Logan Basin Resource Operations Plan

December 2009

Amended March 2014

Revision 2
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Logan Basin Resource Operations Plan Amendment

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Foreword

Finalisation of the Logan Basin Resource Operations Plan Amendment 2014 to include the Christmas Creek and Running Creek Water Management Areas contributes to the implementation of the Government’s four-pillar economic policy. This plan will continue to implement the outcomes and strategies specified in the Water Resource (Logan Basin) Plan 2007 as well as to establish a framework for water trading to support economic growth and to strengthen regional communities.

This plan has also been amended to remove provisions that were duplicated from the Water Act 2000 or the Logan Water Resource Plan, or were redundant as they have already been implemented or served only to provide general information. This contributes to the Government’s commitment to a 20% reduction of red tape by 2018.

A draft amended plan was released for public consultation on 12 June 2013 with the close of submissions on 26 July 2013. A consultation report has been prepared to provide a summary of the issues raised during community consultation and in submissions received and how these issues were dealt with in finalising the amended plan.

I take this opportunity to acknowledge the role of the local water advisory committees in contributing to the management of water resources in Christmas and Running creeks. I would also like to thank all stakeholders and individuals who participated in the consultation process as this contributed to the final provisions in this plan.

Dr Brett Heyward
Director-General
Department of Natural Resources and Mines
Chapter 1  Preliminary

1 Short title
   (1) This resource operations plan may be cited as the Logan Basin Resource Operations Plan 2009.

2 Commencement of the resource operations plan
   This plan commenced on the 4 December 2009.
   An amendment to this plan under section 105 of the Water Act 2000 commences on the first business day after the amendment is notified in the Queensland Government Gazette.

3 Purpose of plan
   This plan implements the Water Resource (Logan Basin) Plan 2007.

4 Interpretation of words used in this plan
   The glossary (Attachment 1) provides further information on particular words used in this plan.

5 Plan area
   This plan applies to the area shown as the plan area on the map in Attachment 2, part 1.

6 Water to which this plan applies
   This plan applies to the water defined in section 8 of the Water Resource (Logan Basin) Plan 2007

7 Water management area—Water Regulation 2002, section 56(4A)
   A water management area shown on the map in Attachment 2, part 2 is a water management area for this plan.

8 Resource operations licence holder
   (1) A resource operations licence holder for this plan is the resource operations licence holder for the Logan River Water Supply Scheme.
   (2) The area managed under the resource operations licence for the Logan River Water Supply Scheme is shown on the map in Attachment 2, part 3.

9 Resource operations plan zones
   (1) Each of the zones shown on the maps in Attachment 2, parts 4 and 5 is a resource operations plan zone (‘zone’) for this plan.
   (2) Each zone includes—
       (a) each part of a watercourse, lake or spring that lies within the zone; and

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1To allow for future amendment to this plan, some section numbers have been deliberately left blank. This will facilitate any plan amendments that may occur without the need for the whole plan to be renumbered.
10 Information about areas

(1) The exact location of the boundaries of the plan area, resource operations plan zones and water management areas, is held in digital electronic form by the department.

(2) The information held in digital electronic form can be reduced or enlarged to show the details of the boundaries.

11 Metering

The resource operations licence holder must meter the taking of water under all water allocations and seasonal water assignments managed under their resource operations licence.

12 Interim program

(1) This section applies where the resource operations licence holder is unable to meet the requirements of this plan.

(2) The resource operations licence holder may at any time submit an interim program or an amendment to an existing program to the chief executive for approval if the holder proposes to operate in a way that is different to the requirements of this plan.

(3) Any submitted interim program or amendment to an existing program by the resource licence holder must include a timetable and interim methods to be used.

(4) In considering any submitted program, the chief executive—

(a) may request additional information from the resource operations licence holder; and

(b) must consider the public interest.

(5) In deciding any submitted program, the chief executive may either—

(a) approve the program with or without conditions; or

(b) amend and approve the amended program; or

(c) require the resource operations licence holder or water licence holder to submit a revised program.

(6) Within 10 business days of making a decision on a submitted program, the chief executive must notify the resource operations licence holder of the decision.

(7) Following approval of the program by the chief executive, the resource operations licence holder must—

(a) publish details of the approved program on their internet site; and

(b) operate in accordance with the approved program.

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2 The boundaries held in digital electronic form may be inspected at the department's regional office at Landcentre, corner of Main and Vulture streets, Woolloongabba, Qld 4102.
Where there is conflict between the provisions of this plan and the provisions of an approved program, the approved program prevails for the time that the program is in place.

13 Operating and environmental management rules and monitoring requirements

(1) The operating and environmental management rules and monitoring requirements of this plan do not apply in situations where implementing the rules or meeting requirements would be unsafe to a person or persons.

(2) Where subsection (1) applies, the resource operations licence holder must comply with the reporting requirements for an operational incident or emergency prescribed in chapter 8, of this plan.

14 Addressing water resource plan outcomes

Attachment 3 lists the outcomes of the Water Resource (Logan Basin) Plan 2007 and how the rules of this plan addresses those outcomes.
Chapter 2  Unallocated water

15  Scope of chapter 2
This chapter states a process for making available and dealing with, unallocated water mentioned in sections 25, 27 and 29 of the Water Resource (Logan Basin) Plan 2007.

16  Availability of unallocated water
(a) The volume of water available from the strategic reserve and town water supply reserve is detailed in Attachment 4, table 1; and
(b) Unallocated water held as general reserve is reserved for future use.

Part 1  Granting particular water allocations from the strategic reserve

17  Process for granting particular water allocations from the strategic reserve—Water Act 2000, section 122
(1) The chief executive may accept a submission—from the resource operations licence holder of the Logan River Water Supply Scheme, for making unallocated water available from the strategic water reserve for a high priority water allocation\(^3\).
(2) The submission must—
   (a) be made to the chief executive in writing;
   (b) state the zone for each proposed water allocation;
   (c) state the nominal volume of each proposed water allocation;
   (d) where applicable, include details of any interested holders that may intend to take action to have their interest in the proposed water allocations recorded on the water allocations register; and
   (e) be supported by sufficient information to enable the chief executive to assess the submission against the outcomes and objectives of the Water Resource (Logan Basin) Plan 2007.
(3) The chief executive may require the submitter to give additional information.
(4) If the applicant fails to provide the information required by the chief executive within the time specified in the notice, the application lapses.
(5) The chief executive may only grant a water allocation to the applicant, with or without conditions, if the chief executive is satisfied that the application has addressed the matters mentioned in section 23 of the Water Resource (Logan Basin) Plan 2007.

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(6) Within 30 business days after deciding the application, the chief executive must give the applicant a written notice stating the decision.

Part 2  
Granting unallocated water from the town water supply and general reserves

18  
Process for granting a water licence from the unallocated water reserves—*Water Act 2000*, section 212

The process for granting unallocated water must be in accordance with the requirements prescribed in part 2, division 1C of the Water Regulation 2002.
Chapter 3  Converting and granting authorisations

19  Rules for converting existing water authorisations and granting unsupplemented water allocations in the Christmas Creek Water Management Area and the Running Creek Water Management Area

The chief executive must convert existing water authorisations and grant unsupplemented water allocations in Priority Area 2, for—

(a)  Running Creek Water Management Area, in accordance with Attachment 6, table 2; and

(b)  Christmas Creek Water Management Area, in accordance with Attachment 6, table 3.

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4 Water authorisations are to be converted in accordance with the Water Resource (Logan Basin) Plan 2007, part 5, division 6.
Chapter 4  Logan River Water Supply Scheme

Part 1  Operating and environmental management rules

20  Use of watercourses for distribution

The resource operations licence holder may only use the following watercourses for the distribution of water—

(a) Burnett Creek from and including the ponded area of Maroon Dam downstream to the confluence of the creek with the Logan River (approximately AMTD 27 km to AMTD 0 km);

(b) Teviot Brook from and including the ponded area of Wyaralong Dam downstream to the confluence with the Logan River (approximately AMTD 40.8 km to AMTD 0 km);

(c) Logan River from the confluence with Burnett Creek downstream to the end of the supplemented section at Maclean Bridge (approximately AMTD 165.4 km to AMTD 65 km); and

(d) sections of tributaries of the Logan River, Teviot Brook and Burnett Creek, which contain water from the ponded area of infrastructure in this water supply scheme as detailed in Attachment 2, part 5, or water from natural waterholes located in the reaches described in (a), (b) and (c) above.

21  Operating levels for infrastructure

(1) The minimum operating levels, nominal operating levels and full supply levels for infrastructure in the Logan River Water Supply Scheme are specified in Attachment 5, table 7.

(2) The resource operations licence holder must not release or supply water from any infrastructure when the water level in that infrastructure is at or below its minimum operating level.

(3) The resource operations licence holder must not release water from any infrastructure unless the release is necessary to—

(a) meet daily releases mentioned in section 23;

(b) supply downstream demand; or

(c) maintain the downstream infrastructure at its nominal operating level.

(4) Despite subsection (3)—

(a) When the water level in Maroon Dam is at or below EL 193.23 m AHD\(^5\) the resource operations licence holder must not release or supply water from—

(i) any infrastructure to supply medium priority water allocations; and

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\(^5\) Volume held in storage at EL 193.23 m AHD equates to 10 000 ML.
(ii) Maroon Dam to supply high priority water allocations in zones LORSE, LORSF and LORSG.

(b) if the water level in Maroon Dam is greater than EL 207.14 m AHD, releases must be made to return the water level to EL 207.14 m AHD.

22 Change in rate of release from infrastructure
The resource operations licence holder must minimise the occurrence of adverse environmental impacts by ensuring that any change in the rate of release of water from Maroon Dam and Wyaralong Dam occurs incrementally.

23 Releases from infrastructure
(1) The resource operations licence holder must make daily releases—
   (a) from Maroon Dam—
      (i) equal to the volume of inflow, when inflow to Maroon Dam is less than or equal to 4 ML/day; or
      (ii) 4 ML/day when inflow to Maroon Dam is greater than 4 ML/day.
   (b) from Bromelton Weir—
      (i) equal to the volume of inflow, when inflow to Bromelton Weir is less than or equal to 5 ML/day; or
      (ii) 5 ML/day when inflow to Bromelton Weir is greater than 5 ML/day.
   (c) from Cedar Grove Weir—
      (i) equal to the volume of inflow, when inflow to Cedar Grove Weir is less than or equal to 5 ML/day; or
      (ii) 5 ML/day when inflow to Cedar Grove Weir is greater than 5 ML/day.
   (d) from Wyaralong Dam—
      (i) 0 ML/day when inflow to Wyaralong Dam is less than 2 ML/day; or
      (ii) 2 ML/day when inflow to Wyaralong Dam is equal to or greater than 2 ML/day, but less than 5 ML/day; or
      (iii) 5 ML/day when inflow to Wyaralong Dam is equal to or greater than 5 ML/day, but less than 50 ML/day; or
      (iv) 50 ML/day when inflow to Wyaralong Dam is equal to or greater than 50 ML/day.

(2) The volume of water released in accordance with subsection (1) may be included as water released to supply downstream demand.

(3) When making releases, from Bromelton Weir, Cedar Grove Weir, South Maclean Weir or Wyaralong Dam, the resource operations licence holder must preferentially use—
   (i) the fish passage device; then
   (ii) the outlet valve.
24 Operation of Bromelton Off-stream Storage

(1) The resource operations licence holder may only divert water from the Logan River to Bromelton Off-stream Storage when the following conditions are satisfied—

(a) the water level in Bromelton Off-stream Storage is less than the full supply level;
(b) flows past Bromelton Weir, measured at the gauging station located downstream of Bromelton Weir, are greater than 150 ML/day; and
(c) flows past Cedar Grove Weir are greater than 150 ML/day.

(2) The resource operations licence holder must cease diverting water from the Logan River to Bromelton Off-stream Storage when flows past the pump station on the Logan River are less than 150 ML/day.

(3) The maximum rate at which the resource operations licence holder may divert water into Bromelton Off-stream Storage using the pump station on the Logan River is—

(a) 249.8 ML/day when flows past Bromelton Weir, measured at the gauging station located downstream of Bromelton Weir, is less than or equal to 600 ML/day; and
(b) 450 ML/day when flows past Bromelton Weir, measured at the gauging station located downstream of Bromelton Weir, is greater than 600 ML/day.

(4) The maximum rate at which the resource operations licence holder may release water from Bromelton Off-stream Storage into the Logan River is 115 ML/day.

25 Supply of water

(1) In supplying water, the resource operations licence holder must manage releases—

(a) in order to minimise water losses; and
(b) to maximise security of supply.

(2) In meeting subsection (1)(b) the resource operations licence holder must manage releases to satisfy demand, using Maroon Dam as the last source of supply where possible.
Part 2  Water sharing rules

Division 1  Announced allocations

26  Announced allocations

(1) The resource operations licence holder must—
   (a) determine an announced allocation for each priority group for use in defining the share of water available to be taken under water allocations in that priority group;
   (b) use the water sharing rules specified in this part, to calculate announced allocations throughout the water year;
   (c) calculate and set the announced allocation for each priority group to take effect on the first day of each water year;
   (d) following the commencement of a water year—
      (i) recalculate the announced allocation to take effect no later than five business days following the first day of the month;
      (ii) reset the announced allocation if a recalculation indicates that the calculated announced allocation would—
         (A) increase by five or more percentage points; or
         (B) increase to 100 per cent; and
   (e) within five business days of setting an announced allocation under subsection 1(c) or the first calendar day of every month when resetting the announced allocation under subsection 1(d) make public the details of the announced allocation, including parameters for determining the announced allocation, on the resource operations licence holder’s internet site for the Logan River Water Supply Scheme.
   (f) not reduce the announced allocation during a water year;
   (g) round the announced allocation to the nearest whole percentage point; and
   (h) ensure the announced allocation is not less than zero or greater than 100 per cent.

(2) The parameters used in the announced allocation formula for high priority allocations and medium priority allocations are detailed in Attachment 5, tables 8 to 14.

27  Announced allocation for medium priority water allocations

(1) The resource operations licence holder must calculate the announced allocation for medium priority water allocations using the following formula—

\[ AA_{MP} = \left( \frac{UV + IN - HPA + DIV_{HP} - RE + DIV_{MP} - TOA}{MPA} \right) \times 100 \]

(2) However, despite subsection (1) if the water levels in Maroon Dam is equal to or less than the water levels stated in subsections (2)(i), (2)(ii), and (2)(iii) the resource operations
licence holder must not announce allocations for medium priority greater than the percentage specified in subsections (2)(i), (2)(ii) and or (2)(iii)—

(i) when the water level in Maroon Dam is equal to or less than EL 198.48 m AHD, but greater than EL 196.1 m AHD, the announced allocation for medium priority water allocations must not be greater than 55 per cent;

(ii) when the water level in Maroon Dam is equal to or less than EL 196.1 m AHD, but greater than EL 193.23 m AHD, the announced allocation for medium priority water allocations must not be greater than 10 per cent; and

(iii) when the water level in Maroon Dam is equal to or less than EL 193.23 m AHD, the announced allocation for medium priority water allocations must not be greater than 0 per cent.

28 Announced allocation for high priority water allocations

(1) The announced allocation for high priority water allocations must be as follows—

(a) 100 per cent where the announced allocation for medium priority group water allocations is greater than zero per cent;

(b) when the announced allocation for medium priority group water allocations is zero per cent the resource operations licence holder must calculate the announced allocation percentage for high priority water allocation using the following formula—

\[
AA_{HP} = \left\{ \frac{UV + DIV_{HP} - TOA}{HPA} \right\} \times 100
\]

(2) The parameters used in the announced allocation formula are detailed in Attachment 5 Tables 7 to 14.

29 Taking water under a water allocation

(1) The total volume of water taken under a water allocation in a water year must not exceed the nominal volume for the water allocation.

(2) The total volume of water that may be taken under a water allocation in a water year, other than during stream flow periods, must not exceed the nominal volume of the water allocation multiplied by the announced allocation and divided by 100.

(3) During a stream flow period for the zone to which a water allocation applies, water may be taken under the water allocation in addition to that which may be taken under subsection (2).

30 Stream flow period access conditions

(1) A stream flow period for a zone is a period of time that starts and ends at such time that the resource operations licence holder notifies under subsection (2).

(2) The resource operations licence holder for the scheme must notify the water allocation holders for the zone of the start and end of a stream flow period.
(3) The resource operations licence holder may start a stream flow period whenever the following requirements for the zone are being met—

(a) the announced allocation for the medium priority group is less than 100 per cent; and

(b) the water level in Cedar Grove Weir is equal to or greater than 20.50 m AHD, or will be equal to or greater than EL 20.50 m AHD during the stream flow period; and

(c) the water level in South Maclean Weir is equal to or greater than EL 10.50 m AHD, or will be equal to or greater than EL 10.50 m AHD during the stream flow period; and

(d) for zone BUCSB—

(i) the water level in Bromelton Weir is equal to or greater than EL 40.70 m AHD, or will be equal to or greater than EL 40.70 m AHD during the stream flow period; and

(ii) the flow rate in Burnett Creek downstream of Maroon Dam is greater than any release made in accordance with section 29(1)(a), plus any supplemented water releases from Maroon Dam;

(e) for zone LORSA—

(i) the water level in Bromelton Weir is equal to or greater than 40.7 m AHD, or will be equal to or greater than EL 40.7 m AHD during the stream flow period; and

(ii) the flow rate at Forest Home gauging station (145003B) on Logan River is greater than 10 ML per day.

(f) for zone LORSB—

(i) the water level in Bromelton Weir is equal to or greater than 40.70 m AHD, or will be equal to or greater than EL 40.70 m AHD during the stream flow period; and

(ii) the combined flow rate at both Rathdowney gauging station (145020A) on Logan River and Dieckmans Bridge gauging station (145010A) on Running Creek is greater than 15 ML per day;

(g) for zones LORSC, LORSD and LORSE—

(i) the water level in Bromelton Weir is equal to or greater than 40.70 m AHD, or will be equal to or greater than EL 40.70 m AHD during the stream flow period; and

(ii) the flow rate at Round Mountain gauging station (145008A) on Logan River is greater than 15 ML per day;

(h) for zones LORSF and LORSG—

(i) the water level in Wyaralong Dam is greater than EL 63.6 m AHD, or will be equal to or greater than EL 63.6 m AHD during the stream flow period; or
(ii) the flow rate is greater than 15 ML per day at Bromelton Weir tailwater gauging station (145025A), when the water level in Bromelton Weir is equal to or greater than 40.70 m AHD or will be equal to or greater than EL 40.70 m AHD during the stream flow period.

(4) The resource operations licence holder must notify the water allocation holders for a zone of the end of a stream flow period whenever any of the requirements in subsection 3 for the zone are no longer being met.

Part 3  Dealing with water allocations

Division 1  Subdivision or amalgamation of water allocations

31  Subdivisions or amalgamations

(1) Subdivision of a water allocation is permitted where—

(a) the sum of the nominal volumes of the new water allocations is equal to the nominal volume of the water allocation that is being subdivided; and

(b) the location and priority group of the new water allocations are the same as those of the water allocation that is being subdivided.

(2) Amalgamation of water allocations is permitted where—

(a) the nominal volume of the new water allocation is equal to the sum of the nominal volumes of the water allocations that are being amalgamated; and

(b) the locations and priority group of water allocations that are being amalgamated are the same.

Division 1  Water allocation change rules

Subdivision 1  Permitted changes

32  Location

(1) A change to the location for the taking of water under a water allocation is permitted provided the change would not result in a total nominal volume in a zone that—

(a) exceeds the maximum total nominal volume for a zone for a priority group; or

(b) is less than the minimum total nominal volume for a zone for a priority group.

(2) For this section, the maximum and minimum total nominal volumes for the priority groups for each zone are identified in Attachment 5, table 15.

(3) For this section, the total nominal volume in a zone is the total nominal volume of all water allocations of the same priority group—

(a) for the zone; and

(b) for which relevant valid change certificates have been issued under section 129 of the Water Act 2000.
Subdivision 2  Prohibited changes

33  Prohibited changes

  (1)  The following changes are prohibited—

      (a)  a change to the location of a water allocation that is not a zone listed in Attachment 5, table 15.

      (b)  a change to a priority group that is not specified in the Water Resource (Logan Basin) Plan 2007.

  (2)  For this section, the total nominal volume in a zone is the total nominal volume of all water allocations of the same priority group for the zone.

Subdivision 3  Other changes

34  Application for changes not specified as permitted or prohibited

An application for a change to a water allocation that is not specified as permitted or prohibited may be made in accordance with section 130 of the Water Act 2000.

35  Maximum water use

For this part—

      (a)  the maximum volume of water that may be taken in a zone in a water year for the Logan River Water Supply Scheme is the maximum allowable water use volume indicated in Attachment 5, table 16 for each zone; and

      (b)  total water use in a zone is the total volume of water used under water allocations for all priority groups managed by the resource operations licence holder for the zone.

36  Seasonal water assignment rules

  (1)  The resource operations licence holder may approve a seasonal assignment of a volume of water provided that the total volume of water use in a water year for each zone does not exceed the maximum allowable water use volume in Attachment 5, table 16 for each zone.

  (2)  The resource operations licence holder is responsible for dealing with applications for seasonal water assignment where the resource operations licence holder distributes to the assignee.
Chapter 5  Rules for unsupplemented water allocations

Part 1  Water sharing and data collection rules for Burnett Creek and Logan River water management areas

37  Announced period

(1) Water may only be taken under a water allocation located in the Burnett Creek and Logan River water management areas during an announced period.

(2) The chief executive must notify holders of water allocations of—

(a) the start and end of an announced period; or

(b) the conditions under which an announced period starts and ends.

(3) Details of flow conditions for water allocations to take unsupplemented water are described in Attachment 6, table 1.

(4) For water taken during an announced period, the water allocation holder and any assignee must record meter readings—

(a) at the start of taking water; and

(b) at the end of taking water.

(5) The water allocation holder and any assignee must transfer the data recorded under subsection (4) to the chief executive in the approved form within one business day following the end of an announced period.

Part 2  Water sharing rules for Christmas Creek and Running Creek water management areas

38  Flow conditions

The take of water under a water allocation located in the Christmas Creek and Running Creek water management areas may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.

39  Water sharing arrangements

a) “The Christmas and Running Creek Water Advisory Committees may continue to employ voluntary management arrangements to improve the sharing of available water, during periods of low flow.

b) The taking of water under water allocations located in the Christmas Creek and Running Creek water management areas should be consistent with these voluntary arrangements.”
Part 3  Dealing with water allocations

Division 1  Subdivision or amalgamation of water allocations

40  Subdivisions or amalgamations

(1) Subdivision of a water allocation into two or more water allocations is permitted where—

(a) the new water allocations have the same flow conditions and location; and

(b) the sum of the nominal volumes, annual volumetric limits, and maximum rates of take of the new water allocations is equal to the nominal volume, annual volumetric limit, and maximum rate of the water allocation that is being subdivided.

(2) Two or more water allocations may be amalgamated into a single water allocation where—

(a) the water allocations have the same flow conditions and location; and

(b) the nominal volume, annual volumetric limit, and maximum rate of the new water allocation are equal to the sum of the nominal volumes, annual volumetric limits, and maximum rates of the water allocations that are being amalgamated.

Division 2  Water allocation change rules

Subdivision 1  Prohibited changes

41  Prohibited changes

The following changes are prohibited—

(a) a change to the location of a water allocation;

(b) a change to a purpose that is not ‘any’;

Subdivision 2  Assessed changes—Water Act 2000, section 129A

42  Amendment to maximum rate for taking water under particular water allocations

(1) The holder of a water allocation located in the Burnett Creek or Logan River water management areas only may make an application to the chief executive to change the water allocation to increase the maximum rate for taking water by up to 50 per cent provided that the mean annual diversion of the water allocation is not increased.

(2) The chief executive must consider the information supplied by the applicant, under section 129A of the Water Act 2000 in deciding the application in accordance with section 134 of the Water Act 2000.

(3) The chief executive must only approve the application (with or without conditions) if the chief executive is satisfied that the change to the water allocation will not increase the maximum rate for taking water under the water allocation by greater than 50 per cent of
the current maximum rate for taking water under the water allocation, or a derivative\(^6\) of the water allocation, as granted on commencement, of this plan;

(4) The chief executive must refuse the application if—

(a) the chief executive is not satisfied in accordance with subsection (3); or

(b) the water allocation holder has already applied for and been granted an increase in the maximum rate for taking water under this section.

**Subdivision 3 Other changes**

### 43 Application for changes not specified as permitted or prohibited

An application for a change to a water allocation that is not specified as permitted or prohibited may be applied for in accordance with section 130 of the *Water Act 2000*.

**Part 4 Seasonal water assignment rules**

### 44 Seasonal water assignment rules

The chief executive may approve a seasonal water assignment of an unsupplemented water allocation—

(a) where the location of the seasonally assigned volume is not changed;

(b) where the conditions under which water may be taken under seasonal water assignment are the same as the conditions of the water allocation that is being seasonally assigned;

(c) if the volume of the seasonal water assignment is—

(i) less than the annual volumetric limit of the water allocation – where the combined maximum rate of the seasonal water assignment and the unassigned part of the water allocation is equal to the maximum rate of the water allocation; or

(ii) equal to the annual volumetric limit of the water allocation—where the maximum rate for the seasonal water assignment is equal to the maximum rate of the water allocation that is being seasonally assigned.

---

\(^6\) Derivative of a water allocation means a water allocation resulting from subdivision and amalgamation of water allocations granted on commencement of the Logan Basin Resource Operations Plan in December 2009.
Chapter 6 Performance assessment

45 Water monitoring

(1) The chief executive must measure or collect and keep publicly available, records of—

(a) water quantity;

(b) water taken;

(c) prices for water permanently traded;

(d) the number of permanent trades and seasonal assignments; and

(e) nominal volume of water permanently traded and seasonally assigned.

(2) The chief executive may use information collected to support water resource assessment and reporting.

46 Natural ecosystems monitoring

The chief executive must collect and keep publicly available information on ecological assets that are linked to the ecological outcomes of the Water Resource (Logan Basin) Plan 2007; and

47 Assessment

The chief executive must make ongoing assessments of whether the trends in the data measured, collected and recorded under sections 45 and 46 of this plan indicate that outcomes specified in the Water Resource (Logan Basin) Plan 2007 are being achieved.
Chapter 7  Resource operations licence holder monitoring and reporting

Part 1  Monitoring requirements

Division 1  Water quantity

48  Stream flow and infrastructure water level data
The resource operations licence holder must record infrastructure water level and stream flow data in accordance with Attachment 5, table 17.

49  Releases from infrastructure
(1)  This section applies to the following infrastructure—
   (a)  Maroon Dam;
   (b)  Bromelton Weir;
   (c)  Bromelton Off-stream Storage;
   (d)  Cedar Grove Weir;
   (e)  South Maclean Weir; and
   (f)  Wyaralong Dam.
(2)  The resource operations licence holder must measure and record for each release of water from infrastructure listed in subsection (1)—
   (a)  the daily volume and component volumes for each release;
   (b)  the release rate and for each change in release rate—
      (i)  the date and time of the change; and
      (ii)  the new release rate.
   (c)  the reason for each release; and
   (d)  the device used for release.
Announced allocations

The resource operations licence holder must record details of announced allocation determinations including—

(a) the announced allocations for medium and high priority water allocations;
(b) the date announced allocations are determined; and
(c) the value of each parameter applied for calculating the announced allocation.

Water taken by water users

The resource operations licence holder must record the total volume of water taken by each water user for each zone as follows—

(a) the total volume of water taken each quarter;
(b) the total volume of water entitled to be taken at any time; and
(c) the basis for determining the total volume of water entitled to be taken at any time.

Water diversions

The resource operations licence holder must measure and record the daily total volumes of water delivered to—

(a) Bromelton Off-stream Storage from the pumping station located on the Logan River; and
(b) Logan River from the Bromelton Off-stream Storage.

Stream flow period

The resource operations licence holder must record details of stream flow period announcements including—

(a) the start and end of any stream flow period; and
(b) the zone to which the stream flow period announcement applies.

Seasonal water assignment of water allocations

The resource operations licence holder that approves a seasonal water assignment must record details of seasonal water assignment arrangements including—

(a) the name of the assignee, volume and location of water that has been seasonally assigned by an assignor;
(b) the name of the assignor, volume and location of water that has been seasonally assigned to an assignee; and
(c) effective date of seasonal water assignments.

Division 2 Impact of infrastructure operation on natural ecosystems

Water quality

The resource operations licence holder must monitor and record water quality in relation to relevant infrastructure listed in attachment 5.
Bank condition

(1) The resource operations licence holder must inspect banks for evidence of collapse or erosion within the ponded areas associated with infrastructure listed in attachment 5 and downstream of the relevant infrastructure following instances of—

(a) rapid water level changes;
(b) large flows through infrastructure; or
(c) other occasions when collapse or erosion of banks may be likely.

(2) For subsection (1), downstream of the relevant infrastructure means the distance of influence of infrastructure operations.

Fish stranding

The resource operations licence holder must record and assess instances of fish stranding in watercourses and ponded areas associated with the operation of infrastructure listed in attachment 5 to determine if any instance of fish stranding is associated with the operation of that infrastructure.

Part 2 Reporting requirements

Reporting requirements

The resource operations licence holder must provide—

(a) an annual report; and
(b) if required—an operational or emergency report.

Annual report

(1) The resource operations licence holder must submit an annual report to the chief executive after the end of each water year.

(2) The annual report must include—

(a) water quantity monitoring results as required under section 60 of this plan;
(b) details of the impact of infrastructure operation on water quality as required under section 61 of this plan;
(c) a discussion about any issues that arose as a result of the implementation and application of the rules and requirements in this plan.

Water quantity monitoring—annual report

The resource operations licence holder must include in the annual report—

(a) stream flow and infrastructure water levels—all records referred to in section 48 of this plan;
(b) water diverted—records referred to in section 52 of this plan;
(c) a summary of announced allocation determinations including—

(i) an evaluation of the announced allocation procedures and outcomes; and
the date and value for the initial announced allocation and for each change made to an announced allocation;

(d) a summary of stream flow periods including the zone(s), commencement date and end date for each stream flow period;

(c) releases from infrastructure—records referred to in section 49;

(f) for the water year, the total annual volume of water taken by each water user, specified by zone, namely—

(i) the total volume of water taken;

(ii) the total volume of water entitled to be taken; and

(iii) the basis for determining the volume entitled to be taken;

(g) details of seasonal water assignments, namely—

(i) the total number of seasonal water assignment arrangements; and

(ii) the total volume of water seasonally assigned;

(h) all details of changes to infrastructure or the operation of infrastructure that may impact on compliance with the rules in this plan; and

(i) details of any new monitoring devices used such as equipment to measure stream flow.

61 Impact of infrastructure operation on natural ecosystems—annual report

The resource operations licence holder must include in the annual report—

(a) a summary of environmental considerations made by the resource operations licence holder in making operational and release decisions; and

(b) a summary of the environmental outcomes of the decision including any adverse environmental impacts;

(c) a summary of bank condition and fish stranding monitoring and assessment, including—

(i) results of investigations of bank slumping or erosion identified in ponded areas or downstream of infrastructure;

(ii) results of investigations of fish stranding downstream of infrastructure; and

(iii) changes to the operation of infrastructure to reduce instances of bank slumping, erosion or fish stranding.

(d) a discussion and assessment of the following water quality issues.

(i) thermal and chemical stratification in each water storage associated with infrastructure;

(ii) contribution of the water storage and its management to the quality of water released;
(iii) cumulative effect of successive water storages associated with infrastructure on water quality;

(iv) cyanobacteria population changes in response to water stratification in each water storage;

(v) any changes to the monitoring program as a result of evaluation of the data.

62 Operational or emergency reporting

The resource operations licence holder must—

(a) notify the chief executive within one business day of becoming aware of—

(i) any of the following operational incidents—

(A) a non-compliance by the resource operations licence holder with the rules in this plan; and

(B) instances of fish stranding or bank slumping within the ponded areas or downstream of infrastructure listed in attachment 5 or watercourses associated with the operation of the Logan River Water Supply Scheme;

(ii) an emergency where, as a result of the emergency, the resource operations licence holder cannot comply with a rule in this plan.

(b) provide to the chief executive a report which includes details of—

(i) the incident or emergency;

(ii) conditions under which the incident or emergency occurred;

(iii) any responses or activities carried out as a result of the incident or emergency; and

(iv) in relation to an emergency only, any rules specified in this plan that the resource operations licence holder is either permanently or temporarily unable to comply with due to the emergency.

\*This does not preclude requirements for dam safety under the Water Act 2000 and any other applicable legislation.*
Chapter 8 Amendments to the resource operations plan

Part 1 Amendments not requiring public notification

63 Application of part 1
This part states the amendments that may be made to this plan under section 106(b) of the Water Act 2000.

64 Amendments to this plan
(1) An amendment may be made to this plan if the chief executive is satisfied that the proposed amendment would not cause any significant detrimental impact on—
   (a) existing water entitlement holders; or
   (b) the availability of water for—
       (i) ecological assets; or
       (ii) natural ecosystems.

(2) The amendments under subsection (1) may include, but are not limited to, an amendment to infrastructure details, operating and environmental management rules, dealings with water allocations, water sharing rules or seasonal water assignment rules.

Part 2 Amendments requiring public notification

65 Application of part 2
This part states the amendments that may be made to this plan under section 105(6) of the Water Act 2000.

66 Amendments under the Water Act 2000
(1) The chief executive may amend this plan under section 105(6) of the Water Act 2000 to include additional requirements for water management.

(2) Amendments that may occur under section 105(6) of the Water Act 2000 include, but are not limited to—
   (a) an addition or amendment to resource operations plan zones, including the amalgamation or subdivision of existing zones;
   (b) providing for the operation and management of infrastructure for which a resource operations licence has been granted under the Water Act 2000 to meet future water requirements, where the chief executive is satisfied that the proposed infrastructure details, operating and environmental management rules, dealings with water allocations, water sharing rules or seasonal water assignment rules meet the objectives and outcomes of the Water Resource (Logan Basin) Plan 2007; or
(c) an addition or amendment to infrastructure details, operating and environmental management rules, dealings with water allocations, water sharing rules or seasonal water assignment rules for existing infrastructure where the chief executive is satisfied that the proposed amendment meets the objectives and outcomes of the Water Resource (Logan Basin) Plan 2007; or

(d) an amendment to provide for granting unallocated water from the strategic reserve in accordance with section 27 of the Water Resource (Logan Basin) Plan 2007.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD</td>
<td>The Australian Height Datum, which references a level or height to a standard base level.</td>
</tr>
<tr>
<td>Announced allocation</td>
<td>For a water allocation managed under a resource operations licence means a number, expressed as a percentage, which is used to determine the maximum volume of water that may be taken in a water year under the authority of a water allocation.</td>
</tr>
<tr>
<td>Announced period</td>
<td>The period of time, as determined and announced by the chief executive, when water may be taken in a water year under the authority of a water allocation.</td>
</tr>
<tr>
<td>Assignee</td>
<td>The person or entity to whom an interest or right to water is being transferred (e.g. seasonally assigned).</td>
</tr>
<tr>
<td>Assignor</td>
<td>The person or entity that transfers an interest or right in water to an assignee (e.g. a seasonal assignment).</td>
</tr>
<tr>
<td>Cease to flow level</td>
<td>For a waterhole, the level at which water stops flowing from a waterhole over its downstream control.</td>
</tr>
<tr>
<td>Component volumes</td>
<td>The volume of water associated with a particular release. For example, a component volume may be released via a fishway or valve.</td>
</tr>
<tr>
<td>Device used for release</td>
<td>The device used to release water from infrastructure. Devices include, but are not limited to, outlet valves, fish locks, or fishways.</td>
</tr>
<tr>
<td>EL</td>
<td>Means elevation.</td>
</tr>
<tr>
<td>Existing water authorisations</td>
<td>A water licence, interim water allocation or other authority to take water that has effect immediately prior to the commencement of this plan.</td>
</tr>
<tr>
<td>Fish stranding</td>
<td>Fish stranding means when fish are stranded or left out of water on the bed or banks of a watercourse, on infrastructure such as spillways and causeways, or left isolated in small or shallow pools, from which they cannot return to deeper water. Fish stranding also applies to other aquatic species.</td>
</tr>
<tr>
<td>Headwater</td>
<td>The watercourse immediately upstream of a dam, weir, or other hydraulic structure.</td>
</tr>
<tr>
<td>Ponded area</td>
<td>Area of inundation at full supply level of a dam or weir.</td>
</tr>
<tr>
<td>Infrastructure</td>
<td>A dam, weir or other water storage and any associated works for taking or interfering with water in a watercourse, lake or spring.</td>
</tr>
<tr>
<td>Inlet</td>
<td>Infrastructure comprised of an entrance channel, intake structure, and gate or valve which allow for water to be taken from the ponded area of a storage, dam or weir.</td>
</tr>
<tr>
<td>Location</td>
<td>For a water allocation, means the zone from which water under the water allocation can be taken. For a water licence, means the section of the watercourse, lake or spring abutting or contained by the land described on the water licence at which water may be taken.</td>
</tr>
<tr>
<td>Megalitre (ML)</td>
<td>One million litres.</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>The level or elevation of water within the ponded area of a storage, dam, or weir below which water cannot be released or taken from the infrastructure under normal operating conditions.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>The specified minimum volume of water within the ponded area of a storage, dam, or weir below which water cannot be released or taken from the infrastructure under normal operating conditions.</td>
</tr>
<tr>
<td>Nominal operating level</td>
<td>The nominal operating level is the level in a weir that must be maintained.</td>
</tr>
<tr>
<td>Outlet</td>
<td>Means an arrangement on a storage, dam or weir that allows stored water to be released.</td>
</tr>
<tr>
<td>Resource operations plan zone</td>
<td>Refer to section 8 of this plan.</td>
</tr>
<tr>
<td>Stream flow</td>
<td>Includes flow of water resulting from tributary inflows, and does not include releases of supplemented water.</td>
</tr>
<tr>
<td>Tail water</td>
<td>The flow of water immediately downstream of a dam or weir. Tail water includes all water passing the infrastructure, for example controlled releases and uncontrolled overflows.</td>
</tr>
<tr>
<td>Valid change certificate</td>
<td>A certificate issued under section 129 of the Water Act 2000.</td>
</tr>
<tr>
<td>Waterhole</td>
<td>A part of a watercourse that contains water after the watercourse ceases to flow, other than a part of a watercourse that is within the ponded area of a dam or weir on the watercourse.</td>
</tr>
<tr>
<td>Water losses</td>
<td>Watercourse transmission and operational losses that may occur in operating the Logan River Water Supply Scheme.</td>
</tr>
<tr>
<td>Water use</td>
<td>Refers to actual take of water.</td>
</tr>
<tr>
<td>Water year</td>
<td>The period from 1 July to 30 June.</td>
</tr>
</tbody>
</table>
Attachment 2   Maps

Part 1    Logan Basin plan area
Part 2  Water management areas (unsupplemented)
Part 3   Logan River Water Supply Scheme
Part 4  Resource operations plan zones (unsupplemented water)

**Figure 1** Burnett Creek Water Management Area Zone BCMCA and Logan River Water Management Area zones LRMCA and LRMCB

Logan Basin Resource Operations Plan Amendment 31
Figure 2 Logan River Water Management Area zones LRMCC, LRMCD and LRMCE
Figure 3 Logan River Water Management Area zones LRMCF and LRMC
Figure 4 Christmas Creek Water Management Area zone CCMCA
Figure 5 Running Creek Water Management Area zone RCMCA
Part 5  Resource operations plan zones (supplemented water)

Figure 1 Logan River Water Supply Scheme zones BUCSA, BUCSB and LORSA
Figure 2 Logan River Water Supply Scheme zones LORSB, LORSC and LORSD
Figure 3 Logan River Water Supply Scheme zones LORSE, LORSF and LORSG
Figure 4 Logan River Water Supply Schemes zones TVBSA and TVBSB
### General water outcomes of the Water Resource (Logan Basin) Plan 2007 (Section 10)

<table>
<thead>
<tr>
<th>General water outcomes of the Water Resource (Logan Basin) Plan 2007 (Section 10)</th>
<th>Resource operations plan rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each of the following is a general outcome for water in the plan area—</td>
<td></td>
</tr>
<tr>
<td>(a) to provide for future water requirements, including the opportunity for additional water to be taken from the plan area;</td>
<td>• dealing with unallocated water</td>
</tr>
</tbody>
</table>
| (b) to provide for the continued use of all water entitlements and other authorisations; | • granting and converting authorisations  
• water sharing rules |
| (c) to protect the probability of being able to obtain water under a water allocation; | • granting and converting authorisations  
• operating and environmental management rules  
• water sharing rules |
| (d) to encourage the efficient use of water; | • operating and environmental management rules  
• water sharing rules  
• water allocation change rules  
• resource operations licence holder monitoring and reporting  
• operating, monitoring and reporting requirements for particular water licences |
| (e)...to protect essential water supplies during times of low water availability; | • operating and environmental management rules  
• water sharing rules |
| (f) to support natural ecosystems by minimising changes to natural flow regimes; | • operating and environmental management rules  
• resource operations licence holder monitoring and reporting requirements  
• monitoring and reporting  
• operating, monitoring and reporting requirements for particular water licences |
| (g) to allow water-related cultural use of parts of the plan area by the traditional owners of the parts of the area | • operating and environmental management rules  
• resource operations licence holder monitoring and reporting requirements  
• monitoring and reporting  
• operating, monitoring and reporting requirements for particular water licences |
| (h) to provide consistency with the South East Queensland regional plan. | • dealing with unallocated water  
• operating and environmental management rules  
• water sharing rules |
Each of the following is an ecological outcome for water in a particular part of the plan area—

(a) for the Logan and Albert Rivers estuary—
   - to minimise changes to the delivery of fresh water, sediment, nutrients and organic matter to the estuary and Southern Moreton Bay; and
   - to minimise changes to the brackish water habitat in the estuary.

(b) for Canungra Creek, Christmas Creek, Running Creek, Palen Creek and Upper Logan River subcatchment areas, Albert River and its tributaries upstream of node F, Burnett Creek and its tributaries upstream of node A and Teviot Brook and its tributaries upstream of node E—
   - to minimise changes to the low flow regime of the watercourses; and
   - to minimise changes to the medium and high flow regime important to river forming processes.

<table>
<thead>
<tr>
<th>Particular ecological outcomes of the Water Resource (Logan Basin) Plan 2007 (Section 11)</th>
<th>Resource operations plan rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each of the following is an ecological outcome for water in a particular part of the plan area—</td>
<td></td>
</tr>
<tr>
<td>(a) for the Logan and Albert Rivers estuary—</td>
<td>operating and environmental management rules</td>
</tr>
<tr>
<td>- to minimise changes to the delivery of fresh water, sediment, nutrients and organic matter to the estuary and Southern Moreton Bay; and</td>
<td>resource operations licence holder monitoring and reporting requirements</td>
</tr>
<tr>
<td>- to minimise changes to the brackish water habitat in the estuary.</td>
<td>monitoring and reporting</td>
</tr>
<tr>
<td>(b) for Canungra Creek, Christmas Creek, Running Creek, Palen Creek and Upper Logan River subcatchment areas, Albert River and its tributaries upstream of node F, Burnett Creek and its tributaries upstream of node A and Teviot Brook and its tributaries upstream of node E—</td>
<td>operating, monitoring and reporting requirements for particular water licences</td>
</tr>
<tr>
<td>- to minimise changes to the low flow regime of the watercourses; and</td>
<td></td>
</tr>
<tr>
<td>- to minimise changes to the medium and high flow regime important to river forming processes.</td>
<td></td>
</tr>
</tbody>
</table>
## Attachment 4  Availability of unallocated water

### Table 1 Volumes available at the time of plan release

<table>
<thead>
<tr>
<th>Reserve purpose</th>
<th>Location</th>
<th>Nominal volume (ML)</th>
<th>Annual volumetric limit (ML)</th>
<th>Total volume available (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic reserve</td>
<td>Subcatchment 3*</td>
<td>37 000</td>
<td>–</td>
<td>37 000</td>
</tr>
<tr>
<td>Town water supply reserve</td>
<td>Canungra Creek</td>
<td>–</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

### Table 1 Maroon Dam, Burnett Creek—AMTD 23.5 km

<table>
<thead>
<tr>
<th>Description of water infrastructure</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Dam, earth and rockfill construction</td>
</tr>
<tr>
<td>Full supply level</td>
<td>EL 207.14 m AHD</td>
</tr>
<tr>
<td>Total storage capacity level</td>
<td>EL 217.52 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 185.81 m AHD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Full supply volume</td>
<td>44 319 ML</td>
</tr>
<tr>
<td>Total storage capacity</td>
<td>86 350 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>2 190 ML</td>
</tr>
<tr>
<td>Storage curves</td>
<td>A3-203833, A3-203834</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spillway arrangement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>Rectangular, ungated and unlined channel cut through rock. The spillway crest is a 300 mm high reinforced concrete control structure.</td>
</tr>
<tr>
<td>Spillway level</td>
<td>217.52 m AHD</td>
</tr>
<tr>
<td>Spillway width</td>
<td>137 M at EL 217.57 m AHD</td>
</tr>
<tr>
<td>Spillway length</td>
<td>179 m at EL 219.1m AHD</td>
</tr>
<tr>
<td>Spillway length</td>
<td>330 m</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Capacity 4800 m³/s. Drawing no: A3-211564</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>River inlet/outlet works</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>Two 1067 mm cone valves and one 300 mm cone valve (low flow outlet). The inlet tower for the outlet works has four portals, each 3.05 m wide by 4.57 m high. These share a common sill elevation of EL 185.81 m AHD.</td>
</tr>
<tr>
<td>Inlet</td>
<td>The submerged inlet tower is a reinforced concrete structure. The rooftop of the tower is at 190.96 m AHD, 16.2 m below FSL. The invert level of the inlet conduit is at 174.65 m AHD.</td>
</tr>
<tr>
<td>Cease to flow levels</td>
<td>Inlet level EL 185.81 m AHD</td>
</tr>
</tbody>
</table>

*Volume above EL 207.14 m AHD is used for flood mitigation.*
### Table 2 Bromelton Weir, Logan River—AMTD 113.2 km

<table>
<thead>
<tr>
<th>Description of water infrastructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Weir. Sheet pile with concrete rockfill and rock mattresses.</td>
</tr>
<tr>
<td>Full supply level</td>
<td>EL 40.7 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 37.62 m AHD</td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Full supply volume</td>
<td>390 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>50 ML</td>
</tr>
<tr>
<td>Storage curves</td>
<td>A3-105947, A3-105946</td>
</tr>
<tr>
<td><strong>Spillway arrangement</strong></td>
<td></td>
</tr>
<tr>
<td>Description of works</td>
<td>Nil</td>
</tr>
<tr>
<td>Spillway level</td>
<td>Nil</td>
</tr>
<tr>
<td>Spillway width</td>
<td>Nil</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Nil</td>
</tr>
<tr>
<td><strong>River inlet/outlet works</strong></td>
<td></td>
</tr>
<tr>
<td>Description of works</td>
<td>Outlet works consists of a 600 mm diameter pipe.</td>
</tr>
<tr>
<td>Inlet</td>
<td>Invert level of 600 mm outlet pipe at intake is EL 37.60 m AHD.</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Sluice gate maximum discharge rate of up to 115 ML/day.</td>
</tr>
</tbody>
</table>

### Table 3 Bromelton Off-stream Storage, Logan River—AMTD 100 km

<table>
<thead>
<tr>
<th>Description of water infrastructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Single ring tank storage with earth embankment</td>
</tr>
<tr>
<td>Full supply level</td>
<td>EL 44.5 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 36.5 m AHD</td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Full supply volume</td>
<td>8 210 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>1131 ML</td>
</tr>
<tr>
<td><strong>River inlet/outlet works</strong></td>
<td></td>
</tr>
<tr>
<td>Description of works</td>
<td>Two by 100 mm centrifugal pumps and five by 500 mm electro-submersible pumps.</td>
</tr>
<tr>
<td>Inlet</td>
<td>Multiple pump sets at AMTD 100.9 km with a combined maximum harvesting capacity of 450 ML/day.</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Gravity feed to river with maximum discharge rate of up to 115 ML/day</td>
</tr>
<tr>
<td>Description of water infrastructure</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Description</td>
<td>Sheet pile weir with concrete rockfill and rock mattresses.</td>
</tr>
<tr>
<td>Full supply level</td>
<td>EL 20.5 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 16.51 m AHD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Full supply volume</td>
<td>1,144 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>100 ML</td>
</tr>
<tr>
<td>Storage curves</td>
<td>A3-209911</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spillway arrangement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>Weir</td>
</tr>
<tr>
<td>Spillway level</td>
<td>Crest EL 20.5 m AHD</td>
</tr>
<tr>
<td>Spillway width</td>
<td>47.2 m (full width of weir)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>River inlet/outlet works</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>Outlet works consist of a 1035 mm diameter pipe with 600 mm butterfly valve.</td>
</tr>
<tr>
<td>Inlet</td>
<td>Invert level of 1035 mm outlet pipe at intake is EL 16.5 m AHD.</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Approximate maximum discharge rate of 200 ML/day.</td>
</tr>
</tbody>
</table>
### Table 5 South Maclean Weir, Logan River—AMTD 72.2 km

<table>
<thead>
<tr>
<th>Description of water infrastructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Earth/rockfill weir</td>
</tr>
<tr>
<td>Full supply level</td>
<td>EL 11.0 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 9.11 m AHD</td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Full supply volume</td>
<td>154 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>10 ML</td>
</tr>
<tr>
<td>Storage curves</td>
<td>Nil</td>
</tr>
<tr>
<td><strong>Spillway arrangement</strong></td>
<td></td>
</tr>
<tr>
<td>Description of works</td>
<td>Nil</td>
</tr>
<tr>
<td>Spillway level</td>
<td>Nil</td>
</tr>
<tr>
<td>Spillway width</td>
<td>Nil</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Nil</td>
</tr>
<tr>
<td><strong>River inlet/outlet works</strong></td>
<td></td>
</tr>
<tr>
<td>Description of works</td>
<td>Outlet works consist of a 400 mm outlet pipe with knife gate style valve.</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Approximate maximum discharge capacity of 46.57 ML/day.</td>
</tr>
</tbody>
</table>
Table 6 Wyaralong Dam, Teviot Brook—AMTD 14.8 km

<table>
<thead>
<tr>
<th>Description of water infrastructure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mass roller compacted gravity dam with central ogee spillway at AMTD 14.8 km</td>
</tr>
<tr>
<td>Full Supply level</td>
<td>EL 63.6 m AHD</td>
</tr>
<tr>
<td>Minimum operating level</td>
<td>EL 40.0 m AHD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Full supply volume</td>
<td>102 883 ML</td>
</tr>
<tr>
<td>Minimum operating volume</td>
<td>264 ML</td>
</tr>
<tr>
<td>Storage curves</td>
<td>A3-227740</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spillway arrangement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>Primary and secondary ogee spillway on dam crest</td>
</tr>
<tr>
<td>Spillway level</td>
<td>Main spillway : central overflow at EL 63.6 m AHD</td>
</tr>
<tr>
<td></td>
<td>Secondary spillway: left abutment at EL 66.3 m AHD</td>
</tr>
<tr>
<td>Spillway width</td>
<td>Main spillway: 135 m</td>
</tr>
<tr>
<td></td>
<td>Secondary spillway: 150 m</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Capacity 6 900 m³/s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>River inlet/outlet works</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of works</td>
<td>1600 mm diameter pipe with one 1200mm dewatering outlet valve and one 600 mm fishway release outlet valve.</td>
</tr>
<tr>
<td>Inlet</td>
<td>The inlet tower is a concrete structure with a trash rack. The tower is 34.3 m high and the top level is at 70.7 m AHD.</td>
</tr>
<tr>
<td>Discharge characteristics</td>
<td>Maximum discharge capacity of 1044.6 ML/day</td>
</tr>
</tbody>
</table>

Table 7 Infrastructure operating levels—Logan River Water Supply Scheme

<table>
<thead>
<tr>
<th>Infrastructure</th>
<th>Full supply level</th>
<th>Nominal operating level</th>
<th>Minimum operating level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maroon Dam</td>
<td>207.14 m AHD</td>
<td>Not applicable</td>
<td>185.81 m AHD</td>
</tr>
<tr>
<td>Bromelton Weir</td>
<td>40.7 m AHD</td>
<td>Not applicable</td>
<td>37.62 m AHD</td>
</tr>
<tr>
<td>Bromelton Off-stream</td>
<td>44.5 m AHD</td>
<td>Not applicable</td>
<td>36.5 m AHD</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cedar Grove Weir</td>
<td>20.5 m AHD</td>
<td>17.87 m AHD</td>
<td>16.51 m AHD</td>
</tr>
<tr>
<td>South Maclean Weir</td>
<td>11.0 m AHD</td>
<td>9.56 m AHD</td>
<td>9.11 m AHD</td>
</tr>
<tr>
<td>Wyaralong Dam</td>
<td>63.6 m AHD</td>
<td>Not applicable</td>
<td>39.8 m AHD</td>
</tr>
</tbody>
</table>

Logan Basin Resource Operations Plan Amendment
Table 8 Announced Allocation Parameters—Logan River Water Supply Scheme

<table>
<thead>
<tr>
<th>Term</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>$AA_{HP}$</td>
<td>High priority announced allocation</td>
</tr>
<tr>
<td>$AA_{MP}$</td>
<td>Medium priority announced allocation</td>
</tr>
<tr>
<td>HPA</td>
<td>High priority water allocations (ML)</td>
</tr>
<tr>
<td>MPA</td>
<td>Medium priority water allocations (ML)</td>
</tr>
<tr>
<td>UV</td>
<td>Useable volume (ML)</td>
</tr>
<tr>
<td>SL</td>
<td>Storage loss (ML)</td>
</tr>
<tr>
<td>IN</td>
<td>Assumed minimum inflow (ML)</td>
</tr>
<tr>
<td>$DIV_{HP}$</td>
<td>High priority diversion (ML)</td>
</tr>
</tbody>
</table>

$AA_{HP}$

High priority announced allocation

$AA_{MP}$

Medium priority announced allocation

HPA

High priority water allocations (ML)

MPA

Medium priority water allocations (ML)

UV

Useable volume (ML)

SL

Storage loss (ML)

IN

Assumed minimum inflow (ML)

$DIV_{HP}$

High priority diversion (ML)

The percentage of the nominal volumes for high priority water allocations that may be taken for the current water year.

The percentage of the nominal volume for medium priority water allocations that may be taken for the current water year.

The total nominal volume of high priority water allocations in the Logan River Water Supply Scheme.

The total nominal volume of medium priority water allocations in the Logan River Water Supply Scheme.

The useable volume is determined by summing the useable volume of each of the water storage infrastructure included in the resource assessment.

$UV = \text{sum (UV storage)}$

$UV_{storage} = (CV - MOV - SL)$

$UV_{storage} = 0$ if $(CV - MOV - SL)$ is less than 0

Where—

$UV$ is the useable volume of each storage.

$CV$ is the current volume of the storage.

$MOV$ is the minimum operating volume of the storage.

$SL$ is the projected storage loss.

Storages included in the resource assessment are: Maroon Dam, Wyaralong Dam, Bromelton Off-stream Storage and Cedar Grove Weir.

The net projected storage loss from the storages for the remainder of the water year and includes lake evaporation plus seepage minus direct rainfall onto the storage.

The storage loss volume is calculated by using the value next to the current month multiplied by the current surface area of the storage.

The storage loss values used for resource assessment purposes are shown in table 9.

The allowance for inflows used in the resource assessment and includes assumed minimum inflow into Maroon Dam and Wyaralong Dam, and assumed minimum tributary inflows into the weirs.

The assumed minimum inflow used for resource assessment purposes is show in table 10.

The volume of high priority water diverted by high priority water allocation holders in the current water year up to the time of the assessment of the announced allocation.
<table>
<thead>
<tr>
<th>Term</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIV&lt;sub&gt;MP&lt;/sub&gt; Medium priority diversion (ML)</td>
<td>The volume of medium priority water diverted by medium priority water allocation holders in the current water year up to the time of the assessment of the announced allocation, less any water taken during a stream flow period under section 36.</td>
</tr>
<tr>
<td>RE Reserve (ML)</td>
<td>The reserve is the volume set aside for supplying high priority water allocations in future months beyond the current resource assessment. The reserve volume for each month of the resource assessment is shown in table 11.</td>
</tr>
<tr>
<td>TOA Transmission and operational allowance (ML)</td>
<td>An allowance for the river transmission and operational losses expected to occur in running the system to the end of the water year. TOA varies with the announced allocation for medium priority water allocations. TOA is to be calculated using tables 12, 13 or 14, depending on the HPA value.</td>
</tr>
</tbody>
</table>

**Table 9 Storage loss depth (mm)—Logan River Water Supply Scheme**

<table>
<thead>
<tr>
<th>Month in which announced allocation was calculated</th>
<th>Maroon Dam</th>
<th>Bromelton Off-stream Storage</th>
<th>Cedar Grove Weir</th>
<th>Wyaralong Dam</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>475.8</td>
<td>475.8</td>
<td>475.8</td>
<td>475.8</td>
</tr>
<tr>
<td>August</td>
<td>435.5</td>
<td>435.5</td>
<td>435.5</td>
<td>435.5</td>
</tr>
<tr>
<td>September</td>
<td>395.2</td>
<td>395.2</td>
<td>395.2</td>
<td>395.2</td>
</tr>
<tr>
<td>October</td>
<td>356.2</td>
<td>356.2</td>
<td>356.2</td>
<td>356.2</td>
</tr>
<tr>
<td>November</td>
<td>315.9</td>
<td>315.9</td>
<td>315.9</td>
<td>315.9</td>
</tr>
<tr>
<td>December</td>
<td>276.9</td>
<td>276.9</td>
<td>276.9</td>
<td>276.9</td>
</tr>
<tr>
<td>January</td>
<td>236.6</td>
<td>236.6</td>
<td>236.6</td>
<td>236.6</td>
</tr>
<tr>
<td>February</td>
<td>196.3</td>
<td>196.3</td>
<td>196.3</td>
<td>196.3</td>
</tr>
<tr>
<td>March</td>
<td>158.6</td>
<td>158.6</td>
<td>158.6</td>
<td>158.6</td>
</tr>
<tr>
<td>April</td>
<td>118.3</td>
<td>118.3</td>
<td>118.3</td>
<td>118.3</td>
</tr>
<tr>
<td>May</td>
<td>79.3</td>
<td>79.3</td>
<td>79.3</td>
<td>79.3</td>
</tr>
<tr>
<td>June</td>
<td>39.0</td>
<td>39.0</td>
<td>39.0</td>
<td>39.0</td>
</tr>
</tbody>
</table>
### Table 10 Assumed minimum inflow—Logan River Water Supply Scheme

<table>
<thead>
<tr>
<th>Month in which announced allocation is calculated</th>
<th>Assumed minimum inflow for remainder of water year (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>2384</td>
</tr>
<tr>
<td>August</td>
<td>2236</td>
</tr>
<tr>
<td>September</td>
<td>2170</td>
</tr>
<tr>
<td>October</td>
<td>2128</td>
</tr>
<tr>
<td>November</td>
<td>2048</td>
</tr>
<tr>
<td>December</td>
<td>1944</td>
</tr>
<tr>
<td>January</td>
<td>1763</td>
</tr>
<tr>
<td>February</td>
<td>1426</td>
</tr>
<tr>
<td>March</td>
<td>937</td>
</tr>
<tr>
<td>April</td>
<td>619</td>
</tr>
<tr>
<td>May</td>
<td>398</td>
</tr>
<tr>
<td>June</td>
<td>219</td>
</tr>
</tbody>
</table>

### Table 11 High priority reserve—Logan River Water Supply Scheme

<table>
<thead>
<tr>
<th>Month in which announced allocation is calculated</th>
<th>Reserve (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>5000</td>
</tr>
<tr>
<td>August</td>
<td>5000</td>
</tr>
<tr>
<td>September</td>
<td>5000</td>
</tr>
<tr>
<td>October</td>
<td>5000</td>
</tr>
<tr>
<td>November</td>
<td>5000</td>
</tr>
<tr>
<td>December</td>
<td>5000</td>
</tr>
<tr>
<td>January</td>
<td>5000</td>
</tr>
<tr>
<td>February</td>
<td>6000</td>
</tr>
<tr>
<td>March</td>
<td>7000</td>
</tr>
<tr>
<td>April</td>
<td>8000</td>
</tr>
<tr>
<td>May</td>
<td>9000</td>
</tr>
<tr>
<td>June</td>
<td>10 000</td>
</tr>
</tbody>
</table>
Table 12 Transmission and operational allowance—Logan River Water Supply Scheme
Table 12 must be used to determine TOA when HPA is 9856 ML

<table>
<thead>
<tr>
<th>Month in which announced allocation is calculated</th>
<th>Transmission and operational loss allowance (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$AA_{MP} = 0%$</td>
</tr>
<tr>
<td>July</td>
<td>1739</td>
</tr>
<tr>
<td>August</td>
<td>1690</td>
</tr>
<tr>
<td>September</td>
<td>1447</td>
</tr>
<tr>
<td>October</td>
<td>1289</td>
</tr>
<tr>
<td>November</td>
<td>1120</td>
</tr>
<tr>
<td>December</td>
<td>983</td>
</tr>
<tr>
<td>January</td>
<td>840</td>
</tr>
<tr>
<td>February</td>
<td>689</td>
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<tr>
<td>March</td>
<td>556</td>
</tr>
<tr>
<td>April</td>
<td>409</td>
</tr>
<tr>
<td>May</td>
<td>256</td>
</tr>
<tr>
<td>June</td>
<td>127</td>
</tr>
</tbody>
</table>

Table 13 Transmission and operational allowance—Logan River Water Supply Scheme
Table 13 must be used to determine TOA when HPA is greater than 9856 ML but equal to or less than 19 856 ML

<table>
<thead>
<tr>
<th>Month in which announced allocation is calculated</th>
<th>Transmission and operational loss allowance (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$AA_{MP} = 0%$</td>
</tr>
<tr>
<td>July</td>
<td>3504</td>
</tr>
<tr>
<td>August</td>
<td>3224</td>
</tr>
<tr>
<td>September</td>
<td>2915</td>
</tr>
<tr>
<td>October</td>
<td>2596</td>
</tr>
<tr>
<td>November</td>
<td>2257</td>
</tr>
<tr>
<td>December</td>
<td>1980</td>
</tr>
<tr>
<td>January</td>
<td>1692</td>
</tr>
<tr>
<td>February</td>
<td>1388</td>
</tr>
<tr>
<td>March</td>
<td>1121</td>
</tr>
<tr>
<td>April</td>
<td>823</td>
</tr>
</tbody>
</table>
Table 14 Transmission and operational allowance—Logan River Water Supply Scheme

Table 14 must be used to determine TOA when HPA is greater than 19 856 ML

<table>
<thead>
<tr>
<th>Month in which announced allocation is calculated</th>
<th>Transmission and operational loss allowance (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$AA_{MP} = 0%$</td>
</tr>
<tr>
<td>July</td>
<td>8269</td>
</tr>
<tr>
<td>August</td>
<td>7608</td>
</tr>
<tr>
<td>September</td>
<td>6879</td>
</tr>
<tr>
<td>October</td>
<td>6126</td>
</tr>
<tr>
<td>November</td>
<td>5326</td>
</tr>
<tr>
<td>December</td>
<td>4672</td>
</tr>
<tr>
<td>January</td>
<td>3993</td>
</tr>
<tr>
<td>February</td>
<td>3275</td>
</tr>
<tr>
<td>March</td>
<td>2645</td>
</tr>
<tr>
<td>April</td>
<td>1942</td>
</tr>
<tr>
<td>May</td>
<td>1215</td>
</tr>
<tr>
<td>June</td>
<td>604</td>
</tr>
<tr>
<td>Zone</td>
<td>High priority group water allocations</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Minimum total nominal volume (ML)</td>
</tr>
<tr>
<td>BUCSA</td>
<td>0</td>
</tr>
<tr>
<td>BUCSB</td>
<td>0</td>
</tr>
<tr>
<td>LORSA</td>
<td>0</td>
</tr>
<tr>
<td>LORSB</td>
<td>0</td>
</tr>
<tr>
<td>LORSC</td>
<td>0</td>
</tr>
<tr>
<td>LORSR</td>
<td>0</td>
</tr>
<tr>
<td>LORSE</td>
<td>0</td>
</tr>
<tr>
<td>LORSF</td>
<td>0</td>
</tr>
<tr>
<td>LORSG</td>
<td>38 631</td>
</tr>
<tr>
<td>TVBSA</td>
<td>0</td>
</tr>
<tr>
<td>TVBSB</td>
<td>0</td>
</tr>
</tbody>
</table>
### Table 16 Maximum allowable water use volumes for the Logan River Water Supply Scheme

<table>
<thead>
<tr>
<th>Zone</th>
<th>Maximum allowable use (ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUCSA</td>
<td>730</td>
</tr>
<tr>
<td>BUCSB</td>
<td>2,035</td>
</tr>
<tr>
<td>LORSA</td>
<td>770</td>
</tr>
<tr>
<td>LORSB</td>
<td>4,835</td>
</tr>
<tr>
<td>LORSC</td>
<td>4,110</td>
</tr>
<tr>
<td>LORSB</td>
<td>8,150</td>
</tr>
<tr>
<td>LORSE</td>
<td>6,100</td>
</tr>
<tr>
<td>LORSF</td>
<td>385</td>
</tr>
<tr>
<td>LORSF</td>
<td>56,856</td>
</tr>
<tr>
<td>TVBSA</td>
<td>1,000</td>
</tr>
<tr>
<td>TVBSB</td>
<td>500</td>
</tr>
</tbody>
</table>

### Table 17 Locations where continuous time series infrastructure water level and stream flow data are required

<table>
<thead>
<tr>
<th>Location</th>
<th>Continuous time series infrastructure water level data</th>
<th>Continuous time series stream flow data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maroon Dam inflow</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Maroon Dam headwater</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Maroon Dam tailwater</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Bromelton Weir headwater</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Bromelton Weir tailwater</td>
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<td>Bromelton Off-stream Storage</td>
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<td>Cedar Grove Weir headwater</td>
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<tr>
<td>Cedar Grove Weir tailwater</td>
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</tr>
<tr>
<td>South Maclean Weir headwater</td>
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<td>South Maclean Weir tailwater</td>
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<td>✓</td>
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<tr>
<td>Wyaralrong Dam inflow</td>
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<tr>
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<td>Wyaralrong Dam tailwater</td>
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### Attachment 6 Unsupplemented water allocations

**Table 1 Flow conditions for water allocations to take unsupplemented water in Burnett Creek and Logan River water management areas**

<table>
<thead>
<tr>
<th>Water allocation group code</th>
<th>Location zone code</th>
<th>Flow condition</th>
<th>Flow condition description (megalitres per day – ML/d)</th>
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</thead>
<tbody>
<tr>
<td>1C BCMCA</td>
<td>1 and 2 and 3</td>
<td>(1)</td>
<td>Surface flows greater than 100 ML/d past Cedar Grove Weir.</td>
</tr>
<tr>
<td></td>
<td>(2)</td>
<td>Surface flows greater than 100 ML/d past Bromelton Weir.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3)</td>
<td>20 ML/d release from Maroon Dam storage.</td>
<td></td>
</tr>
<tr>
<td>3C LRMCA</td>
<td>1 and 2 and (3 or 4)</td>
<td>(4)</td>
<td>Surface flows greater than 100 ML/d past Cedar Grove Weir.</td>
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<td>(5)</td>
<td>Surface flows greater than 100 ML/d past Bromelton Weir.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(6)</td>
<td>20 ML/d release from Maroon Dam storage.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(7)</td>
<td>Combined surface flow of 75 ML/d at Forest Home GS 145003B and flood releases from Maroon Dam storage.</td>
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<td>LRMCB</td>
<td>1 and 2 and (3 or 4 or 5)</td>
<td>(8)</td>
<td>Surface flows greater than 100 ML/d past Cedar Grove Weir.</td>
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<tr>
<td></td>
<td>(9)</td>
<td>Surface flows greater than 100 ML/d past Bromelton Weir.</td>
<td></td>
</tr>
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<td></td>
<td>(10)</td>
<td>20 ML/d release from Maroon Dam storage.</td>
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<td>(11)</td>
<td>Combined surface flow of 75 ML/d at Forest Home GS 145003B and flood releases from Maroon Dam storage.</td>
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<tr>
<td></td>
<td>(12)</td>
<td>Combined surface flow of 90 ML/d at Dieckmans Bridge GS 145010A and Rathdowney GS 145020A.</td>
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</tr>
<tr>
<td>LRMCC, LRMCD and LRMCE</td>
<td>1 and 2 and (3 or 4 or 5 or 6)</td>
<td>(13)</td>
<td>Surface flows greater than 100 ML/d past Cedar Grove Weir.</td>
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<td></td>
<td>(14)</td>
<td>Surface flows greater than 100 ML/d past Bromelton Weir.</td>
<td></td>
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<tr>
<td></td>
<td>(15)</td>
<td>20 ML/d release from Maroon Dam storage.</td>
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<td>(16)</td>
<td>Combined surface flow of 75 ML/d at Forest Home GS 145003B and flood releases from Maroon Dam storage.</td>
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<td>(17)</td>
<td>Combined surface flow of 90 ML/d at Dieckmans Bridge GS 145010A and Rathdowney GS 145020A.</td>
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<td></td>
<td>(18)</td>
<td>Surface flow greater than 100 ML/d at Round Mountain GS 145008A.</td>
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<td>LRMCF and LRMCG</td>
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<td>(19)</td>
<td>Surface flows greater than 100 ML/d past Cedar Grove Weir.</td>
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Table 2: Unsupplemented water allocations Running Creek Water Management Area**

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<th>Water Allocation Number</th>
<th>Name/Company</th>
<th>Tenancy Type</th>
<th>Share of Water Allocation</th>
<th>Location</th>
<th>Purpose</th>
<th>Other Conditions</th>
<th>Nominal Volume (ML)</th>
<th>Volumetric limits (ML/a)</th>
<th>Max Rate For Taking Water (l/s)</th>
<th>Flow Conditions</th>
<th>Water Allocation Group</th>
<th>Converting Authority</th>
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<td></td>
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The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.
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<th>Name/Company</th>
<th>Family Name/Company</th>
<th>Given Names</th>
<th>Tenancy Type</th>
<th>Share of Water Allocation</th>
<th>Tenancy Comments</th>
<th>Location</th>
<th>Purpose</th>
<th>Other Conditions</th>
<th>Nominal Volume (ML)</th>
<th>Volumetric limits (ML/a)</th>
<th>Max Rate For Taking Water (l/s)</th>
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<th>Water Allocation Group</th>
<th>Converting Authority</th>
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<td>Nil</td>
<td>26</td>
<td>Not greater than 30</td>
<td>25</td>
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<tr>
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<td>NANCY JESSICA</td>
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<td>Volumetric limits (ML/a)</td>
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<td>Flow Conditions</td>
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<td>Converting Authority</td>
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<td>GRAHAM</td>
<td>MALCOLM</td>
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Logan Basin Resource Operations Plan Amendment
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<td>Name/Company</td>
<td>Given Names</td>
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<td>Flow Conditions</td>
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<td>Other Conditions</td>
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<td>Volumetric limits (ML/a)</td>
<td>Max Rate For Taking Water (l/s)</td>
<td>Flow Conditions</td>
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<td>WYATT</td>
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<td>Tenant in Common 1/2</td>
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The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.
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Logan Basin Resource Operations Plan Amendment
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The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.
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<td>Other Conditions</td>
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<td>Class 6B</td>
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<td>ERROL BERNARD</td>
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Logan Basin Resource Operations Plan Amendment
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<td>Class 6B</td>
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<td>Purpose</td>
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<td>Flow Conditions</td>
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<td>Volumetric limits (ML/a)</td>
<td>Max Rate For Taking Water (l/s)</td>
<td>Tenancy Authority</td>
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<td>Purpose</td>
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<td>Max Rate For Taking Water (l/s)</td>
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<td>Flow Conditions</td>
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<td>Other Conditions</td>
<td>Nominal Volume (ML)</td>
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<td>Converting Authority</td>
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<td>1</td>
<td>Christmas Zone CA</td>
<td>Any</td>
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<td>Volumetric limits (ML/a)</td>
<td>Max Rate For Taking Water (l/s)</td>
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<td>Under Instrument 709295685</td>
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<td>Other Conditions</td>
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<td>GREGORY JOHN</td>
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The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.
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<td>THEODORE</td>
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<td>Nil</td>
<td>22</td>
<td>Not greater than 30</td>
<td>25</td>
<td>Volumetric limits</td>
<td>The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation</td>
<td>Class 6D</td>
<td>47548C</td>
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<td>SELLARS</td>
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<td>Tenant in Common</td>
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<td>Christmas Zone CA</td>
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<td>Nil</td>
<td>22</td>
<td>Not greater than 30</td>
<td>25</td>
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<td>Class 6D</td>
<td>53110C</td>
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<tr>
<td>Water Allocation Number</td>
<td>Name/Company</td>
<td>Given Names</td>
<td>Tenancy Type</td>
<td>Share of Water Allocation</td>
<td>Comments</td>
<td>Tenancy Type</td>
<td>Location</td>
<td>Purpose</td>
<td>Other Conditions</td>
<td>Nominal Volume (ML)</td>
<td>Volumetric limits (ML/a)</td>
<td>Max Rate For Taking Water (l/s)</td>
<td>Flow Conditions</td>
<td>Water Allocation Authority</td>
</tr>
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</tr>
<tr>
<td>398</td>
<td>SELLARS</td>
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<td>53110C</td>
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<td>Not greater than 12</td>
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<td>The take of water may only occur when there is a visible flow immediately downstream of the works used in conjunction with the water allocation.</td>
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<td>ERROL DESMOND</td>
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<tr>
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<td>TAYLA NICOLE</td>
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<td>Christmas Zone CA</td>
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<td>Not greater than 12</td>
<td>13</td>
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<td>0111299C</td>
<td></td>
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</tbody>
</table>
**The details supplied in tables 2 and 3 of this schedule were correct as of January 2014. Any changes to water entitlements that occurred between January 2014 and commencement of this amendment will be recorded in the water allocations register. This schedule will not be updated to reflect any changes that occur after this amendment commences.**