



# **Logan Basin Resource Operations Plan**

December 2009

Amended March 2014

Revision 2



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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<sup>1</sup>.
- (2) Reference in this document to 'this plan' means 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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<sup>1</sup> To 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.

- (b) those sections of tributaries where there is access to flow or pondage from a watercourse or lake within the zone.

## 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<sup>2</sup>.

## 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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<sup>2</sup> 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.

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- (8) 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<sup>3</sup>.
- (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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<sup>3</sup> See section 27 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<sup>4</sup> 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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<sup>4</sup> 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<sup>5</sup> 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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<sup>5</sup> 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 50ML/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 40.7 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<sup>6</sup> 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.

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<sup>6</sup> 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.



50      **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.

51      **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.

52      **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.

53      **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.

54      **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**

55      **Water quality**

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

**56 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.

**57 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**

**58 Reporting requirements**

The resource operations licence holder must provide—

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

**59 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.

**60 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

- (ii) 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;
- (e) 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<sup>7</sup>

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.

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<sup>7</sup> 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.

## Attachment 1

## Glossary

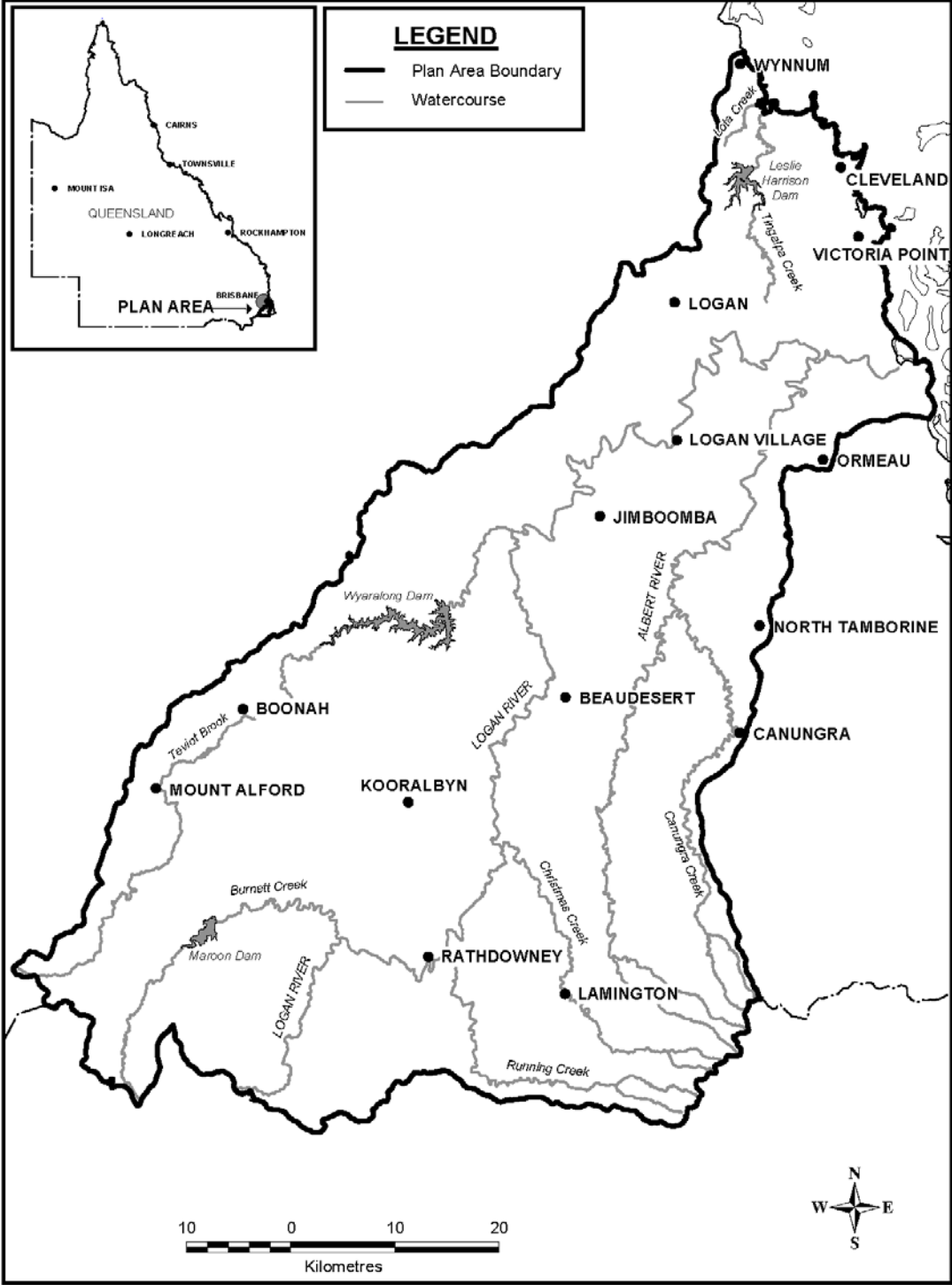
Term	Definition
AHD	The Australian Height Datum, which references a level or height to a standard base level.
Announced allocation	For a water allocation managed under a resource operations licence means a number, expressed as a percentage, which is used to determine the maximum volume of water that may be taken in a water year under the authority of a water allocation.
Announced period	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.
Assignee	The person or entity to whom an interest or right to water is being transferred (e.g. seasonally assigned).
Assignor	The person or entity that transfers an interest or right in water to an assignee (e.g. a seasonal assignment).
Cease to flow level	For a waterhole, the level at which water stops flowing from a waterhole over its downstream control.
Component volumes	The volume of water associated with a particular release. For example, a component volume may be released via a fishway or valve.
Device used for release	The device used to release water from infrastructure. Devices include, but are not limited to, outlet valves, fish locks, or fishways.
EL	Means elevation.
Existing water authorisations	A water licence, interim water allocation or other authority to take water that has effect immediately prior to the commencement of this plan.
Fish stranding	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.
Headwater	The watercourse immediately upstream of a dam, weir, or other hydraulic structure.
Ponded area	Area of inundation at full supply level of a dam or weir.
Infrastructure	A dam, weir or other water storage and any associated works for taking or interfering with water in a watercourse, lake or spring.
Inlet	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.
Location	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.
Megalitre (ML)	One million litres.
Minimum operating level	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.

Term	Definition
Minimum operating volume	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.
Nominal operating level	The nominal operating level is the level in a weir that must be maintained.
Outlet	Means an arrangement on a storage, dam or weir that allows stored water to be released.
Resource operations plan zone	Refer to section 8 of this plan.
Stream flow	Includes flow of water resulting from tributary inflows, and does not include releases of supplemented water.
Tail water	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.
Valid change certificate	A certificate issued under section 129 of the <i>Water Act 2000</i> .
Waterhole	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.
Water losses	Watercourse transmission and operational losses that may occur in operating the Logan River Water Supply Scheme.
Water use	Refers to actual take of water.
Water year	The period from 1 July to 30 June.

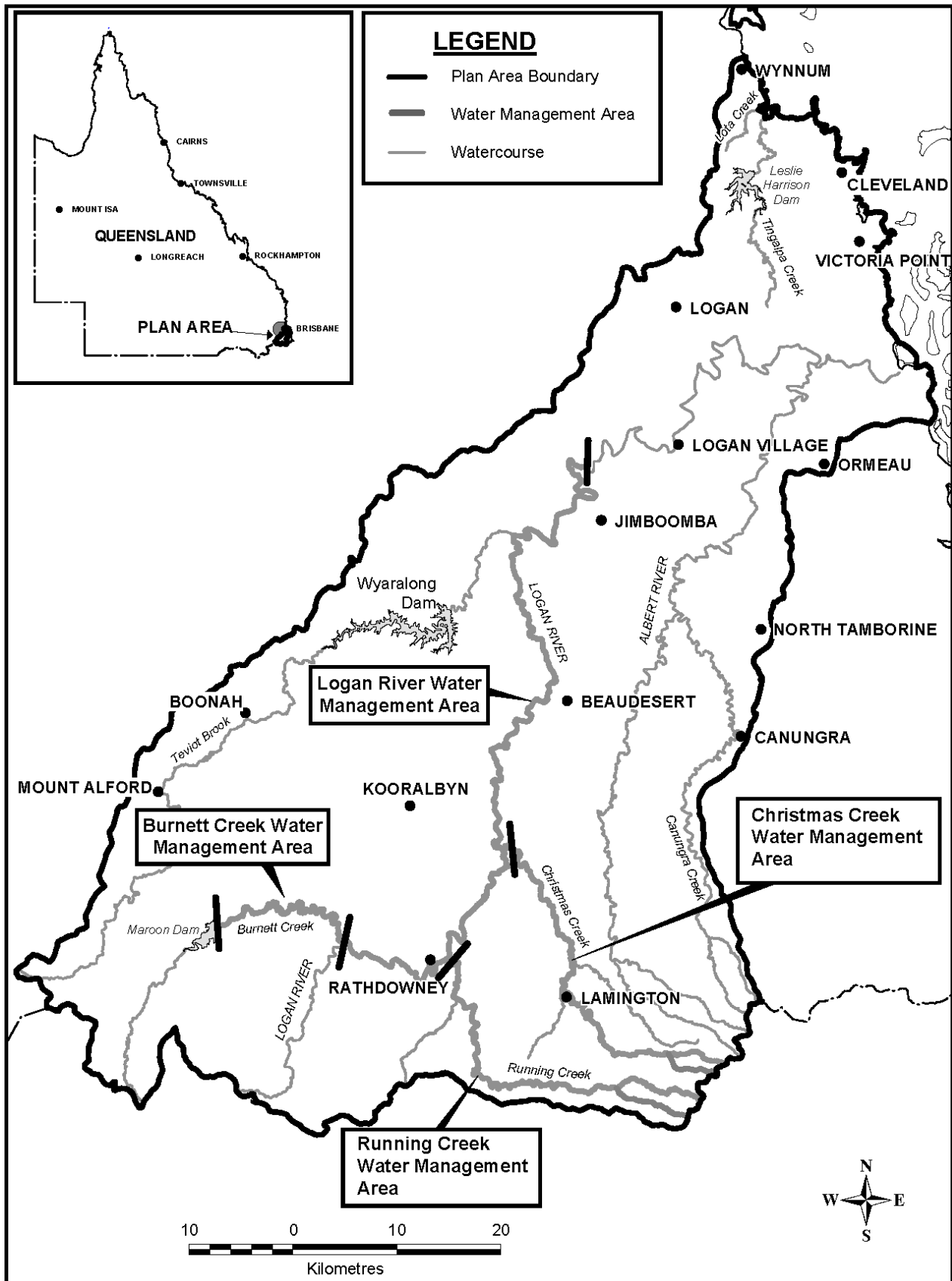


Attachment 2      Maps

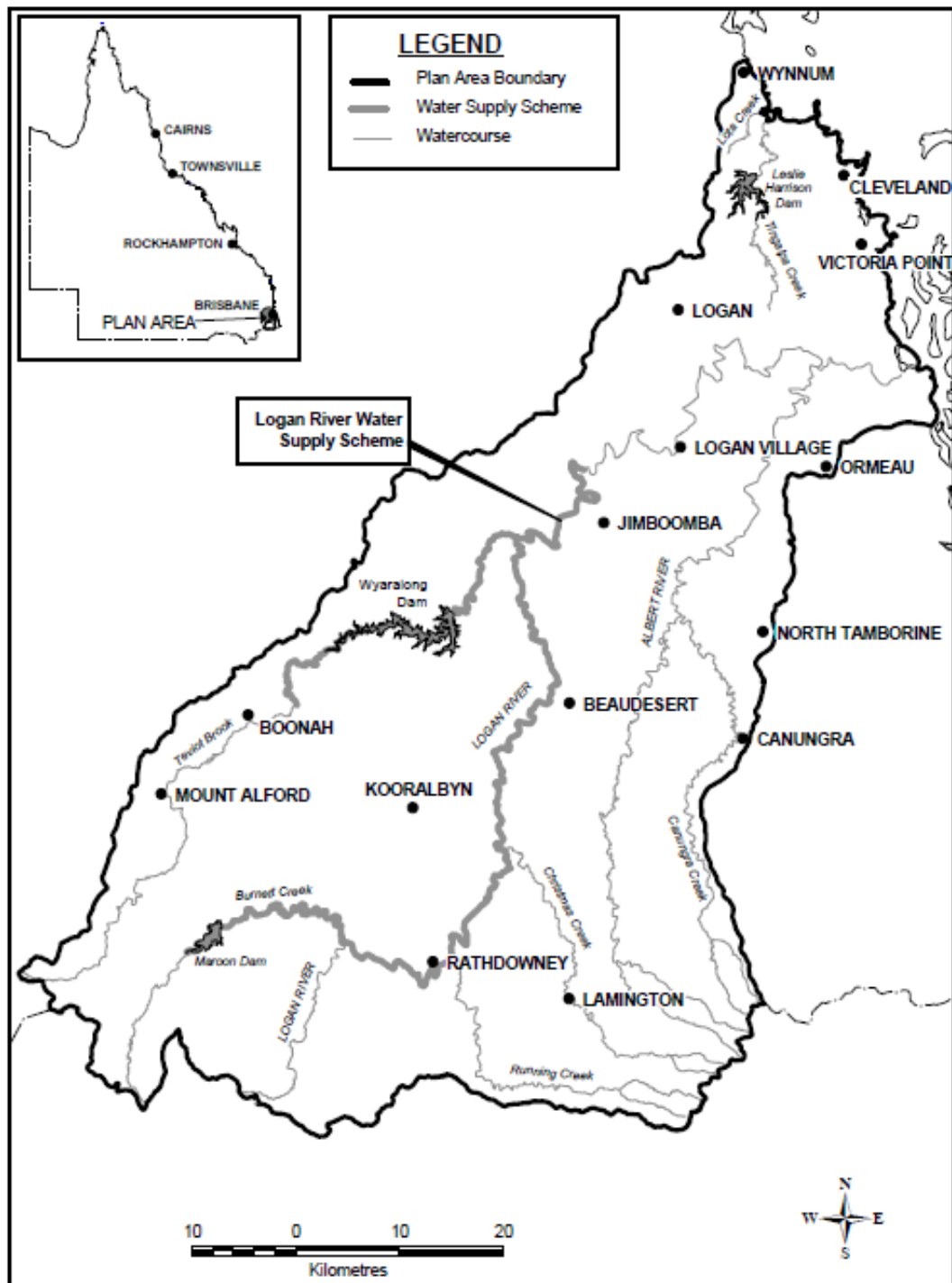
Part 1      Logan Basin plan area



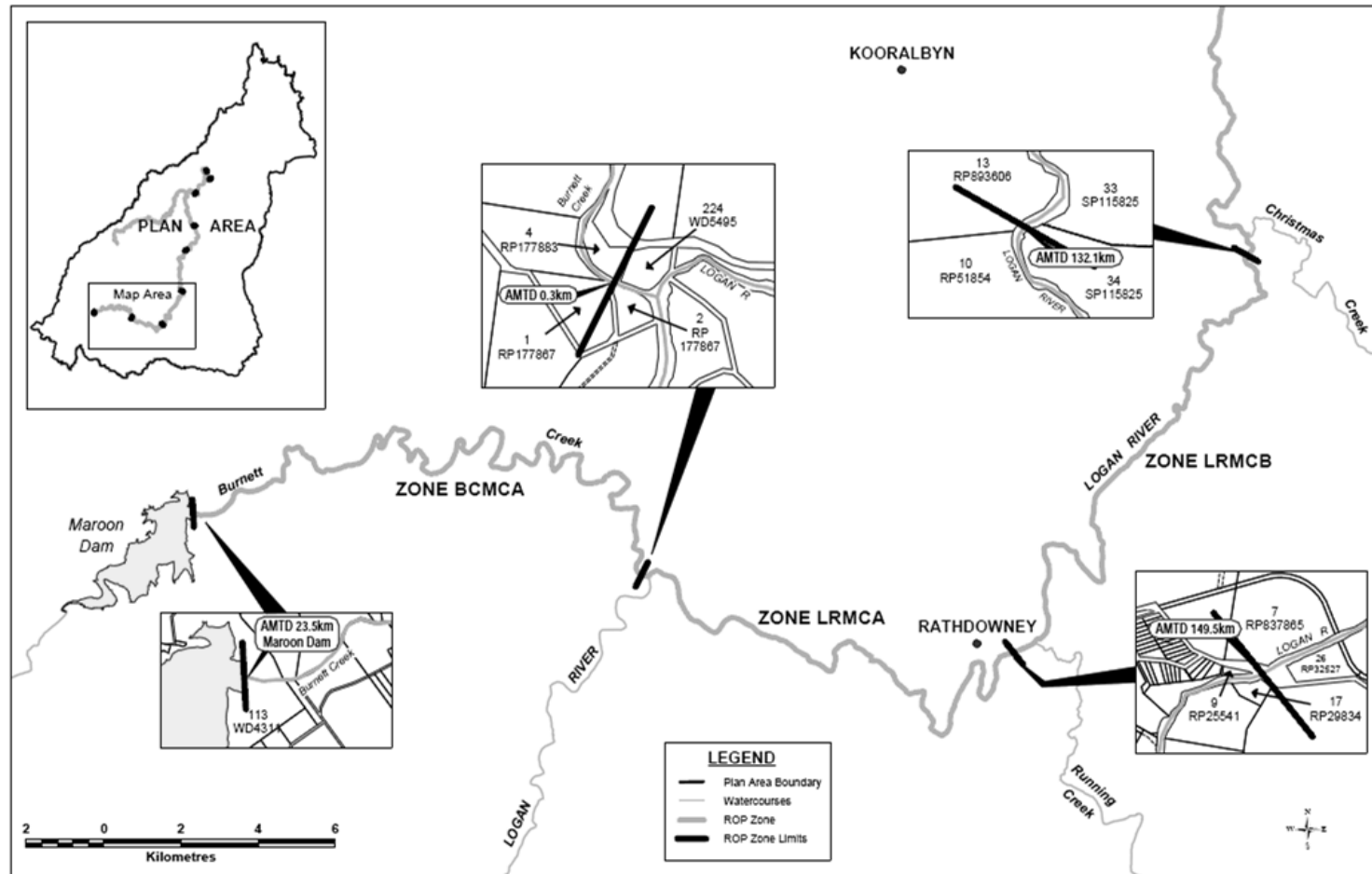
## Part 2 Water management areas (unsupplemented)



## 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 LRMA AND LRCB**

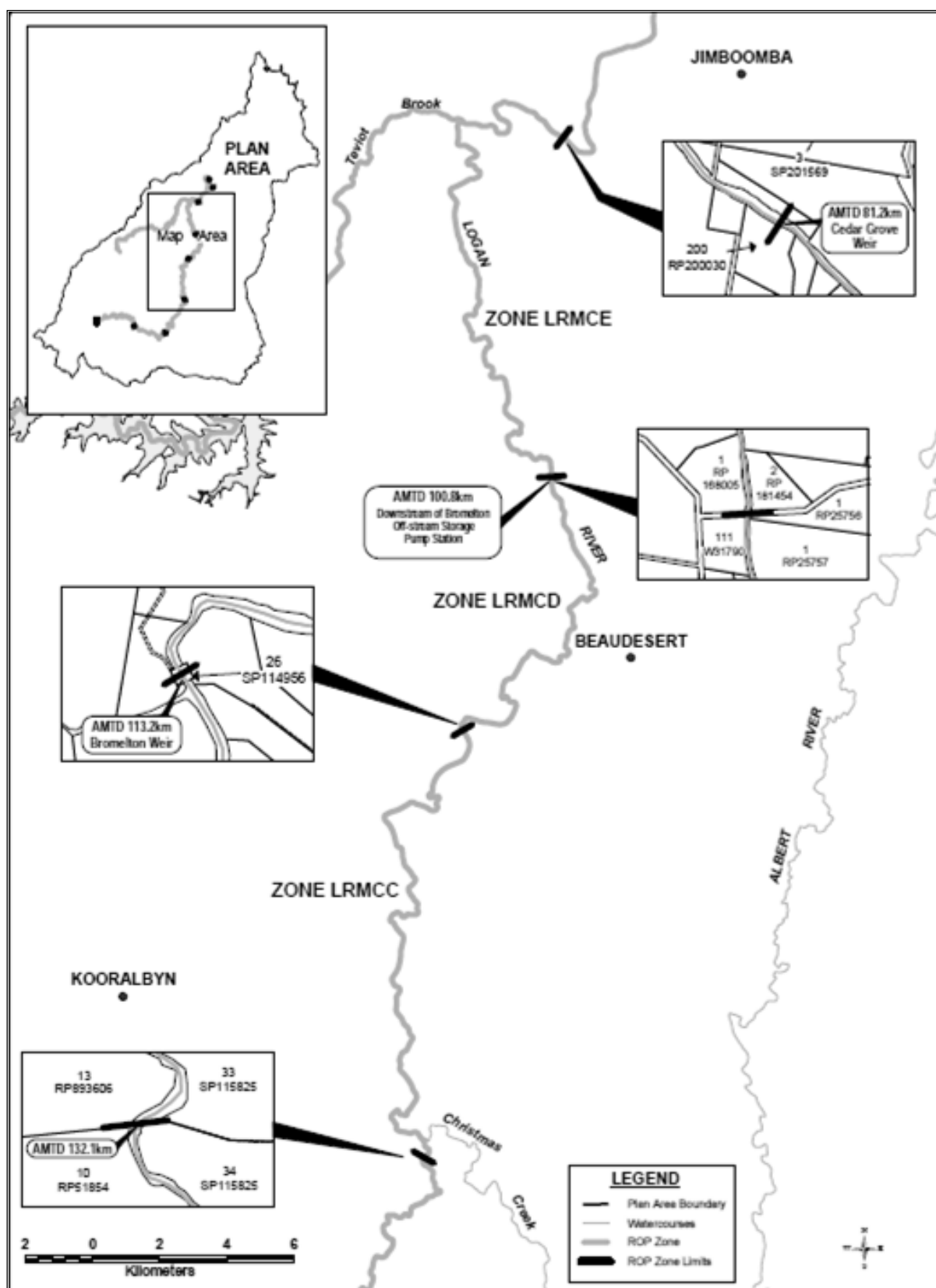
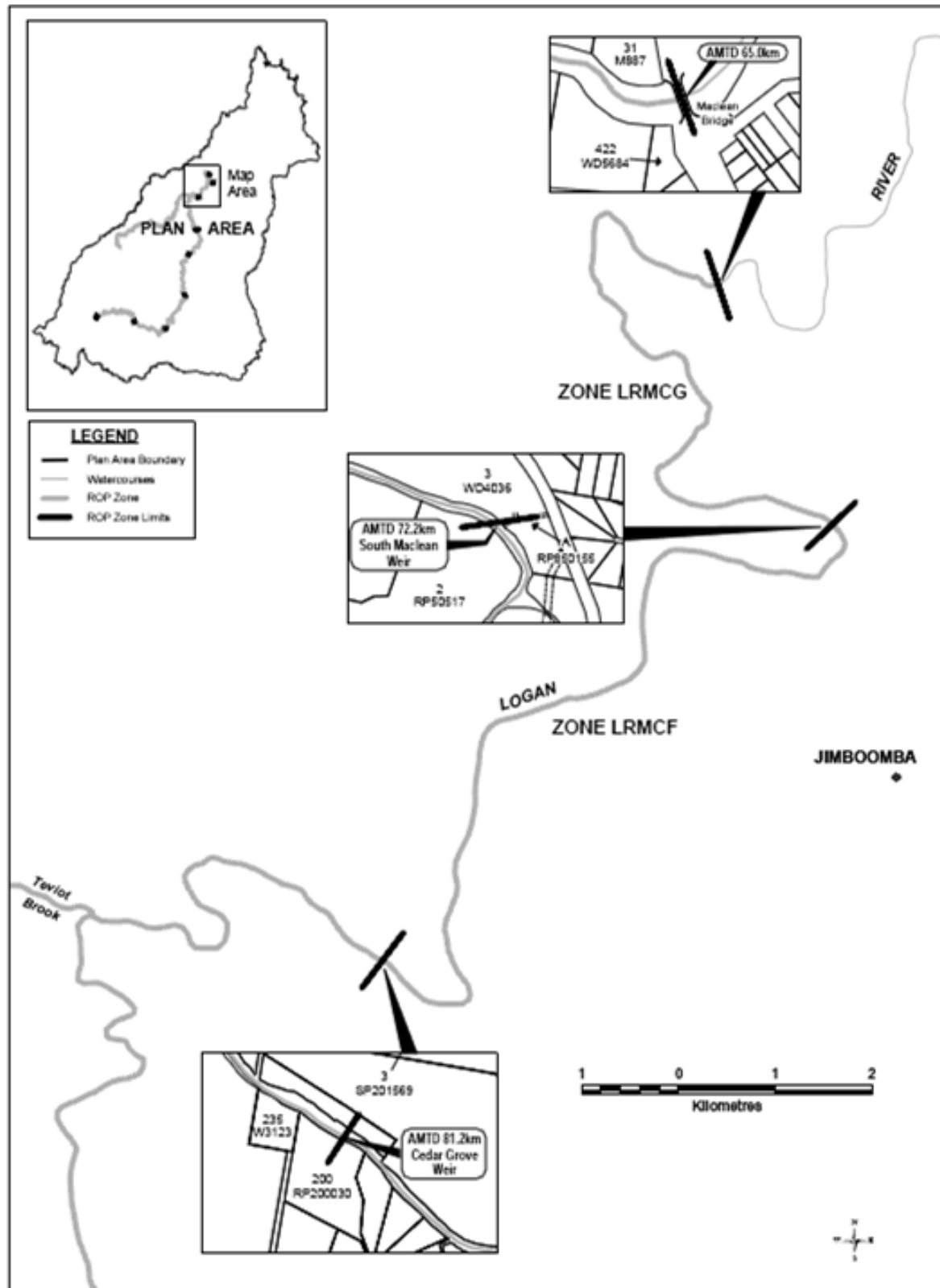
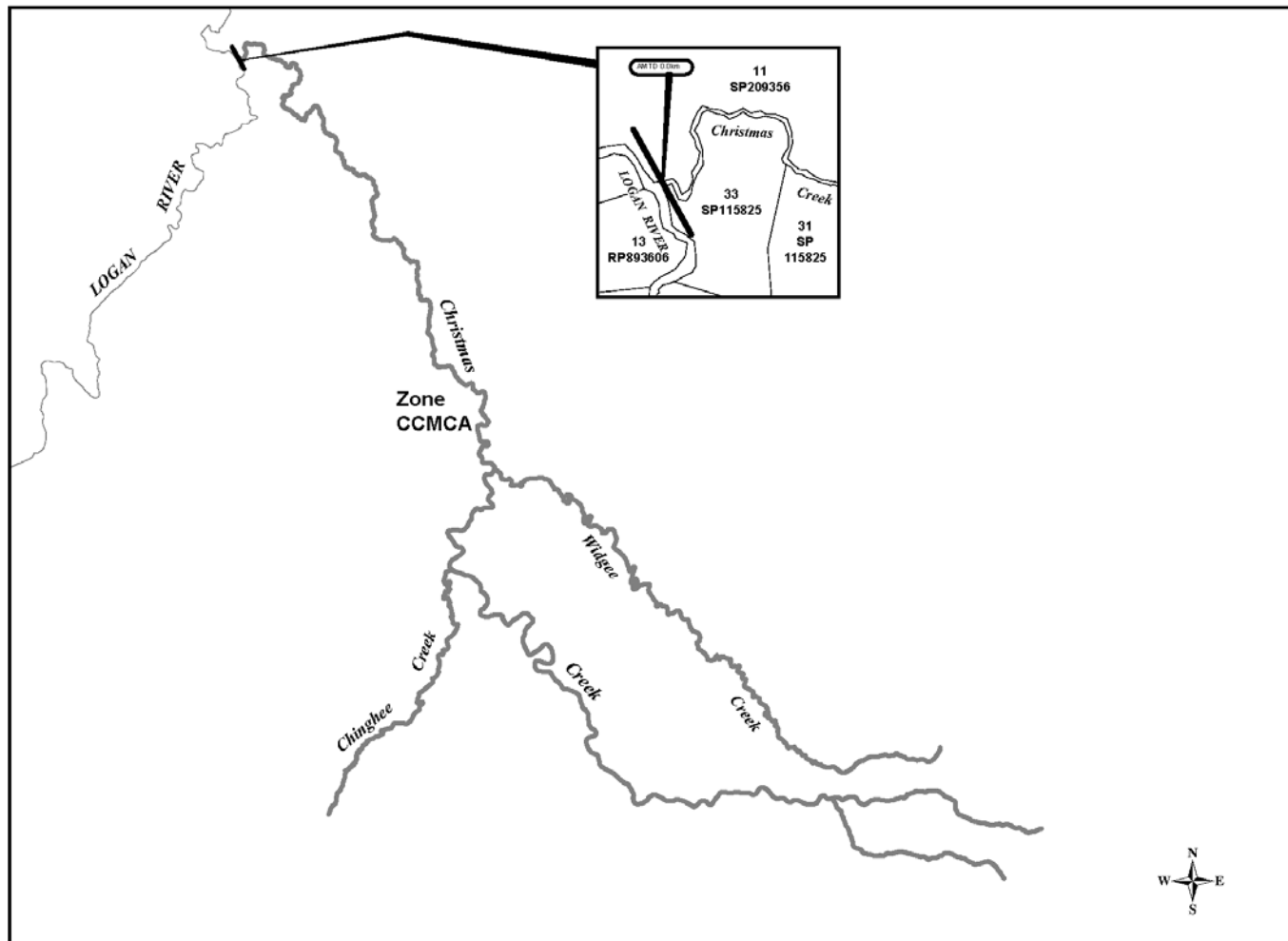


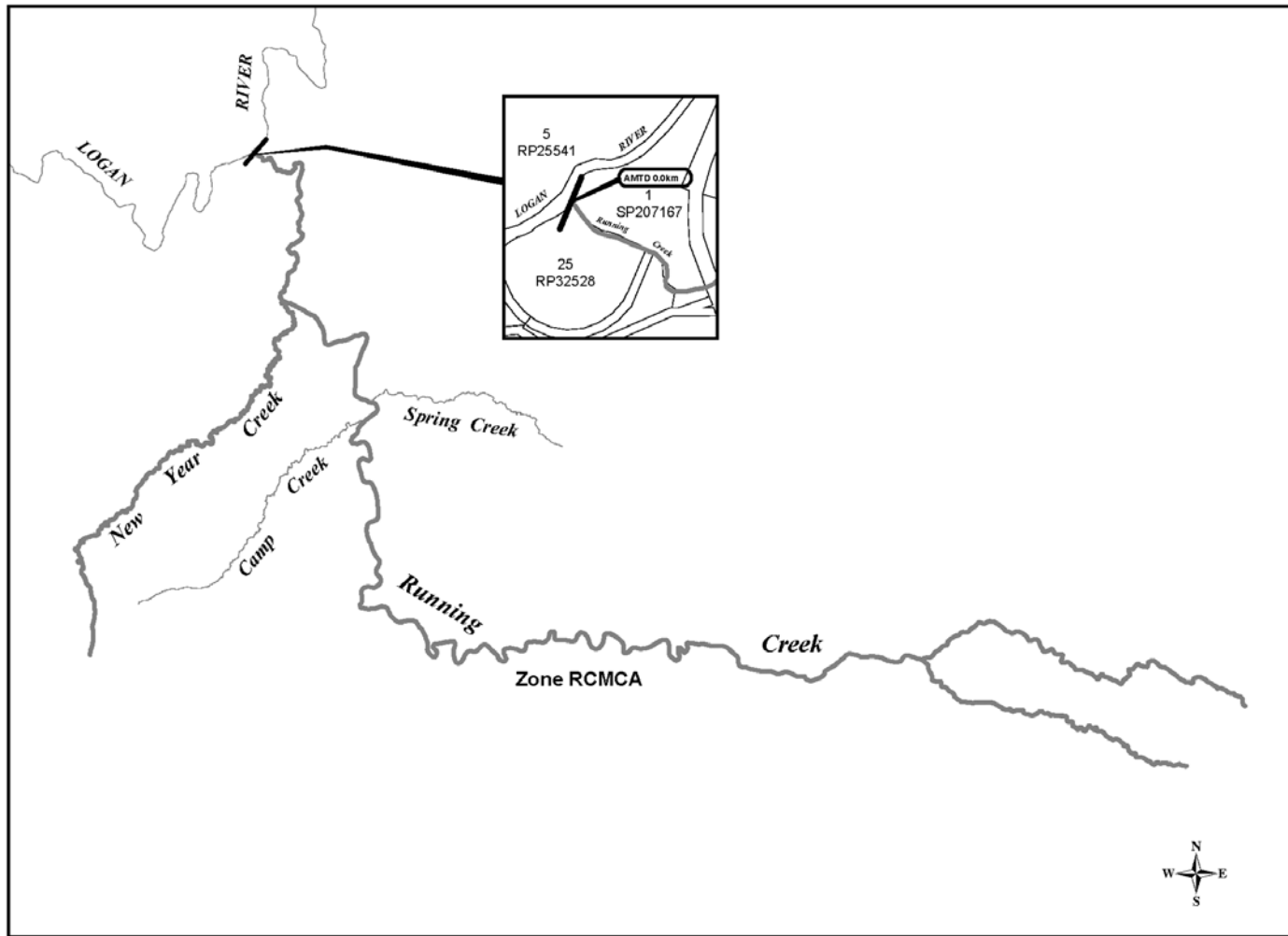
Figure 2 Logan River Water Management Area zones LRMCC, LRMCD and LRMCE



**Figure 3 Logan River Water Management Area zones LRMCF and LRMCG**



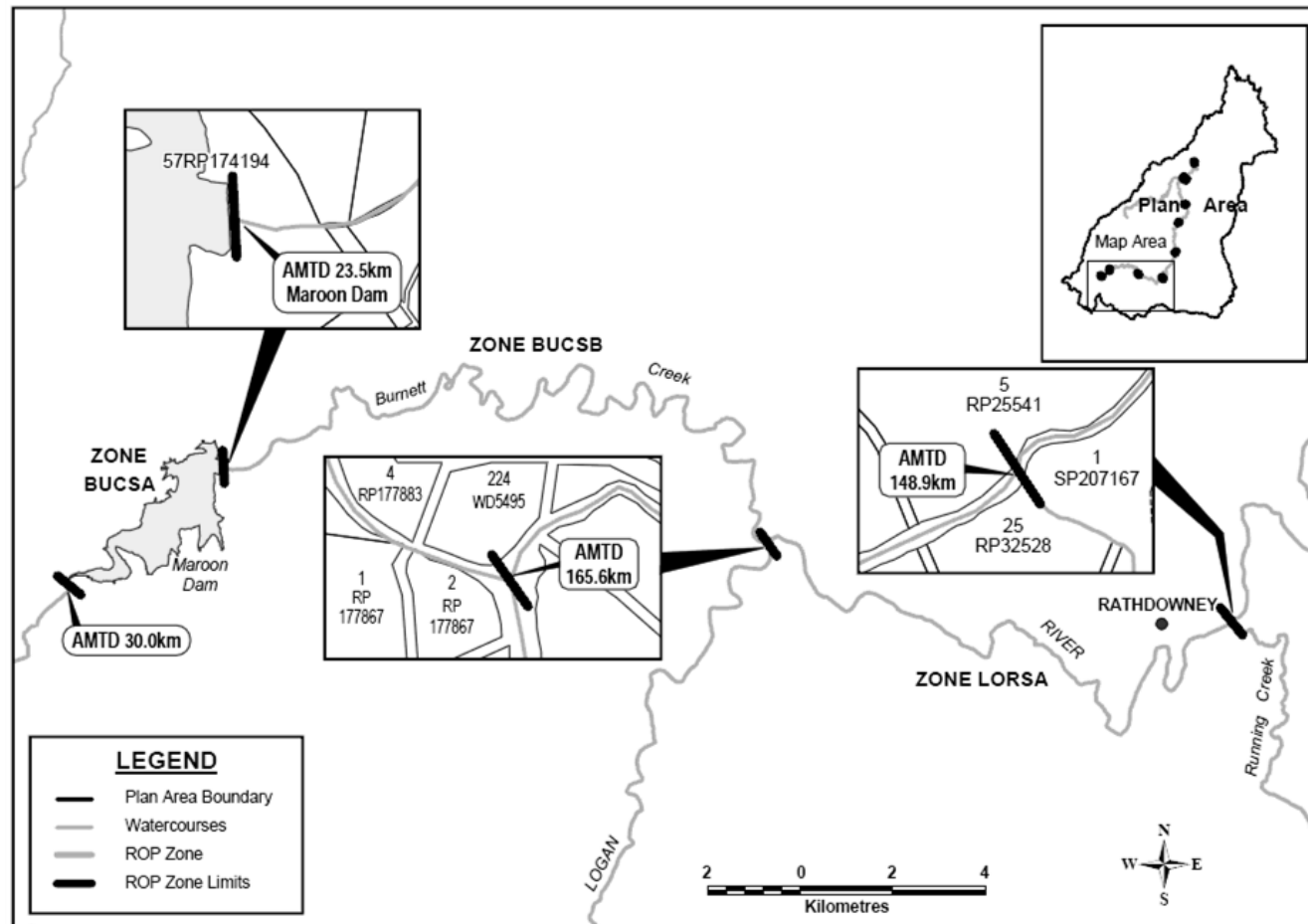
**Figure 4 Christmas Creek Water Management Area zone CCMCA**



**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**

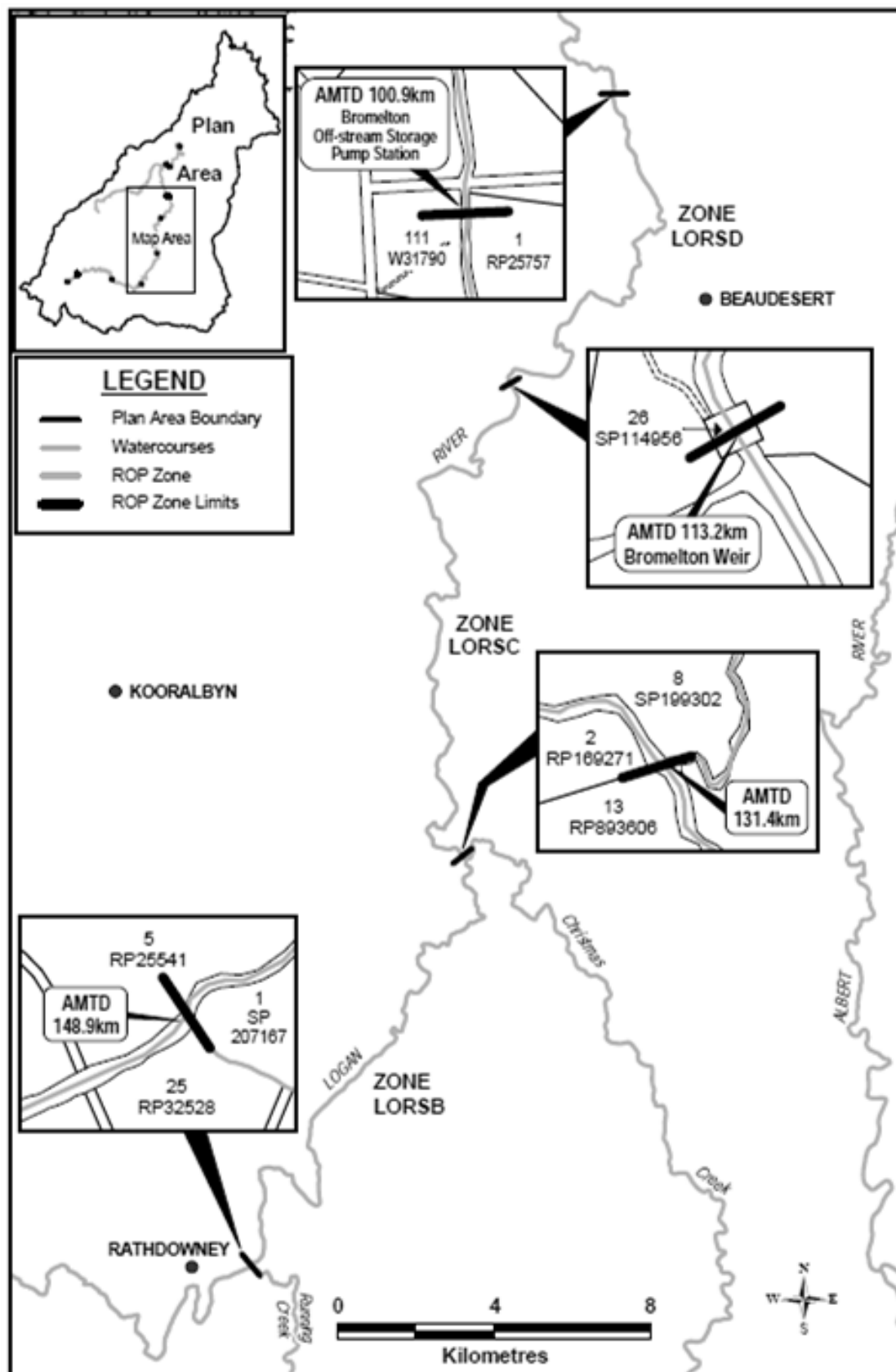


Figure 2 Logan River Water Supply Scheme zones LORSD, LORSC and LORSB

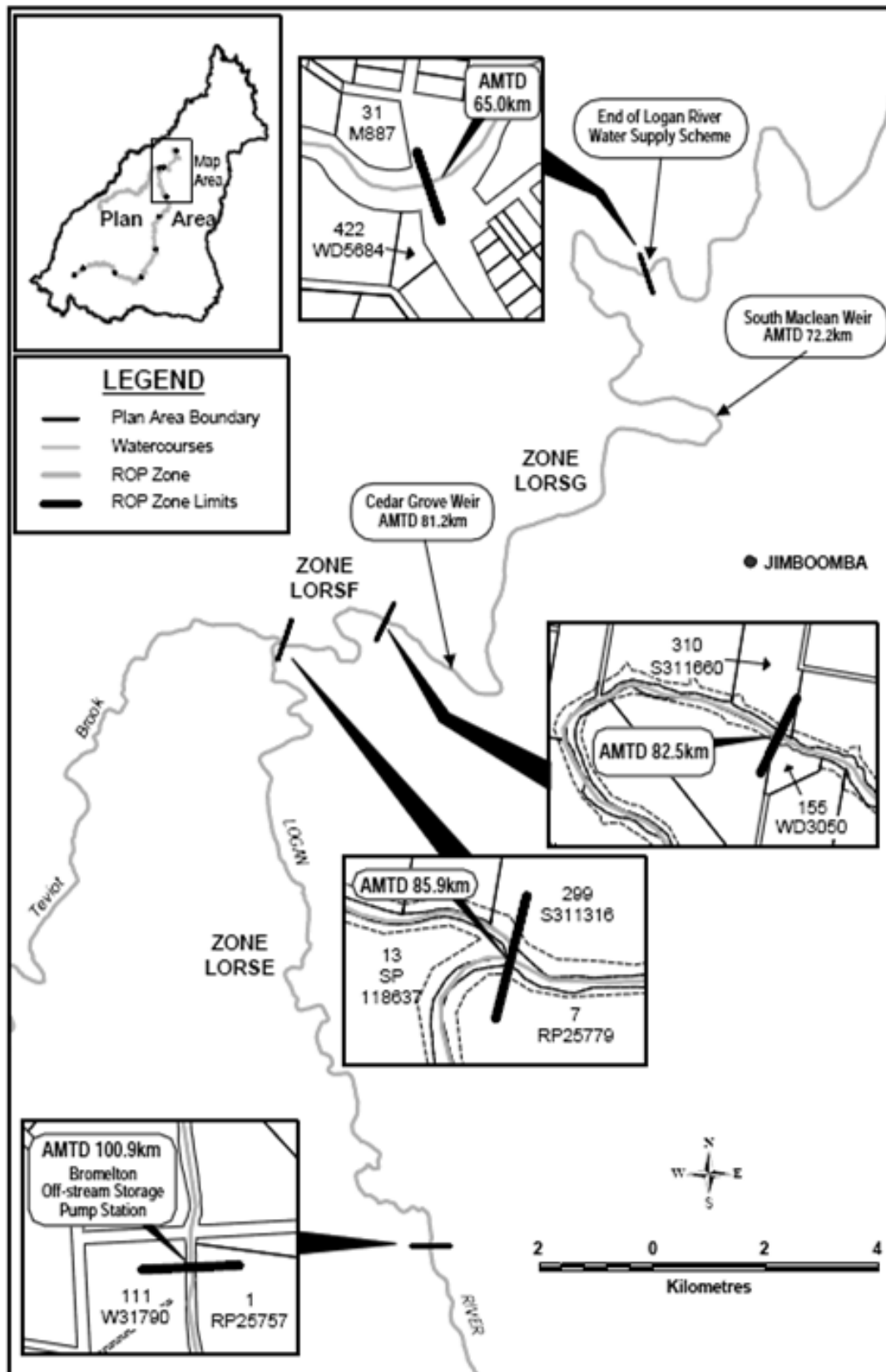
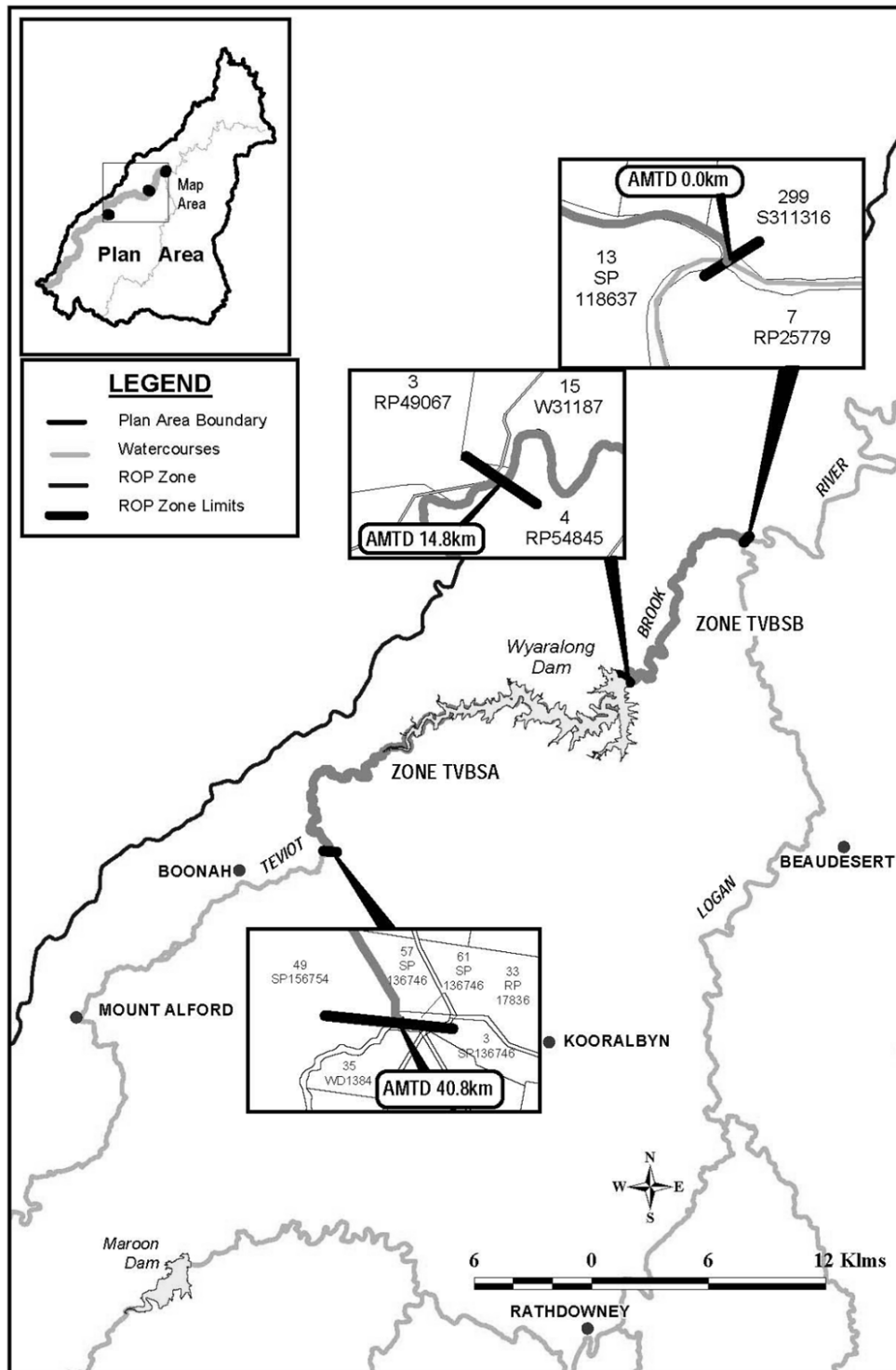


Figure 3 Logan River Water Supply Scheme zones LORSE, LORSF and LORSR



**Figure 4 Logan River Water Supply Schemes zones TVBSA and TVBSB**

## Attachment 3 Links between this plan and outcomes of the Water Resource (Logan Basin) Plan 2007

General water outcomes of the Water Resource (Logan Basin) Plan 2007 (Section 10)	Resource operations plan rules
Each of the following is a general outcome for water in the plan area—	
(a) to provide for future water requirements, including the opportunity for additional water to be taken from the plan area;	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> </ul>
(b) to provide for the continued use of all water entitlements and other authorisations;	<ul style="list-style-type: none"> <li>granting and converting authorisations</li> <li>water sharing rules</li> </ul>
(c) to protect the probability of being able to obtain water under a water allocation;	<ul style="list-style-type: none"> <li>granting and converting authorisations</li> <li>operating and environmental management rules</li> <li>water sharing rules</li> </ul>
(d) to encourage the efficient use of water;	<ul style="list-style-type: none"> <li>operating and environmental management rules</li> <li>water sharing rules</li> <li>water allocation change rules</li> <li>resource operations licence holder monitoring and reporting</li> <li>operating, monitoring and reporting requirements for particular water licences</li> </ul>
(e)...to protect essential water supplies during times of low water availability;	<ul style="list-style-type: none"> <li>operating and environmental management rules</li> <li>water sharing rules</li> </ul>
(f) to support natural ecosystems by minimising changes to natural flow regimes;	<ul style="list-style-type: none"> <li>operating and environmental management rules</li> <li>resource operations licence holder monitoring and reporting requirements</li> <li>monitoring and reporting</li> <li>operating, monitoring and reporting requirements for particular water licences</li> </ul>
(g) to allow water-related cultural use of parts of the plan area by the traditional owners of the parts of the area	<ul style="list-style-type: none"> <li>operating and environmental management rules</li> <li>resource operations licence holder monitoring and reporting requirements</li> <li>monitoring and reporting</li> <li>operating, monitoring and reporting requirements for particular water licences</li> </ul>
(h) to provide consistency with the South East Queensland regional plan.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> <li>operating and environmental management rules</li> <li>water sharing rules</li> </ul>

Particular ecological outcomes of the Water Resource (Logan Basin) Plan 2007 (Section 11)	Resource operations plan rules
Each of the following is an ecological outcome for water in a particular part of the plan area—	
<p>(a) for the Logan and Albert Rivers estuary—</p> <ul style="list-style-type: none"> <li>to minimise changes to the delivery of fresh water, sediment, nutrients and organic matter to the estuary and Southern Moreton Bay; and</li> <li>to minimise changes to the brackish water habitat in the estuary.</li> </ul> <p>(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—</p> <ul style="list-style-type: none"> <li>to minimise changes to the low flow regime of the watercourses; and</li> <li>to minimise changes to the medium and high flow regime important to river forming processes.</li> </ul>	<ul style="list-style-type: none"> <li>operating and environmental management rules</li> <li>resource operations licence holder monitoring and reporting requirements</li> <li>monitoring and reporting</li> <li>operating, monitoring and reporting requirements for particular water licences</li> </ul>

## Attachment 4      Availability of unallocated water

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

Reserve purpose	Location	Nominal volume (ML)	Annual volumetric limit (ML)	Total volume available (ML)
Strategic reserve	Subcatchment 3*	37 000	–	37 000
Town water supply reserve	Canungra Creek	–	150	150

\*Shown on the map in schedule 2 of the Water Resource (Logan Basin) Plan 2007.

## Attachment 5

## Logan River Water Supply Scheme

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

Description of water infrastructure	
Description	Dam, earth and rockfill construction
Full supply level	EL 207.14 m AHD
Total storage capacity level	EL 217.52 m AHD
Minimum operating level	EL 185.81 m AHD
Storage capacity	
Full supply volume	44 319 ML <sup>8</sup> *
Total storage capacity	86 350 ML
Minimum operating volume	2 190 ML
Storage curves	A3-203833, A3-203834
Spillway arrangement	
Description of works	Rectangular, ungated and unlined channel cut through rock. The spillway crest is a 300 mm high reinforced concrete control structure.
Spillway level	217.52 m AHD
Spillway width	137 M at EL 217.57 m AHD 179 m at EL 219.1m AHD
Spillway length	330 m
Discharge characteristics	Capacity 4800 m <sup>3</sup> /s. Drawing no: A3-211564
River inlet/outlet works	
Description of works	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.
Inlet	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.
Cease to flow levels	Inlet level EL 185.81 m AHD

\* Volume above EL 207.14 m AHD is used for flood mitigation.



**Table 2 Bromelton Weir, Logan River—AMTD 113.2 km**

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

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

Description of water infrastructure	
Description	Single ring tank storage with earth embankment
Full supply level	EL 44.5 m AHD
Minimum operating level	EL 36.5 m AHD
Storage capacity	
Full supply volume	8 210 ML
Minimum operating volume	1131 ML
River inlet/outlet works	
Description of works	Two by 100 mm centrifugal pumps and five by 500 mm electro-submersible pumps.
Inlet	Multiple pump sets at AMTD 100.9 km with a combined maximum harvesting capacity of 450 ML/day.
Discharge characteristics	Gravity feed to river with maximum discharge rate of up to 115 ML/day

**Table 4 Cedar Grove Weir, Logan River—AMTD 81.2 km**

Description of water infrastructure	
Description	Sheet pile weir with concrete rockfill and rock mattresses.
Full supply level	EL 20.5 m AHD
Minimum operating level	EL 16.51 m AHD
Storage capacity	
Full supply volume	1 144 ML
Minimum operating volume	100 ML
Storage curves	A3-209911
Spillway arrangement	
Description of works	Weir
Spillway level	Crest EL 20.5 m AHD
Spillway width	47.2 m (full width of weir)
River inlet/outlet works	
Description of works	Outlet works consist of a 1035 mm diameter pipe with 600 mm butterfly valve.
Inlet	Invert level of 1035 mm outlet pipe at intake is EL 16.5 m AHD.
Discharge characteristics	Approximate maximum discharge rate of 200 ML/day.

**Table 5 South Maclean Weir, Logan River—AMTD 72.2 km**

Description of water infrastructure	
Description	Earth/rockfill weir
Full supply level	EL 11.0 m AHD
Minimum operating level	EL 9.11 m AHD
Storage capacity	
Full supply volume	154 ML
Minimum operating volume	10 ML
Storage curves	Nil
Spillway arrangement	
Description of works	Nil
Spillway level	Nil
Spillway width	Nil
Discharge characteristics	Nil
River inlet/outlet works	
Description of works	Outlet works consist of a 400 mm outlet pipe with knife gate style valve.
Discharge characteristics	Approximate maximum discharge capacity of 46.57 ML/day.

**Table 6 Wyaralong Dam, Teviot Brook—AMTD 14.8 km**

Description of water infrastructure	
Description	Mass roller compacted gravity dam with central ogee spillway at AMTD 14.8 km
Full Supply level	EL 63.6 m AHD
Minimum operating level	EL 40.0 m AHD
Storage capacity	
Full supply volume	102 883 ML
Minimum operating volume	264 ML
Storage curves	A3-227740
Spillway arrangement	
Description of works	Primary and secondary ogee spillway on dam crest
Spillway level	Main spillway : central overflow at EL 63.6 m AHD Secondary spillway: left abutment at EL 66.3 m AHD
Spillway width	Main spillway: 135 m Secondary spillway: 150 m
Discharge characteristics	Capacity 6 900 m <sup>3</sup> /s
River inlet/outlet works	
Description of works	1600 mm diameter pipe with one 1200mm dewatering outlet valve and one 600 mm fishway release outlet valve.
Inlet	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.
Discharge characteristics	Maximum discharge capacity of 1044.6 ML/day

**Table 7 Infrastructure operating levels—Logan River Water Supply Scheme**

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

**Table 8 Announced Allocation Parameters—Logan River Water Supply Scheme**

Term	Details
$AA_{HP}$ High priority announced allocation	The percentage of the nominal volumes for high priority water allocations that may be taken for the current water year.
$AA_{MP}$ Medium priority announced allocation	The percentage of the nominal volume for medium priority water allocations that may be taken for the current water year.
HPA High priority water allocations (ML)	The total nominal volume of high priority water allocations in the Logan River Water Supply Scheme.
MPA Medium priority water allocations (ML)	The total nominal volume of medium priority water allocations in the Logan River Water Supply Scheme.
UV Useable volume (ML)	<p>The useable volume is determined by summing the useable volume of each of the water storage infrastructure included in the resource assessment.</p> <p><math>UV = \text{sum (UV storage)}</math></p> <p><math>UV \text{ storage} = (CV - MOV - SL)</math></p> <p><math>UV \text{ storage} = 0</math> if <math>(CV - MOV - SL)</math> is less than 0</p> <p>Where—</p> <p>UV is the useable volume of each storage.</p> <p>CV is the current volume of the storage.</p> <p>MOV is the minimum operating volume of the storage.</p> <p>SL is the projected storage loss.</p> <p>Storages included in the resource assessment are: Maroon Dam, Wyaralong Dam, Bromelton Off-stream Storage and Cedar Grove Weir.</p>
SL Storage loss (ML)	<p>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.</p> <p>The storage loss volume is calculated by using the value next to the current month multiplied by the current surface area of the storage.</p> <p>The storage loss values used for resource assessment purposes are shown in table 9.</p>
IN Assumed minimum inflow (ML)	<p>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.</p> <p>The assumed minimum inflow used for resource assessment purposes is shown in table 10.</p>
$DIV_{HP}$ High priority diversion (ML)	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.

Term	Details
$DIV_{MP}$ Medium priority diversion (ML)	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.
RE Reserve (ML)	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.
TOA Transmission and operational allowance (ML)	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.

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

Month in which announced allocation was calculated	Maroon Dam	Bromelton Off-stream Storage	Cedar Grove Weir	Wyaralong Dam
July	475.8	475.8	475.8	475.8
August	435.5	435.5	435.5	435.5
September	395.2	395.2	395.2	395.2
October	356.2	356.2	356.2	356.2
November	315.9	315.9	315.9	315.9
December	276.9	276.9	276.9	276.9
January	236.6	236.6	236.6	236.6
February	196.3	196.3	196.3	196.3
March	158.6	158.6	158.6	158.6
April	118.3	118.3	118.3	118.3
May	79.3	79.3	79.3	79.3
June	39.0	39.0	39.0	39.0

**Table 10 Assumed minimum inflow—Logan River Water Supply Scheme**

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

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

Month in which announced allocation is calculated	Reserve (ML)
July	5000
August	5000
September	5000
October	5000
November	5000
December	5000
January	5000
February	6000
March	7000
April	8000
May	9000
June	10 000

**Table 12 Transmission and operational allowance—Logan River Water Supply Scheme**

Table 12 must be used to determine TOA when HPA is 9856 ML

Month in which announced allocation is calculated	Transmission and operational loss allowance (ML)					
	$AA_{MP} =$ 0%	$AA_{MP} =$ 20%	$AA_{MP} =$ 40%	$AA_{MP} =$ 60%	$AA_{MP} =$ 80%	$AA_{MP} =$ 100%
July	1739	2218	2696	3175	3653	4132
August	1600	2030	2460	2889	3319	3749
September	1447	1830	2213	2595	2978	3361
October	1289	1634	1979	2324	2669	3014
November	1120	1426	1731	2036	2341	2646
December	983	1251	1518	1786	2054	2322
January	840	1070	1300	1531	1761	1991
February	689	881	1 073	1266	1458	1650
March	556	714	871	1029	1186	1344
April	409	527	645	763	881	1000
May	256	336	416	496	576	656
June	127	167	206	246	285	325

**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

Month in which announced allocation is calculated	Transmission and operational loss allowance (ML)					
	$AA_{MP} =$ 0%	$AA_{MP} =$ 20%	$AA_{MP} =$ 40%	$AA_{MP} =$ 60%	$AA_{MP} =$ 80%	$AA_{MP} =$ 100%
July	3504	3982	4461	4939	5418	5896
August	3224	3654	4083	4513	4943	5372
September	2915	3298	3681	4064	4446	4829
October	2596	2941	3286	3631	3976	4321
November	2257	2562	2867	3173	3478	3783
December	1980	2248	2516	2783	3051	3319
January	1692	1922	2152	2383	2613	2843
February	1388	1580	1772	1965	2157	2349
March	1121	1278	1436	1593	1751	1908
April	823	941	1059	1178	1296	1414



May	515	595	675	755	835	915
June	256	296	335	375	414	454

**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

Month in which announced allocation is calculated	Transmission and operational loss allowance (ML)					
	$AA_{MP} =$ 0%	$AA_{MP} =$ 20%	$AA_{MP} =$ 40%	$AA_{MP} =$ 60%	$AA_{MP} =$ 80%	$AA_{MP} =$ 100%
July	8269	8747	9226	9704	10 182	10 661
August	7608	8038	8467	8897	9327	9756
September	6879	7262	7644	8027	8410	8793
October	6126	6471	6816	7161	7506	7851
November	5326	5631	5937	6242	6547	6852
December	4672	4940	5208	5476	5744	6012
January	3993	4223	4453	4683	4914	5144
February	3275	3468	3660	3852	4044	4236
March	2645	2803	2960	3118	3275	3432
April	1942	2060	2179	2297	2415	2533
May	1215	1295	1375	1455	1535	1615
June	604	644	683	723	763	802

**Table 15 Permitted distributions in the Logan River Water Supply Scheme**

Zone	High priority group water allocations		Medium priority group water allocations	
	Minimum total nominal volume (ML)	Maximum total nominal volume (ML)	Minimum total nominal volume (ML)	Maximum total nominal volume (ML)
BUCSA	0	340	10	390
BUCSB	0	35	500	2000
LORSA	0	120	90	650
LORSB	0	35	1030	4800
LORSC	0	610	625	3500
LORS D	0	5150	450	3000
LORSE	0	1400	1000	4700
LORSF	0	35	65	350
LORSG	38 631	46 856	300	10 000
TVBSA	0	500	0	500
TVBSB	0	0	0	500

**Table 16 Maximum allowable water use volumes for the Logan River Water Supply Scheme**

Zone	Maximum allowable use (ML)
BUCSA	730
BUCSB	2 035
LORSA	770
LORSB	4835
LORSC	4110
LORSB	8150
LORSE	6100
LORSF	385
LORSG	56 856
TVBSA	1000
TVBSB	500

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

Location	Continuous time series infrastructure water level data	Continuous time series stream flow data
Maroon Dam inflow		✓
Maroon Dam headwater	✓	
Maroon Dam tailwater		✓
Bromelton Weir headwater	✓	
Bromelton Weir tailwater		✓
Bromelton Off-stream Storage	✓	
Cedar Grove Weir headwater	✓	
Cedar Grove Weir tailwater		✓
South Maclean Weir headwater	✓	
South Maclean Weir tailwater		✓
Wyaralong Dam inflow		✓
Wyaralong Dam headwater	✓	
Wyaralong Dam tailwater		✓

## 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**

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

Table 2 Unsupplemented water allocations Running Creek Water Management Area\*\*

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
260	DRYNAN	WARREN ANDREW	Tenant in Common	1/2		Running Zone CA	Any	Nil	3.2	Not greater than 3.2	8	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.	Class 5B	101766
	DRYNAN	NANCY JESSICA	Tenant in Common	1/2										
261	DRYNAN	WARREN ANDREW	Sole Proprietor	1		Running Zone CA	Any	Nil	153	Not greater than 180	22	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.	Class 5B	101767

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
262	GRANGE RURAL ENTERPRISES PTY LTD		Trustee	1	UNDER INSTRUMENT 711416447	Running Zone CA	Any	Nil	26	Not greater than 30	25	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	Class 5B	176191
263	F. N. KLAN CONSOLIDATED PTY LTD		Trustee	1	UNDER INSTRUMENT 714541079	Running Zone CA	Any	Nil	51	Not greater than 60	20	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	Class 5B	185272

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
264	DRYNAN	WARREN ANDREW	Tenant in Common	1/2		Running Zone CA	Any	Nil	255	Not greater than 300	96	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.	Class 5B	09097C
	DRYNAN	NANCY JESSICA	Tenant in Common	1/2										
265	GRANGE RURAL ENTERPRISES PTY LTD		Trustee	1	UNDER INSTRUMENT 711416447	Running Zone CA	Any	Nil	61	Not greater than 72	46	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	Class 5B	10092C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
266	MILLS	GRAHAM MALCOLM	Tenant in Common	1/2		Running Zone CA	Any	Nil	31	Not greater than 36	13	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.	Class 5B	15594C
	MILLS	RHONDA ROSLYN	Tenant in Common	1/2										
267	DRYNAN	KENNETH ANDREW	Sole Proprietor	1		Running Zone CA	Any	Nil	31	Not greater than 36	25	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	Class 5B	15608C



Converting Authority	Water Allocation Group	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
25756C	Class 5B	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	75	Not greater than 120	102	Nil	Any	Running Zone CA		1	Sole Proprietor	LEON	BLANK	268
29821C	Class 5B	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	50	Not greater than 72	61	Nil	Any	Running Zone CA		1	Sole Proprietor	WARREN ANDREW	DRYNAN	269

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
271	GREEN	DENIS SIDNEY	Tenant in Common	1/2		Running Zone CA	Any	Nil	10	Not greater than 12	13	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.	Class 5B	40710C
	GREEN	RONDA JOY	Tenant in Common	1/2										
272	MORAN	BARRY JOHN	Sole Proprietor	1		Running Zone CA	Any	Nil	92	Not greater than 108	25	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	Class 5B	51297C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
273	WYATT	CRAIG ANTHONY	Tenant in Common	1/3		Running Zone CA	Any	Nil	61	Not greater than 72	46	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	Class 5B	52953C
	WYATT	MAXWELL ALWYN	Tenant in Common	1/3										
	WYATT	SUELLEN MARGARET	Tenant in Common	1/3										
274	O'MEARA	GEOFFREY CLIVE	Tenant in Common	1/2		Running Zone CA	Any	Nil	26	Not greater than 30	13	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.	Class 5B	54573C
	O'MEARA	LYNDA KAY	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
275	WYATT	CRAIG ANTHONY	Tenant in Common	1/2		Running Zone CA	Any	Nil	51	Not greater than 60	25	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.	Class 5B	56295C
	WYATT	MAXWELL ALWYN	Tenant in Common	1/2										
276	WYATT	CRAIG ANTHONY	Tenant in Common	1/2		Running Zone CA	Any	Nil	26	Not greater than 30	22	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.	Class 5B	56492C
	WYATT	MAXWELL ALWYN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
277	LAWSON	BRIAN JOHN	Tenant in Common	1/2		Running Zone CA	Any	Nil	153	Not greater than 180	22	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.	Class 5B	56553C
	LAWSON	RUTH ANNE	Tenant in Common	1/2										
278	BLANK	LEON	Sole Proprietor	1		Running Zone CA	Any	Nil	102	Not greater than 120	75	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	Class 5B	25757C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
280	BAIN	CLYDE LESLIE	Trustee	1	UNDER INSTRUMENT 712277680	Running Zone CA	Any	Nil	204	Not greater than 240	25	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	Class 5B	01914C
282	ALEXANDERSON	BARRY GEORGE	Tenant in Common	1/3		Running Zone CA	Any	Nil	31	Not greater than 36	25	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	Class 5B	15596C
	LAWSON	CHRISTOPHER KENNETH	Tenant in Common	1/3										
	LAWSON	KAREN MAREE	Tenant in Common	1/3										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
283	ALEXANDERSON	BARRY GEORGE	Tenant in Common	1/3		Running Zone CA	Any	Nil	515	Not greater than 606	46	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	Class 5B	30613C
	LAWSON	CHRISTOPHER KENNETH	Tenant in Common	1/3										
	LAWSON	KAREN MAREE	Tenant in Common	1/3										
284	COOLWATER FARM PTY LTD		Trustee	1	UNDER INSTRUMENT 708932493	Running Zone CA	Any	Nil	33	Not greater than 39	13	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	Class 5B	52968C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
285	MESETTA PTY LTD		Trustee	1	UNDER INSTRUMENT 711121670	Running Zone CA	Any	Nil	31	Not greater than 36	46	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	Class 5B	09098C
286	ALEXANDERSON	BARRY GEORGE	Tenant in Common	1/3		Running Zone CA	Any	Nil	61	Not greater than 72	25	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	Class 5B	34391C
	LAWSON	CHRISTOPHER KENNETH	Tenant in Common	1/3										
	LAWSON	KAREN MAREE	Tenant in Common	1/3										



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
287	ASCO INTERNATIONAL PTY LTD		Tenant in Common	1/3		Running Zone CA	Any	Nil	102	Not greater than 120	46	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	Class 5B	408587
	HUTCHINS	FU MEI	Tenant in Common	1/3										
	NARISH HOLDINGS PTY LTD		Tenant in Common	1/3										
288	SHAW	KARYN RUTH	Sole Proprietor	1		Running Zone CA	Any	Nil	56	Not greater than 66	50	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	Class 5B	09741C

Converting Authority	Water Allocation Group	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
09765C	Class 5B	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	50	Not greater than 240	204	Nil	Any	Running Zone CA		1	Sole Proprietor	FRANCES MARY	AINSWORTH	289
11775C	Class 5B	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	50	Not greater than 330	280	Nil	Any	Running Zone CA	UNDER INSTRUMENT 710346132	1	Trustee	CLYDE LESLIE	BAIN	290

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
291	SMITH	GAVIN ELLIOTT	Sole Proprietor	1		Running Zone CA	Any	Nil	92	Not greater than 108	50	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	Class 5B	11815C
292	WHILEY	ALISON COLLINS	Tenant in Common	1/3		Running Zone CA	Any	Nil	102	Not greater than 120	25	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	Class 5B	12267C
	HANNA	MARTIN CONRAD	Tenant in Common	1/3										
	HANNA	ELIZABETH GEORGINA	Tenant in Common	1/3										

Water Allocation Group	Converting Authority	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
Class 5B	42081C	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	50	Not greater than 390	331	Nil	Any	Running Zone CA		1	Sole Proprietor	CORINE MARGRETTA	ARKINSTALL	293
Class 5B	56516C	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	46	Not greater than 300	255	Nil	Any	Running Zone CA		1	Sole Proprietor	JAMES FRANCIS	SALISBURY	294

Water Allocation Group	Converting Authority	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
Class 5B	56516C	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	46	Not greater than 300	255	Nil	Any	Running Zone CA		1	Sole Proprietor	JAMES FRANCIS	SALISBURY	296
Class 5D	25756C	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	75	Not greater than 90	46	Nil	Any	Running Zone CA		1	Sole Proprietor	LEON	BLANK	366

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
367	WYATT	CRAIG ANTHONY	Tenant in Common	1/2		Running Zone CA	Any	Nil	1	Not greater than 3	25	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.	Class 5D	56295C
	WYATT	MAXWELL ALWYN	Tenant in Common	1/2										
368	WYATT	CRAIG ANTHONY	Tenant in Common	1/2		Running Zone CA	Any	Nil	1	Not greater than 3	22	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.	Class 5D	56492C
	WYATT	MAXWELL ALWYN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
369	BLANK	LEON	Sole Proprietor	1		Running Zone CA	Any	Nil	46	Not greater than 90	75	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	Class 5D	25757C
370	ALEXANDERSON	BARRY GEORGE	Tenant in Common	1/3		Running Zone CA	Any	Nil	1	Not greater than 3	46	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	Class 5D	30613C
	LAWSON	CHRISTOPHER KENNETH	Tenant in Common	1/3										
	LAWSON	KAREN MAREE	Tenant in Common	1/3										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
371	ALEXANDERSON	BARRY GEORGE	Tenant in Common	1/3		Running Zone CA	Any	Nil	1	Not greater than 3	25	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	Class 5D	34391C
	LAWSON	CHRISTOPHER KENNETH	Tenant in Common	1/3										
	LAWSON	KAREN MAREE	Tenant in Common	1/3										
372	ARKINSTALL	CORINE MARGRETTA	Sole Proprietor	1		Running Zone CA	Any	Nil	31	Not greater than 60	50	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	Class 5D	42081C



Converting Authority	Water Allocation Group	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
46581C	Class 5D	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	22	Not greater than 3	1	Nil	Any	Running Zone CA		1	Sole Proprietor	ANTHONY JOHN	SALISBURY	373
011131 9C	Class 5B	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	22	Not greater than 60	51	Nil	Any	Running Zone CA		1	Trustee		CLYDE LESLIE BAIN	393

Converting Authority	Water Allocation Group	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
03408C	Class 5B	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	50	Not greater than 180	153	Nil	Any	Running Zone CA		1	Trustee		CLYDE LESLIE BAIN	394
608840	Class 5B	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	50	Not greater than 246	209	Nil	Any	Running Zone CA		1	Sole Proprietor		AMBERLIGHT PTY LTD	395

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
396	DRYNAN	WARREN ANDREW	Sole Proprietor	1		Running Zone CA	Any	Nil	87	Not greater than 102	50	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	Class 5B	608839
399	ASCO INTERNATIONAL PTY LTD		Tenant in Common	1/3		Running Zone CA	Any	Nil	143	Not greater than 168	46	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	Class 5B	49630C
	HUTCHINS	FU MEI	Tenant in Common	1/3										
	NARISH HOLDINGS PTY LTD		Tenant in Common	1/3										

Converting Authority	Water Allocation Group	Flow Conditions	Max Rate For Taking Water (l/s)	Volumetric limits (ML/a)	Nominal Volume (ML)	Other Conditions	Purpose	Location	Tenancy Comments	Share of Water Allocation	Tenancy Type	Given Names	Family Name/Company	Water Allocation Number
49630C	Class 5D	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	46	Not greater than 3	1	Nil	Any	Running Zone CA		1/3	Tenant in Common		ASCO INTERNATIONAL PTY LTD	401
										1/3	Tenant in Common	FU MEI	HUTCHINS	
										1/3	Tenant in Common		NARISH HOLDINGS PTY LTD	

Table 3 Unsupplemented water allocations Christmas Creek Water Management Area\*\*

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
298	MCFARLANE	ALEXANDER JAMES	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	38	Not greater than 48	15	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.	Class 6B	0111282C
	MCFARLANE	ALETTA NARELLE	Tenant in Common	1/2										
299	ARTHY	SYDNEY CHARLES	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	114	Not greater than 144	46	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.	Class 6B	06087AC
	ARTHY	GREGORY CHARLES	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
300	USHER INVESTMENT COMPANY PTY LTD	Trustee	Trustee	1	UNDER INSTRUMENT 711647312	Christmas Zone CA	Any	Nil	114	Not greater than 144	50	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	Class 6B	06645C
301	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	95	Not greater than 120	46	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.	Class 6B	09403AC
	BRIGHT	VERONICA JEAN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
302	ARTHY	RAYMOND HENRY	Sole Proprietor	1		Christmas Zone CA	Any	Nil	67	Not greater than 84	25	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	Class 6B	11070AC
303	DART	MICHAEL	Trustee	1	UNDER INSTRUMENT 707932671 AND 714644108	Christmas Zone CA	Any	Nil	38	Not greater than 48	50	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.	Class 6B	18541C
	JONES	MARGARET GERALDINE	Trustee											

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
304	BRYMAN	ROBERT PAUL	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	33	Not greater than 42	25	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.	Class 6B	26669C
	BRYMAN	JODIE NICOLE	Tenant in Common	1/2										
305	ARTHY	RAYMOND HENRY	Sole Proprietor	1		Christmas Zone CA	Any	Nil	95	Not greater than 120	46	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	Class 6B	27265AC



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
306	CAHILL	RODNEY VINCENT	Tenant in Common	1/3		Christmas Zone CA	Any	Nil	238	Not greater than 300	50	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	Class 6B	34979AC
	CAHILL	LORRAINE MARY	Tenant in Common	1/3										
	CAHILL	PATRICK VINCENT	Tenant in Common	1/3										
307	CARROLL	SCOTT MICHAEL	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	5	Not greater than 6	13	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.	Class 6B	39695C
	CARROLL	VICTORIA JOLENE	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
308	BURGESS	PAMELA	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	48	Not greater than 60	13	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.	Class 6B	42015C
	BURGESS	PHILLIP RUSSELL	Tenant in Common	1/2										
309	BARNETT	ROSLYN JUNE	Sole Proprietor	1		Christmas Zone CA	Any	Nil	33	Not greater than 42	8	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	Class 6B	42380AC

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
310	WARREN	PETER JOHN DALE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	29	Not greater than 36	25	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.	Class 6B	46477C
	WARREN	ANN-MARIE BARBARA	Tenant in Common	1/2										
311	WARREN	PETER JOHN DALE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	48	Not greater than 60	46	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.	Class 6B	47420C
	WARREN	ANN-MARIE BARBARA	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
312	HANSEN	KERRY ALLAN KYLE	Sole Proprietor	1		Christmas Zone CA	Any	Nil	38	Not greater than 48	15	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	Class 6B	51257C
313	HANSEN	KERRY ALLAN KYLE	Sole Proprietor	1		Christmas Zone CA	Any	Nil	19	Not greater than 24	13	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	Class 6B	51258C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
314	KLEASE	GREGORY THOMAS	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	238	Not greater than 300	25	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.	Class 6B	53176C
	MAHONY	MARJORIE ANN	Tenant in Common	1/2										
315	WILSON	GARY JOHN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	19	Not greater than 24	8	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.	Class 6B	54675C
	WILSON	GAYLE MAREE	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
316	CHARLES	SCOTT	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	14	Not greater than 18	13	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.	Class 6B	56342C
	CHARLES	CARLIE MAREE	Tenant in Common	1/2										
317	SUTER	GREGORY ROBERT	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	57	Not greater than 72	25	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.	Class 6B	56534C
	DALZELL	KATRINA HELEN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
318	CAHILL	RODNEY VINCENT	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	95	Not greater than 120	50	The take of water may only occur when there is a visible flow immediately downstream of the pump used in conjunction with the water allocation	Class 6B	52926C
	CAHILL	LORRAINE MARY	Tenant in Common	1/2										
319	DOYLE	JEFFREY DARRELL	Sole Proprietor	1		Christmas Zone CA	Any	Nil	56	Not greater than 66	46	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	Class 6B	06618C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
320	STEINHARDT	ERROL BERNARD CHARLES	Sole Proprietor	1		Christmas Zone CA	Any	Nil	10	Not greater than 12	13	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	Class 6B	10589C
321	THEODORE	MORRIS	Sole Proprietor	1		Christmas Zone CA	Any	Nil	46	Not greater than 54	25	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	Class 6B	40749C



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
322	RUDDY	GEOFFREY THOMAS	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	31	Not greater than 36	25	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.	Class 6B	42309C
	RUDDY	MARALYN EDNA	Tenant in Common	1/2										
323	YOUNG	JILL SUSANNE	Sole Proprietor	1		Christmas Zone CA	Any	Nil	41	Not greater than 48	46	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	Class 6B	46505C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
324	DEANE	KENNETH PATRICK	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	41	Not greater than 48	25	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.	Class 6B	54464C
	DEANE	GREGORY MICHAEL	Tenant in Common	1/2										
325	HILLIER	VALARIE MAVIS	Tenant in Common	1/2	UNDER INSTRUMENT 708446434	Christmas Zone CA	Any	Nil	31	Not greater than 36	25	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.	Class 6B	0111297C
	HARRISON	ROBERT EDGAR	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
327	JACKSON	ERROL DESMOND	Sole Proprietor	1		Christmas Zone CA	Any	Nil	31	Not greater than 36	25	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	Class 6B	06982C
328	LUDWIG	ANTHONY CHARLES	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	41	Not greater than 48	46	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.	Class 6B	56136C
	LUDWIG	CHANTAL LEE	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
329	MICHEL	JUSTINE	Trustee	1	UNDER INSTRUMENT 713663653	Christmas Zone CA	Any	Nil	77	Not greater than 96	50	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	Class 6B	09378C
330	SCHWENKE	GLEN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	77	Not greater than 96	25	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.	Class 6B	26236C
	SCHWENKE	GAIL MEGAN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
331	CAHILL	MATTHEW PETER	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	241	Not greater than 300	40	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.	Class 6B	26450AC
	CAHILL	ALLISON LOUISE	Tenant in Common	1/2										
332	CAHILL	MATTHEW PETER	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	77	Not greater than 96	46	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.	Class 6B	33141C
	CAHILL	ALLISON LOUISE	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
333	STOCKS	PETER JOHN	Sole Proprietor	1		Christmas Zone CA	Any	Nil	48	Not greater than 60	25	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	Class 6B	42455C
334	MINGUNBURRI PTY LTD		Trustee	1	Under Instrument 712092583	Christmas Zone CA	Any	Nil	93	Not greater than 126	50	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	Class 6B	603768

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
335	SIRETT	IAN JOHN	Sole Proprietor	1		Christmas Zone CA	Any	Nil	21	Not greater than 21	2	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	Class 6B	177227
336	BROWN	PETER JAMES	Trustee	1	Under Instrument 712092583	Christmas Zone CA	Any	Nil	178	Not greater than 240	71	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	Class 6B	05983C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
337	CAHILL	MICHAEL JOSEPH	Sole Proprietor	1		Christmas Zone CA	Any	Nil	231	Not greater than 312	50	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	Class 6B	06160AC
338	CAHILL	RAELEEN MARY	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	142	Not greater than 192	46	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.	Class 6B	06355AC
	CAHILL	MARK RICHARD	Tenant in Common	1/2										



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
339	HILLS FAMILY PTY LTD		Trustee	1	Under Instrument 712076742	Christmas Zone CA	Any	Nil	129	Not greater than 174	50	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	Class 6B	06992AC
340	CAHILL	JANELLE MAREE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	89	Not greater than 120	46	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.	Class 6B	10353C
	CAHILL	GLENN STUART	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
341	BROWN	PETER JAMES	Sole Proprietor	1		Christmas Zone CA	Any	Nil	80	Not greater than 108	46	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	Class 6B	10929AC
342	BROWN	PETER JAMES	Sole Proprietor	1		Christmas Zone CA	Any	Nil	93	Not greater than 126	25	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	Class 6B	12144AC

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
343	CAHILL	JANELLE MAREE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	107	Not greater than 144	46	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.	Class 6B	27379AC
	CAHILL	GLENN STUART	Tenant in Common	1/2										
344	CAHILL	JANELLE MAREE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	71	Not greater than 96	50	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.	Class 6B	27380C
	CAHILL	GLENN STUART	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
345	BRIGHT	VERONICA JEAN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	222	Not greater than 300	50	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.	Class 6B	34000AC
	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2										
346	SHOUJAA PTY LTD		Trustee	1	Under Instrument 708892353	Christmas Zone CA	Any	Nil	138	Not greater than 186	50	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	Class 6B	35298AC

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
347	SHEPHERD	WALTER THOMAS	Sole Proprietor	1		Christmas Zone CA	Any	Nil	89	Not greater than 120	25	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	Class 6B	35745C
348	TAYLOR	ANN LOUISE	Tenant in Common	1/4		Christmas Zone CA	Any	Nil	107	Not greater than 144	46	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	Class 6B	39698AC
	TAYLOR	CHRISTOPHER ROBERT CLIFFORD	Tenant in Common	1/4										
	SCHOFIELD	MARK JAMES	Tenant in Common	1/4										
	SCHOFIELD	ELIZABETH JANE	Tenant in Common	1/4										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
349	BRIGHT	VERONICA JEAN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	160	Not greater than 216	46	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.	Class 6B	42426AC
	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2										
350	BROWN	PETER JAMES	Sole Proprietor	1		Christmas Zone CA	Any	Nil	178	Not greater than 240	46	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	Class 6B	49580C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
351	SHOUJAA PTY LTD		Trustee	1	Under Instrument 708892353	Christmas Zone CA	Any	Nil	178	Not greater than 240	50	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	Class 6B	51170AC
352	BURROUGHS	JOHN HARDING	Sole Proprietor	1		Christmas Zone CA	Any	Nil	18	Not greater than 24	13	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	Class 6B	54684C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
353	CLOTHIER	JOAN LEIGH	Trustee	1/2	Under Instrument 710369425	Christmas Zone CA	Any	Nil	169	Not greater than 228	25	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	Class 6B	01142AC
	CLOTHIER	RODNEY GEORGE	Trustee											
	GRANT	ROBERT ELLIOT BERESFORD	Tenant in Common	1/2										
354	WATERS	JOHN VINCENT	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	22	Not greater than 30	25	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.	Class 6B	06601C
	WATERS	PAUL MICHAEL	Tenant in Common	1/2										



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
355	SINGH PROPERTIES PTY LTD		Trustee	1		Christmas Zone CA	Any	Nil	107	Not greater than 144	50	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	Class 6B	29994C
356	SINGH PROPERTIES PTY LTD		Trustee	1		Christmas Zone CA	Any	Nil	156	Not greater than 210	50	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	Class 6B	30156C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
357	KLEINSCHMIDT	GEOFFREY	Trustee	1	Under Instrument 709295685	Christmas Zone CA	Any	Nil	178	Not greater than 240	17	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.	Class 6B	35661C
	KLEINSCHMIDT	NARELLE PAULINE	Trustee											
358	HENCORP PTY LTD		Sole Proprietor	1		Christmas Zone CA	Any	Nil	107	Not greater than 144	25	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	Class 6B	606936

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
359	JEPPESEN	GREGORY JOHN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	9	Not greater than 12	25	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.	Class 6B	48601C
	JEPPESEN	ROSALIE ANNE	Tenant in Common	1/2										
360	SELLARS	ANTHONY DAVID	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	290	Not greater than 390	46	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.	Class 6B	48734C
	SELLARS	ANTHONY DAVID	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
362	SINGH	TEJA	Trustee	1		Christmas Zone CA	Any	Nil	44	Not greater than 60	50	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.	Class 6B	54683C
	SINGH	JARNAIL KAUR	Trustee											
363	SELLARS	ANTHONY DAVID	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	111	Not greater than 150	50	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.	Class 6B	56166C
	SELLARS	MARIE-LOUISE	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
364	CAHILL	PETER MICHAEL	Sole Proprietor	1		Christmas Zone CA	Any	Nil	142	Not greater than 192	75	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	Class 6B	A03204C
365	BUSCH	GEOFFREY JOHN	Sole Proprietor	1		Christmas Zone CA	Any	Nil	71	Not greater than 96	50	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	Class 6B	607784

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
375	MCFARLANE	ALETTA NARELLE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	15	Not greater than 21	15	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.	Class 6D	0111282C
	MCFARLANE	ALEXANDER JAMES	Tenant in Common	1/2										
376	USHER INVESTMENT COMPANY PTY LTD		Trustee	1	Under Instrument 711647312	Christmas Zone CA	Any	Nil	1	Not greater than 1	50	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	Class 6D	06645C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
377	BRIGHT	VERONICA JEAN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 3	46	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.	Class 6D	09403AC
	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2										
378	KLEASE	GREGORY THOMAS	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 1	25	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.	Class 6D	53176C
	MAHONY	MARJORIE ANN	Tenant in Common	1/2										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
379	CHARLES	CHARLIE MAREE	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 1	13	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.	Class 6D	56342C
	CHARLES	SCOTT	Tenant in Common	1/2										
380	DALZELL	KATRINA HELEN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 1	25	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.	Class 6D	56534C
	SUTER	GREGORY ROBERT	Tenant in Common	1/2										



Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
383	HARRISON	ROBERT EDGAR	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 3	25	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.	Class 6D	0111297C
	HILLIER	VALARIE MAVIS	Tenant in Common	1/2										
384	BROWN	PETER JAMES	Trustee	1		Christmas Zone CA	Any	Nil	65	Not greater than 85	71	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	Class 6D	05983C

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
385	CAHILL	RAELEEN MARY	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 3	46	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.	Class 6D	06355AC
	CAHILL	MARK RICHARD	Tenant in Common	1/2										
386	BROWN	PETER JAMES	Sole Proprietor	1		Christmas Zone CA	Any	Nil	1	Not greater than 3	46	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	Class 6D	10929AC

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
387	BRIGHT	VERONICA JEAN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 3	50	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.	Class 6D	34000AC
	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2										
388	TAYLOR	ANN LOUISE	Tenant in Common	1/4		Christmas Zone CA	Any	Nil	1	Not greater than 3	46	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	Class 6D	39698AC
	TAYLOR	CHRISTOPHER ROBERT CLIFFORD	Tenant in Common	1/4										
	SCHOFIELD	MARK JAMES	Tenant in Common	1/4										
	SCHOFIELD	ELIZABETH JANE	Tenant in Common	1/4										

Water Allocation Number	Family Name/Company	Given Names	Tenancy Type	Share of Water Allocation	Tenancy Comments	Location	Purpose	Other Conditions	Nominal Volume (ML)	Volumetric limits (ML/a)	Max Rate For Taking Water (l/s)	Flow Conditions	Water Allocation Group	Converting Authority
389	BRIGHT	VERONICA JEAN	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 3	46	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.	Class 6D	42426AC
	BRIGHT	ROBERT DESMOND	Tenant in Common	1/2										
391	MCARTHUR	JEFFERY MARK	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	1	Not greater than 1	13	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.	Class 6D	56363C
	PHILLIPS	ENESSA VIVienne	Tenant in Common	1/2										

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392	THEODORE	MORRIS	Sole Proprietor	1		Christmas Zone CA	Any	Nil	22	Not greater than 30	25	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	Class 6D	47548C
397	SELLARS	ANTHONY DAVID	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	22	Not greater than 30	25	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.	Class 6D	53110C
	SELLARS	MARIE-LOUISE	Tenant in Common	1/2										

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398	SELLARS	ANTHONY DAVID	Tenant in Common	1/2		Christmas Zone CA	Any	Nil	178	Not greater than 240	25	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.	Class 6B	53110C
	SELLARS	MARIE-LOUISE	Tenant in Common	1/2										
400	JACKSON	ERROL DESMOND	Tenant in Common	1/3		Christmas Zone CA	Any	Nil	10	Not greater than 12	13	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.	Class 6B	0111299C
	JERRETT	DARREN RONALD	Tenant in Common	1/3										
	JERRETT	TAYLA NICOLE	Tenant in Common	1/3										



\*\*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.