPI Water	Automatic	High
564003	420017	HIDDEN VALLEY	DPI Water	Automatic	High
551008	420901	LUCAS BRIDGE	Local Council	Automatic	High
551010	420015	WARRANA (manual)	Local Council	Manual	High
564001	420003	WARKTON	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
421 – Macquari	ie Valley			, ,,	
551007	421127	BAROONA	DPI Water	Automatic	High
563015	421025	BRUINBUN	DPI Water	Automatic	High
562000	421040	BURRENDONG DAM D/S	DPI Water	Automatic	High
562001	421077	BURRENDONG DAM WL	DPI Water	Automatic	High
051142	421012	CARINDA	DPI Water	Automatic	High
051141	421011	CARINDA MARTHAGUY CK	DPI Water	Automatic	Low
563008	521915	CHIFLEY DAM	Local Council	Automatic	Low
063298	421101	CHIFLEY DAM U/S	Local Council	Automatic	High
External	421056	COOLAH	DPI Water	Automatic	Medium
563005	421178	D/S BORENORE CK	Local Council	Automatic	High
564002	421042	ELONG ELONG	DPI Water	Automatic	High
563031	421910	GEORGES PLAIN	DPI Water	Automatic	High
551003	421031	GIN GIN WEIR	DPI Water	Automatic	Low
565018	421027	GOWAN GREEN	DPI Water	Automatic	High
551015	421146	GUM COWAL AT BIFURCATION	DPI Water	Automatic	Low
051130	421005	GUNNINGBAR OFFTAKE	DPI Water	Automatic	Medium
551005	421088	MAREBONE BREAK	DPI Water	Automatic	Low
551006	421090	MAREBONE D/S	DPI Water	Automatic	Medium
551012	421135	MILTARA	DPI Water	Automatic	Low
563017	421050	MOLONG (BELL)	DPI Water	Automatic	High
562008	421156	MUMBIL	DPI Water	Automatic	High
551016	421164	NAPALI	DPI Water	Automatic	Low
562004	421018	NEUREA	DPI Water	Automatic	High
565005	421048	OBLEY	DPI Water	Automatic	High
563081	421916	ORANGE (DALTON ST BRIDGE)	Local Council	Automatic	High
563049	421917	ORANGE (KITE ST)	Local Council	Automatic	High
051146	421022	OXLEY STATION	DPI Water	Automatic	Low
541027	421147	PILLIGAWARRINA	DPI Water	Automatic	Low
565009	421055	RAWSONVILLE	DPI Water	Automatic	High
562002	421149	ROCKY WATERHOLE	DPI Water	Automatic	Low
563016	421026	SOFALA	DPI Water	Automatic	High
565004	421068	SPICERS CK	DPI Water	Automatic	Medium
063297	421035	TARANA	DPI Water	Automatic	High
551009	421004	WARREN WEIR	DPI Water	Automatic	High
563080	421105	WHITE ROCK	Local Council	Automatic	Medium
562003	421150	WILBERTREE ROAD	DPI Water	Automatic	Medium

Bureau	AWRC	Station name	Owner	Gauge	Priority
number	number			type	
	ie Valley (contin 421148		DDI Water	A. Harrachia	Lave
062093		WINDAMERE DAM D/C	DPI Water	Automatic	Low
562007 065090	421079 421900	WINDAMERE DAM D/S	DPI Water DPI Water	Automatic	Medium
562005	421019	WOOLLOMBI YAMBLE BRIDGE	DPI Water DPI Water	Automatic	High
421 – Bogan Va		YAMBLE BRIDGE	DPI water	Automatic	High
550005	421158	MONKEY BRIDGE	DPI Water	Automatic	High
551004	421136	NEURIE PLAINS	DPI Water		
		NEURIE PLAINS	DPI water	Automatic	High
412 – Lachlan \ 063296		ABERCROMBIE	DPI Water	Automotio	Lliab
563087	412028 412080	BENEREE FLYERS CREEK	DPI Water DPI Water	Automatic	High
				Automatic	Low
565013	421195	CANOWINDRA U/S	DPI Water	Automatic	High
563146	412077	CARCOAR DAM D/S	DPI Water	Automatic	Medium
549002	412014	CONDOBOLIN (GOOBANG CK)	DPI Water	Automatic	Medium
549002	412045	CORRONG	DPI Water	Automatic	Medium
573013	412134	DUDAUMAN	DPI Water	Automatic	Low
065095	412030	EUGOWRA (SMITHFIELD)	DPI Water	Automatic	High
550004	412023	FAIRHOLME	DPI Water	Automatic	High
563018	412066	HADLEY NO2	DPI Water	Automatic	Medium
565006	412033	HELENSHOLME	DPI Water	Automatic	Medium
550006	412058	ISLAND CREEK O/TAKE	DPI Water	Automatic	Low
575006	412011	LAKE CARGELLIGO	DPI Water	Automatic	Low
565010	412141	MULYANDRY CREEK	DPI Water	Automatic	High
070333	412065	NARRAWA	DPI Water	Automatic	High
573005	412029	PROSSERS CROSSING	DPI Water	Automatic	High
563023	412165	THE BELLS	DPI Water	Automatic	High
563014	412056	THE NEEDLES	DPI Water	Automatic	High
065084	412139	TOOGONG (GLEN AYR)	DPI Water	Automatic	High
549008	412129	U/S BLOCKBANK	DPI Water	Automatic	Low
575005	412078	WHEALBAH	DPI Water	Automatic	High
549007	412012	WILLANDRA CK AT ROAD BR	DPI Water	Automatic	Low
549003	412038	WILLANDRA WEIR	DPI Water	Automatic	High
563145	412067	WYANGALA DAM D/S	DPI Water	Automatic	High
063267	412010	WYANGALA DAM WL	DPI Water	Automatic	High
410 - Queanbe	yan/Molonglo V	alley			· · · · ·
570001	410770	ACT BORDER	Australian Capital Territory Government	Automatic	Medium
570775	410775	BARRY DRIVE	Australian Capital Territory Government	Automatic	Low
570013	410717	BENDORA DAM WL	Australian Capital Territory Government	Automatic	Low

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
410 - Queanbe	yan/Molonglo V	alley (continued)			
570012	410705	BURBONG	Australian Capital Territory Government	Automatic	High
570002	410774	BURRA CREEK	Australian Capital Territory Government	Automatic	Medium
570986	410759	CARWOOLA	Australian Capital Territory Government	Automatic	High
570007	410756	COPPINS CROSSING	Australian Capital Territory Government	Automatic	Medium
570925	410757	COPPINS CROSSING BELOW	Australian Capital Territory Government	Automatic	Medium
570742	410752	CORIN DAM	Australian Capital Territory Government	Automatic	Low
570742	410742	CORIN DAM	Australian Capital Territory Government	Automatic	Low
570010	410704	COTTER DAM	Australian Capital Territory Government	Automatic	Low
570008	410700	COTTER KIOSK	Australian Capital Territory Government	Automatic	Low
570046	410789	DAIRY FLAT	Australian Capital Territory Government	Automatic	Low
570730	n/a	GINGERA	Australian Capital Territory Government	Automatic	Low
570751	410751	GINNINDERRA CREEK (U/S BARTON HWY)	Australian Capital Territory Government	Automatic	Low
570750	410750	GINNINDERRA CREEK (U/S CHARNWOOD RD)	Australian Capital Territory Government	Automatic	Low
570029	410748	GOOGONG DAM LEVEL	Australian Capital Territory Government	Automatic	High
570781	410781	GOOGONG DAM U/S	Australian Capital Territory Government	Automatic	High
570045	410790	HINDMARSH	Australian Capital Territory Government	Automatic	Low
570006	410744	L BURLEY GRIFFIN AT BOAT H	Australian Capital Territory Government	Automatic	Low
570016	410732	LAKE BURLEY GRIFFIN AT DAM	Australian Capital Territory Government	Automatic	Low
570711	410711	NAAS	Australian Capital Territory Government	Automatic	Low
570713	410713	RIVERLEA	Australian Capital Territory Government	Automatic	Low
570016	410718	SCRIVENER DAM (LAKE BURLEY GRIFFIN)	Australian Capital Territory Government	Automatic	High
570772	410772	SOUTHWELL	Australian Capital Territory Government	Automatic	Low
570741	410741	STURT ISLAND	Australian Capital Territory Government	Automatic	Low
570965	410734	TINDERRY	Australian Capital Territory Government	Automatic	High
570779	410779	TUGGERANONG CREEK (U/S OF SEWER)	Australian Capital Territory Government	Automatic	Low
570771	410755	TUGGERANONG CREEK (WEIR)	Australian Capital Territory Government	Automatic	Low
570938	410760	WICKERSLACK	Australian Capital Territory Government	Automatic	High
410 – Murrum	bidgee Valley		,		J
549005	410003	BALRANALD TOWN	Local Council	Manual	Medium
572009	410061	BATLOW ROAD	DPI Water	Automatic	High
572010	410155	BELMORE BR	DPI Water	Automatic	High
574019	410023	BEREMBED WEIR	DPI Water	Automatic	High
573017	41000207	BERTHONG RD	DPI Water	Automatic	Medium
057011	410050	BILLILINGRA	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
410 – Murrumi	oidgee Valley (co	ontinued)		, ,,	
072145	410073	BLOWERING DAM D/S (ODDYS BR)	DPI Water	Automatic	High
072153	410102	BLOWERING DAM W/L	DPI Water	Automatic	High
572008	410156	BOOK BOOK	DPI Water	Automatic	High
573002	410039	BRUNGLE BRIDGE	DPI Water	Automatic	High
073131	410008	BURRINJUCK DAM D/S	DPI Water	Automatic	High
573008	410131	BURRINJUCK DAM WL	DPI Water	Automatic	High
574007	410017	CONARGO (PUCKAWIDGEE)	DPI Water	Automatic	Low
573004	410044	COOLAC	DPI Water	Automatic	High
573003	410038	DARBALARA	DPI Water	Automatic	High
575007	410134	DARLOT	DPI Water	Automatic	Low
573001	410143	ERINGOARRAH	DPI Water	Automatic	High
574037	410148	FOREST CK AT WARRISTON WEIR	DPI Water	Automatic	Low
074216	410082	GOGELDRIE WEIR D/S	DPI Water	Automatic	High
570777	410777	HALLS	Australian Capital Territory Government	Automatic	Low
575004	410136	HAY WEIR D/S	DPI Water	Automatic	High
075172	410995	HAY WEIR W/L	DPI Water	Automatic	Low
574014	410016	JERILDERIE	DPI Water	Automatic	Low
573009	410112	JINDALEE	DPI Water	Automatic	Low
573007	410025	JUGIONG CREEK	DPI Water	Automatic	High
572011	410057	LACMALAC	DPI Water	Automatic	High
572025	410048	LADYSMITH	DPI Water	Automatic	High
570003	410761	LOBS HOLE	DPI Water	Automatic	Medium
575012	410040	MAUDE WEIR D/S	DPI Water	Automatic	High
575008	41010941	MAUDE WEIR WL	DPI Water	Automatic	Low
570019	410033	MITTAGONG CROSSING	DPI Water	Automatic	High
574017	410014	MORUNDAH (COLOMBO CK)	DPI Water	Automatic	Medium
574016	410015	MORUNDAH (YANCO CK)	DPI Water	Automatic	Medium
572007	410043	MT ADRAH	DPI Water	Automatic	High
570017	410738	MT MACDONALD	Australian Capital Territory Government	Automatic	High
574036	410137	MUNDOWEY	DPI Water	Automatic	Low
574032	410013	MULWALA M CANAL AT O/TAKE	DPI Water	Automatic	Low
573010	410068	GLENDALE	DPI Water	Automatic	High
575016	n/a	MALLAN SCHOOL	DPI Water	Automatic	Low
570038	410062	NUMERALLA	DPI Water	Automatic	Medium
572012	410047	OLD BORAMBOLA	DPI Water	Automatic	High
549011	41010966	REDBANK WEIR WL	DPI Water	Automatic	Low
575009	410041	REDBANK WEIR D/S	DPI Water	Automatic	High

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority
	bidgee Valley (c	continued)		7,47	
570015	410731	TENNENT	Australian Capital Territory Government	Automatic	Medium
574015	410091	WALBUNDRIE	DPI Water	Automatic	Medium
573006	410024	WEE JASPER	DPI Water	Automatic	High
572033	410058	WESTBROOK	DPI Water	Automatic	High
574021	410007	YANCO OFFTAKE	DPI Water	Automatic	Low
574022	410036	YANCO WEIR D/S	DPI Water	Automatic	Medium
574039	410169	YANCO BRIDGE	DPI Water	Automatic	Low
570039	410176	RIVERVIEW (YASS R U/S BJ)	DPI Water	Automatic	Low
570009	410026	YASS	DPI Water	Automatic	High
401 - Upper M	urray Valley	-			
582015	401012	BIGGARA	DPI Water	Automatic	High
572004	401001	BRINGENBRONG	DPI Water	Automatic	High
582016	401217	GIBBO PARK	Victorian Gauge	Automatic	High
572006	401013	JINGELLIC CREEK	DPI Water	Automatic	High
572005	401014	PINEGROVE	DPI Water	Automatic	High
082106	401204	TALLANDOON	Victorian Gauge	Automatic	High
409 – Murray F	River	-			
574008	409056	ARATULA RD (SITE 11)	DPI Water	Automatic	Low
582013	402205	BANDIANA	Victorian Gauge	Automatic	High
576000	414207	COLIGNAN	Victorian Gauge	Automatic	High
574031	409024	COLLIGEN CK D/SREGULATOR	DPI Water	Automatic	Low
572003	409017	DOCTORS POINT	DPI Water	Automatic	High
574026	409008	EDWARD R AT OFFTAKE	DPI Water	Automatic	Low
574006	409029	EDWARD RIVER ESCAPE	DPI Water	Automatic	Medium
575015	409044	FRANKLINS BRIDGE	DPI Water	Automatic	Low
574033	409030	GULPA CK AT OFFTAKE	DPI Water	Automatic	Low
572002	409016	HEYWOODS	DPI Water	Automatic	High
574034	409037	HOWLONG	DPI Water	Automatic	High
572001	409011	HUME DAM (MANUAL)	Murray Darling Basin Authority	Manual	High
575003	409035	LIEWAH	NSW Office of Water	Automatic	High
580000	405232	MCCOYS BRIDGE	Victorian Gauge	Automatic	High
582012	402203	MONGANS BR	Victorian Gauge	Automatic	High
580011	406202	ROCHESTER	Victorian Gauge	Automatic	High
575002	409013	STONEY CROSSING	DPI Water	Automatic	High
574012	409047	TOONALOOK	DPI Water	Automatic	Medium
574029	409021	WAKOOL R AT MAIN CANAL OFFTAKE	DPI Water	Automatic	Low
574027	409022	WAKOOL R AT OFFTAKE REGULATOR	DPI Water	Automatic	Low

Bureau number	AWRC number	Station name	Owner	Gauge type	Priority		
409 – Murray Ri	409 – Murray River (continued)						
582033	403200	WANGARATTA	Victorian Gauge	Automatic	High		

Notes:

- External: Refers to a station which does not currently have a station number but data is referred to externally.
- Data from MANUAL stations are not available in (near) real time.
- AWRC number: Australian Water Resources Council number

Schedule 5: Enviromon base stations installed in New South Wales

		License	Number	Date of	License
Owner	City/town	number	of users	registration	version
Upper Parramatta	Parramatta	61020005	3	3/08/2005	3.11.2
Catchment Auth.			_		
Western Sydney State	Seven Hills	61020006	3	18/01/2004	3.11.2
Emergency Service					
Lismore City Council	Lismore	61020007	10	19/11/2004	3.11.2
Hastings Council	Port Macquarie	61020008	10	16/11/2004	3.11.2
Kempsey State Emergency Service	Kempsey	61020009	10	16/11/2004	3.11.2
Kempsey Council	Kempsey	61020010	10	16/11/2004	3.11.2
Murwillumbah State	Murwillumbah	61020013	10	16/11/2004	3.11.2
Emergency Service					
Tweed Shire Council	Murwillumbah	61020015	10	16/11/2004	3.11.2
Tweed Shire Council	Chinderah	61020014	10	16/11/2004	3.11.2
Richmond -Tweed State	Lismore	61020016	10	16/11/2004	3.11.2
Emergency Service					
Byron Shire Council	Mullumbimby	61020018	10	16/11/2004	3.11.2
Mullumbimby State	Mullumbimby	61020019	10	16/11/2004	3.11.2
Emergency Service					
Nambucca State	Macksville	61020020	10	19/11/2004	3.11.2
Emergency Service					
Bellingen Council	Bellingen	61020021	10	19/11/2004	3.11.2
Bathurst City Council	Bathurst	61020022	10	31/01/2005	3.11.2
Shoalhaven City Council	Nowra	61020023	3	31/01/2005	3.11.2
SES Wollongong	Wollongong	61020024	3	31/01/2005	3.11.2
Sydney Catchment Authority	Penrith	61020025	3	8/02/2005	3.11.2
Scone State Emergency	Scone	61020026	3	18/03/2005	3.11.2
Service					
West Nowra	Nowra	61020027	3	19/05/2005	3.11.2
Wyong Council	Wyong	61020028	3	27/06/2005	3.11.2
Cooma City Council	Cooma	61020029	3	27/06/2005	3.11.2
Sothern Sydney	Bankstown	61020030	3	27/06/2005	3.11.2
Northern Sydney State	Hornsby	61020031	3	24/03/2010	3.11.2
Emergency Service					
Great Lakes Council	Forster	61020032	3	29/07/2005	3.11.2
Bellingen State Emergency	Bellingen	61020033	3	16/09/2005	3.11.2
Service					
National Capital Authority	Canberra	61020034	3	30/09/2005	3.11.2
Sutherland State	Heathcote	61020036	3	11/02/2005	3.11.2
Emergency Service					
Bathurst Council Depot	Bathurst	61020037	3	31/01/2006	3.11.2
Pacific Farm State	Forster	61020038	3	31/01/2006	3.11.2
Emergency Service					
Coffs Harbour State	Coffs Harbour	61020039	3	31/01/2006	3.11.2
Emergency Service			_		
Tamworth Council	Tamworth	61020042	3	16/03/2016	3.11.2
Tamworth State Emergency Service	Tamworth	61020043	3	16/03/2006	3.11.2
ALS- Penrith (ECOWISE)	Penrith	61020044	3	27/03/2006	3.11.2
Office of Water -Armidale	Armidale	61020046	3	12/04/2006	3.11.2
Nundle State Emergency	Nundle	61020047	3	25/05/2006	3.11.2
Service					
Nowra State Emergency	Nowra	61020048	3	12/07/2006	3.11.2
Service					
Shoalhaven -Bomaderry	Bomaderry	61020049	3	12/07/2006	3.11.2
Banora State Emergency	Murwillumbah	61020050	3	15/01/2007	3.11.2
Service					

Owner	City/town	License number	Number of users	Date of registration	License version
Manley Hydralics Lab	Manley	61020051	3	11/04/2007	3.11.2
Gladstone State Emergency Service	Gladstone	61020052	3	11/07/2007	3.11.2
Lismore State Emergency Service	Lismore	61020053	3	24/07/2007	3.11.2
SES -Wilberforce	Wilberforce	61020056	3	10/08/2007	3.11.2
Thiess Services Blacktown	Blacktown	61020059	3	19/02/2007	3.11.2
Ballina State Emergency Service	Ballina	61020060	3	16/10/2007	3.11.2
Gloucester State Emergency Service	Gloucester	61020061	3	29/10/2007	3.11.2
Bureau of Meterology (nsw-hycomms -op)	Sydney	61020063	10	01/01/1999	3.11.2
Hunter Water	Newcastle	61020064	3	30/03/2009	3.11.2
Gosford City Council	Gosford	61020065	3	17/08/2009	3.11.2
Southern Highland State Emergency Service - Goulburn	Goulburn	61020066	3	10/02/2010	3.11.2
Sentinal - ACT	Canberra	61020067	3	13/07/2010	3.11.2
Orange City Council	Orange	61020068	3	15/09/2010	3.11.2
Orange State Emergency Service	Orange	61020070	3	15/09/2010	3.11.2
Coffs Harbour City Council	Coffs Harbour	61020070	3	19/07/2012	3.11.2

Schedule 6: List of Data Sharing Agreements for data provision

A Data Sharing Agreement for data provision has been set up or is in development for the following agencies.

Agency	Status Date of completion		Number of sites
NSW Office of Water	Complete	Signed May 2013	485
NSE Office of Environment and Heritage (Manly Hydraulics Laboratory data)	Complete	Signed June 2013	190
Sydney Catchment Authority	Complete	Signed August 2013	47

Schedule 7: List of sites owned and maintained by the Bureau

Bureau	01-11	0	Data tama	D'''
number	Station name	Gauge type	Data type	Priority
201 – Tweed				
058177	BALLINA SES	AUTOMATIC	BASESTATION	Medium
058230	BANORA SES - MURWILLUMBAH	AUTOMATIC	BASESTATION	Medium
558010	BARNEYS POINT (TWEED RIVER)	AUTOMATIC	RAINFALL	Medium
058204	BOAT HARBOUR (ROUS RIVER)	AUTOMATIC	RAINFALL	Medium
058005	BRAYS CREEK (MISTY MOUNTAIN)	AUTOMATIC	RAINFALL	Medium
058224	BYRON SHIRE COUNCIL	AUTOMATIC	BASESTATION	Medium
058019	DOON DOON (MCCABES ROAD)	AUTOMATIC	RAINFALL	Medium
058193	EUNGELLA (OXLEY RIVER)	AUTOMATIC	RAINFALL	Medium
058129	KUNGHUR (THE JUNCTION)	AUTOMATIC	RAIN/REPEATER	High
558032	LIMPINWOOD (BALD MOUNTAIN)	AUTOMATIC	RAINFALL	Medium
058227	MURWILLUMBAH SES	AUTOMATIC	BASESTATION	Medium
058186	MURWILLUMBAH (TWEED RIVER)	AUTOMATIC	RAINFALL	Medium
558014	TUMBULGUM (TWEED RIVER)	AUTOMATIC	RAINFALL	Medium
058228	TWEED SHIRE COUNCIL	AUTOMATIC	BASESTATION	Medium
NA 050407	TWEED SHIRE COUNCIL - CHINDERAH	AUTOMATIC	BASESTATION	Medium
058167	UKI (TWEED RIVER)	AUTOMATIC	RAINFALL	Medium
202 – Bruns	CAPE BYRON AWS	ALITOMATIC	A\A(C	Madium
058216 558025		AUTOMATIC AUTOMATIC	AWS RAIN/REPEATER	Medium
	MULLUMBIMBY (CHINCOGAN) MULLUMBIMBY SES	AUTOMATIC	BASESTATION	High Medium
058225 558034	MULLUMBIMBY (UPPER MAIN ARM)	AUTOMATIC	RAINFALL	Medium
558036	MYOCUM MYOCUM	AUTOMATIC	RAINFALL	Medium
203 – Richm		AUTOMATIC	KAINFALL	iviedium
058198	BALLINA AIRPORT AWS	AUTOMATIC	AWS	Medium
058202	BENTLEY (BACK CREEK)	AUTOMATIC	RAINFALL	Medium
058202	BUSBYS FLAT	AUTOMATIC	RAINFALL	Medium
058207	CASINO AIRPORT AWS	AUTOMATIC	AWS	Medium
558024	CAWONGLA (ALERT)	AUTOMATIC	RAINFALL	Medium
058194	DAIRY FLAT	AUTOMATIC	RAINFALL	Medium
558031	DUNOON	AUTOMATIC	RAIN/REPEATER	High
058206	EWING BRIDGE CORNDALE (COOPERS	AUTOMATIC	RAINFALL	Medium
000200	CK)	7.010	10 111 7 122	Modiani
558035	GOONELLABAH (WYREEMA RD REPEATER)	AUTOMATIC	REPEATER	High
558033	GOONENGERRY (ALERT)	AUTOMATIC	RAINFALL	Medium
058113	GREEN PIGEON (MORNING VIEW)	AUTOMATIC	RAINFALL	Medium
058148	LILLIAN ROCK (WILLIAMS ROAD)	AUTOMATIC	RAINFALL	Medium
058214	LISMORE AIRPORT AWS	AUTOMATIC	AWS	Medium
058229	LISMORE CITY COUNCIL	AUTOMATIC	BASESTATION	Medium
058141	LOADSTONE (HIGH VIEW)	AUTOMATIC	RAINFALL	Medium
058162	NASHUA (WILSONS RIVER)	AUTOMATIC	RAINFALL	Medium
058180	NIMBIN (GOOLMANGAR CREEK)	AUTOMATIC	RAINFALL	Medium
558000	REPENTANCE (COOPERS CREEK)	AUTOMATIC	RAINFALL	Medium
058226	RICHMOND-TWEED SES	AUTOMATIC	BASESTATION	Medium
058199	ROCK VALLEY (LEYCESTER CREEK)	AUTOMATIC	RAINFALL	Medium
058147	THE CHANNON	AUTOMATIC	RAINFALL	Medium
058201	TUNCESTER (LEYCESTER CREEK)	AUTOMATIC	RAINFALL	Medium
058099	WHIPORIE POST OFFICE	AUTOMATIC	RAINFALL	Medium
204 – Clarer			. 	
058028	COALDALE (BELLONA)	AUTOMATIC	RAINFALL	Medium
059140	DORRIGO (OLD CORAMBA RD)	AUTOMATIC	RAINFALL	Medium
057005	DRAKE (VILLAGE RESOURCE CENTRE)	AUTOMATIC	RAINFALL	Medium
056199	FAIRY HILL (WYLIE CREEK)	AUTOMATIC	RAINFALL	Medium
058212	EVANS HEAD RAAF BOMBING RANGE AWS	AUTOMATIC	AWS	Medium
000212				
057014	GLEN ELGIN (GLENBROOK)	AUTOMATIC	RAINFALL	Medium

Bureau number	Station name	Gauge type	Data type	Priority
204 - Clarei	nce River (continued)			
059123	GLENREAGH	MANUAL	RIVER	Medium
056161	GUYRA (GOWAN BRAE)	AUTOMATIC	RAINFALL	Medium
058068	LAWRENCE ROAD (PRINGLES WAY)	AUTOMATIC	RAINFALL	Medium
059152	LOWANNA (LOWANNA ROAD)	AUTOMATIC	RAINFALL	Medium
059045	MELDRUM (COOLAWARRAH)	AUTOMATIC	RAINFALL	Medium
057123	NEWTON BOYD (ABBEY GREEN)	AUTOMATIC	RAINFALL	Medium
058079	PILLAR VALLEY	AUTOMATIC	RAINFALL	Medium
058231	SOUTH GRAFTON (CLARENCE REGIONAL LANDFILL)	AUTOMATIC	RAINFALL	Medium
057095	TABULAM (MUIRNE)	AUTOMATIC	RAINFALL	Medium
057020	URBENVILLE OLD POST OFFICE	AUTOMATIC	RAINFALL	Medium
056038	WYLIE CREEK (ALOOMBA)	AUTOMATIC	RAINFALL	Medium
205 – Bellin				
059078	BELLINGEN (CRYSTAL CREEK)	AUTOMATIC	RAINFALL	Medium
059086	BELLINGEN SES	AUTOMATIC	BASESTATION	Medium
059088	BELLINGEN SHIRE COUNCIL	AUTOMATIC	BASESTATION	Medium
059138	BOWRA SUGARLOAF	AUTOMATIC	RAIN/REPEATER	High
559046	BOWRAVILLE WTP	AUTOMATIC	RAINFALL	Medium
059040	COFFS HARBOUR MO	AUTOMATIC	RAINFALL	Medium
059040	COFFS HARBOUR MO	AUTOMATIC	BASESTATION	Medium
059142	COFFS HARBOUR SES	AUTOMATIC	BASESTATION	Medium
059147	COOKS CK (KALANG)	AUTOMATIC	RAINFALL	Medium
559015	DORRIGO (MOUNTAIN TOP)	AUTOMATIC	RAINFALL	Medium
059107	GIRRALONG	AUTOMATIC	RAINFALL	Medium
059146	KOOROOWI (SHARABEL)	AUTOMATIC	RAINFALL	Medium
059112	NAMBUCCA SES	AUTOMATIC	BASESTATION	Medium
059148	SPICKETTS CK (NOONANNIE)	AUTOMATIC	RAINFALL	Medium
059032	TAYLORS ARM	AUTOMATIC	RAINFALL	Medium
059070	UPPER DARKWOOD	AUTOMATIC	RAINFALL	Medium
206 - Macle	ay River			
056238	ARMIDALE AIRPORT AWS	AUTOMATIC	AWS	Medium
059122	BELLBROOK (MACLEAY RIVER)	AUTOMATIC	RAINFALL	Medium
559022	BOONANGHI	AUTOMATIC	RAIN/REPEATER	High
059145	GLADSTONE SES	AUTOMATIC	BASESTATION	Medium
056240	GUYRA (BOX POINT)	AUTOMATIC	RAINFALL	Medium
059007	KEMPSEY AIRPORT AWS	AUTOMATIC	AWS	Medium
059141	KEMPSEY SES	AUTOMATIC	BASESTATION	Medium
059085	KEMPSEY SHIRE COUNCIL	AUTOMATIC	BASESTATION	Medium
059131	MILLBANK	AUTOMATIC	RAINFALL	Medium
059128	MOPARRABAH (PARRABEL CREEK)	AUTOMATIC	RAINFALL	Medium
NA	OFFICE OF WATER - ARMIDALE	AUTOMATIC	BASESTATION	Medium
057124	POINT LOOKOUT	AUTOMATIC	RAIN/REPEATER	High
057045	TIA (HIGHRENT)	AUTOMATIC	RAINFALL	Medium
057091	URALLA (BLUE NOBBY)	AUTOMATIC	RAINFALL	Medium
056234	WALCHA (THEE ST)	AUTOMATIC	RAINFALL	Medium
059060	WITTITRIN	AUTOMATIC	RAINFALL	Medium
057079	WOLLOMOMBI (WOLLOMOMBI RIVER)	AUTOMATIC	RAINFALL	Medium
057104	YARROWITCH (MARETTO)	AUTOMATIC	RAINFALL	Medium
207 – Hastir	<u> </u>			_
060161	COMBOYNE PUBLIC SCHOOL	AUTOMATIC	RAINFALL	Medium
060121	ELANDS (BLACK SANDS CREEK)	AUTOMATIC	RAINFALL	Medium
060130	FORBES RIVER (BIRDWOOD)	AUTOMATIC	RAINFALL	Medium
060149	FORSTER PACIFIC PALMS SES	AUTOMATIC	BASESTATION	Medium
060150	GREAT LAKES COUNCIL - FOSTER	AUTOMATIC	BASESTATION	Medium
060166	LONG FLAT (REPEATER)	AUTOMATIC	REPEATER	High
060151	HASTINGS COUNCIL - PORT MACQUARIE	AUTOMATIC	BASESTATION	Medium
060139	PORT MACQUARIE AIRPORT AWS	AUTOMATIC	AWS	Medium
060067	UPPER PAPPINBARRA (HILLCREST)	AUTOMATIC	RAINFALL	Medium

Bureau number	Station name	Gauge type	Data type	Priority
207 - Hastir	ngs River (continued)			
060052	UPPER ROLLANDS PLAINS (GREENACRES)	AUTOMATIC	RAINFALL	Medium
060085	YARRAS (MOUNT SEAVIEW)	AUTOMATIC	RAINFALL	Medium
060163	YARRAS MOUNTAIN	AUTOMATIC	RAINFALL	Medium
208 – Manni		•		1
061413	CAREYS PEAK (BARRINGTON TOPS)	AUTOMATIC	RAIN/REPEATER	High
060152	COBARK	AUTOMATIC	RAINFALL	Medium
560029	COOPLACURRIPA (GLAMIS)	AUTOMATIC	RAIN/REPEATER	High
060162	COOPLACURRIPA (HAWKINS RD)	AUTOMATIC	RAINFALL	Medium
060154 060042	COPELAND TOPS (COPELAND) CRAVEN (LONGVIEW)	AUTOMATIC AUTOMATIC	REPEATER RAINFALL	High Medium
560028	CURRICABARK	AUTOMATIC	RAINFALL	Medium
060015	GLOUCESTER POST OFFICE	AUTOMATIC	RAINFALL	Medium
060156	GLOUCESTER SES	AUTOMATIC	BASESTATION	Medium
060147	KILLABAKH	AUTOMATIC	RAINFALL	Medium
060165	MOORAL CREEK (THE DEN)	AUTOMATIC	RAIN/REPEATER	High
060153	MOPPY LOOKOUT (BARRINGTON TOPS)	AUTOMATIC	RAINFALL	Medium
060104	NOWENDOC (GREEN HILLS)	AUTOMATIC	RAINFALL	Medium
060141	TAREE AIRPORT AWS	AUTOMATIC	AWS	Medium
060075	UPPER BOWMAN	AUTOMATIC	RAINFALL	Medium
060093	UPPER LANSDOWNE (MONTEREY)	AUTOMATIC	RAINFALL	Medium
060155	WAUKIVORY	AUTOMATIC	RAINFALL	Medium
060164	YARROWITCH (RUSHBROOK)	AUTOMATIC	RAINFALL	Medium
209 – Karua				
060095	BUNGWAHL	AUTOMATIC	RAINFALL	Medium
060096	CABBAGE TREE MOUNTAIN	AUTOMATIC	RAINFALL	Medium
060099	CRAWFORD	AUTOMATIC	RAINFALL	Medium
060103	KRAMBACH (TIPPERARY)	AUTOMATIC	RAINFALL	Medium
060148	WILLINA	AUTOMATIC	RAINFALL	Medium
060065	WOOTTON	AUTOMATIC	RAINFALL	Medium
210 – Hunte		ALITOMATIO	DAINEALL	NA . I'
561044	ANTIENE CK AT LIDDELL	AUTOMATIC	RAINFALL	Medium
061423 561122	BAERAMI (THE OLD DAIRY) BARRINGTON (BONNIE DOON SALISBURY)	AUTOMATIC AUTOMATIC	RAINFALL RAINFALL	Medium
061100		AUTOMATIC	RAINFALL	Medium
061007	BROKE (HARROWBY) BUNNAN (MILHAVEN)	AUTOMATIC	RAINFALL	Medium Medium
062102	BYLONG (BYLONG ROAD)	AUTOMATIC	RAINFALL	Medium
062107	BYLONG (GLENVIEW)	AUTOMATIC	RAIN/REPEATER	High
061146	CARROW BROOK	AUTOMATIC	RAINFALL	Medium
062108	CASSILIS (THISTLEDALE)	AUTOMATIC	RAINFALL	Medium
061260	CESSNOCK AIRPORT AWS	AUTOMATIC	AWS	Medium
061017	DUNGOG POST OFFICE	AUTOMATIC	RAINFALL	Medium
061092	ELDERSLIE	AUTOMATIC	RAINFALL	Medium
061024	GRESFORD POST OFFICE	AUTOMATIC	RAINFALL	Medium
061346	HUNTER SPRINGS (WONDECLA)	AUTOMATIC	RAINFALL	Medium
561137	HUNTER WATER - TOMAGO	AUTOMATIC	BASESTATION	Medium
061316	MERRIWA (MAR-LEA)	AUTOMATIC	RAINFALL	Medium
061287	MERRIWA (ROSCOMMON)	AUTOMATIC	RAINFALL	Medium
061422	MILBRODALE SCHOOL	AUTOMATIC	RAINFALL	Medium
061420	MIRANNIE (MAERANIE STATION)	AUTOMATIC	RAINFALL	Medium
061417	MOUNT ALLYN REPEATER	AUTOMATIC	REPEATER	High
061418	MOUNT BARRINGTON	AUTOMATIC	RAIN/REPEATER	High
061195	MURRURUNDI (TIMOR)	AUTOMATIC	RAINFALL	Medium
061051	MURRURUNDI POST OFFICE	AUTOMATIC	RAINFALL	Medium
061281	NEWCASTLE RADAR	AUTOMATIC	BASESTATION	Medium
061056	POKOLBIN (BEN EAN)	AUTOMATIC	RAINFALL	Medium
061401	SCONE (FIGTREE GULLY)	AUTOMATIC	RAIN/REPEATER	High
061410	SCONE (STONEY CREEK)	AUTOMATIC	BASESTATION BAIN/BEDEATER	Medium
061402	SCONE (STONEY CREEK)	AUTOMATIC	RAIN/REPEATER	High

Bureau number	Station name	Gauge type	Data type	Priority
210 - Hunte	r River (continued)			
061363	SCONE AIRPORT AWS	AUTOMATIC	AWS	Medium
061421	TANGORY MOUNTAIN	AUTOMATIC	RAIN/REPEATER	High
062036	ULAN WATER	AUTOMATIC	RAINFALL	Medium
061290	UPPER ALLYN TOWNSHIP	AUTOMATIC	RAINFALL	Medium
061350	UPPER CHICHESTER (SIMMONDS)	AUTOMATIC	RAINFALL	Medium
061415	UPPER MYALL CREEK	AUTOMATIC	RAINFALL	Medium
061135	UPPER ROUCHEL (MOUNT VIEW)	AUTOMATIC	RAINFALL	Medium
061201	WATAGAN CENTRAL	AUTOMATIC	RAINFALL	Medium
061226	WOLLOMBI (ST JOHNS CHURCH)	AUTOMATIC	RAINFALL	Medium
	uarie-Tuggerah Lakes	ALITONATIO	DAINEALL	1 8 4 1 ¹
061406	BLACKSMITHS	AUTOMATIC	RAINFALL	Medium
061012	COORANBONG (AVONDALE)	AUTOMATIC	RAINFALL	Medium
061383	GEARS (WYONG RIVER)	AUTOMATIC	RAINFALL	Medium
061380	JILLIBY (JILLIBY CREEK)	AUTOMATIC	RAINFALL	Medium
561136	GOSFORD CITY COUNCIL	AUTOMATIC	BASESTATION	Medium
563072	MT PANORAMA	AUTOMATIC	REPEATER	High
061384	KANGY ANGY (OURIMBAH CREEK)	AUTOMATIC	RAINFALL	Medium
061382	KULNURA (JEAVONS)	AUTOMATIC	RAINFALL	Medium
061412	LAKE MACQUARIE AWS	AUTOMATIC	AWS	Medium
061381	MOUNT ELLIOT	AUTOMATIC	RAINFALL	Medium
061366	NORAH HEAD AWS	AUTOMATIC	AWS	Medium
561030	SCADDENS RIDGE	AUTOMATIC	REPEATER	High
061385	WYONG (OLNEY FOREST)	AUTOMATIC	RAINFALL	Medium
561025	WYONG D/S BRIDGE (WYONG RIVER)	AUTOMATIC	RAINFALL	Medium
061409	WYONG SHIRE COUNCIL	AUTOMATIC	BASESTATION	Medium
	esbury River	ALITOMATIC		Litaria
568164	APPIN (WILTON ROAD)	AUTOMATIC	RAIN/REPEATER	High
066053	AVALON (WOLLSTONECRAFT AVE)	AUTOMATIC	RAINFALL	Medium
570023 063118	BIG HILL (LONGVIEW) BILPIN (FERN GROVE)	AUTOMATIC AUTOMATIC	RAIN/REPEATER RAINFALL	High Medium
	BLACKHEATH (WOMBAT STREET)	AUTOMATIC	RAINFALL	
063295 068255	BOWRAL (ORCHARD ST)	AUTOMATIC	RAINFALL	Medium Medium
068102	BOWRAL (PARRY DRIVE)	AUTOMATIC	RAINFALL	Medium
067104	BOX HILL (HYNDS ROAD)	AUTOMATIC	RAINFALL	Medium
067104	BRINGELLY (MARYLAND)	AUTOMATIC	RAINFALL	Medium
067013	CAMPBELLTOWN (MOUNT ANNAN)	AUTOMATIC	RAINFALL	Medium
567066	CECIL PARK (ERTS)	AUTOMATIC	REPEATER	High
563031	CLARENCE (ZIG ZAG)	AUTOMATIC	RAINFALL	Medium
561035	COLO HEIGHTS (SAWMILL)	AUTOMATIC	RAIN/REPEATER	High
063081	FAULCONBRIDGE (GREAT WESTERN HWY)	AUTOMATIC	RAINFALL	Medium
061334	GLEN ALICE	AUTOMATIC	RAINFALL	Medium
570022	GOULBURN (MT GRAY)	AUTOMATIC	RAIN/REPEATER	High
070330	GOULBURN AIRPORT AWS	AUTOMATIC	AWS	Medium
061396	GRASSY HILL	AUTOMATIC	REPEATER	High
568166	HIGH RANGE (MERRIOOLA)	AUTOMATIC	RAIN/REPEATER	High
067119	HORSLEY PARK EQUESTRIAN CENTRE	AUTOMATIC	AWS	Medium
	AWS			
061110	HOWES VALLEY	AUTOMATIC	RAIN/REPEATER	High
563025	KURRAJONG HEIGHTS (ERTS)	AUTOMATIC	RAIN/REPEATER	High
070036	LAKE BATHURST (SOMERTON)	AUTOMATIC	RAINFALL	Medium
061375	MANGROVE MOUNTAIN AWS	AUTOMATIC	AWS	Medium
567063	MAROOTA (TOBRUK)	AUTOMATIC	RAIN/REPEATER	High
068216	MENANGLE BRIDGE (NEPEAN RIVER)	AUTOMATIC	RAIN/RIVER	Medium
068239	MOSS VALE AWS	AUTOMATIC	AWS	Medium
063292	MOUNT BOYCE AWS	AUTOMATIC	AWS	Medium
568158	MT PIDDINGTON (ERTS)	AUTOMATIC	REPEATER	High
563009	NORTH RICHMOND (HOSPITAL)	AUTOMATIC	RAIN/REPEATER	High
067113	PENRITH LAKES AWS	AUTOMATIC	AWS	Medium

Bureau	Station name	Gauge type	Data type	Priority
number		Caage type	Data type	1 Hority
	esbury River (continued)	T		T
061336	PUTTY (THE GIBBA)	AUTOMATIC	RAINFALL	Medium
061209	PUTTY TEA ROOMS	AUTOMATIC	RAINFALL	Medium
063288	PUTTY ROAD	MANUAL	RIVER	Medium
067105	RICHMOND RAAF	AUTOMATIC	RAINFALL	Medium
068054	ROBERTSON (CAALONG STREET)	AUTOMATIC	RAINFALL	Medium
068224	ROBERTSON (THE PIE SHOP)	AUTOMATIC	RAIN/REPEATER	High
067061	ROSSMORE (SOUTH CREEK)	AUTOMATIC	RAINFALL	Medium
567068	SACKVILLE	AUTOMATIC	RAIN/REPEATER	High
563028	SHOOTERS HILL (ERTS)	AUTOMATIC	RAIN/REPEATER	High
061217	ST ALBANS (ESPIE ST)	AUTOMATIC	RAINFALL	Medium
061426	ST ALBANS (JACKS TRAIL)	AUTOMATIC	REPEATER	High
067102	ST CLAIR (JUBA CLOSE)	AUTOMATIC	RAINFALL	Medium
570026	TARALGA (SUMMERLEE)	AUTOMATIC	RAINFALL	Medium
567099	WARRAGAMBA DAM	AUTOMATIC	RAINFALL	Medium
NA 007440	WILBERFORCE SES	AUTOMATIC	BASESTATION	Medium
067116	WILLMOT (RESOLUTION AVE)	AUTOMATIC	RAINFALL	Medium
	y Coast-Georges River AUBURN (ROSNAY GOLF CLUB)	ALITOMATIC	DAINEALI	Madium
566059 066137	,	AUTOMATIC AUTOMATIC	RAINFALL AWS	Medium
066194	BANKSTOWN AIRPORT AWS CANTERBURY RACECOURSE AWS	AUTOMATIC	AWS	Medium
066011	CHATSWOOD BOWLING CLUB	AUTOMATIC	RAINFALL	Medium Medium
068024	DARKES FOREST (KINTYRE)	AUTOMATIC	RAINFALL	Medium
067114	FAIRFIELD CITY FARM	AUTOMATIC	RAINFALL	Medium
066182	FRENCHS FOREST (FRENCHS FOREST	AUTOMATIC	RAINFALL	Medium
000102	RD)	AUTOWATIC	RAINFALL	Medium
566060	GUILDFORD (WOODVILLE GOLF CLUB)	AUTOMATIC	RAINFALL	Medium
067117	HOLSWORTHY CONTROL RANGE	AUTOMATIC	RAINFALL	Medium
566058	HURSTVILLE (ERTS)	AUTOMATIC	REPEATER	High
566057	INGLEBURN (LONG POINT)	AUTOMATIC	RAIN/REPEATER	High
068160	KENTLYN (GEORGES RIVER ROAD)	AUTOMATIC	RAINFALL	Medium
566064	LIDCOMBE (CARNARVON GOLF CLUB)	AUTOMATIC	RAINFALL	Medium
066051	LITTLE BAY (THE COAST GOLF CLUB)	AUTOMATIC	RAINFALL	Medium
067020	LIVERPOOL (MICHAEL WENDEN CENTRE)	AUTOMATIC	RAINFALL	Medium
566013	LIVERPOOL-SCRIVENER ST (GEORGES	AUTOMATIC	RAINFALL	Medium
2222	RIVER)	41170144710	DAINEALL	
066078	LUCAS HEIGHTS (ANSTO)	AUTOMATIC	RAINFALL	Medium
NA	MANLY HYDRAULICS LABORATORY	AUTOMATIC	BASESTATION	Medium
066036	MARRICKVILLE GOLF CLUB	AUTOMATIC	RAINFALL	Medium
066168	MILPERRA BRIDGE (GEORGES RIVER)	AUTOMATIC	RAINFALL	Medium
066141	MONA VALE GOLF CLUB	AUTOMATIC	RAINFALL	Medium
566000	PARRAMATTA (ERTS)	AUTOMATIC	RAIN/REPEATER	High
066148	PEAKHURST GOLF CLUB	AUTOMATIC	RAINFALL	Medium
067019	PROSPECT RESERVOIR	AUTOMATIC	RAINFALL	Medium
568069	REVERCES	AUTOMATIC	RAINFALL	Medium
066098	ROSE BAY (ROYAL SYDNEY GOLF CLUB)	AUTOMATIC	RAINFALL	Medium
066058	SANS SOUCI (PUBLIC SCHOOL)	AUTOMATIC	RAINFALL	Medium
066070	STRATHFIELD GOLF CLUB	AUTOMATIC	RAINFALL	Medium
066125 066062	SUTHERLAND SES SYDNEY (OBSERVATORY HILL)	AUTOMATIC	BASESTATION RAINFALL	Medium Medium
066037	SYDNEY (OBSERVATORY HILL) SYDNEY AIRPORT AMO	AUTOMATIC	RAINFALL	Medium
067028	SYDNEY AIRPORT AIRO SYDNEY CATCHMENT AUTHORITY -	AUTOMATIC	BASESTATION	Medium
007020	PENRITH	AUTOWATIC	DAGLOTATION	
067038	SYDNEY NORTHERN SES	AUTOMATIC	BASESTATION	Medium
066212	SYDNEY OLYMPIC PARK AWS (ARCHERY	AUTOMATIC	AWS	Medium
	CENTRE)			
066207	SYDNEY SOUTHERN SES	AUTOMATIC	BASESTATION	Medium
067034	SYDNEY WESTERN SES	AUTOMATIC	BASESTATION	Medium
NA	THEISS SERVICES BLACKTOWN	AUTOMATIC	BASESTATION	Medium
566063	TERREY HILLS REPEATER	AUTOMATIC	REPEATER	High

Bureau number	Station name	Gauge type	Data type	Priority
213 – Sydne	y Coast-Georges River (continued)			
067041	UPPER PARRAMATTA RIVER CATCHMENT TRUST	AUTOMATIC	BASESTATION	Medium
066211	WAHROONGA (ADA AVENUE)	AUTOMATIC	RAINFALL	Medium
068159	WEDDERBURN (BOOALBYN)	AUTOMATIC	RAINFALL	Medium
566052	WORONORA DAM (HELIPORT)	AUTOMATIC	RAIN/REPEATER	High
214 – Wollo	ngong Coast			
068000	ALBION PARK POST OFFICE	AUTOMATIC	RAINFALL	Medium
066176	AUDLEY (ROYAL NATIONAL PARK)	AUTOMATIC	RAINFALL	Medium
068228	BELLAMBI AWS	AUTOMATIC	AWS	Medium
568131	CRINGILA (JARVIE RD)	AUTOMATIC	RAIN/REPEATER	High
066014	CRONULLA SOUTH BOWLING CLUB	AUTOMATIC	RAINFALL	Medium
068241	WOLLONGONG AIRPORT	AUTOMATIC	RAINFALL	Medium
215 - Shoal	haven River			
068217	BARRENGARRY (OLD SCHOOL HOUSE)	AUTOMATIC	RAINFALL	Medium
069132	BRAIDWOOD RACECOURSE AWS	AUTOMATIC	AWS	Medium
568084	BUMBULLA	AUTOMATIC	RAINFALL	Medium
570058	DOUGHBOY HILL	AUTOMATIC	RAINFALL	Medium
068248	FITZROY FALLS (RED HILLS)	AUTOMATIC	RAINFALL	Medium
068233	GRASSY GULLY (SHOALHAVEN RIVER)	AUTOMATIC	RAINFALL	Medium
068181	HAMPDEN BRIDGE (KANGAROO RIVER)	AUTOMATIC	RAINFALL	Medium
070335	HILLVIEW (SHOALHAVEN RIVER)	AUTOMATIC	RAINFALL	Medium
069150	MONGARLOWE (LEWESTON)	AUTOMATIC	RAINFALL	Medium
569019	MOUNTVIEW (SHOALHAVEN RIVER)	AUTOMATIC	RAINFALL	Medium
069049	NERRIGA COMPOSITE	AUTOMATIC	RAINFALL	Medium
068213	NOWRA BOAT SHED (SHOALHAVEN RIVER)	AUTOMATIC	RAINFALL	Medium
068072	NOWRA RAN AIR STATION AWS	AUTOMATIC	AWS	Medium
NA	NOWRA SES	AUTOMATIC	BASESTATION	Medium
NA	NOWRA WEST	AUTOMATIC	BASESTATION	Medium
568169	RED ROCKS (ERTS)	AUTOMATIC	REPEATER	High
068256	SHOALHAVEN CITY COUNCIL	AUTOMATIC	BASESTATION	Medium
069062	SNOWBALL	AUTOMATIC	RAINFALL	Medium
568155	TALLONG (THROSBY POINT)	AUTOMATIC	RAIN/REPEATER	High
068249	TOUGA	AUTOMATIC	RAINFALL	Medium
068218	WATTAMOLLA (GRIFFITHS)	AUTOMATIC	RAINFALL	Medium
568146	YALWAL	AUTOMATIC	RAIN/REPEATER	High
	River-Jervis Bay			
069121	BROOMAN (CARISBROOK)	AUTOMATIC	RAINFALL	Medium
069138	ULLADULLA AWS	AUTOMATIC	AWS	Medium
217 – Moruy				
069127	ARALUEN LOWER (ARALUEN RD)	AUTOMATIC	RAINFALL	Medium
569020	BENDETHERA	AUTOMATIC	RAINFALL	Medium
069006	BETTOWYND (CONDRY)	AUTOMATIC	RAINFALL	Medium
069035	BETTOWYND (NOBBYS HILL)	AUTOMATIC	RAINFALL	Medium
070061	MAJORS CREEK (THE OLD SCHOOL)	AUTOMATIC	RAINFALL	Medium
069033	MORUYA (BURRA CREEK)	AUTOMATIC	RAINFALL	Medium
069145	MORUYA (PLUMWOOD)	AUTOMATIC	RAIN/REPEATER	High
069042	MORUYA (THE LAGOON)	AUTOMATIC	RAINFALL	Medium
069148	MORUYA AIRPORT AWS	AUTOMATIC	AWS	Medium
218 – Turos 069036	s River BODALLA POST OFFICE	AUTOMATIC	RAINFALL	Medium
219 – Bega				
069139	BEGA AWS	AUTOMATIC	AWS	Medium
069133	BEMBOKA (THE KNOB)	AUTOMATIC	RAINFALL	Medium
069107	KAMERUKA (KAMERUKA ESTATE)	AUTOMATIC	RAINFALL	Medium
069152	MOUNT DARRAGH TM	AUTOMATIC	RAINFALL	Medium
220 – Towai				
069137	GREEN CAPE AWS	AUTOMATIC	AWS	Medium

Bureau number	Station name	Gauge type	Data type	Priority
220 - Towan	nba River (continued)			
069147	MERIMBULA AIRPORT AWS	AUTOMATIC	AWS	Medium
222 – Snowy				,
070328	BOMBALA AWS	AUTOMATIC	AWS	Medium
070237	NIMMITABEL (COTTESLOE)	AUTOMATIC	RAINFALL	Medium
071032	THREDBO AWS	AUTOMATIC	AWS	Medium
	Murray River			
072162	KHANCOBAN AWS	AUTOMATIC	AWS	Medium
409 – Murray				
072160	ALBURY AIRPORT AWS	AUTOMATIC	AWS	Medium
	mbidgee River	I		1
072152	ARGALONG (SANDY CREEK)	AUTOMATIC	RAINFALL	Medium
072004	BATLOW POST OFFICE	AUTOMATIC	RAINFALL	Medium
073005	BINALONG POST OFFICE	AUTOMATIC	RAINFALL	Medium
073050	BOWNING (WANGANUI)	AUTOMATIC	RAINFALL	Medium
071073	BRINDABELLA (KOOLAMI)	AUTOMATIC	RAINFALL	Medium
073115	BRUNGLE (BONNIE DOON)	AUTOMATIC	RAINFALL	Medium
072161	CABRAMURRA SMHEA AWS	AUTOMATIC	AWS	Medium
070351	CANBERRA AIRPORT	AUTOMATIC	RAINFALL	Medium
070341	CAPTAINS FLAT (COWANGERONG RADAR)	AUTOMATIC	BASESTATION	Medium
070016	CAPTAINS FLAT (FOXLOW ST)	AUTOMATIC	RAIN/REPEATER	High
072012	CARABOST	AUTOMATIC	RAINFALL	Medium
070217	COOMA AIRPORT AWS	AUTOMATIC	AWS	Medium
073142	COOTAMUNDRA AIRPORT	AUTOMATIC	RAINFALL	Medium
070201	GOOGONG HILL	AUTOMATIC	REPEATER	High
070352	COOMA-MONARO SES	AUTOMATIC	BASESTATION	Medium
070353	ECOWISE ENVIRONMENTAL - FYSHWICK	AUTOMATIC	BASESTATION	Medium
075041	GRIFFITH AIRPORT AWS	AUTOMATIC	AWS	Medium
073141	GUNDAGAI (WILLIAM ST)	AUTOMATIC	RAINFALL	Medium
075019	HAY AIRPORT AWS	AUTOMATIC	AWS	Medium
070321	JERANGLE (LYONS CREEK)	AUTOMATIC	RAINFALL	Medium
070349	MOUNT GININI AWS	AUTOMATIC	AWS	Medium
073029	MURRUMBURRAH OLD POST OFFICE	AUTOMATIC	RAINFALL	Medium
073137	MUTTAMA (GROVENE)	AUTOMATIC	RAINFALL	Medium
570057	NATIONAL CAPITAL AUTHORITY	AUTOMATIC	BASESTATION	Medium
	CANBERRA			
070214	PARKERS GAP	AUTOMATIC	RAINFALL	Medium
072150	WAGGA WAGGA AMO	AUTOMATIC	RAINFALL	Medium
074037	YANCO AGRICULTURAL INSTITUTE	AUTOMATIC	RAINFALL	Medium
070091	YASS (LINTON HOSTEL)	AUTOMATIC	RAINFALL	Medium
412- Lachlai				
063294	BLAYNEY (ORANGE ROAD)	AUTOMATIC	RAINFALL	Medium
050137	CONDOBOLIN AIRPORT AWS	AUTOMATIC	AWS	Medium
065111	COWRA AIRPORT AWS	AUTOMATIC	AWS	Medium
065010	CUDAL POST OFFICE	AUTOMATIC	RAINFALL	Medium
070112	DALTON POST OFFICE	AUTOMATIC	RAINFALL	Medium
049125	EUABALONG	MANUAL	RIVER	Medium
065013	EUGOWRA -TOWN	MANUAL	RIVER	Medium
065103	FORBES AIRPORT AWS	AUTOMATIC	AWS	Medium
063032	GOLSPIE (AYRSTON)	AUTOMATIC	RAINFALL	Medium
073014	GRENFELL (MANGANESE RD)	AUTOMATIC	RAINFALL	Medium
075032	HILLSTON AIRPORT	AUTOMATIC	RAINFALL	Medium
049000	IVANHOE AERODROME AWS	AUTOMATIC	AWS	Medium
075039	LAKE CARGELLIGO AIRPORT	AUTOMATIC	RAINFALL	Medium
065096	MANDAGERY (RAWENE)	AUTOMATIC	RAINFALL	Medium
063245	MANDURAMA POST OFFICE	AUTOMATIC	RAINFALL	Medium
065022	MANILDRA (HAZELDALE)	AUTOMATIC	RAINFALL	Medium
065068	PARKES AIRPORT AWS	AUTOMATIC	AWS	Medium
073150	STOCKINBINGAL (SUNNYDALE)	AUTOMATIC	RAINFALL	Medium
063061	TRUNKEY (OLD POST OFFICE)	AUTOMATIC	RAINFALL	Medium

Bureau number	Station name	Gauge type	Data type	Priority
412- Lachla	n River (continued)			1
050017	WEST WYALONG AIRPORT AWS	AUTOMATIC	AWS	Medium
073138	YOUNG AIRPORT	AUTOMATIC	RAINFALL	Medium
416 – Borde	rrivers			
056139	BEN LOMOND (KOALA)	AUTOMATIC	RAINFALL	Medium
054159	BUKKULLA (ASHFORD ROAD)	AUTOMATIC	RAINFALL	Medium
056111	ELSMORE (DANTHONIA)	AUTOMATIC	RAINFALL	Medium
056237	ELSMORE VILLAGE	AUTOMATIC	RAINFALL	Medium
056009	EMMAVILLE POST OFFICE	AUTOMATIC	RAINFALL	Medium
056013	GLEN INNES AG RESEARCH STN	AUTOMATIC	RAINFALL	Medium
056243	GLEN INNES AIRPORT AWS	AUTOMATIC	AWS	Medium
056242	INVERELL (RAGLAN ST)	AUTOMATIC	RAINFALL	Medium
056018	INVERELL RESEARCH CENTRE	AUTOMATIC	RAINFALL	Medium
054076	KINGS PLAINS (WINDERMERE)	AUTOMATIC	RAINFALL	Medium
052020	MUNGINDI POST OFFICE	AUTOMATIC	RAINFALL	Medium
054065	NULLAMANNA (SILVERDALE)	AUTOMATIC	RAINFALL	Medium
054104	PINDARI DAM	AUTOMATIC	RAINFALL	Medium
556015	STANNIFER (RUBICON)	AUTOMATIC	RAINFALL	Medium
056128	SWAN VALE (NUMERALLA)	AUTOMATIC	RAINFALL	Medium
418 – Gwydi	r Rivers			
054021	BARRABA (MOUNT LINDESAY)	AUTOMATIC	RAINFALL	Medium
054039	BINGARA (KEERA)	AUTOMATIC	RAINFALL	Medium
054004	BINGARA POST OFFICE	AUTOMATIC	RAINFALL	Medium
056006	BUNDARRA POST OFFICE	AUTOMATIC	RAINFALL	Medium
054153	CARODA (PALEROO)	AUTOMATIC	RAINFALL	Medium
054013	DELUNGRA POST OFFICE	AUTOMATIC	RAINFALL	Medium
053115	MOREE AERO	AUTOMATIC	RAINFALL	Medium
053108	TERRY HIE HIE	AUTOMATIC	RAINFALL	Medium
056033	TINGHA POST OFFICE	AUTOMATIC	RAINFALL	Medium
054138	UPPER HORTON (DUNBEACON)	AUTOMATIC	RAINFALL	Medium
056034	URALLA (DUMARESQ ST)	AUTOMATIC	RAINFALL	Medium
054029	WARIALDA POST OFFICE	AUTOMATIC	RAINFALL	Medium
419 – Namoi		<u> </u>		
053002	BARADINE FORESTRY	AUTOMATIC	RAINFALL	Medium
054003	BARRABA POST OFFICE	AUTOMATIC	RAINFALL	Medium
055308	BENDEMEER (BONNA)	AUTOMATIC	RAINFALL	Medium
055286	NAMOI (MT BLACK JACK)	AUTOMATIC	BASESTATION	Medium
055006	BLACKVILLE POST OFFICE	AUTOMATIC	RAINFALL	Medium
054105	BUNDARRA (GRANITE HEIGHTS)	AUTOMATIC	RAINFALL	Medium
055337	CRAWNEY MOUNTAIN	AUTOMATIC	RAIN/REPEATER	High
055257	DURI (DUNGOWAN RD)	AUTOMATIC	RAINFALL	Medium
055309	GLENDOWER MOUNTAIN (LECONFIELD)	AUTOMATIC	RAIN/REPEATER	High
055202	GUNNEDAH AIRPORT AWS	AUTOMATIC	AWS	Medium
055082	MANILLA (WARRABAH)	AUTOMATIC	RAINFALL	Medium
055031	MANILLA POST OFFICE	AUTOMATIC	RAINFALL	Medium
061419	MOUNT PALMER	AUTOMATIC	RAIN/REPEATER	High
055322	MOUNT SANDON	AUTOMATIC	RAINFALL	Medium
055038	MULLALEY POST OFFICE	AUTOMATIC	RAINFALL	Medium
061392	MURRURUNDI GAP AWS	AUTOMATIC	AWS	Medium
054038	NARRABRI AIRPORT AWS	AUTOMATIC	AWS	Medium
054151	NARRABRI (MT KAPUTAR NATIONAL PARK)	AUTOMATIC	RAIN/REPEATER	High
055336	NUNDLE (HEAD OF THE PEEL)	AUTOMATIC	RAINFALL	Medium
055245	NUNDLE (KEEVA)	AUTOMATIC	RAINFALL	Medium
055335	NUNDLE (MALONGA)	AUTOMATIC	RAINFALL	Medium
555032	NUNDLE SES	AUTOMATIC	BASESTATION	Medium
055262	OGUNBIL (AMAROO)	AUTOMATIC	RAINFALL	Medium
055046	PINE RIDGE (BILLABONG)	AUTOMATIC	RAINFALL	Medium
053114	ROCKY GLEN (BORAH STATION)	AUTOMATIC	RAINFALL	Medium
055325	TAMWORTH AIRPORT AWS	AUTOMATIC	AWS	Medium

Bureau	Station name	Course tyme	Data tuma	Driority
number	Station name	Gauge type	Data type	Priority
419 – Namoi	River (continued)			
555031	TAMWORTH REGIONAL COUNCIL	AUTOMATIC	BASESTATION	Medium
555030	TAMWORTH SES	AUTOMATIC	BASESTATION	Medium
052088	WALGETT AIRPORT AWS	AUTOMATIC	AWS	Medium
055164	WEABONGA (STONELEIGH)	AUTOMATIC	RAINFALL	Medium
419 – Castle				
064027	COONABARABRAN (BARINA -TM)	AUTOMATIC	RAINFALL	Medium
064017	COONABARABRAN AIRPORT AWS	AUTOMATIC	AWS	Medium
051161	COONAMBLE AIRPORT AWS	AUTOMATIC	AWS	Medium
064007	NEILREX (CAIGAN)	AUTOMATIC	RAINFALL	Medium
064020	PURLEWAUGH (KEODOEL LANE)	AUTOMATIC	RAINFALL	Medium
	ıarie-Bogan Rivers			
050119	ALECTOWN (VANVILLA)	AUTOMATIC	RAINFALL	Medium
063291	BATHURST AIRPORT AWS	AUTOMATIC	AWS	Medium
063239	BATHURST REGIONAL COUNCIL	AUTOMATIC	BASESTATION	Medium
NA	BATHURST REGIONAL COUNCIL DEPOT	AUTOMATIC	BASESTATION	Medium
063287	BATHURST STANLEY STREET	AUTOMATIC	RAINFALL	Medium
	(MACQUARIE RIVER)			
563034	BEN BULLEN (CLEARVIEW)	AUTOMATIC	RAIN/REPEATER	High
065110	BORENORE (LYNDEN-BRAE)	AUTOMATIC	RAINFALL	Medium
063298	CAMPBELLS RIVER (UPSTREAM CHIFLEY)	AUTOMATIC	RAINFALL	Medium
064025	COOLAH (BINNIA ST)	AUTOMATIC	RAINFALL	Medium
065051	CUMNOCK TM	AUTOMATIC	RAINFALL	Medium
065070	DUBBO AIRPORT AWS	AUTOMATIC	AWS	Medium
064029	DUNEDOO (SHELL)	AUTOMATIC	RAINFALL	Medium
051160	GILGANDRA COUNCIL DEPOT	AUTOMATIC	RAINFALL	Medium
050016	GOONUMBLA (CORADGERY)	AUTOMATIC	RAINFALL	Medium
063283	HAMPTON (BINDO)	AUTOMATIC	RAINFALL	Medium
062106	MOLONG (BONNIE DOON)	AUTOMATIC	RAINFALL	Medium
065041	MOLONG TM	AUTOMATIC	RAINFALL	Medium
062101	MUDGEE AIRPORT AWS	AUTOMATIC	AWS	Medium
048225	MULGAWARRINA	MANUAL	RIVER	Medium
065098	NEUREA (FERNFIELD)	AUTOMATIC	RAINFALL	Medium
063264	NEWBRIDGE (STRINGYBARK RD)	AUTOMATIC	RAINFALL	Medium
062100	NULLO MOUNTAIN AWS	AUTOMATIC	AWS	Medium
063293	OBERON (JENOLAN CAVES ROAD)	AUTOMATIC	RAINFALL	Medium
063302	OBERON (MOUNT DAVID)	AUTOMATIC	RAINFALL	Medium
063254	ORANGE AGRICULTURAL INSTITUTE	AUTOMATIC	RAINFALL	Medium
063303	ORANGE AIRPORT AWS	AUTOMATIC	AWS	Medium
563082	ORANGE STP	AUTOMATIC	BASESTATION	Medium
563086	ORANGE SES	AUTOMATIC	BASESTATION	Medium
050031	PEAK HILL POST OFFICE	AUTOMATIC	RAINFALL	Medium
063304	ROCKLEY (GLENLEA)	AUTOMATIC	RAINFALL	Medium
062010	STUART TOWN (MOOKER HILL)	AUTOMATIC	RAINFALL	Medium
063297	TARANA (FISH RIVER)	AUTOMATIC	RAINFALL	Medium
051049	TRANGIE RESEARCH STATION AWS	AUTOMATIC	AWS	Medium
065036	YEOVAL POST OFFICE	AUTOMATIC	RAINFALL	Medium
423 – Warre		, ,		
048245	BOURKE AIRPORT AWS	AUTOMATIC	AWS	Medium
048039	ENNGONIA	MANUAL	RIVER	Medium
424 – Paroo				
046012	WILCANNIA AERODROME AWS	AUTOMATIC	AWS	Medium
048181	WANAARING	MANUAL	RIVER	Medium
425 – Darlin		IVII (I TOAL	INVER	iviouiuiii
047007	BROKEN HILL (PATTON STREET)	AUTOMATIC	RAINFALL	Medium
047048	BROKEN HILL AIRPORT AWS	AUTOMATIC	AWS	Medium
047048	COBAR MO	AUTOMATIC	RAINFALL	Medium
U46027	CODAIN IVIO	AUTOWATIO	IVAIINEALL	INICUIUIII

Notes:

- Does not include daily rainfall and other Bureau synoptic stations. AWS Automatic Weather Station

Schedule 8: List of sites where the Bureau assists other agencies with maintenance

Bureau number	Station name	Owner	Gauge type	Data type	Priority
	ger River Valley				
058222	MINNIE WATER PUMP SHED	COUNCIL	AUTOMATIC	RAINFALL	Medium
058223	SANDSTONE HILL	COUNCIL	AUTOMATIC	RAIN/REPEATER	High
558068	WOOLI (BROWNS KNOB)	COUNCIL	AUTOMATIC	RAINFALL	Medium
	WOOLI RIVER AT CARAVAN	COUNCIL		RAINFALL	Medium
558060	PARK		AUTOMATIC		
210 - Hunte	r River Valley		•		
561101	CRESSFIELD	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
561099	DRY CREEK (SCONE)	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
061360	KINGDOM PONDS	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
061373	PARKVILLE	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
061401	SCONE (FIGTREE GULLY)	COUNCIL	AUTOMATIC	RAIN/REPEATER	High
061402	SCONE (STONEY CREEK)	COUNCIL	AUTOMATIC	RAIN/REPEATER	High
561100	WINGEN	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
410 – Murru	mbidgee River				
570025	BONDO	COUNCIL	AUTOMATIC	RAINFALL	Medium
570021	CHERRY TREE	COUNCIL	AUTOMATIC	RAINFALL	Medium
570036	COOMA (BENEFIELD)	COUNCIL	AUTOMATIC	RAIN/REPEATER	High
570031	COOMA SMEC (COOMA BACK CREEK)	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
570035	KOOLAROO (COOMA CREEK)	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
570032	MYALLÁ LAKE	COUNCIL	AUTOMATIC	RAINFALL	Medium
570028	WILLARNEY	COUNCIL	AUTOMATIC	RAINFALL	Medium
570030	WILLOW GROVE	COUNCIL	AUTOMATIC	RAINFALL	Medium
421 - Macqu	uarie River Valley				
065110	BORENORE (LYDEN-BRAE)	COUNCIL	AUTOMATIC	RAINFALL	Medium
062106	MOLONG (BONNIE DOON)	COUNCIL	AUTOMATIC	RAINFALL	Medium
062000	MOLONG (FERNLEIGH-TM)	COUNCIL	AUTOMATIC	RAINFALL	Medium
065041	MOLONG TM	COUNCIL	AUTOMATIC	RAINFALL	Medium
563083	CANOBOLAS (HILLVIEW)	COUNCIL	AUTOMATIC	RAIN/REPEATER	High
	ORANGE (DALTON ST	COUNCIL		RIVER	Medium
563081	BRIDGE)		AUTOMATIC		
563049	ORANGE (KITE ST)	COUNCIL	AUTOMATIC	RAINFALL/RIVER	Medium
563085	ORANGE (NORTH ORANGE WTP)	COUNCIL	AUTOMATIC	RAINFALL	Medium
563084	ORANGE (SPRING CREEK WTP)	COUNCIL	AUTOMATIC	RAINFALL	Medium
563082	ORANGE STP	COUNCIL	AUTOMATIC	RAINFALL	Medium

Notes:

- AWS Automatic Weather Station which is owned and operated by the Bureau of Meteorology but its primary purpose is not for flood warning.
- Does not include daily rainfall and other Bureau synoptic stations.

Schedule 9: List of sites where the Bureau co-locates equipment and the site is owned by another agency

201 - Tweed River Valley 201 - Tweed River V	Bureau	Station name	Owner	Gauge type	Data type	Priority
558101 BARNEYS POINT (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058204 BOAT HARBOUR (ROUS RIVER) COUNCIL AUTOMATIC RIVER Medium 558014 TUMBULGUM (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058202 BENTLEY (BACK CREEK) COUNCIL AUTOMATIC RIVER Medium 058193 EUNGELLA (OXLEY RIVER) COUNCIL AUTOMATIC RIVER Medium 058206 EWING BRIDGE CORNDALE (COPERS CK) COUNCIL AUTOMATIC RIVER Medium 058035 GOONELLABAH (WYREEMA RD REPEATER) COUNCIL AUTOMATIC RIVER Medium 058162 NASHUA (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058162 NASHUA (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058163 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 058164 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 058147 THE CHANNON COUNCIL AUTOMATIC RIVER Medium 058201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium 058102 WOODLAWN (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium 058122 WOODLAWN (WILSO	number		O WITO	Guago typo	Data typo	
058204 BOAT HARBOUR (ROUS RIVER) COUNCIL AUTOMATIC RIVER Medium 203 - Richmond River 058202 BENTLEY (BACK CREEK) COUNCIL AUTOMATIC RIVER Medium 058202 BENTLEY (BACK CREEK) COUNCIL AUTOMATIC RIVER Medium 058206 EWING BRIDGE CORNDALE COUNCIL AUTOMATIC RIVER Medium 058206 EWING BRIDGE CORNDALE COUNCIL AUTOMATIC RIVER Medium 058103 GOONELLABAH (WYREEMA RD REPEATER) COUNCIL AUTOMATIC RIVER Medium 058180 MURWILLUMBAH (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058180 MINBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 058190 ROCK VALLEY (LEYCESTER COUNCIL AUTOMATIC RIVER Medium 058147 THE CHANNON COUNCIL AUTOMATIC RIVER Medium 058167 UKI (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium <						
558014 TUMBULGUM (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 203 - Richmond River 058202 BENTLEY (BACK CREEK) COUNCIL AUTOMATIC RIVER Medium 058193 EUNGELLA (OXLEY RIVER) COUNCIL AUTOMATIC RIVER Medium 058206 EWING BRIDGE CORNDALE (COOPERS CK) COUNCIL AUTOMATIC RIVER Medium 058105 ROONELLABAH (WYREEMA RD (COOPERS CK) COUNCIL AUTOMATIC RIVER Medium 058168 MURWILLUMBAH (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058169 NASHUA (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058190 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 058199 ROCK VALLEY (LEYCESTER COUNCIL AUTOMATIC RIVER Medium 058102 THE CHANNON COUNCIL AUTOMATIC RIVER Medium 058102 MUKI (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
203 - Richmond River Richmond River 058202 BENTLEY (BACK CREEK) COUNCIL AUTOMATIC RIVER Medium 058193 EUNGELLA (OXLEY RIVER) COUNCIL AUTOMATIC RIVER Medium 058206 EWING BRIDGE CORNDALE (COUNCIL AUTOMATIC RIVER Medium COUNCIL AUTOMATIC RIVER Medium 058206 GOONELLABAH (WYREEMA RD REPEATER) COUNCIL AUTOMATIC RIVER Medium 058180 MURWILLUMBAH (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058180 NASHUA (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058180 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 058190 REPENTANCE (COOPERS CREEK) COUNCIL AUTOMATIC RIVER Medium 058191 THE CHANNON COUNCIL AUTOMATIC RIVER Medium 058201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium 058201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium 058122 BELBROOK (MACLEAY RIVER) COUNCIL AUTOMATIC RIVER Medium 059128 MOPARRABAH (PARRABEL COUNCIL AUTOMATIC RIVER Medium RIVER Medium 059129 BULBROOK (MACLEAY RIVER) COUNCIL AUTOMATIC RIVER Medium 061380 JILLBRY (JILLBY) (JILLBY (SHUBLY) CREEK) COUNCIL AUTOMATIC RIVER Medium 061380 JILLBRY (WYONG RIVER) COUNCIL AUTOMATIC RIVER Medium 061383 GRARS (WYONG RIVER) </td <td></td> <td>` ,</td> <td></td> <td></td> <td></td> <td></td>		` ,				
			COUNCIL	AUTOMATIC	RIVER	Medium
058193	203 - Ric					
D58206 EWING BRIDGE CORNDALE (COOPERS CK) (COOPERS CK) (COOPERS CK) GOONELLABAH (WYREEMA RD RD REPEATER) GOONELLABAH (WYREEMA RD REPEATER) COUNCIL AUTOMATIC RIVER Medium (MURVILLUMBAH (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium (D58186 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium (D58180 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium (D58199 ROCK VALLEY (LEYCESTER COUNCIL AUTOMATIC RIVER Medium (D58201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium (D58167 UK) (TWEE DKVER) COUNCIL AUTOMATIC RIVER Medium (D58128 MOPARRABAH (PARRABEL COUNCIL AUTOMATIC RIVER Medium (D59128 MOPARRABAH (PARRABEL COUNCIL AUTOMATIC RIVER Medium (D61380 JLLIBY (JILLIBY (JILLIBY CREEK) COUNCIL AUTOMATIC RIVER Medium (D61380 JLLIBY (JILLIBY CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium (D61384 KANGY ANGY (D61384 KANG						
COOPERS CK)	058193					Medium
REPEATER COUNCIL AUTOMATIC RIVER Medium CREEK) COUNCIL AUTOMATIC RIVER Medium Medium CREEK) COUNCIL AUTOMATIC RIVER Medium Medium CREEK) COUNCIL AUTOMATIC RIVER Medium Medi	058206		COUNCIL	AUTOMATIC	RIVER	Medium
058162 NASHUA (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 058180 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium 558000 REPENTANCE (COOPERS CREEK) COUNCIL AUTOMATIC RIVER Medium 058199 ROCK VALLEY (LEYCESTER COUNCIL AUTOMATIC RIVER Medium 058147 THE CHANNON COUNCIL AUTOMATIC RIVER Medium 058201 TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium 058167 UKI (TWEED RIVER) COUNCIL AUTOMATIC RIVER Medium 058122 BOOLAWN (WILSONS RIVER) COUNCIL AUTOMATIC RIVER Medium 059122 BELLBROOK (MACLEAY RIVER) COUNCIL AUTOMATIC RIVER Medium 059128 BELLBROOK (MACLEAY RIVER) COUNCIL AUTOMATIC RIVER Medium 069128 BELLBROOK (MACLEAY RIVER) COUNCIL AUTOMATIC RIVER Medium 061380	558035		COUNCIL	AUTOMATIC	RIVER	Medium
DS\$180 NIMBIN (GOOLMANGAR CREEK) COUNCIL AUTOMATIC RIVER Medium	058186	MURWILLUMBAH (TWEED RIVER)	COUNCIL	AUTOMATIC	RIVER	Medium
SERONO REPENTANCE (COOPERS CREEK) COUNCIL AUTOMATIC RIVER Medium	058162	NASHUA (WILSONS RIVER)	COUNCIL	AUTOMATIC	RIVER	Medium
OS8199	058180	NIMBIN (GOOLMANGAR CREEK)	COUNCIL	AUTOMATIC	RIVER	Medium
CREEK	558000	REPENTANCE (COOPERS CREEK)	COUNCIL	AUTOMATIC	RIVER	Medium
TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium	058199		COUNCIL	AUTOMATIC	RIVER	Medium
TUNCESTER (LEYCESTER CREEK) COUNCIL AUTOMATIC RIVER Medium	058147	THE CHANNON	COUNCIL	AUTOMATIC	RIVER	Medium
OS8167		TUNCESTER (LEYCESTER CREEK)				
Description	058167	, ,	COUNCIL	AUTOMATIC	RIVER	Medium
Description	558012	WOODLAWN (WILSONS RIVER)	COUNCIL	AUTOMATIC	RIVER	Medium
DESCRIPTION COUNCIL AUTOMATIC RIVER Medium	206 – Ma	,				
DESPITE MOPARRABAH (PARRABEL COUNCIL AUTOMATIC RIVER Medium CREEK) DESPITE MEDIUM CREEK MEDIUM CREEK			COUNCIL	AUTOMATIC	RIVER	Medium
Delta Delt		MOPARRABAH (PARRABEL	COUNCIL	AUTOMATIC	RIVER	Medium
O61383 GEARS (WYONG RIVER) COUNCIL AUTOMATIC RIVER Medium	211 – Ma	,				
O61380			COUNCIL	AUTOMATIC	RIVER	Medium
O61384 KANGY ANGY (OURIMBAH CREEK) COUNCIL AUTOMATIC RIVER Medium		,			RIVER	
Selo25		,			RIVER	
066168MILPERRA BRIDGE (GEORGES RIVER)COUNCILAUTOMATICRIVERMedium215 - Shoalhaven RiverCOUNCIL AUTOMATIC RIVER Medium568226BROUGHTON CREEKCOUNCIL AUTOMATIC RIVER Medium068233GRASSY GULLY (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium068181HAMPDEN BRIDGE (KANGAROO RIVER)COUNCIL AUTOMATIC RIVER Medium070335HILLVIEW (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium569019MOUNTVIEW (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium068213NOWRA BOAT SHED (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium568169RED ROCKS (ERTS)COUNCIL AUTOMATIC RIVER Medium421 - Macquarie River Valley063287BATHURST STANLEY STREET (MACQUARIE RIVER)COUNCIL AUTOMATIC RIVER Medium063298CAMPBELLS RIVER (UPSTREAM COUNCIL AUTOMATIC RIVER Medium063297TARANA (FISH RIVER)COUNCIL AUTOMATIC RIVER Medium		WYONG D/S BRIDGE (WYONG	COUNCIL	AUTOMATIC	RIVER	Medium
066168MILPERRA BRIDGE (GEORGES RIVER)COUNCILAUTOMATICRIVERMedium215 - Shoalhaven RiverCOUNCIL AUTOMATIC RIVER Medium568226BROUGHTON CREEKCOUNCIL AUTOMATIC RIVER Medium068233GRASSY GULLY (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium068181HAMPDEN BRIDGE (KANGAROO RIVER)COUNCIL AUTOMATIC RIVER Medium070335HILLVIEW (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium569019MOUNTVIEW (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium068213NOWRA BOAT SHED (SHOALHAVEN RIVER)COUNCIL AUTOMATIC RIVER Medium568169RED ROCKS (ERTS)COUNCIL AUTOMATIC RIVER Medium421 - Macquarie River Valley063287BATHURST STANLEY STREET (MACQUARIE RIVER)COUNCIL AUTOMATIC RIVER Medium063298CAMPBELLS RIVER (UPSTREAM COUNCIL AUTOMATIC RIVER Medium063297TARANA (FISH RIVER)COUNCIL AUTOMATIC RIVER Medium	213 – Syd	dney Coast-Georges River				
215 - Shoalhaven River 568226 BROUGHTON CREEK COUNCIL AUTOMATIC RIVER Medium Medium RIVER RIVER Medium RIVER RIVER Medium RIVER RIVER RIVER RIVER RIVER RIVER Medium RIVER		MILPERRA BRIDGE (GEORGES	COUNCIL	AUTOMATIC	RIVER	Medium
Table Broughton Creek Council Automatic River Medium	215 – Sho			1		
O68233 GRASSY GULLY (SHOALHAVEN RIVER) COUNCIL AUTOMATIC RIVER Medium RIVER) O68181 HAMPDEN BRIDGE (KANGAROO RIVER) COUNCIL AUTOMATIC RIVER Medium RIVER) O70335 HILLVIEW (SHOALHAVEN RIVER) COUNCIL AUTOMATIC RIVER Medium RIVER) COUNCIL AUTOMATIC RIVER Medium RIVER) O68213 NOWRA BOAT SHED COUNCIL AUTOMATIC RIVER Medium (SHOALHAVEN RIVER) COUNCIL AUTOMATIC RIVER Medium RI			COUNCIL	AUTOMATIC	RIVER	Medium
RIVER) 070335 HILLVIEW (SHOALHAVEN RIVER) COUNCIL AUTOMATIC RIVER Medium 569019 MOUNTVIEW (SHOALHAVEN COUNCIL AUTOMATIC RIVER Medium RIVER) 068213 NOWRA BOAT SHED COUNCIL AUTOMATIC RIVER Medium (SHOALHAVEN RIVER) 568169 RED ROCKS (ERTS) COUNCIL AUTOMATIC RIVER Medium 421 - Macquarie River Valley 063287 BATHURST STANLEY STREET (MACQUARIE RIVER) 063298 CAMPBELLS RIVER (UPSTREAM COUNCIL AUTOMATIC RIVER Medium CHIFLEY) 063297 TARANA (FISH RIVER) COUNCIL AUTOMATIC RIVER Medium		GRASSY GULLY (SHOALHAVEN				
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569019MOUNTVIEW (SHOALHAVEN RIVER)COUNCILAUTOMATICRIVERMedium068213NOWRA BOAT SHED (SHOALHAVEN RIVER)COUNCILAUTOMATICRIVERMedium568169RED ROCKS (ERTS)COUNCILAUTOMATICRIVERMedium421 - Macquarie River Valley063287BATHURST STANLEY STREET (MACQUARIE RIVER)COUNCILAUTOMATICRIVERMedium063298CAMPBELLS RIVER (UPSTREAM CHIFLEY)COUNCILAUTOMATICRIVERMedium063297TARANA (FISH RIVER)COUNCILAUTOMATICRIVERMedium	070335	,	COUNCIL	AUTOMATIC	RIVER	Medium
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568169RED ROCKS (ERTS)COUNCILAUTOMATICRIVERMedium421 - Macquarie River ValleyCOUNCILAUTOMATICRIVERMedium063287BATHURST STANLEY STREET (MACQUARIE RIVER)COUNCILAUTOMATICRIVERMedium063298CAMPBELLS RIVER (UPSTREAM CHIFLEY)COUNCILAUTOMATICRIVERMedium063297TARANA (FISH RIVER)COUNCILAUTOMATICRIVERMedium	068213	NOWRA BOAT SHED	COUNCIL	AUTOMATIC	RIVER	Medium
421 - Macquarie River Valley063287BATHURST STANLEY STREET (MACQUARIE RIVER)COUNCILAUTOMATICRIVERMedium063298CAMPBELLS RIVER (UPSTREAM CHIFLEY)COUNCILAUTOMATICRIVERMedium063297TARANA (FISH RIVER)COUNCILAUTOMATICRIVERMedium	568169	,	COUNCIL	AUTOMATIC	RIVER	Medium
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063297 TARANA (FISH RIVER) COUNCIL AUTOMATIC RIVER Medium	063298	CAMPBELLS RIVER (UPSTREAM	COUNCIL	AUTOMATIC	RIVER	Medium
Notes:			COUNCIL	AUTOMATIC	RIVER	Medium

Notes:

 Does not include daily rainfall, automatic weather stations and other Bureau synoptic stations.

Schedule 10: List of flood warning related products issued by the Bureau in New South Wales (warning, watched, bulletins, river alerts)

Flood warnings

Time preceding this symbol signifies the update time during the developing stages of a flood

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN36601	Tweed River	> minor flood level	3 hrs #	> minor flood level
IDN36602	Richmond/Wilson	> minor flood level	3 hrs #	> minor flood level
IDN36603	Clarence River	> minor flood level	3 hrs #	> minor flood level
IDN36604	Bellinger	> minor flood level	3 hrs #	> minor flood level
IDN36605	Macleay River	> minor flood level	3 hrs #	> minor flood level
IDN36606	Hastings River	> minor flood level	3 hrs #	> minor flood level
IDN36607	Manning River	> minor flood level	3 hrs #	> minor flood level
IDN36608	Hunter River	> minor flood level	3 hrs #	> minor flood level
IDN36609	Nepean-Hawkesbury	> minor flood level	3 hrs #	> minor flood level
IDN36610	Georges River	> minor flood level	3 hrs #	> minor flood level
IDN36611	Shoalhaven	> minor flood level	3 hrs #	> minor flood level
IDN36612	Moruya	> minor flood level	3 hrs #	> minor flood level
IDN36613	Bega River	> minor flood level	3 hrs #	> minor flood level
IDN36614	South Coast	> minor flood level	3 hrs #	> minor flood level
IDN36615	Wyong/Tuggerah Lake	> minor flood level	3 hrs #	> minor flood level
IDN36616	Parramatta River	> 1% flood level	3 hrs #	Rain easing
IDN36618	Orara River	> minor flood level	3 hrs #	> minor flood level
IDN36619	Lake Macquarie	> minor flood level	3 hrs #	> minor flood level
IDN36620	Macintyre	> minor flood level	3 hrs #	> minor flood level
IDN36621	Gwydir	> minor flood level	3 hrs #	> minor flood level
IDN36622	Peel and Namoi	> minor flood level	3 hrs #	> minor flood level
IDN36623	Castlereagh	> minor flood level	3 hrs #	> minor flood level
IDN36624	Macquarie	> minor flood level	3 hrs #	> minor flood level
IDN36625	Bogan	> minor flood level	3 hrs #	> minor flood level
IDN36626	Lachlan	> minor flood level	3 hrs #	> minor flood level
IDN36627	Queanbeyan and Molonglo	> minor flood level	3 hrs #	> minor flood level
IDN36628	Murrumbidgee	> minor flood level	3 hrs #	> minor flood level
IDN36629	Murray	> minor flood level	3 hrs #	> minor flood level
IDN36630	Culgoa, Bokhara, Narran	> minor flood level	24 hrs #	> minor flood level
IDN36631	Warrego	> minor flood level	24 hrs #	> minor flood level

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN36632	Paroo	> minor flood level	24 hrs #	> minor flood level
IDN36633	Bulloo	> minor flood level	24 hrs #	> minor flood level
IDN36634	Barwon-Darling US Bourke	> minor flood level	24 hrs #	> minor flood level
IDN36635	Barwon-Darling DS Bourke	> minor flood level	3 hrs #	> minor flood level
IDN36636	Belubula	> minor flood level	3 hrs #	> minor flood level
IDN36637	Brunswick	> minor flood level	3 hrs #	> minor flood level
IDN36638	Karuah Valley	> minor flood level	3 hrs #	> minor flood level
IDN36639	Patterson/Williams Rv	> minor flood level	3 hrs #	> minor flood level
IDN36640	Nambucca	> minor flood level	3 hrs #	> minor flood level
IDN36641	Camden Haven	> minor flood level	3 hrs #	> minor flood level

Flood warnings: Smaller sub-catchments with faster catchment response times

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN36650	Coffs Harbour	> minor flood level	3 hrs #	< minor flood level
IDN36652	Myal R	> minor flood level	3 hrs #	< minor flood level
IDN36654	Cooma	> minor flood level	3 hrs #	< minor flood level
IDN36655	Scone	> minor flood level	3 hrs #	< minor flood level
IDN36656	Molong	> minor flood level	3 hrs #	< minor flood level
IDN36657	Woronora	> minor flood level	3 hrs #	< minor flood level
IDN36658	Cooks River	> minor flood level	3 hrs #	< minor flood level
IDN36659	Armidale	> minor flood level	3 hrs #	< minor flood level
IDN36660	Cootamundra	> 50mm in 6hrs	3 hrs #	Rain easing
IDN36661	Wooli	> minor flood level	3 hrs #	< minor flood level
In Process	Orange	> 70mm in 6hrs	3 hrs #	Rain easing

Flood watches

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN36501	Flood Watch 1	> minor flood level	24 hrs #	Rain easing

River alerts

Product ID	Product name	Initiating criteria	Updated	Finalising
n/a	River Alert – Nundle (Pearly Gates) at 3.0m	To be issued when water level at station has exceeded the indicated threshold.	n/a	n/a

River (rainfall) alerts

Product ID	Product name	Initiating criteria	Updated	Finalising
n/a	Rainfall Alert – Cooma (Benefield) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma (Bondo) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma (Cherry Tree) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma (Myalla Lake) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma (Willarney) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma (Willow Grove) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Cooma SMEC (Back Creek) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a

Product ID	Product name	Initiating criteria	Updated	Finalising
n/a	Rainfall Alert – Koolaroo (Cooma Creek) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Molong (Bonnie Doon) at 25 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Molong TM at 25 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Borenore (Lyden Brae) at 25 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Nundle (Head of Peel) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Nundle (Keeva) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Nundle (Malonga) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a

Product ID	Product name	Initiating criteria	Updated	Finalising
n/a	Rainfall Alert – Nundle (Pearly Gates) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Crawney Mountain at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Stockinbingal (Sunnydale) at 25 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Canobolas (Hillview) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Orange (Agriculture) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Canobolas (Hillview) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Orange (Kite Street) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a

Product ID	Product name	Initiating criteria	Updated	Finalising
n/a	Rainfall Alert – Orange(North Orange WTP) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Orange (Spring Creek WTP) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a
n/a	Rainfall Alert – Orange (STP) at 20 mm	To be issued when total rainfall accumulated in the previous 30 minutes at the station has exceeded the indicated threshold.	n/a	n/a

Notes:

- n/a: These alerts are provided via Environmon and do not have formal product ID's. They are not updated or finalised as the initial alert is to be used as a "heads-up" or "trigger" for action.
- WTP/STP: Water/Sewerage Treatment Plant.
- SMEC: Snowy Mountains Engineering Corporation

River bulletins

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60140	Northern Rivers	None	Hourly	Never
IDN60141	Mid North Coast	None	Hourly	Never
IDN60143	Central Coast	None	Hourly	Never
IDN60144	South Coast	None	Hourly	Never
IDN60145	North West	None	Hourly	Never
IDN60146	Central Coast	None	Hourly	Never
IDN60147	South West	None	Hourly	Never
IDN60148	Far West	None	Hourly	Never

Rainfall bulletins (1 hourly)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60152	Northern Rivers	None	Hourly	Never
IDN60153	Mid North Coast	None	Hourly	Never
IDN60154	Central Coast	None	Hourly	Never
IDN60159	Sydney Metropolitan	None	Hourly	Never
IDN60155	South Coast	None	Hourly	Never
IDN60156	North West	None	Hourly	Never
IDN60157	Central West	None	Hourly	Never
IDN60158	South West	None	Hourly	Never
IDN60176	Far West	None	Hourly	Never

Rainfall bulletins (3 hourly)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60160	Northern Rivers	None	Each three hours	Never
IDN60161	Mid North Coast	None	Each three hours	Never
IDN60162	Central Coast	None	Each three hours	Never
IDN60167	Sydney Metropolitan	None	Each three hours	Never
IDN60163	South Coast	None	Each three hours	Never
IDN60164	North West	None	Each three hours	Never
IDN60165	Central West	None	Each three hours	Never
IDN60166	South West	None	Each three hours	Never
IDN60177	Far West	None	Each three hours	Never

Rainfall bulletins (24 hourly)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60168	Northern Rivers	None	Hourly	Never
IDN60169	Mid North Coast	None	Hourly	Never
IDN60170	Central Coast	None	Hourly	Never
IDN60175	Sydney Metropolitan	None	Hourly	Never
IDN60171	South Coast	None	Hourly	Never
IDN60172	North West	None	Hourly	Never
IDN60173	Central West	None	Hourly	Never
IDN60174	South West	None	Hourly	Never
IDN60178	Far West	None	Hourly	Never

Rainfall bulletins (Daily)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60003	Daily Rainfall Bulletin for NSW	None	Daily	Never

Rainfall bulletins (Weekly)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60004	Weekly Rainfall Bulletin for NSW	None	Weekly	Never

Rainfall bulletins (Monthly)

Product ID	Product name	Initiating criteria	Updated	Finalising
IDN60018	Monthly Rainfall Bulletin for NSW	None	Monthly	Never

Schedule 11: Changes to this Service Level Specification

Version	Date	Name	Update
1.0	20/11/2013	Nicole Pana	Version 1.0 signed
2.0	March 2015	Nicole Pana	Additional sentence to clause 1.6 highlighting supplementary services Addition of priorities to stations in schedules 2-4 and 7-9. This is defined in clause 3.3.2 and Table 1 which are also new additions.
			Quantitative and Qualitative clauses better described (3.8.3 and 3.8.4)

Appendix A: Glossary of terms

A.1. General

Bureau Flood Warning Centre: an operational area set aside in each capital city to fulfil the Bureau's role in the Total Flood Warning System specifically flood forecasting and warning.

Bureau National Operations Centre: The principal role of the National Operations Centre is to augment regional flood forecasting teams during major floods and to provide operational system support. The National Operations Centre is also responsible for leading new initiatives to enhance the quality of operations and services.

Catchment Directive: A catchment directive provides guidance specific to a catchment to help develop forecasting and warning products.

Flood warning: A written product to provide advice on impending flooding so people can take action to minimise its negative impact. This will involve some people taking action on their own behalf and others doing so as part of agency responsibilities.

Flood watch: A written product that alerts when the combination of forecast rainfall and catchment conditions indicates the flooding is likely.

National Crisis Coordination Centre: The Australian Government Crisis Coordination Centre has been designed to connect relevant Australian Government, State and Territory agencies to centralise Australian Government actions during complex national crises, to develop a single, timely and consistent picture or understanding of a crisis, its implications and the national capacity to respond.

National Flood Warning Arrangements: The National Arrangements outline the general roles and responsibilities of each level of Government in providing and supporting an effective flood warning service and includes separate chapters describing the specific arrangements and agency roles that apply in each jurisdiction.

Protective behaviour: generating appropriate and timely actions and behaviours from the agencies involved and from the threatened community.

Severe Thunderstorm: A thunderstorm is characterised by sudden electrical discharges, each manifested by a flash of light (lightning) and a sharp rumbling sound. Thunderstorms are associated with convective clouds (cumulonimbus) and are usually accompanied by precipitation. Thunderstorms are often short-lived and impact on only a small area. Severe thunderstorms may last for an hour or more and can have a more widespread impact.

A <u>severe</u> thunderstorm will also have one or more of the following phenomena:

- Tornado
- Wind gust of 90 km/h (49 knots) or more
- Hailstones with diameter of 2 cm or larger
- Very heavy rain sufficient to cause flash flooding

Weather warnings: Weather warnings are messages sent out by the Bureau to warn the community of potentially hazardous or dangerous weather conditions. Such warnings include but are not limited to: road weather alerts, severe thunderstorm warnings, severe weather warnings for heavy rain, strong or gale force winds, marine wind warnings, warnings for sheep graziers and frost warnings. More information on weather terms is given in the Bureau's glossary.

Based on the Manual 21 Australian Emergency Manual Series, Australian Government 2009 (see the Manual for more details).

Communication: disseminating warning information in a timely fashion to people and organisations likely to be affected by the flood (see Chapter 6).

Interpretation: identifying in advance the impacts of the predicted flood levels on communities at risk (see Chapter 4).

Message construction: devising the content of the message which will warn people of impending flooding (see Chapter 5).

Monitoring and prediction: detecting environmental conditions that lead to flooding, and predicting river levels during the flood (see Chapter 3),

Review: examining the various aspects of the system with a view to improving its performance (see Chapter 7).

A.3 Flood classifications

The classification of minor, moderate and major flood levels at key river height stations is based upon the effect of flooding for some distance upstream and downstream of that station. These levels are determined using the following descriptive categories of flooding, historical data or relevant local information.

The process for establishing flood class levels involves determining local flood effects, review and endorsement by relevant stakeholders and passing recommendations to the Bureau for inclusion in forecast and warning procedures. The process for establishment of flood class levels specific to each State and Territory is documented in the National Arrangements.

- Minor flooding Causes inconvenience. Low-lying areas next to watercourses are inundated. Minor roads may be closed and low-level bridges submerged. In urban areas inundation may affect some backyards and buildings below the floor level as well as bicycle and pedestrian paths. In rural areas removal of stock and equipment may be required.
- Moderate flooding In addition to the above, the area of inundation is more substantial.
 Main traffic routes may be affected. Some buildings may be affected above the floor level. Evacuation of flood affected areas may be required. In rural areas removal of stock is required.
- Major flooding In addition to the above, extensive rural areas and/or urban areas are inundated. Many buildings may be affected above the floor level. Properties and towns are likely to be isolated and major rail and traffic routes closed. Evacuation of flood affected areas may be required. Utility services may be impacted.

Appendix B: References

- 1. Emergency Management Australia 2009, Flood Warning Manual, Series 21.
- 2. Bureau of Meteorology 2013, National Flood Warning Arrangements
- 3. Bureau of Meteorology 2013, *National Flood Directive* (unpublished internal use)
- 4. Bureau of Meteorology 2013, Catchment Flood Directives (unpublished internal use)
- 5. Data Sharing Agreements