

Border Rivers Water Supply Scheme

Operations Manual

February 2019

Water Plan (Border Rivers and Moonie) 2019

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Chapter 1 Preliminary

1 Short title

- (1) This operations manual may be cited as the Border Rivers Water Supply Scheme Resource Operations Licence Operations Manual.
- (2) Reference in this document to 'this manual' means the Border Rivers Water Supply Scheme Operations Manual for the Resource Operations Licence.

2 Interpretation of words used in this manual

- (1) The dictionary in attachment 1 defines particular words used in this manual.
- (2) References to licence holder in this manual are taken to mean the resource operations licence holder for the Border Rivers Water Supply Scheme.

3 Water supply scheme

The extent of the Border Rivers Water Supply Scheme within the Border Rivers and Moonie plan area is shown on the map in attachment 2.

4 Water sharing agreements between the State and New South Wales

Where there is inconsistency between the provisions in this manual and the provisions of any water sharing agreement between the State and New South Wales, then to the extent of the inconsistency, the water sharing agreement prevails.

Chapter 2 Water sharing rules

5 Scope of chapter 2

This chapter deals with—

- (a) water sharing rules for bulk storage accounts;
- (b) water sharing rules for individual water allocation holders.

Part 1 Water sharing rules for bulk storage accounts

Division 1 Distribution to bulk storage accounts

6 Resource assessment

Where a resource assessment has been conducted, the licence holder must distribute the volume of water as detailed under section 7.

7 Distribution to bulk storage accounts

- (1) The licence holder must distribute any water determined to be available under section 6, to the bulk storage accounts in accordance with—
 - (a) table 1, where the resource assessment has determined a positive volume of water to be distributed; or
 - (b) table 2, where the resource assessment has determined a negative volume of water to be distributed.
- (2) The bulk storage accounts for Queensland's share of the usable storage in Glenlyon Dam are defined in table 3.

Table 1 Priorities for water distribution to bulk storage accounts where the resource assessment has determined a positive volume

| Priority | Rules for distribution of water |
|----------|---|
| 1 | To the 'storage loss account' up to the account limit where the storage loss account balance is less than the account limit as at the date of the resource assessment. If the storage loss account balance is greater than the account limit as at the date of the resource assessment, then the excess reserve in the storage loss account must be distributed across the other bulk storage accounts. |
| 2 | To the 'general use delivery loss account' (if the account balance is negative) to bring the storage account balance to zero. |
| 3 | To the 'essential supplies account' and the 'essential supplies delivery loss account' up to the account limits in proportion to the quantities required to fill each of the accounts. |
| 4 | To the 'general use delivery loss account' (if the account balance is less than 30 per cent of the 'general use account') up to 30 per cent of the general use account. |
| 5 | To the general use account and the general use delivery loss account in the proportion 1:0.3 up to the account limits. |

Table 2 Priorities for water distribution to bulk storage accounts where the resource assessment has determined a negative volume

| Priority | Rules for distribution of water |
|----------|--|
| 1 | Deduct the deficit or an additional 30 per cent of the essential supplies use during the period, whichever is the lesser, from the essential supplies delivery loss account. |
| 2 | Deduct any remaining deficit from the general use delivery loss account. |

Table 3 Queensland bulk storage accounts

| Parameter | Description |
|-----------------------------------|---|
| Storage loss account | The storage loss account provides a reserve for the losses due to evaporation and seepage from Glenlyon Dam. The storage loss account limit as at any assessment date will vary depending on the volume of water held in Queensland's share of Glenlyon Dam and will be the volume of water required to provide for storage losses for the ensuing 12 month period assuming that the storage is drawn down at a constant rate. |
| Essential supplies account | The essential supplies account provides a 24 month reserve for town water supplies and comprises a usable volume and an additional storage loss reserve. |
| Essential supplies loss account | The essential supplies delivery loss account provides for transmission and operational losses for essential supplies and is based on a reserve of 60 per cent of deliverable essential supplies. The resource assessment process assumes that delivery loss will only be 30 per cent of the volume delivered under normal operating conditions. |
| General use account | The general use account provides for water to distribute to the individual water users individual storage account. The maximum volume that Queensland can store in this account is limited to 85 per cent of the total volume of supplemented entitlements in the Border Rivers Water Supply Scheme. |
| General use delivery loss account | The general use delivery loss account provides for transmission and operational losses incurred in delivering supplies to individual users to the end of the regulated system. |

Division 2 Water sharing rules for high priority water allocations

8 Supply of water to high priority water allocations

The maximum volume of water that the licence holder may supply a high priority water allocation holder must not exceed the nominal volume for that water allocation.

Part 2 Water sharing rules for individual accounts

9 Application of part 2

This part applies to medium priority water allocations.

Division 1 Distribution to individual storage accounts

10 Distribution to individual storage accounts

- (1) The licence holder must make a priority distribution of water to each water allocation holder's individual storage account in accordance with any guideline approved by the chief executive.
- (2) Where water has been distributed for the priority distribution, the licence holder must distribute water held in the general use account in proportion to the individual storage account limits established for each water allocation.
- (3) The licence holder must notify water allocation holders of distributions made to individual storage accounts.

Division 2 Individual accounts for continuous accounting

11 Individual storage accounts

- (1) The licence holder must establish an individual storage account for each water allocation.
- (2) The maximum volume that may be stored in an individual storage account must not exceed the individual storage account limit for that water allocation.
- (3) The individual storage account limit must be determined using the following formula—

$$ISA_{\text{limit}} = NV \times 85\%$$

- (4) The parameters used in the formula under subsection (3) are defined in table 4.
- (5) The licence holder must maintain a record of the individual storage account balance for each water allocation.
- (6) The maximum volume that the licence holder may supply for a water allocation must not exceed the individual storage account balance for that water allocation.
- (7) The individual storage account balance must be determined using the following formula—

$$ISA_{\text{balance}} = (ISA_{\text{previous balance}} - \Sigma WO - \Sigma MR_{\text{adjustment}} + \Sigma SWA) + \Sigma PD + \Sigma GD$$

- (8) The parameters used in the formula under subsection (7) are defined in table 5.

Table 4 Parameters used to determine an individual storage account

| Parameter | Description |
|-----------|--|
| ISA limit | The individual storage account limit is the maximum volume that may be stored in an individual storage account at any one time. |
| NV | Nominal volume of the water allocation. |
| 85% | The total storage capacity available in Glenlyon Dam for the storage of water for Queensland water allocations as a percentage of the total nominal volume for Queensland medium priority water allocations. |

Table 5 Parameters used in determining the individual storage account balance

| Parameter | Description |
|---------------------------------|---|
| ISA _{balance} | Individual storage account balance. The ISA _{balance} represents the volume of water available in an individual storage account. |
| ISA _{previous balance} | Individual storage account balance at the time of the previous resource assessment. |
| WO | Volume of water ordered by the water allocation holder with release dates from the date of the previous resource assessment to the current date. |
| MR _{adjustment} | Adjustment for volume of water taken in excess of water ordered since previous resource assessment. |
| SWA | Total volume of seasonal water assignments (into and out of the storage account). This volume may be positive or negative depending on net transfers. |
| PD | Priority distribution assigned to the individual storage account since the previous resource assessment. |
| GD | General distribution assigned to the individual storage account since the previous resource assessment. |

12 Individual usage accounts

- (1) The licence holder must establish an individual usage account for each water allocation which is equal to the nominal volume of the water allocation.
- (2) The licence holder must record the amount of water taken under a water allocation in the individual usage account.
- (3) The maximum volume of water that a licence holder may supply under a water allocation in a water year is the water allocation holder's individual usage account limit.
- (4) On the first day of each water year, the licence holder must set the balance of all individual usage accounts to zero.

Chapter 3 Seasonal water assignment rules

13 Seasonal water assignment rules

The licence holder may approve a seasonal assignment of a water allocation where the total use in a water year for the water supply scheme does not exceed the maximum volume of water available.

Attachment 1 Dictionary

| Term | Definition |
|-----------------------|---|
| priority distribution | A distribution of water to each medium priority water allocation holder, following the start of each water year, to provide for up to a maximum balance of 60 megalitres in each individual storage account irrespective of the size of the individual storage account. |
| resource assessment | An assessment undertaken by the Dumaresq–Barwon Border Rivers Commission to determine availability of uncommitted water resources to be shared between states. Refer to water sharing agreement under the <i>New South Wales–Queensland Border Rivers Act 1946</i> . |
| water year | The period from 1 July to 30 June. |

Attachment 2 Border Rivers Water Supply Scheme map

