



Drought Management Plan

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Document Number: D24/398941
File: 1533E

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1 EXECUTIVE SUMMARY

Shoalhaven Water, a group of Shoalhaven City Council, is the responsible authority for the delivery of water services to Shoalhaven City through its various water supply schemes within the City boundaries.

Although the supply is designed to be secure, there will be times under prolonged drought conditions when Shoalhaven Water will be forced to restrict water usage in order to preserve the City's supplies to meet essential needs.

This document sets out the protocols for introducing and lifting such water restrictions, describes how the water supply system will be managed during times of drought, and provides variations that allow for certain classes of commercial and community consumers to continue their operations during these times.

Included in this document are the personnel involved in managing a drought, their prime responsibilities, the actions that they are to initiate and follow and the legislative and organisational framework within which they work.

All senior management and other drought management personnel within Shoalhaven Water are expected to be familiar with these requirements and to have ready access to and training in the requirements of this document.

1.1 Introduction

The reticulated water system has been designed to the "5, 10, 10" Rule in accordance with standard practice in NSW, such that:

- Water Restrictions should not be applied for more than 5% of the time on average
- Water Restrictions should not be imposed more than once every 10 years on average and
- Water Restrictions should reduce consumption by 10%

The Drought Management Plan (DMP) establishes how Shoalhaven Water will manage the water supply schemes during periods of drought. The plan shall be activated, implemented and de-activated at the Director - Shoalhaven Water's discretion after obtaining the CEO's approval.

The DMP shall be activated, when it is perceived there is a high probability that, if there is no rainfall, water restrictions may be imposed.

Shoalhaven City Council have implemented a water saving guideline that acts as a full time Level 1 water restriction. In doing so this reduces the water usage demands across the region. Actual imposed water restrictions as instigated by this DMP refer to restriction Levels 2, 3 and 4.

The plan will remain in force until:

- There is sufficient water in the dams that are the source of the water supply;
- Water restrictions have been lifted;
- The post-restriction protocols have been completed.

The long term weather forecast should also be considered.

1.2 Purpose of the Drought Management Plan

The aim of this Drought Management Plan (DMP) is to ensure the water utility business of Shoalhaven Water in the Shoalhaven region, has an appropriate mechanism in place to allow it to carry out its responsibility to soundly manage Shoalhaven Water use during droughts. A DMP details the demand and supply issues to be addressed during drought to ensure that town water supplies with a significant storage, such as the Shoalhaven, minimise the risk of failure in times of drought.

The purpose of this DMP is to:

- Identify what Shoalhaven Water does before, during and after a drought;
- Describe the staged approach Shoalhaven Water takes to drought management; and
- Provide a clear, publicly available statement of Shoalhaven Water's role and responsibilities during a drought.

1.3 Implementation of the Drought Management Plan

Activation, implementation and de-activation of the DMP shall be the responsibility of the Director - Shoalhaven Water.

When and how to carry out activities under the DMP and the officers who are responsible for carrying out these activities are outlined in the Drought Management Plan.

The Drought Management Plan focuses on the management of a drought in the Shoalhaven Water Supply Scheme.

1.4 Compliance of the Drought Management Plan

The Department of Climate Change, Energy, the Environment and Water (DCCEEW) regulates best practices for Local Water Utilities (LWU) through a series of guidance papers that fall under the Regulatory and Assurance Framework. As part of these guidance papers, all LWUs are required to prepare Strategic Business Plans that include responses to drought, and this Drought Management Plan forms part of those requirements.

In addition, where appropriate, the NSW Water Directorate drought management guideline has also been considered as part of the preparation of this plan.

1.5 Objectives

The objectives of the DMP are as follows:

- To reduce consumption in the City by 10% for the duration of the restriction period,
- To ensure that available water resources during times of drought are prioritised for essential purposes,
- To reduce the impact of the drought on customers, community and the environment,
- To ensure the community and customers affected are fully aware of the drought, the reasons for restrictions, water saving measures, policing, penalties, exceptions, and how to access further information; and

- To liaise with relevant government agencies associated with regulating the water resources, environment and community health.

2 DROUGHT MANAGEMENT TEAM

During implementation of the DMP, the Director - Shoalhaven Water shall lead the Drought Management Team (DMT) comprising the following staff:

- Director - Shoalhaven Water
- Manager - Water Asset Planning and Development
- Manager - Water Operations and Maintenance
- Manager - Water Business Services
- Unit Manager - Water Operations

The DMT shall coordinate the implementation of the DMP by utilising the available expertise and resources. The DMT shall meet during the implementation of the DMP to agree on the next course of action and to monitor environmental conditions and the community's response to the DMP:

Weekly – once river flows drop to < 90ML/day

Twice Weekly - whilst level 2, 3, 4 water restrictions are in place. The second meeting should be planned later in the week so that updated statistics and forecasts from Bureau of Meteorology, which may not be available early in the week, may be compiled and analysed.

The Director - Shoalhaven Water may delegate the leadership role to any other officer as is deemed appropriate.

Whenever the DMP is activated, the Director - Shoalhaven Water shall email all Councillors, the CEO and other Directors to alert them to the drought status and the initiation of the DMP.

Notwithstanding the above, if deemed necessary, the DMT can invite other members of the organisation to attend meetings on an ad hoc basis if required.

Responsibility: Unit Manager - Water Operations

3 BACKGROUND DATA

3.1 Water Supply

3.1.1 Treated Water Services Areas

Shoalhaven Water provides treated water to National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines (2011 Version 4 June 2025) to most towns and villages throughout the City of Shoalhaven. These service areas are the urban areas of Berry/Shoalhaven Heads, Kangaroo Valley, Cambewarra, Nowra, Bomaderry, Greenwell Point, Culburra Beach, Currarong, Callala, Huskisson, Vincentia, Hyams Beach, St. Georges Basin District, Tomerong, Wandandian, Sussex Inlet district, Bendalong, Cunjurong, Lake Conjola, Fishermans Paradise, Milton, Ulladulla, Kings Point, Dolphin Point, Burrill Lake and Lake Tabourie, (see Figure 1.1 and 1.2). Unserved towns are located south of Lake Tabourie, such as Termeil, Bawley Point, Kioloa, North Durras and small settlements like Pebbly Beach.

3.1.2 Raw Water Service Areas

There are a small number of consumers connected to a raw water supply. These are rural properties between Burrier Pump Station and Bamarang Water Treatment Plant (WTP).

3.2 Water Supply System Description

Shoalhaven Water manages and operates three separate water supply schemes:

- Northern Shoalhaven Water Supply (NSWS)
- Southern Shoalhaven Water Supply (SSWS)
- Kangaroo Valley Water Supply Scheme

It should be noted that the NSWS and SSWS are also interconnected and water can be supplied from north to south under certain conditions.

The following tables show the main infrastructure involved in these schemes.

Water Treatment Plant details:

Bamarang WTP – 75 ML/day	- alum flocculation/clarification- mixed media sand/anthracite filtration - lime/CO₂ pH correction/stabilisation - chlorine disinfection - fluoridation
Flatrock WTP – 28 ML/day	- alum flocculation/clarification- mixed media sand/filter coal filtration - lime/CO₂ pH correction/stabilisation - chlorination - fluoridation
Milton WTP – 10.5 ML/day	- flocculation (rapid) - mixed media sand/filter coal filtration(direct) - chlorination - lime/CO₂ pH correction/stabilisation - caustic soda pH correction - fluoridation
Bendeela – 1.5 ML/day	- microfiltration - chlorination

	- caustic soda pH correction - fluoridation - activated carbon (if required)
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Table 3.2 – Water Supply System Summary Description

System Component	Northern Shoalhaven	Southern Shoalhaven	Kangaroo Valley
Water source	Abstraction from Shoalhaven River at Burrier	Shoalhaven River and Porters Creek	Bendeela Pondage
Water storage	Water is transferred (pumped) to a 3,800 ML off-stream dam at Bamarang. Raw water is transferred (pumped) to Bamarang Water Treatment Plant and Flatrock Water Treatment Plant (gravity feed)	Water is stored at Porters Creek Dam (1,895 ML) then gravitated to Pointer Mountain Balance Tank and Milton Water Treatment Plant	Bendeela Pondage (part of the WaterNSW Shoalhaven Scheme)
Water treatment	Bamarang WTP, and Flatrock WTP	Milton WTP	Kangaroo Valley WTP
Storage after treatment	In Bamarang & Flatrock Reservoirs and then various distribution reservoirs	Milton Reservoir then various distribution reservoirs	In Bendeela Reservoir and then Kangaroo Valley Reservoir
Distribution of product	Via pipes and pumps to end users	Via pipes and pumps to end users	Via pipes.
Any special controls required?	Quality of chemicals, materials etc used in the production and delivery of the product.	Quality of chemicals, materials etc used in the production and delivery of the product.	Quality of chemicals, materials etc used in the production and delivery of the product.

3.2.1 Northern Shoalhaven Scheme

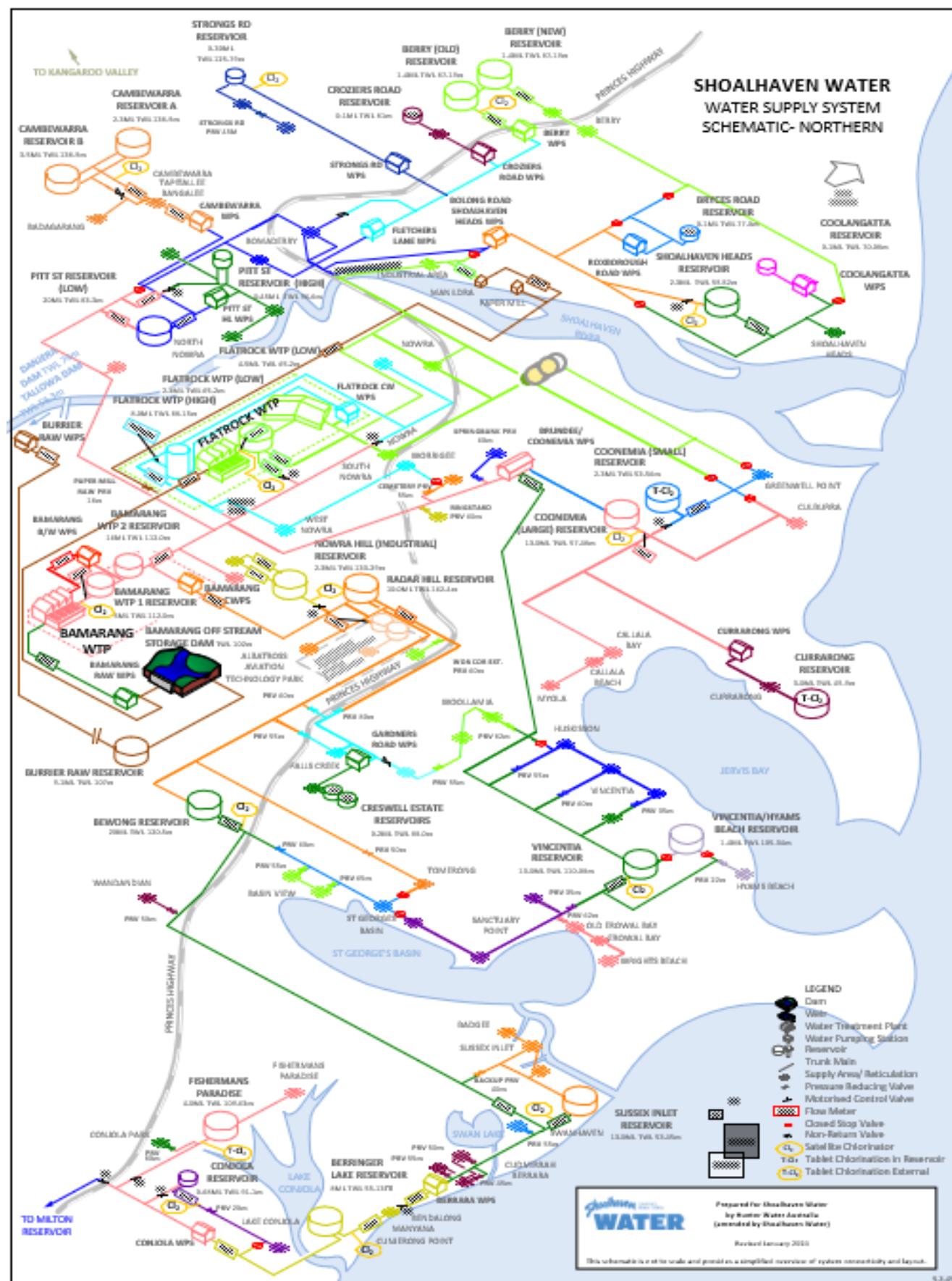
About 90% of the systems raw water is pumped from the Shoalhaven River at Burrier about 47 km upstream of the ocean estuary outlet. The water is pumped from Burrier (90ML/day) to a 3,800 megalitre off-river storage dam at Bamarang near West Nowra. The water is then transferred from the dam to Water Treatment Plants at Bamarang and Flatrock. The treated water is then transferred throughout the City.

A 7,660 megalitre storage dam at Danjera acts as an emergency backup supply feed for the Shoalhaven River in times of drought. The combination of Danjera's 7,660 megalitres and the off river Bamarang 3,800 megalitres storage acts to limit the effect of low flows in the Shoalhaven River to provide drought security for the Shoalhaven City water supply system. The average total (treated water and raw water) demand is currently 50 megalitres per day. The system has the capacity to treat 103 megalitres per day (the combined capacity of Bamarang and Flatrock water treatment plants).

Raw water from Bamarang Dam can be diverted by gravity to the Flatrock Water Treatment Plant and the Manildra Plant and by low head pumping to Bamarang Water Treatment Plant.

Raw water from Danjera Dam is released via Yalwal Creek to Bamarang Dam during severe drought or in an emergency. 30% of the capacity of the dam is to be left in the dam for aquatic species and the environment.

Figure 1-1 Schematic flow diagram of the Northern Shoalhaven Water Supply System

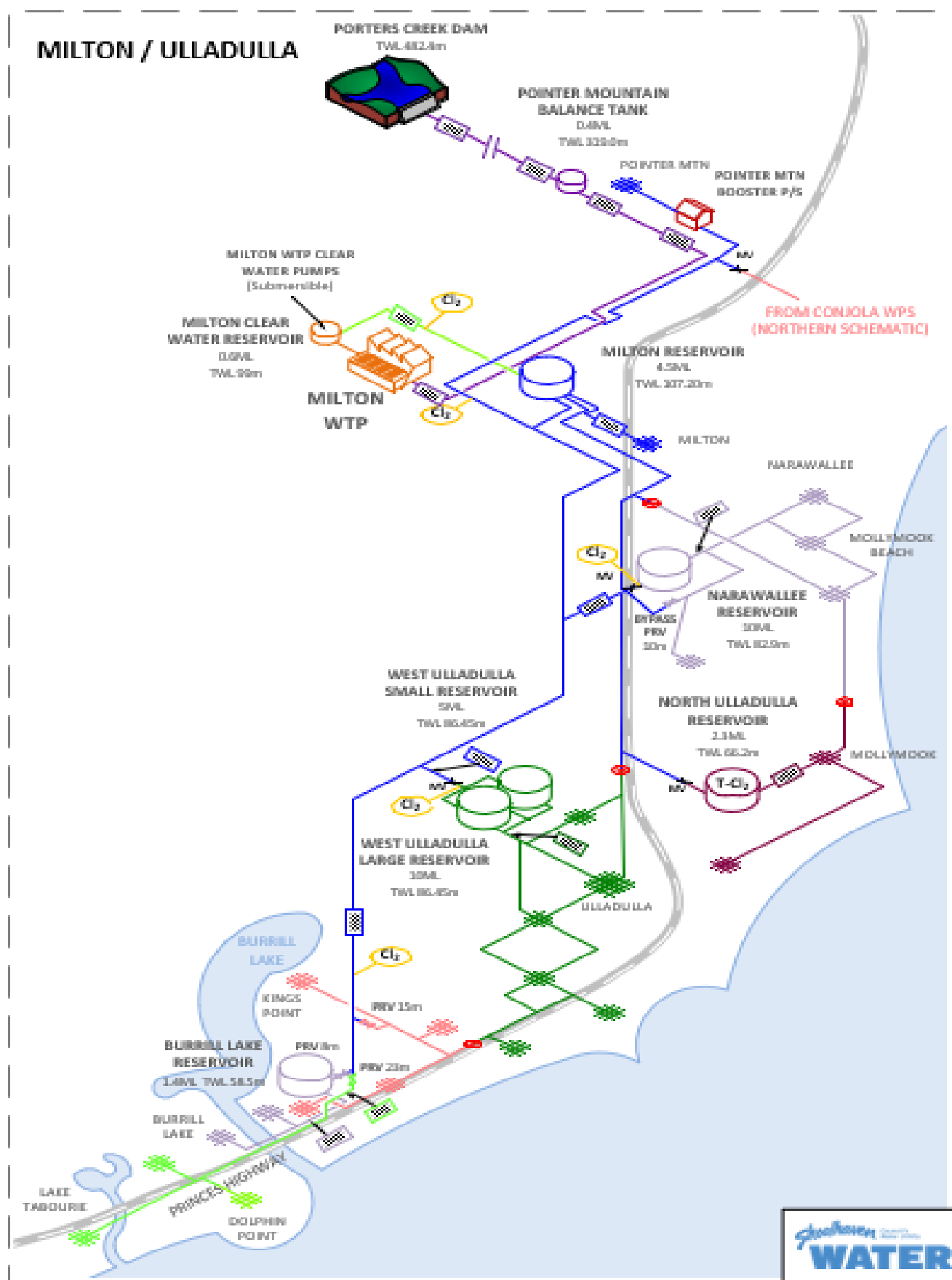


3.2.2 Southern Shoalhaven Scheme

The Southern Shoalhaven is partly served by the Porters Creek Dam west of Milton which supplies the Milton Water Treatment Plant. The plant treats water for the Milton/ Ulladulla/ Narrawallee/ Mollymook/ Kings Point/ Burrill Lake/ Lake Tabourie areas. Bendalong, Manyana, Conjola & Fisherman's Paradise are supplied from the Northern System, which also supplements the area served by the Milton Water Treatment Plant over peak demand (holiday) periods. During dry periods, water in Porters Creek Dam is conserved and treated water is transferred from the Northern System.

Porters Creek Dam has a capacity of 1890 megalitres and is located in Morton National Park. Access to the dam and infrastructure is managed through a deed of licence with National Parks.

Figure 1-2 Schematic flow diagram of the Southern Shoalhaven Water Supply System

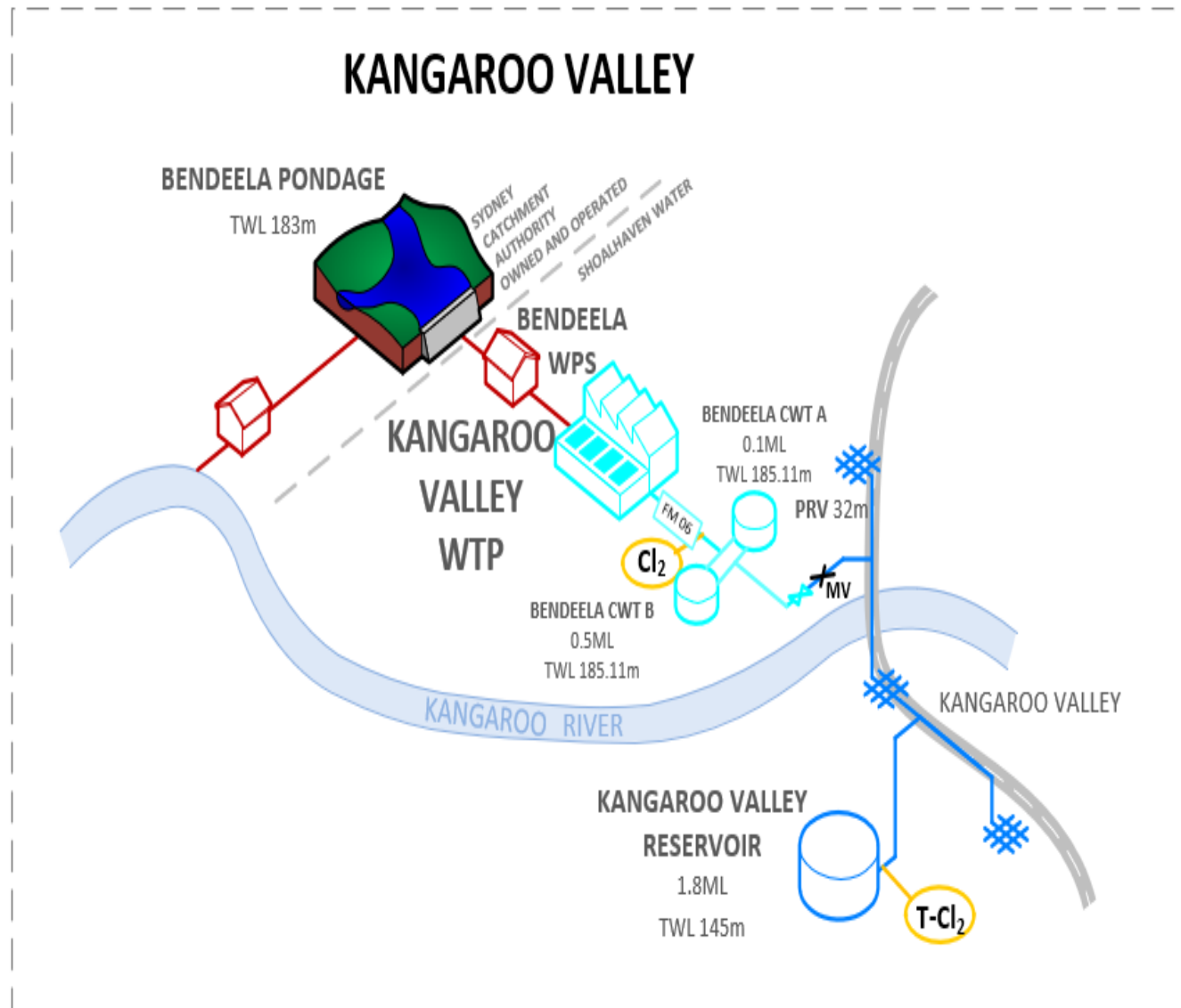


3.2.3 Kangaroo Valley Scheme

A fourth treatment plant is located at Bendeela Pondage and supplies water to the Kangaroo Valley Township. This plant is a microfiltration plant and operates using a membrane system for removing colour, sediment and algae.

WaterNSW's Bendeela Pondage with a capacity of 920 megalitres, supplies raw water to the Kangaroo Valley Micro Filtration Water Treatment Plant. WaterNSW supplies water by agreement at a maximum rate of 1.5 megalitres per day.

Figure 1-3 Schematic flow diagram of the Kangaroo Valley Supply System



3.2.4 Other Uses

Raw water is supplied to the Manildra Group by gravity pipeline from Bamarang Dam. This supply is covered by a Special Agreement between Council and Manildra.

3.3 Council's Water Extraction Entitlements and Licences

Flow in the Shoalhaven River is controlled from Tallowa Dam, owned and operated by the WaterNSW. In times of drought, water is pumped from Tallowa Dam into the Sydney supply system.

At other times water is transferred from Tallowa Dam to Bendeela Pondage and circulates to and from Fitzroy Falls, allowing Origin Energy to generate hydroelectricity.

In the Shoalhaven River water source, WaterNSW must release from Tallowa Dam the water requirements of Shoalhaven City Council in accordance with the WaterNSW and Shoalhaven City Council Raw Water Supply Agreement & Protocols or as subsequently replaced or amended. This requirement is stipulated within clause 57B Part 8A (Rules for majority utility storages – the Acts 21A) of the Water Sharing Plan for the Greater Metropolitan Region Unregulated River Water Sources 2023 - as quoted below.

A daily release must be made from Tallowa Dam of a flow at least equivalent to the volume calculated in accordance with the following formula –

$A \times B$

Where –

A is the volume of water held in all the Greater Sydney storages, expressed as a percentage of the total active storage capacity of all Great Sydney storages.

B is-

- (a) if the daily inflows into Lake Yarrunga in the previous 24 hours are less than or equal to the 80th percentile daily inflows for the month – the amount of the daily inflows, or
- (b) if the daily inflows into Lake Yarrunga in the previous 24 hours are more than the 80th percentile daily inflows for the month – the 80th percentile daily inflows for the month plus 20% of the daily inflow above the 80th percentile daily inflows for the month.

80th percentile daily inflows for the month means the amount specified below:

Monthly environmental release thresholds for Lake Yarrunga

Month	(ML/day)
January	137
February	178
March	219
April	268
May	263
June	316

July	325
August	290
September	258
October	223
November	168
December	152

Additional releases must be made from Tallowa Dam to enable water to be taken by Shoalhaven City Council under its local water utility access licence.

Inflows into Lake Yarrunga must be measured at the Kangaroo River at Hampden Bridge gauge (215220) and the Shoalhaven River at Fossickers Flat gauge (215207).

3.3.1 WaterNSW Water Access Licence

WaterNSW's Water Access Licence WAL27433 under Approval No. 10CA117211, further requires that it must release Shoalhaven City Council's water requirements as indicated in Condition MW5924-00001. To this end, a Bulk Water Supply Agreement has been reached between WaterNSW and SCC. The agreement and the associated Bulk Water Supply Protocols provide a cooperative approach to the environmentally responsible management of Tallowa Dam releases to meet Shoalhaven's water supply needs.

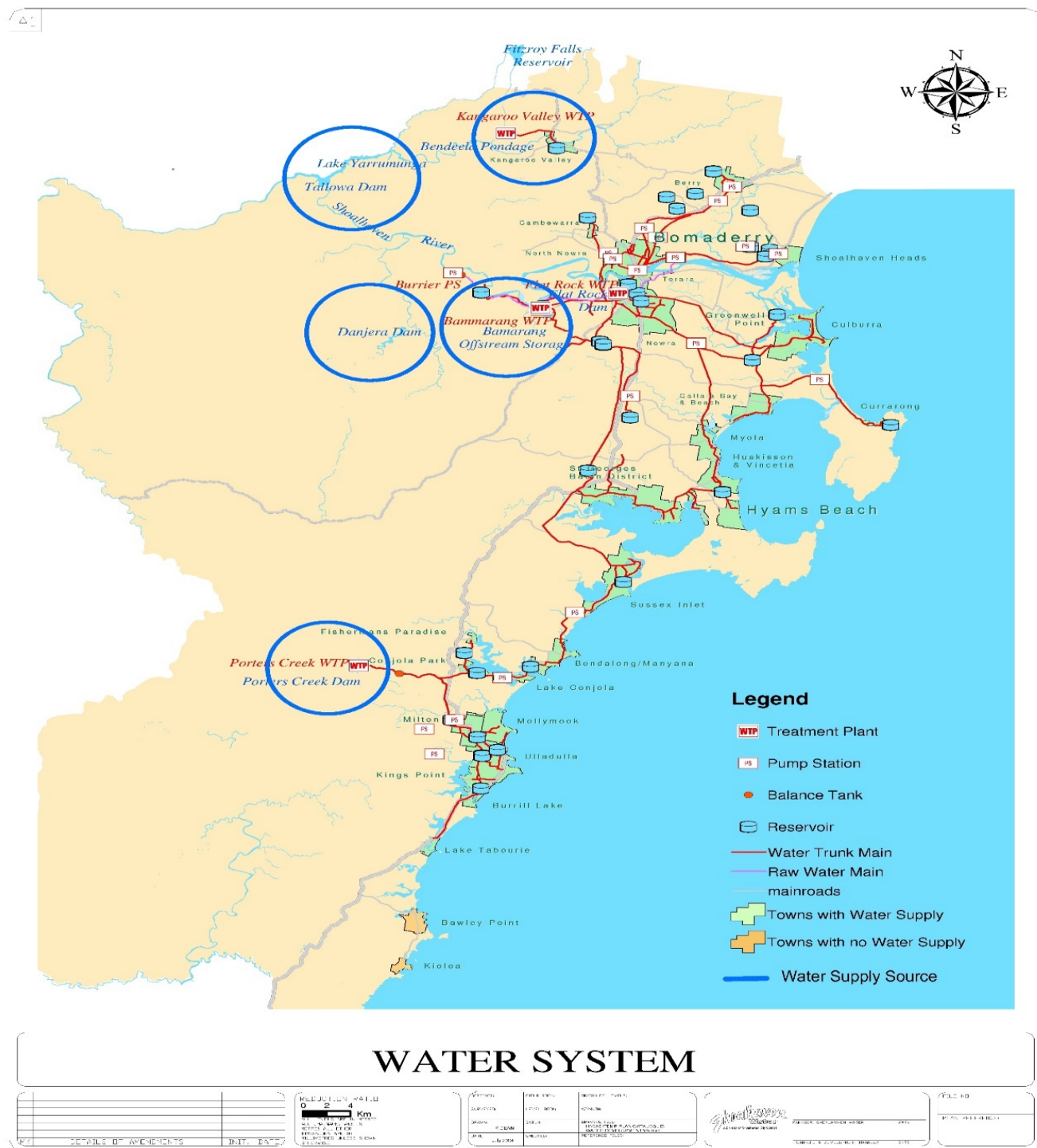
3.3.2 Shoalhaven City Council Water Licence

Notwithstanding the above, SCC's Water Access Licence WAL25350 under Approval No. 10CA102367 incorporates Schedule 1, "Protocols for SCC's Drinking Water Releases from Tallowa Dam", which the Bulk Water Supply Agreement and the Bulk Water Supply Protocols are based upon.

3.4 Release of Water from Tallowa Dam

Council will request WaterNSW to release water from Tallowa Dam. The volume & rate of water released from Tallowa Dam shall be determined weekly by Council in accordance with the Raw Water Supply Agreement Protocols. As per Council's Water Licence (Protocols in Schedule 1), these releases will be at no cost to Council.

Figure 2-1 Water System



3.5 Water Restriction History

Although the supply area has suffered a number of droughts over the years, little historical information has been kept (see Table 2.5).

Table 3.5 - Restriction History

Drought	Restriction Level	Estimated Effect of Restriction on Demand	Emergency Sources Utilised
18/2/98 – 18/5/98	Level 2*	10% reduction in demand	Danjera Dam
4/12/02 – 18/3/03	Level 2*	10% reduction in demand	Danjera Dam
6/9/04 – 23/12/04	Level 1	5% reduction in demand	Danjera Dam
15/3/06 – 1/07/06	Level 1	5% reduction in demand	Danjera Dam
18/12/06 – 14/3/07	Level 1	5% reduction in demand	Danjera Dam
16/2/09 – 15/6/09	Level 1	5% reduction in demand	Danjera Dam
5/10/09 – 10/2/10	Level 1	5% reduction in demand	Danjera Dam
3/9/18 – 10/12/18	Level 1	5% reduction in demand	Danjera Dam
2/12/19 – 13/2/20	Level 1	5% reduction in demand	Danjera Dam

3.6 Management Plan

The historical performance of water resources utilised for the supply of water to the identified service areas was examined in the Bulk Supply Analysis undertaken by the Department of Public Works in 1995. The yield of the system was derived by hydrological modelling of the sources, based on demand data and referencing the Shoalhaven Secure Yield Assessment (WREMA 2022).

Overall, the water supply system reliability is high. Over a period spanning one hundred years, only a few instances of restrictions were required. The quality of source water has not been known to deteriorate between rainfall events.

3.7 Water Supply Customers

The total number of properties supplied with water services by Shoalhaven Water is over 55,000. These properties include those in the towns as well as the rural areas. The populations of Nowra, Bomaderry and Milton /Ulladulla are the major urban centres.

A range of water dependant customers exist in the Shoalhaven including hospitals and nursing homes and properties with dialysis.

3.8 DMP Objectives

The primary objective of this DMP is to provide for the successful maintenance of a restricted water supply during drought without compromising public health and also meeting firefighting needs. Several sub-objectives have been identified. These relate to the:

- Overall direction of the utility business
- System requirements to manage drought
- Utility response to the occurrence of drought

Table 3.8 sets out the DMP objectives. These objectives will be used to assess the effectiveness of this plan and trigger plan review.

Table 3.8 - DMP Objectives

Component	Role	Objective
Strategic Objectives	Overall purpose of the DMP	To ensure a timely, effective, efficient and affordable response to drought that minimises consumer disruption.
Planning Objectives	System requirements necessary to deliver the strategic objectives	To ensure the viability of the water supply by providing and maintaining infrastructure; To ensure that, in the long term, restrictions are not required more than 5% of the time (the level of service); To develop and implement strategies to deliver this level of service and minimise the risk of the community running out of water; To define trigger points for implementing management actions; and To develop procedures to effectively monitor and review the strategies developed.

Component	Role	Objective
Operational Objectives	Implementation of restrictions and drought response measures	To ensure that operating and managerial staff are aware of the steps to implement this plan; To ensure customers and other stakeholders are aware of this drought management plan; To ensure clear communication to the public of details of restrictions, enforcement policies and the impact of restrictions when implemented; To ensure water quality continues to meet all relevant health standards and guidelines; To ensure a minimum supply of 15 litres per person per day (minimum health and sanitary requirements); and To ensure the plan is monitored during drought and adjusted where necessary.

4 DROUGHT MANAGEMENT PLAN

The Shoalhaven Water Drought Management Plan is set out in Table 4.1. The Drought Management Plan sets out the actions to be taken during each phase of its implementation.

For each stage, the following have been defined:

Triggers: to define the points at which each consecutive stage should be implemented. Any one or more of the triggers can be used to activate a stage.

Actions and responsibilities: a list of activities to be undertaken during drought to achieve the objectives and a statement of those who are responsible for putting each activity in place. Activities were defined giving consideration to the environmental, social and cost impacts of each action. Actions also include the collection of data to monitor and review the plan over time.

Table 4.1 – Drought Management Plan

ITEM	ACTION	RESPONSIBILITY
1.0	Flows in the Shoalhaven River into Tallowa Dam < 150 ML/day	
1.1	Review Southern Oscillation Index (SOI) and consult with Bureau of Meteorology (BOM) on a weekly basis to determine likely scenarios. Advise Director - Shoalhaven Water of likely deterioration of river flows.	Unit Manager Water Operations

ITEM	ACTION	RESPONSIBILITY
1.2	In preparation for impending low river flows below 90ML/day, Bamarang Dam shall be topped up if required to within 0.5m down from TWL. This 0.5m allows for any surplus water called from WaterNSW but not consumed by daily demand to be stored in Bamarang and not wasted.	Unit Manager Water Operations
1.3	NOTE: Danjera Dam to be kept full. Danjera Dam is only to be used in emergency situations for firefighting or releases, if Tallowa Dam is unavailable due to maintenance or operating issues.	Unit Manager Water Operations
2.0	Flows in the Shoalhaven River into Tallowa Dam <90ML/day	
2.1	Shoalhaven Water to request WaterNSW release water from Tallowa Dam at a quantity that matches Shoalhaven City Councils daily water usage demands.	Unit Manager Water Operations
2.2	Shoalhaven Water to start 90 day trigger level counter for days where flows into Tallowa Dam is below 90ML/day.	Unit Manager Water Operations
2.3	For each day when inflow exceeds 90ML/day, that day will not be counted towards the total 90 day trigger level counter.	
2.4	When a total of 90 days combined have elapsed where inflow has been below 90ML/day, Level 2 water restrictions shall be triggered.	Manager – Water Operations and Maintenance
2.5	Director - Shoalhaven Water to obtain approval from the CEO to impose Level 2 Water Restrictions.	Director - Shoalhaven Water
2.6	Impose Level 2 water restrictions in accordance with this DMP.	Director - Shoalhaven Water
3.0	Shoalhaven Water to start another 90 day trigger level counter for days where flows into Tallowa Dam is below 90ML/day. This new counter is for the next level of water restrictions.	Unit Manager Water Operations

ITEM	ACTION	RESPONSIBILITY
3.1	For each day when inflow exceeds 90ML/day, that day will not be counted towards the total 90 day trigger level counter.	Unit Manager Water Operations
3.2	When a total of 90 days combined have elapsed where inflow has been below 90ML/day, Level 3 water restrictions shall be triggered.	Manager – Water Operations and Maintenance
3.3	Director - Shoalhaven Water to obtain approval from the CEO to impose Level 3 Water Restrictions.	Director - Shoalhaven Water
3.4	Impose Level 3 water restrictions in accordance with this DMP.	Director - Shoalhaven Water
4.0	Shoalhaven Water to start another 90 day trigger level counter for days where flows into Tallowa Dam is below 90ML/day. This new counter is for the next level of water restrictions.	Unit Manager Water Operations
4.1	For each day when inflow exceeds 90ML/day, that day will not be counted towards the total 90 day trigger level counter.	Unit Manager Water Operations
4.2	When a total of 90 days combined have elapsed where inflow has been below 90ML/day, Level 4 water restrictions shall be triggered.	Manager – Water Operations and Maintenance
4.3	Director - Shoalhaven Water to obtain approval from the CEO to impose Level 4 Water Restrictions.	Director - Shoalhaven Water
4.4	Impose Level 4 water restrictions in accordance with this DMP.	Director - Shoalhaven Water
Coming out of Water Restrictions		
	Restrictions will end at the discretion of the Director - Shoalhaven Water, upon receiving accurate information from the Bureau of Meteorology regarding ending of drought, extended consecutive high inflows into Tallowa Dam and the Shoalhaven River.	Director - Shoalhaven Water

The above actions are prescribed by the Protocols for SCC's Drinking Water Releases from Tallowa Dam, contained in SCC's Water Access Licence WAL 25350.

5 WATERNSW RELEASES FROM TALLOWA DAM

In accordance with Council's Water Access Licence (WAL25350) for extraction from the Shoalhaven River as indicated under Approval No.10CA102367 and the agreement between WaterNSW & Shoalhaven Water, bulk water will be released from Tallowa Dam when requested by Council. The water will be pumped from the Shoalhaven River at Burrier. The volume & rate of water released from Tallowa Dam shall be agreed between the Water Treatment Coordinator and WaterNSW. During droughts, Council will liaise with WaterNSW at a minimum of once per week regarding releases.

Responsibility: Team Coordinator Water Treatment

6 COUNCIL'S DAM RELEASE REGIME

6.1 Bamarang Dam

Bamarang Dam is to be maintained at a level between FSL and 0.5m down from TWL. This is to ensure that the dam remains near to full capacity for the purposes of firefighting and backup emergency water supply should releases from Tallowa Dam be unavailable due to equipment outages or maintenance activities at the dam.

This storage regime has been planned such that at any time the Drought Management Plan is in operation, any water called for from Tallowa Dam and not immediately consumed by the Shoalhaven City Council end users can be captured and stored in Bamarang dam.

Previous practice was to draw down council's dams and then request maximum pumping rates from Tallowa Dam at approximately 72-90ML/day to satisfy water usage needs and to also fill Bamarang dam.

Under this Drought Management Plan, Shoalhaven City Council will request only the amount of water required to fulfil its daily water usage needs from Tallowa Dam.

Example: If daily water usage during drought is 20ML/day then Shoalhaven City Council will only request releases of 20ML/day to satisfy its water usage demands. With Bamarang Dam being maintained near FSL, this reduces the need to request large amounts of water from Tallowa Dam, therefore ensuring that Tallowa Dam storage is maintained at higher levels for longer.

6.2 Danjera Dam

Danjera Dam is maintained for emergency water supply purposes including droughts.

It is also to be noted at least **2,300 ML of water** (30% remaining) shall be left in Danjera Dam for the survival of aquatic species and the environment.

Prior to releasing water from Danjera Dam, a courtesy advice is to be provided to:

- Nowra office of the National Parks and Wildlife Service,
- Property owner Brian Glanville, at the junction of Danjera Creek and Shoalhaven River (Thomson's Corner), Lot 1 DP755916, Ph. 0409 043 134.

- Advice of impending raised water levels in Yalwal Creek may be considered for inclusion in press releases in conjunction with the drought, however from past experience, the effect of the extra volume of water is considered to be relatively minor.

6.3 Porter's Creek Dam

Once the Drought Management Plan is in operation, it is to be noted that once drawdown reaches 1.5m (70%), water from Porters Creek Dam is to be conserved.

The remaining water in Porters Creek Dam will be needed for:

- During peak periods, supplementing Northern Water, which will be pumped to Milton during dry periods
- Emergency storage in case of supply problems from the north (trunk main, pump or power failure)
- Emergency firefighting purposes
- Provide water for the survival of aquatic species and the environment

7 WATER CONSERVATION PROMOTION

Promotion via Shoalhaven Water website, local radio, print and social media to highlight:

- Need to conserve water- encouragement
- Number of days of supply
- Level of storage
- Hot, dry conditions, low river flows
- Provide conservation tips
- Impending restrictions
- Advise community regarding the Information Hotline (1300 66 2246)

Advise the following government agencies of the possible impending restrictions:

- Natural Resources Access Regulator (NRAR) – Water License Regulator
- NPWS – Land Managers adjacent Danjera Creek
- WaterNSW – Shoalhaven River monitoring
- NSW Dept of Climate Change, Energy, the Environment and Water (DCCEEW)
- NSW Health

Responsibility: Manager Water Business Services

8 WATER RESTRICTION PROMOTION (Media Strategy)

Following a decision to apply water restrictions, notification (see Appendix 5) will be undertaken on Shoalhaven Water website, local radio, print and social media (and possibly TV) for the following:

- Media release - details of the restrictions
- Water Saving tips
- Process for applying for a Variation
- Methods of policing the restrictions and penalties applicable

- The water restriction ‘hotline’
- Posters for community notice boards
- Signage at city boundaries
- Shoalhaven Water website
- Feature Articles
- Grey Water Use Guidelines
- Releases of Water from Danjera Dam
- Advise community regarding the Information Hotline (1300 662 246)
- Electronic mobile signage moved around villages
- Email to rate payers

Consideration should be given for a “flyer” along with an email to rate payers to be distributed to all properties in the City to ensure total coverage. Consideration should be given to posting/emailing the flyer to non-Shoalhaven resident owners for their information.

Detailed briefings are to be provided to all Shoalhaven Water personnel, particularly in the Customer Service office and outdoor areas.

Liaise with the other areas of Shoalhaven City Council to ensure awareness of restrictions and their application and potential impact (e.g. irrigation of sporting fields, water for road construction).

8.1 Community and Agency Consultation

An important aspect of ensuring the success of the DMP is the communication of the plan, especially during the operation of restrictions. Communication tools will be provided to assist customers during implementation of the plan and enable them to gain details of restrictions.

The Manager Water Business Services has the responsibility for the communication of the plan to the public. The local media (print and radio), the Shoalhaven Water website, social media and the telephone hotline, will be used to:

- Notify the public and stakeholders of the level of restrictions in place and the penalties for non-compliance;
- Publish activities exempt from the restrictions and outlining the processes for applying for exemption; and
- Publish tips for saving water

All Drought Management Plan communications to the public and stakeholders shall be consistent with the stages of the Drought Management Plan.

The Manager Water Business Services, with assistance from the Unit Manager Water Operations will also be responsible for ensuring other written and verbal feedback given to Council Officers is collected and the feedback supplied to the Drought Management Team.

It is the role of the Director - Shoalhaven Water, to communicate the plan to operating and managerial staff and ensure they have sufficient knowledge and resources to implement it during times of drought.

The Director - Shoalhaven Water will notify the relevant government agencies, when dictated by the Drought Management Plan, including NSW Health and DCCEEW. During operation of the plan,

Shoalhaven Water Operations will ensure that signage is placed at boundaries of the service area to ensure visitors to the area are aware of the restriction regime in force at the time.

8.2 Legislation

Water restrictions, if necessary, are imposed under the Local Government (General) Regulation 2021 Part 6 Div 1 Clause 137

8.3 Imposition and Lifting of Water Restrictions

The CEO under delegation from Council has authority to impose water restrictions (Council Minute 98.184). The CEO also has delegated authority to lift water restrictions.

8.4 Areas Affected

Restrictions may be imposed:

- (a) Across the City; or
- (b) Within selected parts of the City

Any water supply agreements are subject to the restrictions imposed.

8.5 Restriction Levels

Shoalhaven City Council has 3 levels of water restriction beyond its permanent water saving guidelines that are imposed at all times. Each level of water restriction will impose more stringent water usage conditions to reduce water consumption demands for the region. These restrictions are as follows:

Level 2 water restriction

Level 3 water restriction

Level 4 water restriction

9 REGULATION

Manager Water Business Services to liaise with Rangers Service regarding resources to implement regulation.

Following the imposition of water restrictions, processing of applications for variations, monitoring of restrictions and the penalty notice process will be operational.

During water saving restrictions, warnings shall be issued to offenders and infringement notices issued at the discretion of the Director - Shoalhaven Water or the Lead Ranger Services.

9.1 Variations

Standard Variations - Variations will be provided for commercial/ industrial/community service customers to maintain the viability of any business or community service reliant on reticulated water supply.

Special Variations - Applications for other variations, to be known as Special Variations, may be made in the following ways:

- Direct contact
- Shoalhaven Water Website

Approval of applications will ensure that water use is the minimum necessary to maintain a business and is consistent with the levels of water restriction as they are introduced.

Special Variations will be provided via an online form that can be displayed by the applicant to verify that approval has been granted, and the conditions of that approval.

All variations will specifically cover the various restriction levels.

Responsibility: Manager Water Business Services

9.2 Monitoring

Monitoring to ensure compliance with water restrictions will be by the following:

Rangers working with Inspectors as required to follow up on reported infringements in the following areas;

- Northern Shoalhaven
- Central Shoalhaven
- Southern Shoalhaven

(Inspectors may be from either the Operations and Maintenance Section or Asset, Planning & Development Section).

Council staff instructed to report any sightings of possible infringements.

Engagement of private security firms as required to undertake random inspections of the above areas during daylight hours (am and pm) and to report any infringement to the relevant inspector.

All Council staff instructed to report any sightings of possible infringements to Shoalhaven Water. The appropriate Ranger would then be advised and will attend and interview the suspected offender. This interview would be cautionary and to ensure the person is aware of restrictions and notify that any further offence could lead to a fine.

Responsibility: Director - Shoalhaven Water

9.3 Penalty Notice Process

Council's Ranger Service are responsible for undertaking interviews of repeat offenders. Offenders identified when Level 2, 3 or 4 restrictions are in place may be dealt with by way of penalty notice not caution given the extensive education and community consultation undertaken. These decisions will be in consultation with the Director - Shoalhaven Water and in accordance with Councils Compliance & Enforcement Policy. Once a penalty notice has been issued by Council, the notice is transferred to Revenue NSW who administers all penalty notices for the State of New South Wales and has provisions to adjudicate on representation, adopt payment plans and coordinate the Court election process.

Offence Provision.

In accordance with the *Local Government Act*, section 637 it is an offence to “*Wilfully or negligently wasting or misusing water from a public water supply*” - Penalty of \$220

Responsibility: Director - Shoalhaven Water

9.4 Water Restriction Lifting Notification

Once the River Flow increases above 90ML/day and the breaking of drought is foreseen by the Drought Management, the Director - Shoalhaven Water will advise and obtain approval from the CEO to lift the water restriction.

Water Restrictions will be lifted when the following matters are assessed:

- The long-term forecast for rain is considered positive, and
- The capacity within council dams
- It is unlikely that water restrictions will be re-imposed within 90 days

On approval to lift restrictions, the general community would be advised via local radio/print media, websites and social media.

Responsibility: Director - Shoalhaven Water

Appendix A Relevant Legislation Standards & Codes

The following provides Council's authority and reference:

- Local Government Act 1993 provides for Local Government to take action as is necessary (e.g. implementing policy) to ensure compliance with relevant standards or requirements set or made by this Act
- Water Act 1912 No. 44 Section 22B, has provision for extreme drought in which water allocations may be altered and licence conditions varied in the event of extreme drought
- Water Management Act 2000 overrides the general provisions encompassed in a Plan in order to recognise human domestic needs as a priority even over the environment. Chapter 3, Part 2, Division 1, Section 60 deals with rules of distribution
- Water Management Amendment Act 2008, No. 73
- Water Management (General) Reg. 2004
- Public Health Act 2010
- State Emergency and Rescue Management (SERM) Act 1989
- Local Government (General) Regulation 2021 – Part 6 Water Services – Division 1 General Provisions, Clause 137 allows water restrictions to be imposed, if necessary) :
- AS/NZS 4360 Risk Management
- Implementation Guide for Emergency Management Committees (NSW State Emergency Management Committee)
- Australian Drinking Water Guidelines (NHMRC 2011)
- Guidelines for drinking water quality (4th ed. World Health Organisation)
- Regulatory and Assurance Framework
- Penalty Notices – Fixed Penalty Handbook for Local Councils (Infringements Processing Bureau, NSW Police Service)
- Councils – Compliance & Enforcement Policy (POL22/11)
- Wise Water Management – A Demand Management Manual for Water Utilities (UTS)
- Water sharing Plan for the Greater Metropolitan region Unregulated River Water Sources 2023

Appendix B Council's Water Extraction Entitlements, Assurances & Licences

- **Water Access Licence Number – WAL 25350**

Shoalhaven River – Approval No. 10CA 102367

- Date of Effect 1/07/2011
- Expiry Date – 30/6/2034
- Licence Conditions.
- Schedule 1, Protocols for SCC's Drinking Water Releases from Tallowa Dam.

Danjera Creek – Approval No. 10WA 102390

- Issue Date 1/7/2011
- Expiry Date – 09/10/2027
- Licence Conditions.

Flatrock Dam – Approval No. 10CA 102342

- Issue Date 1/7/2011
- Expiry Date – 29/01/2035
- Licence Conditions.

- **Water Access Licence Number – WAL 38142**

Porters Creek – Licence No. 10CA 120004

- Issue Date 1/7/2016
- Expiry Date – 30/6/2029
- Licence Conditions.

- Water Access Licence Number – WAL 25350**

Category [Subcategory]	Status	Water Source	Tenure Type	Management Zone	Share Components (units or ML)	IDEC (Daily flow shares)
Local Water Utility	Current	Lower Shoalhaven River Catchment Water Source	Specific Purpose		22,902.00	N/A

Extraction Times or Rates

Subject to conditions water may be taken at any time or rate

Nominated Work Approval(s)

10CA102342

10CA102367

10WA102390

Shoalhaven River – Approval No. 10CA 102367

Statement of Approval
Water Management Act 2000

Approval details

Approval number	10CA102367
Status	CURRENT*
Approval kind	Water Supply Works Water Use
Water sharing plan	GREATER METROPOLITAN REGION UNREGULATED RIVER WATER SOURCES 2023
Date of effect	01/Jul/2011
Expiry date	30/Jun/2034
Approval holder(s)	Schedule 1
Water supply works	Schedule 2
Water use	Schedule 3
Conditions	Schedule 4

Contact for service of documents

Name	SHOALHAVEN CITY COUNCIL
Address	C/- The Director Shoalhaven Water PO Box 42 NOWRA NSW 2541

* Note: An approval has effect for such period as is specified in the approval, or if the period is extended under section 105, that extended period. If an application for extension of an approval is lodged before the approval expires, the term of the expiring approval is extended until either the date of the final decision on the application, or a date fixed by the Minister for the approval, whichever is the later date. An approval which has expired can be the subject of an application to extend it but it needs to be accompanied by a statutory declaration of the reasons for the delay in making the application. If the Minister accepts these reasons the term of the approval is taken to have been extended, and the application may be dealt with, as if the application had been made before the approval expired.

It is an offence under the Water Management Act 2000 to breach a term or condition of the approval or to construct and use works to which the approval does not relate. It is also an offence to use works the subject of an approval if the approval has expired, been surrendered or cancelled.

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102367

Schedule 1 - Approval holders

The holders of this approval are:

Approval holder(s)**ACN (if applicable)**

SHOALHAVEN CITY COUNCIL

Important notice - change of landholder or contact

Please advise the Office in the event of any of the following, as soon as practicable:

- If there is a change in the ownership or occupation of the land benefited by this approval (see Schedule 2). Under the Water Management Act 2000, an approval is typically held by the owner or lawful occupier of the benefited land. Consequently, a change in occupation may cause a change in your legal obligations as an approval holder.*
- If there is a change to the contact person. You will be required to lodge a written statement signed by all the holders.*
- If there is a change to the mailing address for the nominated contact person. This should be done by the contact person in writing.

* An updated Statement of Approval will be issued free of charge

Schedule 2 - Water supply works	
Part A: Authorised water supply works	
Subject to the conditions of this approval, in relation to each numbered work in the table, the holders of this approval are authorised to construct and use a water supply work of the type shown at the location specified:	
Work 1	
Work identifier	1000131683
Specified work	OTHER PUMP x 3
Specified location	A//391473 Whole Lot
Management zone (if applicable)	
Water source	LOWER SHOALHAVEN RIVER CATCHMENT WATER SOURCE
Water sharing plan	GREATER METROPOLITAN REGION UNREGULATED RIVER WATER SOURCES 2023

Approval number: 10CA102367

Subject to the conditions of this approval, the holder(s) of this approval is authorised to use water for the following purpose(s) and location(s):

Specified purpose

TOWN WATER SUPPLY

Specified location

A//391473

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102367

Water sharing plan**Schedule 4 - Conditions**

The approval is subject to the following conditions:

Plan conditions**Greater Metropolitan Region Unregulated River Water Sources 2023****Monitoring and recording****MW8614-00001**

A. Before water is taken through the water supply work authorised by this approval, the approval holder must confirm that cease to take conditions do not apply and water may be taken.

B. Where the approval holder is required to keep a logbook, the approval holder must record the confirmation, including the way in which the confirmation was established, in a logbook.

C. This condition does not apply to a water supply work that is used only for the purpose of taking water under a basic landholder right.

MW8481-00001

A. The approval holder must record the following information in a logbook each time that water is taken using a water supply work authorised by this approval:

- date, start and end time when water is taken, and the volume of water taken, and
- the access licence number or the authority (such as a licence exemption) under which the water is taken, and
- the purposes for which water is taken, and
- details of any cropping carried out using the water taken through the water supply work including the type of crop, area cropped, and dates of planting and harvesting, and
- where metering equipment has been installed for use in connection with the water supply work, the meter reading before water is taken, and
- where metering equipment has not been installed for use in connection with the water supply work, details of all pumping activities for the water supply work including pump running hours, pump power usage or pump fuel usage, pump start and stop times and pump capacity per unit of time.

B. This condition does not apply to a water supply work that:

- is used only for the purpose of taking water under a basic landholder right, or
- has both an operational meter that complies with Australian Standard AS 4747 – Meters for non-urban water supply, and data logger.

C. This condition ceases to apply to this approval on the day that the mandatory metering equipment condition applies to this approval under the Water Management (General) Regulation 2018.

MW6612-00001

A logbook used to record water take information must be retained for five (5) years from the last date recorded in the logbook.

Other conditions

This statement printed on 07/06/2024

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Water management works**DS2349-00001**

The approval holder must make all reasonable efforts not to allow any used water to discharge, by any means including surface or subsurface drains or pipes, into or onto:

- A. any adjoining public or crown road;
- B. any other person's land;
- C. any Crown land;
- D. any river, creek or watercourse or aquifer.

DK0888-00001

Any water supply work authorised by this approval used for the purpose of conveying, diverting or storing water must be constructed or installed to allow free passage of floodwaters flowing into or from a river or lake.

DK0878-00001

- A. The construction, installation or use of the water supply work authorised by this approval must not cause or increase erosion to the channel or bank of the watercourse.
- B. If erosion is observed, the area must be stabilised with grass cover, stone pitching or any other material that will prevent any further occurrence of erosion.

Additional conditions**NS17616**

(a) The approval holder may in any one year commencing 1 July divert up to the total volume of 22,902 ML of water from the Shoalhaven River Catchment for the operation of the Northern Shoalhaven water supply scheme, including transfers to the Southern Shoalhaven water scheme. This volume is the total entitlement shared between works authorised by this approval, as well as Danjera Creek dam (10WA102390) and Flat Rock Creek dam (10CA102342).

(b) Notwithstanding paragraph (a), the approval holder may divert up to twice the total volume in one year, provided diversions do not exceed three times the approved volume in any three-year period.

(c) Notwithstanding paragraph (a), when combined river flow in Kangaroo and Shoalhaven rivers measured at Hampden Bridge and Fossickers Flat respectively is below 90 ML/day, extraction from the Shoalhaven River at Burrier must only be carried out when water is released from Danjera Creek dam (10WA102390) and/or Tallowa dam, in accordance with the "protocols for Shoalhaven City Council's drinking water releases from Tallowa dam (protocol)" provided in Schedule 1.

(d) The approval holder must notify the Ministerial corporation in writing of the commencement of releases made under the protocol, before commencement of the releases.

(e) The approval holder must provide the Ministerial corporation with written details of all releases made under the protocol within 60 days following cessation of releases, or upon request of the Ministerial corporation.

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102367

Glossary

cease to take - Cease to take conditions means any condition on this approval, or on the access licence under which water is proposed to be taken, that prohibits the taking of water in a particular circumstance.

logbook - A logbook is a document, electronic or hard copy, that records specific required information.

General Notes

All conditions on an approval require compliance. An appeal to the Land and Environment Court against a decision to impose certain conditions on an approval can be made within 28 days after the date the decision is made. Conditions identified with the first letter "D" are those that can be appealed during the appeal period.

The words in this approval have the same meaning as in the *Water Management Act 2000*

Note: The words in this approval have the same meaning as in the WMA

END OF STATEMENT

Danjera Creek – Approval No. 10WA 102390

Kind of Approval	Issue Date	Expiry Date	Approval Number	Status	Water Source
Water Supply Works	01-JUL-2011	09-OCT-2027	10WA102390	Current	Lower Shoalhaven River Catchment Water Source

Work Type	Description	Diameter	Status	No of Works	Location (Lot/DP)	Suffix	Work ID	ESID
Storages	Overshot Dam	NA	Active	1	Lot 4, DP 252335	Whole Lot	1000131697	56213
					Lot 5, DP 252335	CLOSED ROAD WITHIN	1000131697	56213
					Lot 5, DP 252335	Whole Lot	1000131697	56213
					Lot 5, DP 252335	PART ROAD WITHIN	1000131697	56213
					DP 755931	Whole Lot	1000131697	56213
					DP 755931	Whole Lot	1000131697	56213
					Lot 3, DP 755936	CLOSED ROAD WITHIN	1000131697	56213

Water Access Licences nominating these works			
Reference Number	WAL Number	WAL Status	Status Date
10AL102341	25350	Current	01-JUL-2011

- Conditions

Plan Conditions

Water sharing plan	Greater Metropolitan Region Unregulated River Water Sources 2023
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Take of water

- MW0655-00001 Any water supply work authorised by this approval must take water in compliance with the conditions of the access licence under which water is being taken.
- MW0911-00001 Before water is taken through the water supply work authorised by this approval, visible flow in the water source at the location at which water is proposed to be taken must be confirmed.
- If a logbook is required to be kept:
- A. confirmation that water may be taken, and
 - B. the method of confirmation, such as visual inspection, internet search
- must be recorded in the logbook.

Monitoring and recording

- MW0482-00001 Where a water meter is installed on a water supply work authorised by this approval, the meter reading must be recorded in the logbook before taking water. This reading must be recorded every time water is to be taken.
- This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.
- MW2336-00001 The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.
- This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.
- MW2339-00001 A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.
- MW2338-00001 The completed logbook must be retained for five (5) years from the last date recorded in the logbook.
- MW2337-00001 The following information must be recorded in the logbook for each period of time that water is taken:
- A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and
 - B. the access licence number under which the water is taken, and
 - C. the approval number under which the water is taken, and
 - D. the volume of water taken for domestic consumption and/or stock watering.
- This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.

Other Conditions

Water management works

- DK0871-00001 The water supply work authorised by this approval must be constructed and maintained in a way that will:
- A. ensure the work's safe construction and operation, and
 - B. prevent the possibility of damage being caused by the work, or resulting from the work, to any public or private interest.

Additional conditions

- NS16195 The level of the crest of the overshot section of the dam shall have an effective length of not less than 114 m comprising twenty two bays, each not less than 5.18 m in width and the level of the said crest shall be fixed at not higher than reduced level 73.76 m

below the level of a bench mark established on a concrete block on the right bank of the watercourse near the work and particulars of which are retained in the office of the relevant licensor.

- NS16196 The approval holder may install over the crest of the overshoot of the dam, twenty two counter-weighted steel gates, each 5.18 m wide, (one to each of the bays) and in accordance with the details shown on drawing no. 4728-113, a copy of which is retained in the office of the relevant licensor. The level of the top of each gate when raised to its full height shall be fixed at not higher than reduced level 76.2 m standard datum, being a level of 34.43 m below the level of the bench mark referred.
- NS16197 Each of the gates shall be fitted with a counter-weight in accordance with the details and dimensions shown on drawing no. 4728-113, a copy of which is retained in the office of the relevant licensor, so that they will open one at a time in the sequence and at the spillway discharges indicated on the said drawing no. 4728-113.
- NS16198 The licensee shall install through the dam a pipe with a diameter of not less than 610 mm with the level of the invert not higher than reduced level 47.24 m standard datum, being a level 63.39 m below the level of the established benchmark. The said pipes shall each be fitted with a stop valve or other suitable control device, to the satisfaction of the relevant licensor.
- NS16199 The licensee shall install through the dam two pipes each with a diameter of not less than 457 mm and with the level of the invert of the one fixed at not higher than reduced level 62.48 m standard datum and of the other not higher than reduced level 67.0 m standard datum, being levels 144.44 m and 43.57 m respectively below the level of the established benchmark. the said pipes shall each be fitted with a stop valve or other suitable control device, to the satisfaction of the relevant licensor.
- NS16200 The construction of the dam shall be carried out in accordance with the foregoing conditions and the details shown on Drawings 4728-101 to 120 inclusive, copies of which are retained in the office of the relevant licensor.
- NS16201 The approval holder may in any one year commencing 1 July divert up to the total volume of 22,902 ML of water from the Shoalhaven River catchment for the operation of the Northern Shoalhaven water supply scheme, including transfers to the Southern Shoalhaven water supply scheme. This volume is the total entitlement shared between works authorised by this approval, as well as Burrier pump station (10CA102367), and Flat Rock creek dam (10CA102342).

Flatrock Dam – Approval No. 10CA 102342

Statement of Approval
Water Management Act 2000**Approval details**

Approval number	10CA102342
Status	CURRENT*
Approval kind	Water Supply Works Water Use
Water sharing plan	GREATER METROPOLITAN REGION UNREGULATED RIVER WATER SOURCES 2023
Date of effect	01/Jul/2011
Expiry date	29/Jan/2035
Approval holder(s)	Schedule 1
Water supply works	Schedule 2
Water use	Schedule 3
Conditions	Schedule 4

Contact for service of documents

Name	SHOALHAVEN CITY COUNCIL
Address	C/- The Director Shoalhaven Water PO BOX 42 NOWRA NSW 2541

* Note: An approval has effect for such period as is specified in the approval, or if the period is extended under section 105, that extended period. If an application for extension of an approval is lodged before the approval expires, the term of the expiring approval is extended until either the date of the final decision on the application, or a date fixed by the Minister for the approval, whichever is the later date. An approval which has expired can be the subject of an application to extend it but it needs to be accompanied by a statutory declaration of the reasons for the delay in making the application. If the Minister accepts these reasons the term of the approval is taken to have been extended, and the application may be dealt with, as if the application had been made before the approval expired.

It is an offence under the Water Management Act 2000 to breach a term or condition of the approval or to construct and use works to which the approval does not relate. It is also an offence to use works the subject of an approval if the approval has expired, been surrendered or cancelled.

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102342

Schedule 1 - Approval holders

The holders of this approval are:

Approval holder(s)**ACN (if applicable)**

SHOALHAVEN CITY COUNCIL

Important notice - change of landholder or contact

Please advise the Office in the event of any of the following, as soon as practicable:

- If there is a change in the ownership or occupation of the land benefited by this approval (see Schedule 2). Under the Water Management Act 2000, an approval is typically held by the owner or lawful occupier of the benefited land. Consequently, a change in occupation may cause a change in your legal obligations as an approval holder.*
- If there is a change to the contact person. You will be required to lodge a written statement signed by all the holders.*
- If there is a change to the mailing address for the nominated contact person. This should be done by the contact person in writing.

** An updated Statement of Approval will be issued free of charge*

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102342

Schedule 2 - Water supply works**Part A: Authorised water supply works**

Subject to the conditions of this approval, in relation to each numbered work in the table, the holders of this approval are authorised to construct and use a water supply work of the type shown at the location specified:

Work 1

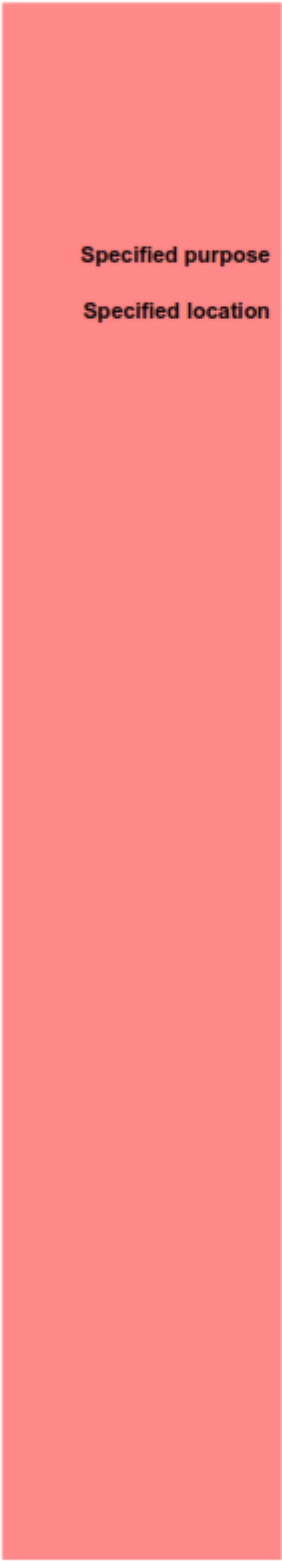
Work identifier	1000131668
ESID number	56186
Specified work	OVERSHOT DAM
Specified location	375//755952 CROWN LAND SOUTH
Management zone (if applicable)	
Water source	LOWER SHOALHAVEN RIVER CATCHMENT WATER SOURCE
Water sharing plan	GREATER METROPOLITAN REGION UNREGULATED RIVER WATER SOURCES 2023

Work 2

Work identifier	1000131669
ESID number	56186
Specified work	100MM CENTRIFUGAL PUMP x 2
Specified location	375//755952 CROWN LAND SOUTH
Management zone (if applicable)	
Water source	LOWER SHOALHAVEN RIVER CATCHMENT WATER SOURCE
Water sharing plan	GREATER METROPOLITAN REGION UNREGULATED RIVER WATER SOURCES 2023

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102342



Schedule 3 - Water Use

Subject to the conditions of this approval, the holder(s) of this approval is authorised to use water for the following purpose(s) and location(s):

Purpose 1

Specified purpose

TOWN WATER SUPPLY

Specified location

375//755952



Water sharing plan**Schedule 4 - Conditions**

The approval is subject to the following conditions:

Plan conditions***Greater Metropolitan Region Unregulated River Water Sources 2023*****Monitoring and recording****MW8614-00001**

- A. Before water is taken through the water supply work authorised by this approval, the approval holder must confirm that cease to take conditions do not apply and water may be taken.
- B. Where the approval holder is required to keep a logbook, the approval holder must record the confirmation, including the way in which the confirmation was established, in a logbook.
- C. This condition does not apply to a water supply work that is used only for the purpose of taking water under a basic landholder right.

MW8481-00001

- A. The approval holder must record the following information in a logbook each time that water is taken using a water supply work authorised by this approval:
- date, start and end time when water is taken, and the volume of water taken, and
 - the access licence number or the authority (such as a licence exemption) under which the water is taken, and
 - the purposes for which water is taken, and
 - details of any cropping carried out using the water taken through the water supply work including the type of crop, area cropped, and dates of planting and harvesting, and
 - where metering equipment has been installed for use in connection with the water supply work, the meter reading before water is taken, and
 - where metering equipment has not been installed for use in connection with the water supply work, details of all pumping activities for the water supply work including pump running hours, pump power usage or pump fuel usage, pump start and stop times and pump capacity per unit of time.
- B. This condition does not apply to a water supply work that:
- is used only for the purpose of taking water under a basic landholder right, or
 - has both an operational meter that complies with Australian Standard AS 4747 - Meters for non-urban water supply, and data logger.
- C. This condition ceases to apply to this approval on the day that the mandatory metering equipment condition applies to this approval under the Water Management (General) Regulation 2018.

MW6612-00001

- A logbook used to record water take information must be retained for five (5) years from the last date recorded in the logbook.

Other conditions

	Water management works
DK0871-00001	The water supply work authorised by this approval must be constructed and maintained in a way that will: A. ensure the work's safe construction and operation, and B. prevent the possibility of damage being caused by the work, or resulting from the work, to any public or private interest.
	Additional conditions
NS16240	The crest of the overshoot dam shall have a length of not less than 64.92 m with level fixed at not higher than 5.77 m below the level of a bench mark established on a rock on the right bank of the watercourse near the work and particulars of which are retained in the office of the relevant licensor.
NS16241	A 600 mm scour pipe shall be constructed through the dam with the level of the invert fixed at 17.21 m below the level of the established benchmark and fitted with a stop valve or other control device, to the satisfaction of the relevant licensor.
NS16242	(a) Subject to any access and flow conditions contained in this approval, the approval holder may in any one year commencing 1 July divert up to the total licensed volume of 22,902 ML of water from the Shoalhaven catchment for the operation of the Northern Shoalhaven water supply scheme, including transfers to the Southern Shoalhaven water supply scheme. This volume is the total entitlement shared between works authorised by this licence, as well as Burrier Pump Station (10CA102367), and Danjera Creek Dam (10WA102390). (b) Notwithstanding paragraph (a), the approval holder may divert up to twice the licensed volume in any one year, provided diversions do not exceed three times the approved volume in any three-year period.
Glossary	cease to take - Cease to take conditions means any condition on this approval, or on the access licence under which water is proposed to be taken, that prohibits the taking of water in a particular circumstance. licensor - WaterNSW or DPI Water, depending on which organisation administers your licences and/or approvals logbook - A logbook is a document, electronic or hard copy, that records specific required information.
General Notes	All conditions on an approval require compliance. An appeal to the Land and Environment Court against a decision to impose certain conditions on an approval can be made within 28 days after the date the decision is made. Conditions identified with the first letter "D" are those that can be appealed during the appeal period. The words in this approval have the same meaning as in the Water Management Act 2000

Department of Climate Change, Energy, the Environment and Water

Approval number: 10CA102342

Note: The words in this approval have the same meaning as in the WMA

END OF STATEMENT

Water Access Licence Number – WAL 38142

Category [Subcategory]	Status	Water Source	Tenure Type	Management Zone	Share Components (units or ML)	IDEC (Daily flow shares)
Local Water Utility	Current	Upper Clyde River Water Source	Specific Purpose		1,000.00	N/A

Extraction Times or Rates

Subject to conditions water may be taken at any time or rate

Nominated Work Approval(s)

10CA120004

- Conditions

Plan Conditions

Water sharing plan	Clyde River Unregulated and Alluvial Water Sources 2016
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Take of water

- MW0112-00001 The maximum water allocation that may be carried over in the account for this access licence from one water year to the next water year is:
A. a volume equal to 100 % of the share component of the licence, or
B. 1 ML/unit share of the share component of the licence.
- MW0005-00008 From 1 July 2016 until 30 June 2019, the total volume of water taken under this access licence in these three (3) water years must not exceed a volume equal to:
A. 50 % of the water in the account from the available water determination in the first water year (1 July 2016 until 30 June 2017), plus
B. the sum of water in the account from the available water determinations in the second and third water years, plus
C. any net amount of water either assigned to or from the account under a water allocation assignment in those 3 water years, plus
D. any water re-credited by the Minister to the account in those 3 water years.
- MW0004-00007 From 1 July 2017, the total volume of water taken in any three (3) consecutive water years under this access licence must not exceed a volume which is equal to the lesser of either:
A. the sum of:
i. water in the account from the available water determinations in those 3 consecutive water years, plus
ii. water in the account carried over from the water year prior to those 3 consecutive water years, plus
iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus
iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus
v. any water re-credited by the Minister to the account in those 3 consecutive water years,
or
B. the sum of:
i. the share component of this licence at the beginning of the first year in those 3 consecutive water years, plus
ii. the share component of this licence at the beginning of the second year in those 3 consecutive water years, plus
iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus
iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus
v. any water re-credited by the Minister to the account in those 3 consecutive water years.
- MW0036-00008 The volume of water taken in any three (3) consecutive water years from 1 July 2017 must be recorded in the logbook at the end of those three water years. The maximum volume of water permitted to be taken in those years must also be recorded in the logbook.

Use of water

- MA2455-00001 Water must be used for town water supply purposes.

Monitoring and recording

- MW2336-00001 The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.

This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.
- MW2339-00001 A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.
- MW2338-00001 The completed logbook must be retained for five (5) years from the last date recorded in the logbook.
- MW2337-00001 The following information must be recorded in the logbook for each period of time that water is taken:
A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and
B. the access licence number under which the water is taken, and
C. the approval number under which the water is taken, and
D. the volume of water taken for domestic consumption and/or stock watering.

This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.
- MW0027-00009 The volume of water taken from 1 July 2016 until 30 June 2019 must be recorded in the logbook at the end of 30 June 2019. The maximum volume of water permitted to be taken in those water years must also be recorded in the logbook. The first water year is

from 1 July 2016 until 30 June 2017.

Reporting

MW0051-00003

Once the water access licence holder becomes aware of a breach of any condition on this water access licence, the water access licence holder must notify the Minister as soon as practicable. The Minister must be notified by:

A. email: water.enquiries@dpi.nsw.gov.au,

or

B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.

Other Conditions

NIL

Porters Creek – Licence No. 10CA 120004

Kind of Approval	Issue Date	Expiry Date	Approval Number	Status	Water Source
Water Supply Works And Water Use	01-JUL-2016	30-JUN-2029	10CA120004	Current	Upper Clyde River Water Source

Work Type	Description	Diameter	Status	No of Works	Location (Lot/DP)	Suffix	Work ID	ESID
Diversion Works - Other	Diversion Pipe	NA	Active	1	Lot 56, DP 755942	PART RESERVE WEST	1000232925	174215
Storages	Overshot Dam	NA	Active	1	Lot 56, DP 755942	PART RESERVE WEST	1000232924	174215

Use Purpose(s)	Location(s)
Town Water Supply	Lot 56, DP 755942

Water Access Licences nominating these works			
Reference Number	WAL Number	WAL Status	Status Date
10AL120003	38142	Current	01-JUL-2016

- Conditions

Plan Conditions

Water sharing plan	Clyde River Unregulated and Alluvial Water Sources 2016
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Take of water

MW0655-00001 Any water supply work authorised by this approval must take water in compliance with the conditions of the access licence under which water is being taken.

Monitoring and recording

MW0482-00001 Where a water meter is installed on a water supply work authorised by this approval, the meter reading must be recorded in the logbook before taking water. This reading must be recorded every time water is to be taken.

This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.

MW0484-00001 Before water is taken through the water supply work authorised by this approval, confirmation must be recorded in the logbook that cease to take conditions do not apply and water may be taken.

The method of confirming that water may be taken, such as visual inspection, internet search, must also be recorded in the logbook.

If water may be taken, the:

- A. date, and
- B. time of the confirmation, and
- C. flow rate or water level at the reference point in the water source must be recorded in the logbook.

MW2336-00001 The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.

This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.

MW2339-00001 A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.

MW2338-00001 The completed logbook must be retained for five (5) years from the last date recorded in the logbook.

MW2337-00001 The following information must be recorded in the logbook for each period of time that water is taken:

- A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and
- B. the access licence number under which the water is taken, and
- C. the approval number under which the water is taken, and
- D. the volume of water taken for domestic consumption and/or stock watering.

This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.

Reporting

MW0051-00001 Once the approval holder becomes aware of a breach of any condition on this approval, the approval holder must notify the Minister as soon as practicable. The Minister must be notified by:

- A. email: water.enquiries@dpi.nsw.gov.au, or
- B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.

MW3860-00001 A. When a water supply work authorised by this approval is no longer to be used permanently, the approval holder must:

- i. notify the relevant licensor in writing of the intention to decommission the work at least 90 days before the start of decommissioning, and
- ii. decommission the work, unless the approval holder receives notice in writing from the Minister within 60 days of notifying DPI Water requiring that the work is not to be decommissioned or be decommissioned in accordance with specific requirements.

B. Within 60 days of the work being decommissioned, the approval holder must notify the relevant licensor in writing that the work has been decommissioned.

Other Conditions

Water management works	
DK2499-00083	A pipe with a minimum diameter of 610 mm fitted with a stop valve, or other control device, must be constructed through the authorised dam. The invert level of the pipe must be fixed at not higher than 18.1 m below the benchmark, particulars of which are held in the relevant licensor, Nowra Office.
DK5623-00001	The level of the crest of the overshot of the dam must be fixed at not higher than 3.47 m below the level of a benchmark established on a messmate tree on the left bank of the watercourse near the work and particulars of which are retained in the office of DPI Water.
DK5339-00001	The approval holder must provide to DPI Water no later than 31st August each year a report (one hard copy and one electronic copy), containing raw data and analysis of all measurements taken to demonstrate compliance with volume entitlement, water access and flow conditions of this approval.
DK5657-00001	The level of the invert of the 460 mm diameter diversion pipe at its point of off-take must be fixed at not lower than 11.09 m below the level of the benchmark.
DK0871-00001	The water supply work authorised by this approval must be constructed and maintained in a way that will: A. ensure the work's safe construction and operation, and B. prevent the possibility of damage being caused by the work, or resulting from the work, to any public or private interest.

Appendix C Water Access Licence Number – WAL 27433

Category [Subcategory]	Status	Water Source	Tenure Type	Management Zone	Share Components (units or ML)	IDEC (Daily flow shares)
Major Utility(Urban Water)	Current	Shoalhaven River Gorge Water Source	Specific Purpose		329,000.00	N/A

Extraction Times or Rates

Subject to conditions water may be taken at any time or rate

Nominated Work Approval(s)

10CA117211

- Conditions

Plan Conditions

Water sharing plan	Greater Metropolitan Region Unregulated River Water Sources 2023
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Take of water

MW5155-00002	A. By 31 July each year, the licence holder must submit to Crown Lands and Water Division, Parramatta Office, a record of the volume of water taken under this water access licence for the previous water year. B. The record must be provided in an electronic format. C. The record must include volume of water taken for each month and in total for the previous water year.
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Other Conditions

NIL

Shoalhaven River – Approval No. 10CA 117211

Kind of Approval	Issue Date	Expiry Date	Approval Number	Status	Water Source
Water Supply Works And Water Use	01-JUL-2011	30-JUN-2031	10CA117211	Current	Shoalhaven River Gorge Water Source
Water Supply Works And Water Use	01-JUL-2011	30-JUN-2031	10CA117211	Current	Lower Kangaroo River Water Source
Water Supply Works And Water Use	01-JUL-2011	30-JUN-2031	10CA117211	Current	Fitzroy Falls Water Source

Work Type	Description	Diameter	Status	No of Works	Location (Lot/DP)	Suffix	Work ID	ESID
Diversion Works - Pumps	Kangaroo Valley Pumping Station	NA	Active	1		Whole Lot	1000145725	280030
Storages	Fitzroy Falls Reservoir	NA	Active	1		Whole Lot	1000145726	280026
Storages	Lake Yarroonga	NA	Active	1		Whole Lot	1000145724	280028
Storages	Tallowa Dam	NA	Active	1		Whole Lot	1000145723	70745

Water Access Licences nominating these works

Reference Number	WAL Number	WAL Status	Status Date
10AL116406	27433	Current	01-JUL-2011

- Conditions

Plan Conditions

Water sharing plan	Greater Metropolitan Region Unregulated River Water Sources 2023
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Take of water	
MW0655-00001	Any water supply work authorised by this approval must take water in compliance with the conditions of the access licence under which water is being taken.
MW0911-00001	Before water is taken through the water supply work authorised by this approval, visible flow in the water source at the location at which water is proposed to be taken must be confirmed. If a logbook is required to be kept: A. confirmation that water may be taken, and B. the method of confirmation, such as visual inspection, internet search must be recorded in the logbook.
MW5924-00001	A. Water must be released from Tallowa Dam to meet the supply requirements set in accordance with the Sydney Catchment Authority and Shoalhaven City Council Raw Water Supply Protocols, signed 5 January 2010, or as amended or replaced from time to time. B. Releases are not required when: i. an emergency situation arises and Crown Lands and Water Division, Parramatta Office, is notified in writing within seven days of becoming aware of the emergency, or ii. requirements cannot be met due to water supply work capacity constraints or necessary maintenance, refurbishment or modification work that has the potential to temporarily affect the flow rate or behaviour of water for a period of more than 24 hours. In this circumstance the approval holder must notify in writing Crown Lands and Water Division, Parramatta Office, and be granted permission not to release from Crown Lands and Water Division, or iii. Crown Lands and Water Division requires an alternate release due to an emergency situation or a maintenance activity, or iv. the storage is spilling at a rate that equals or exceeds the respective release requirement specified in (A) above.
MW2452-00001	Water must be taken through metering equipment that meets the following requirements: A. the metering equipment must accurately measure and record the flow of all water taken through the water supply work authorised by this approval, B. the metering equipment must comply with the Australian Standard AS 4747: 'Meters for non-urban supply', as may be updated from time to time, C. the metering equipment must be sited and installed at a place in the pipe, channel or conduit between the water source and the first discharge outlet. There must be no flow of water into or out of the pipe, channel or conduit between the water source and the metering equipment, and D. the metering equipment must be operated and maintained in a proper and efficient manner at all times. This condition ceases to apply to a work on the day on which that work is required to comply with the mandatory metering equipment condition under the Water Management (General) Regulation 2018.
Environmental matters	
MW4971-00001	Water transfer from the Shoalhaven River Water Source to the Upper Nepean and Upstream Warragamba Water Source must not commence unless: A. the total volume of water in Water NSW storages within these water sources is less than 75 % of the total storage capacity of those storages; and B. the level of water in Lake Yarroonga is equal to or greater than 55.34 m AHD.
MW5878-00001	A. Daily releases of water must be made from Fitzroy Falls Reservoir to Fitzroy Falls, so that at the end of each month five thirds of the months inflows have been released from Wildes Meadow Creek to Fitzroy Falls Reservoir, as measured at the Yarroonga Creek at Wildes Meadow gauge [No. 215233]. B. Releases are not required when: i. an emergency situation arises and Crown Lands and Water Division, Parramatta Office, is notified in writing within seven days of becoming aware of the emergency, or ii. requirements cannot be met due to water supply work capacity constraints or necessary maintenance, refurbishment or modification work that has the potential to temporarily affect the flow rate or behaviour of water for a period of more than 24 hours. In this circumstance the approval holder must notify in writing Crown Lands and Water Division, Parramatta Office, and be

granted permission in writing not to release from Crown Lands and Water Division, or
 iii. Crown Lands and Water Division requires an alternate release due to an emergency situation or a maintenance activity, or
 iv. the storage is spilling at a rate that equals or exceeds the respective release requirement specified in (A) above.
 C. If releases are not made under B(i), B(ii) or an alternative release is made under B(iii) then the approval holder must record the shortfall and credit the appropriate Banked Environmental Flow account.

- MW4970-00001 A Banked Environmental Flow account must be created and managed for Tallowa Dam and Fitzroy Falls Reservoir.
- MW4982-00001 The volume of water credited to a Banked Environmental Flow (BEF) account must:
 A. Only be released with the written direction of Crown Lands and Water Division.
 B. Reset to zero if any water spills over the water supply work.
 C. Be reduced at a rate of 1 % of the volume of water remaining in the BEF account per day.
 D. Releases must be managed so that the BEF account cannot have a negative balance.
- MW4981-00001 Water credited to a Banked Environmental Flow (BEF) account in the Upper Nepean and Upstream Warragamba Water Source can be transferred to any BEF account in the Upper Nepean and Upstream Warragamba Water Source after being granted written approval from Crown Lands and Water Division.
- MW5878-00004 A. Daily releases of water must be made from Tallowa Dam equal to:
 i. the daily inflows to Lake Yarrunga, when the daily inflow is less than or equal to the monthly 80th percentile flow; or
 ii. the monthly 80th percentile flow plus 20% of the difference between daily inflows and the monthly 80th percentile flow when the daily inflow is greater than the monthly 80th percentile flow.
- At the time of issuing this approval the 80th percentile flow thresholds are:
 January - 150 ML/day
 February - 161 ML/day
 March - 182 ML/day
 April - 259 ML/day
 May - 298 ML/day
 June - 334 ML/day
 July - 371 ML/day
 August - 332 ML/day
 September - 299 ML/day
 October - 281 ML/day
 November - 256 ML/day
 December - 179 ML/day.
- B. Releases are not required when:
 i. an emergency situation arises and Crown Lands and Water Division, Parramatta Office, is notified in writing within seven days of becoming aware of the emergency, or
 ii. requirements cannot be met due to water supply work capacity constraints or necessary maintenance, refurbishment or modification work that has the potential to temporarily affect the flow rate or behaviour of water for a period of more than 24 hours. In this circumstance the approval holder must notify in writing Crown Lands and Water Division, Parramatta Office, and be granted permission not to release from Crown Lands and Water Division, or
 iii. Crown Lands and Water Division requires an alternate release due to an emergency situation or a maintenance activity, or
 iv. the storage is spilling at a rate that equals or exceeds the respective release requirement specified in (A) above.
 C. If releases are not made under B(i), B(ii) or an alternative release is made under B(iii) then the approval holder must record the shortfall and credit the appropriate Banked Environmental Flow account.
- MW4972-00001 Water transfer from the Shoalhaven River Water Source to the Upper Nepean and Upstream Warragamba Water Source must cease when either:
 A. the total storage of Water NSW storages within these water sources is equal to or greater than 80 % of the total storage capacity; or
 B. the level of water in Lake Yarrunga is less than 55.34 m AHD.

Monitoring and recording

- MW0484-00001 Before water is taken through the water supply work authorised by this approval, confirmation must be recorded in the logbook that cease to take conditions do not apply and water may be taken.
- The method of confirming that water may be taken, such as visual inspection, internet search, must also be recorded in the logbook.
- If water may be taken, the:
 A. date, and
 B. time of the confirmation, and
 C. flow rate or water level at the reference point in the water source
 must be recorded in the logbook.
- MW2339-00001 A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.
- MW2338-00001 The completed logbook must be retained for five (5) years from the last date recorded in the logbook.
- MW2337-00001 The following information must be recorded in the logbook for each period of time that water is taken:
 A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and
 B. the access licence number under which the water is taken, and
 C. the approval number under which the water is taken, and
 D. the volume of water taken for domestic consumption and/or stock watering.
- This condition ceases to apply to a work on the day that the recording and reporting requirements apply to that work under the Water Management (General) Regulation 2018.

Reporting

- MW5876-00001 Data must be made available to the public at the earliest time that is practically possible and no later than 9.00 am regarding details of any releases from its storages for environmental and other purposes, and details of any run of river transfers, planned for the next twenty four hours.

MW5877-00001 Once Crown Lands and Water Division requests in writing, data must be provided on flows at given reference points held by the approval holder, within 14 days to Crown Lands and Water Division, Parramatta Office.

MW4983-00001 Once Crown Lands and Water Division requests in writing information arising from the operation of the authorised water supply works, information must be provided within 30 days to Crown Lands and Water Division, Parramatta Office.

Other Conditions

Water management works

DK7694-00041 The location and specifications of the water supply work(s) authorised by this approval, shown on the attached plan titled - '10CA117211 Description of authorised works' stamped April 2022, must not be altered. A copy of the plan is held in the relevant licensor, Parramatta Office.

Monitoring and recording

DS6258-00001 All instrumentation, monitoring, data management and reporting must be carried out in accordance with quality assurance and quality control procedures, and national standards.

Reporting

DK5863-00004

A. By 30 November each year, an Annual Compliance Report for the preceding water year must be submitted to Crown Lands and Water Division, Parramatta Office.

B. The report must contain:

- i. a compliance statement against each of the access licence and approval conditions;
- ii. analysis of all data for flow releases, water extractions, banked environmental flows and transfers made, comparisons with data from previous years, and an interpretation of the results;
- iii. an overview of the environmental monitoring program(s) that have been completed, its aims and objectives, methodologies and relevant maps;
- iv. an assessment of the effects of environmental flows and other water releases that have been completed during the water year;
- v. evidence verifying that the devices used for measuring and recording extractions and releases were subject to appropriate quality assurance and controls;
- vi. a list of all notifiable events; and
- viii. an electronic appendix that includes all raw data used in the preparation of this report.

C. The report must be provided in electronic form.

Appendix D SCC Water Release Protocols (Schedule 1)

Protocols for SCC's Drinking Water Releases from Tallowa Dam

1. Shoalhaven City Council has entered a permanent water saving methodology which will act as constant Level 1 water restriction and proactively reduce its water usage demands.
2. When the river flow (combined Kangaroo and Shoalhaven rivers measured at Hampden Bridge and Fossickers Flat respectively) is above 90ML/day WaterNSW will release Shoalhaven City Council's daily water supply requirements from Tallowa Dam. When the river flow (combined Kangaroo and Shoalhaven rivers measured at Hampden Bridge and Fossickers Flat respectively) drops below 90ML/day, Shoalhaven City Council will request WaterNSW to release water from Tallowa Dam to satisfy the daily water consumption of Shoalhaven City Council, in addition to the environmental flow requirement.
3. Shoalhaven City Council will aim to maintain Bamarang Dam between 0.5m down and Full Storage Level ensuring storage capacity is maximised for emergency water supply. Requested releases from Tallowa Dam would only aim to meet consumer demands of Shoalhaven City Council while combined inflow is <90 ML/d.
4. Shoalhaven City Council will enter Level 2 water restrictions after river inflows to Tallowa Dam stay below a combined total of 90ML/day for 90 days. Further water restrictions will be enacted after each additional combined 90 days has passed where river inflows stay below 90ML/day.
5. Danjera Dam is available for emergency release if WaterNSW is unable to supply water to Shoalhaven City Council due to water quality issues, maintenance tasks or outages. Supply from Danjera Dam would be arranged by Shoalhaven City Council in consultation with WaterNSW.
6. Shoalhaven City Council will continue to request water from Tallowa Dam that only meets daily demand until river inflows continually exceed 90ML/day. At such time, Shoalhaven City Council will return to normal pumping regime and water requests from WaterNSW.

The process of lifting water restrictions is not a part of this protocol