

Report card for the Bega and Brogo Regulated Rivers water source

Water Source Context	
<p>Boundary: The current boundary of the regulated river is defined by the following gazettes under Section 22C of the <i>Water Act 1912</i>:</p> <p>Govt Gazette No 68 24-6-77 Brogo River from Brogo Dam downstream to its junction with the Bega River.</p> <p style="padding-left: 40px;">Bega River from its junction with the Brogo River downstream to its junction with Jellat Jellat Creek.</p> <p>Govt Gazette No 63 22-4-77 Coopers Creek from its junction with the Brogo River to the upper limit of the lagoon section within portion 97, Parish of Bega.</p> <p>The WSP will amend this boundary to include:</p> <ul style="list-style-type: none"> • the adjacent river alluvial aquifer; • the tributaries flowing into Brogo Dam up to the high water mark; and • Bega River 500m upstream of the Brogo River junction. <p>Five hundred metres is considered a reasonable estimate of the extent of influence from any extraction from the groundwater system.</p>	
Average Annual Rainfall: 900 mm	Receiving water: Bega River Estuary
	Inflowing water sources: Upper Brogo River (Brogo Dam), Mid Bega Sands Lower Bega Lower Brogo Tributaries
License and Usage Water Use	
Dam Capacity	8980 ML
Licensed Water Use	<ul style="list-style-type: none"> - General Security 13,954 ML/y - High security 271 ML/y - Town Water Supply 700 ML/y
Annual Usage	No more than 65% of entitlement has been used with an average use of 34%

Draft Trading Rules	
INTO Water Source	Not permitted
WITHIN Water Source	Permitted

Current and proposed operating rules

Rule	Current	Proposed
Transparency Rule	inflows up to 10ML/d	Inflows up to 15 ML/d above 50% dam level
First Flush	12 hour delay	24 hour delay
End of system	Based on barrage licence conditions	Based on barrage licence conditions
Uncontrolled access	<p>Off-allocation rules</p> <p>Reach 1A > 50 ML/day over spillway on rising dam and 20 ML/day on a falling dam level</p> <p>Reach 1B > 50ML/d at North Brogo gauge on a rising river and 20 ML/day on a falling river</p> <p>Reach 1C > 50 ML/day at Angledale on a rising river and 15 ML/day on a falling river</p> <p>Reach B > 50 ML/day at Angledale on a rising river and 15 ML/day on a falling river; and Visible flow downstream of the Bega bridge; and > 30 ML/day at Kanoona on a rising river and visible flow on a falling river</p>	<p>> 50 ML/day over spillway on rising dam and 20 ML/day on a falling dam level</p> <p>> 50 ML/day over spillway plus > 50ML/d at North Brogo gauge on a rising river and 20 ML/day on a falling river</p> <p>> 50 ML/day at Angledale on a rising river and 15 ML/day on a falling river</p> <p>> 50 ML/day at Angledale on a rising river and 15 ML/day on a falling river, and Visible flow downstream of the Bega bridge and > 65 ML/day at Kanoona</p>
Supplementary access	<p>Off allocation rules as above</p> <p>Reach 1A</p> <p>Reach 1B</p> <p>Reach 1C</p> <p>Reach B</p>	<p>> 100 ML/day for over spillway</p> <p>>100 ML/day over spillway plus > 100ML/d at North Brogo gauge</p> <p>> 100 ML/day at the Angledale Gauge (gauging station number 219025)</p> <p>> 100 ML/day at the Angledale Gauge (gauging station number 219025 or</p> <p>(b) the flows at the Kanoona Gauge (gauging station number 219032) exceed 160 ML/day</p>

Conversions and Carry Over	
Conversion from Regulated (General Security) to Regulated (High Security) Access	Permitted
Conversion from Regulated (High Security) to Regulated (General Security) Access	Permitted
Conversion from Aquifer to Regulated (General Security)	Permitted
Conversion from Aquifer to Regulated (High Security)	Permitted
Carry Over	The Panel decided to not have carryover at the start of the Plan. The Plan will have a provision allowing the Minister to introduce a 10% carryover at a later stage if a majority of users wish for it to be introduced.

Key Factors for Panel Decisions

The Interagency Regional Panel considered the following impacts of river regulation:

- Seasonal redistribution;
- No drying out;
- Removal of freshes;
- Constant Flow;
- Loss of floodplain connectivity;
- Loss of volume downstream;
- Cold water from dam; and
- Water quality decline when dam levels are low.

They also considered the present river condition and instream values. The Brogo River is still currently in relatively good condition compared with other rivers in the Bega Valley.

The Panel concluded there was no reason to significantly change existing operational practice; however the condition may deteriorate over time. The Panel recommended that the Plan contain a provision that could allow an Environmental Contingency Allowance (ECA) of 500ML/y to be introduced once monitoring and increased knowledge of the environmental requirements of the system was achieved.

Matters Raised During Targeted Consultation

The increase in the transparency rule from 10 ML/y to 15 ML/y was raised by water users. The Panel noted users concerns and conditioned the rule to when dam levels exceed 50%.

More information about the macro planning process for the Bega and Brogo Rivers unregulated, regulated and alluvial water sources is available at: www.dwe.nsw.gov.au

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