



Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020

under the

Water Management Act 2000

I, Melinda Pavey, the Minister for Water, Property and Housing do, by this Order, in pursuance of section 50 of the *Water Management Act 2000*, make the following Minister's plan, being the *Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020*.

Dated this 29th day of June 2020.

MELINDA PAVEY, MP
Minister for Water, Property and Housing

Explanatory note

This Plan replaces the *Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2008*.

This Order is made under section 50 of the *Water Management Act 2000*. The concurrence of the Minister for Energy and Environment was obtained prior to the making of this Plan.

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Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020

Notes.

- 1 In accordance with section 48 of the *Water Management Act 2000*, the Minister is to take all reasonable steps to give effect to the provisions of this Plan when exercising functions under the Act.
- 2 In accordance with section 49 of the *Water Management Act 2000*, public authorities must also have regard to the provisions of this Plan to the extent they apply to the public authority.
- 3 The Minister may amend this Plan at any time under section 45 of the *Water Management Act 2000*, including if satisfied it is in the public interest to do so, or in such circumstances, in relation to such matters and to such extent as Part 12 provides.

Part 1 Introduction

1 Name of Plan

This Plan is the *Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020 (this Plan)*.

2 Nature and status of Plan

- (1) This Plan is made under section 50 of the *Water Management Act 2000 (the Act)*.
- (2) This Plan is a plan for water sharing and generally deals with the matters set out in sections 20 and 21 of the Act, as well as other sections of the Act.

Note. Where a provision of this Plan is made for the purposes of another section of the Act, the section is referred to in the notes to this Plan.

3 Commencement

This Plan commences on 1 July 2020.

Notes.

- 1 This Plan replaces the *Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2008*.
- 2 In accordance with section 43 of the Act, this Plan will have effect for 10 years from 1 July 2020. In accordance with section 43A of the Act, the Minister may extend this Plan for a further period of 10 years after it is due to expire.

4 Application of Plan

- (1) This Plan applies to the following water sources known as the NSW Great Artesian Basin Groundwater Sources within the Border Rivers Water Management Area, Gwydir Water Management Area, Namoi Water Management Area, Central West Water Management Area and Western Water Management Area (*the groundwater sources*):
 - (a) the Central Groundwater Source,

- (b) the Eastern Recharge Groundwater Source,
- (c) the Southern Recharge Groundwater Source,
- (d) the Surat Groundwater Source,
- (e) the Warrego Groundwater Source.

Note. The Border Rivers Water Management Area, Gwydir Water Management Area, Namoi Water Management Area, Central West Water Management Area and Western Water Management Area were constituted by Ministerial order made under section 11 of the Act and published in the NSW Government Gazette No 180 on 23 November 2001 at page 9389.

- (2) The boundaries of the groundwater sources are shown on the *Plan Map (WSP040_Version 2) Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020 (the Plan Map)*, held by the Department.

Notes.

- 1 The Plan Map shows the extent of the groundwater sources. The extent of the groundwater sources below the surface of the ground is described in subclauses (3) – (5).
 - 2 The Plan Map is part of this Plan and is available on the NSW legislation website. An overview of the Plan Map is shown in Appendix 1.
- (3) Subject to subclause (5), the waters in the Southern Recharge Groundwater Source and the Eastern Recharge Groundwater Source comprise all water contained within:
- (a) all rocks of Cretaceous, Jurassic and Cenozoic age, and
 - (b) all unconsolidated alluvial sediments below the surface of the ground
- within the boundaries of the Southern Recharge Groundwater Source and the Eastern Recharge Groundwater Source shown on the Plan Map.
- Note. Unconsolidated alluvial sediments** is defined in the Dictionary.
- (4) Subject to subclause (5), the waters in the Surat Groundwater Source, the Warrego Groundwater Source and the Central Groundwater Source comprise all water contained within all rocks of Cretaceous and Jurassic age at a depth of more than 60 metres below the ground level within boundaries of the Surat Groundwater Source, the Warrego Groundwater Source and the Central Groundwater Source shown on the Plan Map.
- (5) The groundwater sources do not include any water contained in the following:
- (a) the water sources to which the *Water Sharing Plan for the Darling Alluvial Groundwater Sources 2020* applies,

- (b) the water sources to which the *Water Sharing Plan for the Gwydir Alluvial Groundwater Sources 2020* applies,
 - (c) the water sources to which the *Water Sharing Plan for the Macquarie-Castlereagh Groundwater Sources 2020* applies,
 - (d) the water sources to which the *Water Sharing Plan for the Namoi Alluvial Groundwater Sources 2020* applies,
 - (e) the water sources to which the *Water Sharing Plan for the NSW Border Rivers Alluvial Groundwater Sources 2020* applies,
 - (f) the water sources to which the *Water Sharing Plan for the NSW Great Artesian Basin Shallow Groundwater Sources 2020* applies,
 - (g) the water sources to which the *Water Sharing Plan for the NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020* applies,
 - (h) the water sources to which the *Water Sharing Plan for the NSW Murray Darling Basin Porous Rock Groundwater Sources 2020* applies.
- (6) The high priority groundwater-dependent ecosystems for the purposes of this Plan are:
- (a) shown on the *High Priority Groundwater-Dependent Ecosystem Map (GDE025_Version 1)*, *Water Sharing Plan for the NSW Great Artesian Basin Groundwater Sources 2020* (the ***High Priority Groundwater-Dependent Ecosystem Map***), held by the Department, or
 - (b) identified in Schedule 2.

Notes.

- 1 ***Groundwater-dependent ecosystem*** is defined in the Dictionary.
- 2 The High Priority Groundwater-Dependent Ecosystem Map is part of this Plan and is available on the NSW legislation website. An overview of the High Priority Groundwater-Dependent Ecosystem Map is shown in Appendix 2.
- 3 A map of the high priority groundwater-dependent ecosystems identified in Schedule 2 is shown in Appendix 3.

5 Interpretation

- (1) Unless otherwise defined in this Plan, words and expressions that are defined in the Act or in the regulations made under the Act have the same meaning in this Plan.
- (2) Words and expressions that are defined in the Dictionary to this Plan have the meaning set out in the Dictionary.

- (3) Unless otherwise specified in this Plan, a clause that applies to a category of access licence also applies to any subcategories of that category of access licence.
- (4) The Dictionary and Schedules to this Plan form part of this Plan.
- (5) The Plan Map and the High Priority Groundwater-Dependent Ecosystem Map form part of this Plan.
- (6) Notes in the text of this Plan do not form part of this Plan.
- (7) Appendices to this Plan do not form part of this Plan.

Part 2 Vision, objectives, strategies and performance indicators

Notes.

- 1 This Part is made in accordance with section 35 (1) of the Act.
- 2 This Part describes broad objectives, which are the long-term outcomes of this Plan and are not directly measured but evaluated by considering the cumulative achievement of the associated targeted objectives. Targeted objectives described in this Part are specific outcomes that can be achieved by the strategies in this Plan and can be directly measured so that success or failure to achieve the objective can be quantified.

6 Acknowledgement

Respect is paid to the traditional owners of this country, who are acknowledged as the first natural resource managers within the Border Rivers Water Management Area, Gwydir Water Management Area, Namoi Water Management Area, Central West Water Management Area and Western Water Management Area.

7 Vision statement

The vision for this Plan is to provide for the following:

- (a) the protection of the condition of the groundwater sources and their dependent ecosystems,
- (b) the continuing productive extraction of groundwater for economic benefit,
- (c) the social and cultural benefits to urban and rural communities that result from groundwater extraction,
- (d) the spiritual, social, customary and economic benefits of groundwater to Aboriginal communities.

8 Environmental objectives

- (1) The broad environmental objective of this Plan is to protect the condition of the groundwater sources and their groundwater-dependent ecosystems over the term of this Plan.
- (2) The targeted environmental objectives of this Plan are as follows:
 - (a) to protect the extent and condition of high priority groundwater-dependent ecosystems,
 - (b) to contribute to the maintenance of salinity levels within water quality target ranges that support high priority groundwater-dependent ecosystems,
 - (c) to contribute to the prevention of structural damage to an aquifer of the groundwater sources resulting from groundwater extraction.

Note. *Structural damage to an aquifer* is defined in the Dictionary.

- (3) The strategies for reaching the targeted environmental objectives of this Plan are as follows:
- (a) reserve all water for the environment in excess of the limits to the availability of water,
Note. Part 4 reserves all water remaining above the long-term average annual extraction limits for the environment.
 - (b) manage extractions under access licences and basic landholder rights within the limits to the availability of water,
Note. Part 6 manages extraction of groundwater within the long-term average annual extraction limits.
 - (c) manage the construction and use of water supply works to minimise impacts on high priority groundwater-dependent ecosystems and groundwater quality,
Note. Part 9 sets provisions that manage the location, construction and use of water supply works to prevent impacts on high priority groundwater-dependent ecosystems and from sources of contaminated water.
 - (d) reduce the volume of water lost through inefficient infrastructure by phasing out the use of bore drains in the exercise of basic landholder rights.
Note. This Plan includes provisions for the management of domestic and stock (conveyance) access licences which, when granted, are intended to be used in the management of inefficient water distribution systems.
- (4) The performance indicator used to measure the success of the strategies for reaching the broad environmental objective in subclause (1) is an evaluation of the extent to which the combined outcomes of the targeted objectives in subclause (2) have contributed to achieving the broad objective.
- (5) The performance indicators used to measure the success of the strategies for reaching the targeted environmental objectives in subclause (2) are the changes in trends in ecological condition during the term of this Plan as assessed using one or more of the following:
- (a) the extent and recorded condition of high priority groundwater-dependent ecosystems,
 - (b) the recorded condition of target populations of high priority groundwater-dependent native vegetation,
 - (c) the recorded values of total dissolved solids,
Notes.
 - 1 Total dissolved solids will be used as a measure of salinity levels.
 - 2 **Total dissolved solids** is defined in the Dictionary.

- (d) the recorded values of groundwater levels and pressures,
 - (e) the extent of bore drains in use.
- (6) In evaluating the effectiveness of the strategies in meeting the objectives in this clause, the following will be relevant:
- (a) the extent to which the strategies in subclause (3) and provisions in this Plan have been implemented and complied with,
 - (b) the extent to which changes in the performance indicators can be attributed to the strategies in subclause (3) and provisions in this Plan,
 - (c) the extent to which the strategies in subclause (3) support achievement of the environmental objectives,
 - (d) the extent to which external influences on the groundwater sources and their dependent ecosystems have affected progress toward achieving the environmental objectives.

Note. External influences may include long- and short-term climate trends, land use patterns and other factors.

9 Economic objectives

- (1) The broad economic objective of this Plan is to provide access to groundwater to optimise economic benefits for groundwater-dependent businesses and local economies.
- (2) The targeted economic objectives of this Plan are as follows:
- (a) to provide groundwater trading opportunities for groundwater-dependent businesses,
Note. Trading is a generic term referring to dealings under Division 4 of Part 2 of Chapter 3 of the Act.
 - (b) to provide access to groundwater in the long term for groundwater-dependent businesses,
 - (c) to contribute to the maintenance of groundwater salinity levels within ranges that maintain a beneficial use category that supports groundwater-dependent businesses.
Note. *Beneficial use category* is defined in the Dictionary.
- (3) The strategies for reaching the targeted economic objectives of this Plan are as follows:

- (a) provide a clear framework for sharing water among water users,
Note. Part 6 provides certainty in how available water is determined and shared between individual access licence holders and different categories of access licences.

- (b) where possible and subject to assessment of local impacts, provide for flexibility of access to water and trade of water allocations and entitlements within the groundwater sources,

Notes.

1 The account management provisions in Part 8, including those relating to the amount of water that may be carried over from one water year to the next, and the volume of water that can be taken in any water year, provide flexibility for water users.

2 The provisions in Part 10 permit a variety of dealings within environmental and resource constraints, including assignment of rights under access licences and assignment of water allocations between access licences.

- (c) manage extractions to specified limits over the long term,

Note. Managing extractions to limits over the long term ensures the groundwater will be available for future beneficial economic uses.

- (d) manage the construction and use of water supply works to minimise impacts on groundwater pressures and groundwater quality.

- (4) The performance indicator used to measure the success of the strategies for reaching the broad economic objective in subclause (1) is an evaluation of the extent to which the combined outcomes of the targeted economic objectives in subclause (2) have contributed to achieving the broad objective.

- (5) The performance indicators used to measure the success of the strategies for reaching the targeted economic objectives in subclause (2) are the changes or trends in economic benefits during the term of this Plan as assessed using one or more of the following:

- (a) the economic benefits of water extraction and use,

- (b) the economic benefits of water trading as demonstrated by:

(i) the annual number or volume of share components of access licences transferred or assigned, and

(ii) the weighted average unit price of share components of access licences transferred or assigned, and

Note. *Weighted average unit price* is defined in the Dictionary.

(iii) the annual volume of water allocations assigned, and

- (iv) the weighted average unit price of water allocations assigned,
 - (c) the recorded values of total dissolved solids,
 - (d) the recorded values of groundwater levels and pressures.
- (6) In evaluating the effectiveness of the strategies in meeting the objectives in this clause, the following will be relevant:
- (a) the extent to which the strategies in subclause (3) and provisions in this Plan have been implemented and complied with,
 - (b) the extent to which the changes in the economic benefits of water extraction and use can be attributed to the strategies in subclause (3) and provisions in this Plan,
 - (c) the extent to which the strategies in subclause (3) support achievement of the economic objectives,
 - (d) the extent to which external influences on groundwater-dependent businesses have affected progress towards achieving the economic objectives.

Note. External influences may include trends in urban, agricultural and industrial development, energy costs, commodity prices, interest rates, technology advances, climate and changes in industry policy or regulation.

10 Aboriginal cultural objectives

- (1) The broad Aboriginal cultural objective of this Plan is to maintain the spiritual, social, customary and economic values and uses of groundwater by Aboriginal people.
- (2) The targeted Aboriginal cultural objectives of this Plan are as follows:
 - (a) to provide access to groundwater in the exercise of native title rights,
 - (b) to provide access to groundwater for Aboriginal cultural use,
 - (c) to protect groundwater-dependent culturally significant areas,
Note. *Groundwater-dependent culturally significant area* is defined in the Dictionary.
 - (d) to contribute to the maintenance of groundwater salinity levels within existing ranges that support groundwater-dependent Aboriginal cultural values and uses.
- (3) The strategies for reaching the targeted Aboriginal cultural objectives of this Plan are as follows:
 - (a) manage access to groundwater consistently with the exercise of native title rights,

- (b) provide for groundwater associated with Aboriginal cultural values and purposes,
Note. The provisions in Part 7 provide opportunities for Aboriginal people to access water by allowing for the granting of an aquifer access licence of the subcategory “Aboriginal cultural”.
 - (c) manage extractions under access licences and basic landholder rights within the extraction limits,
Note. The provisions in Part 6 manage extraction of groundwater within the extraction limits for the groundwater sources. This helps to protect any culturally significant areas from damage associated with long-term declines in water levels.
 - (d) manage the construction and use of water supply works to minimise impacts on groundwater-dependent culturally significant areas and groundwater quality.
Note. The provisions in Part 9 manage the location, construction and use of water supply works to prevent impacts on culturally significant areas and from sources of contaminated water.
- (4) The performance indicator used to measure the success of the strategies for reaching the broad Aboriginal cultural objective in subclause (1) is an evaluation of the extent to which the combined outcomes of the targeted Aboriginal cultural objectives in subclause (2) have contributed to achieving the broad objective.
- (5) The performance indicators used to measure the success of the strategies for reaching the targeted Aboriginal cultural objectives in subclause (2) are the changes or trends in Aboriginal cultural benefits during the term of this Plan as assessed using one or more of the following:
- (a) the use of water by Aboriginal people, by measuring factors including:
 - (i) the extent to which native title rights are capable of being exercised, consistent with any determination of native title,
 - (ii) the extent to which access to water has contributed to the achievement of Aboriginal cultural outcomes,
 - (b) the extent to which Aboriginal people have considered the operation of this Plan to be beneficial to meeting their needs for groundwater-dependent Aboriginal cultural uses and values,
 - (c) the extent to which changes in the use of water by Aboriginal people can be attributed to the strategies in subclause (3) and the provisions in this Plan,
 - (d) the recorded values of total dissolved solids,
 - (e) the recorded values of groundwater levels and pressures.

- (6) In evaluating the effectiveness of the strategies in meeting the Aboriginal cultural objectives in this clause, the following will be relevant:
- (a) the extent to which the strategies in subclause (3) and provisions in this Plan have been implemented and complied with,
 - (b) the extent to which changes in the performance indicators can be attributed to the strategies in subclause (3) and provisions in this Plan,
 - (c) the extent to which the strategies in subclause (3) support achievement of the Aboriginal cultural objectives,
 - (d) the extent to which external influences on the groundwater-dependent Aboriginal cultural activities have affected progress toward achieving the Aboriginal cultural objectives.

11 Social and cultural objectives

- (1) The broad social and cultural objective of this Plan is to provide access to groundwater to support groundwater-dependent social and cultural values.
- (2) The targeted social and cultural objectives of this Plan are as follows:
- (a) to provide for access to water for basic landholder rights, town water supply and licensed domestic and stock purposes,
 - (b) to provide for access to water for groundwater-dependent cultural and community purposes,
 - (c) to contribute to the maintenance of groundwater salinity levels within ranges that maintain a beneficial use category that supports groundwater-dependent community uses.
- (3) The strategies for reaching the targeted social and cultural objectives of this Plan are as follows:
- (a) provide groundwater for basic landholder rights, town water supply, and for licensed domestic and stock purposes,
Note. The provisions in Part 6 ensure that water is available for basic landholder rights, town water supply and licensed domestic and stock purposes.
 - (b) manage the construction and use of water supply works to minimise impacts on basic landholder rights and town water supply,
Note. Part 9 includes provisions that manage the location, construction and use of water supply works to minimise the impacts of extraction on groundwater supplies for basic landholder rights and towns.

- (c) manage the construction and use of water supply works to minimise impacts on groundwater quality.

Note. Part 9 includes provisions that manage the location, construction and use of water supply works to prevent contamination impacts on groundwater quality.

- (4) The performance indicator used to measure the success of the strategies for reaching the broad social and cultural objective in subclause (1) is an evaluation of the extent to which the combined outcomes of the targeted social and cultural objectives in subclause (2) have contributed to achieving the broad objective.
- (5) The performance indicators used to measure the success of the strategies for reaching the targeted social and cultural objectives in subclause (2) are the changes or trends in social and cultural benefits during the term of this Plan as assessed using one or more of the following:
 - (a) the social and cultural uses of water during the term of this Plan, by measuring factors including:
 - (i) the extent to which basic landholder rights and licensed domestic and stock purposes have been met, and
 - (ii) the extent to which local water utility access licence requirements have been met,
 - (b) the recorded values of total dissolved solids,
 - (c) the recorded values of groundwater levels and pressures.
- (6) In evaluating the effectiveness of the strategies in meeting the social and cultural objectives in this clause, the following will be relevant:
 - (a) the extent to which the strategies in subclause (3) and provisions in this Plan have been implemented and complied with,
 - (b) the extent to which the changes in the performance indicators can be attributed to the strategies in subclause (3) and provisions in this Plan,
 - (c) the extent to which the strategies in subclause (3) support achievement of the social and cultural objectives,
 - (d) the extent to which external influences on social and cultural activities dependent on the groundwater sources during the term of this Plan have affected progress toward achieving the social and cultural objectives.

Note. External influences may include trends in urban, agricultural and industrial development, social or cultural behaviour, climate and changes in policy or regulation.

Part 3 Bulk access regime

12 Bulk access regime

- (1) This Plan establishes a bulk access regime for the extraction of water under access licences, having regard to the following:
 - (a) the planned environmental water established under Part 4,
 - (b) the requirements for water to satisfy basic landholder rights identified under Part 5,
 - (c) the requirements for water for extraction under access licences identified under Part 5,
 - (d) the access licence dealing rules established under Part 10.
- (2) The bulk access regime:
 - (a) establishes rules, according to which:
 - (i) access licences are to be granted as provided for in Part 7, and
 - (ii) available water determinations are to be made as provided for in Part 6, and
 - (iii) access licences are to be managed as provided for in Part 8, and
 - (b) establishes rules with respect to the priorities according to which water allocations are to be adjusted as a consequence of any reduction in the availability of water due to an increase in extraction above the limits to the availability of water contained in Part 6, and
 - (c) recognises and is consistent with the following:
 - (i) the limits to the availability of water as provided for in Part 6,
 - (ii) the water management principles under section 5 of the Act,
 - (iii) the effect of climatic variability on the availability of water as described in clause 13, and
 - (d) contains provisions with respect to the mandatory conditions to be imposed on access licences in Part 11.

13 Climatic variability

This Plan recognises the effects of climatic variability on groundwater levels through provisions contained in Part 6 that manage the sharing of water within the limits of water availability on a long-term basis.

Note. Other statutory tools are available to manage for climatic variability within a water source, for example, temporary water restrictions under section 324 of the Act.

Part 4 Environmental water provisions

Note. This Part is made in accordance with section 8 of the Act.

14 General

This Part contains environmental water provisions that commit, identify, establish and maintain planned environmental water.

Note. In accordance with the Act, planned environmental water is water that is committed by management plans for fundamental ecosystem health or other specified environmental purposes, either generally or at specified times or in specified circumstances and that cannot, to the extent committed, be taken or used for any other purpose.

15 Commitment and identification of planned environmental water

Water is committed and identified as planned environmental water by reference to the following:

- (a) the long-term average annual commitment of water as planned environmental water,
- (b) the water that is not committed after the commitments to basic landholder rights and for sharing and extraction under any other rights have been met.

16 Establishment and maintenance of planned environmental water

- (1) Planned environmental water is established in each of the groundwater sources as follows:

- (a) the long-term average annual commitment of water as planned environmental water, resulting from compliance with the limits to the availability of water in accordance with the provisions specified in Part 6,

Note. Groundwater sources generally store large volumes of water that may have accumulated over thousands of years. This stored water is also replenished from time to time by rainfall, river and flood flows, and through flow from other groundwater sources. The provisions in Part 6 ensure that there will be water remaining in the groundwater sources over the long term by maintaining compliance with the long-term extraction limits. The long-term extraction limits specified in Part 6 represent a small fraction of the water in the groundwater sources. The remaining water is planned environmental water.

- (b) the water remaining after water has been taken under basic landholder rights, access licences and any other rights under the Act, and the water that cannot be carried over from one water year to the next, in accordance with the provisions specified in Part 6 and Part 8.

Note. The provisions in Part 8 limit the amount of water allocation in a water allocation account for an access licence that can be taken from the groundwater sources in any one water year and, if permitted by Part 8, that can be carried over from one water year to the next water year. In addition to the water referred to in subclause (1) (a), subclause

(1) (b) commits any unused water allocations that cannot be carried over for use in subsequent water years as planned environmental water.

- (2) The planned environmental water established under subclause (1) is maintained by the provisions in Part 6 and Part 8.

Note. The rules in Part 9 also provide mechanisms to ensure that no more than minimal harm will be done to high priority groundwater-dependent ecosystems, groundwater-dependent culturally significant areas, groundwater quality and groundwater levels and pressures at a local scale as a result of the granting or amending of a water supply work approval.

Part 5 Requirements for water

Division 1 General

17 Application

- (1) This Part identifies the requirements for water for basic landholder rights (Division 2) and for extraction under access licences (Division 3).
- (2) The volumes of water specified in this Part represent the estimated requirements for water to satisfy basic landholder rights and the total volumes or unit shares specified in the share components of all access licences on commencement of this Plan.
- (3) This Plan recognises that requirements for water for basic landholder rights and the total share components of access licences may change during the term of this Plan.

Notes.

- 1 The total share components of access licences in the groundwater sources may change during the term of this Plan as a result of:
 - (a) the grant, surrender or cancellation of access licences in the groundwater sources, or
 - (b) the variation of local water utility licences under section 66 of the Act.
- 2 Basic landholder rights requirements may increase as provided for under the Act. This Plan manages changes in basic landholder rights and total share components of all access licences through provisions in Part 6 that manage the sharing of water within the limits of water availability.
- 3 Inherent water quality and land use activities may make the groundwater in some areas unsuitable for some purposes or uses. Groundwater should not be consumed, or otherwise used, without first being tested and, if necessary, appropriately treated to ensure it is fit for purpose. Testing and treatment are the responsibility of the water user.

Division 2 Requirements for water for basic landholder rights

Note. Under the Act, basic landholder rights are defined as domestic and stock rights, native title rights and harvestable rights. There are no harvestable rights in the groundwater sources. Under the Act, basic landholder rights authorise the take of groundwater without the need for an access licence or water use approval, although a water supply work approval is still required to construct a water bore.

18 Domestic and stock rights

On the commencement of this Plan, the water requirements of persons entitled to domestic and stock rights are estimated to total 44,500 megalitres per year (*ML/year*) and are distributed as follows:

- (a) 3,800 ML/year in the Central Groundwater Source,
- (b) 3,200 ML/year in the Eastern Recharge Groundwater Source,

- (c) 13,500 ML/year in the Southern Recharge Groundwater Source,
- (d) 20,400 ML/year in the Surat Groundwater Source,
- (e) 3,600 ML/year in the Warrego Groundwater Source.

Notes.

- 1 Domestic and stock rights are set out in section 52 of the Act and must be exercised in accordance with any mandatory guidelines established under the Act for the taking and use of water for domestic consumption or stock watering.
- 2 Under section 331 of the Act, the Minister may direct the holder of a domestic and stock right to take specified measures to protect the environment, to preserve basic landholder rights or to overcome a threat to public health.
- 3 The volumes set out in this clause are separate from any volumes of water that may be taken under an access licence for domestic and stock purposes.
- 4 These water requirements represent potential demand for domestic and stock purposes, which have been estimated based on stocking rates, human population and the number of properties in the groundwater sources.

19 Native title rights

The requirement for water to satisfy native title rights is the water that may be taken in the exercise of native title rights in accordance with the *Native Title Act 1993* of the Commonwealth, including:

- (a) the native title determination for the Barkandji Traditional Owners #8 (Part A, National Native Title Tribunal references NCD2015/001), and
- (b) any other determination of native title, and
- (c) any indigenous land use agreement.

Notes.

- 1 A map of the native title determination area can be viewed by searching the National Native Title Tribunal website at www.nntt.gov.au.
- 2 This Plan may be amended if there is an additional or change to a native title determination in accordance with the *Native Title Act 1993* of the Commonwealth by which water is required.
- 3 This Plan may be amended if consultation with native title holders identifies more specific requirements for water to satisfy native title rights.
- 4 Native title rights may be exercised in accordance with the *Native Title Act 1993* of the Commonwealth, including section 211 of that Act.

Division 3 Requirements for water under access licences

Note. This Division sets out the total volumes or unit shares in the share components of access licences in the groundwater sources at the commencement of this Plan. The actual volume of water available from year to year will depend on climate, access licence priority and the provisions in this Plan.

20 Share components of domestic and stock access licences

On the commencement of this Plan, it is estimated that the share components of domestic and stock access licences total 32 ML/year, distributed as follows:

- (a) 32 ML/year in the Eastern Recharge Groundwater Source,
- (b) 0 ML/year in all other groundwater sources.

21 Share components of domestic and stock (conveyance) access licences

On the commencement of this Plan, it is estimated that the share components of domestic and stock (conveyance) access licences total 0 ML/year.

22 Share components of local water utility access licences

On the commencement of this Plan, it is estimated that the share components of local water utility access licences total 6,736 ML/year, distributed as follows:

- (a) 25 ML/year in the Central Groundwater Source,
- (b) 0 ML/year in the Eastern Recharge Groundwater Source,
- (c) 3,066 ML/year in the Southern Recharge Groundwater Source,
- (d) 3,393 ML/year in the Surat Groundwater Source,
- (e) 252 ML/year in the Warrego Groundwater Source.

23 Share components of aquifer access licences

On the commencement of this Plan, it is estimated that the share components of aquifer access licences total 65,412 unit shares, distributed as follows:

- (a) 43 unit shares in the Central Groundwater Source,
- (b) 34,974 unit shares in the Eastern Recharge Groundwater Source,
- (c) 24,462 unit shares in the Southern Recharge Groundwater Source,
- (d) 5,527 unit shares in the Surat Groundwater Source,
- (e) 406 unit shares in the Warrego Groundwater Source.

Part 6 Limits to the availability of water

Division 1 Limits

24 Long-term average annual extraction limits

- (1) The long-term average annual extraction limit for the Central Groundwater Source is the sum of the following:
 - (a) 5,193 ML/year, plus
 - (b) the volume of water lost through the use of inefficient water distribution systems in the exercise of domestic and stock rights, as determined by the Minister, plus
 - (c) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister.

Notes.

- 1 **Cap and pipe project** is defined in the Dictionary.
 - 2 The volume in subclause (a) represents the basic landholder right requirements in the groundwater source specified in Division 2 of Part 5, plus the licensed entitlements that existed in 2008, plus 30% of the water savings made under cap and pipe projects from 1999 to the commencement of this Plan.
 - 3 The water accounted for under subclause (b) is the uncontrolled flow from a bore that is in excess of the water used for domestic consumption and stock watering. Once the bore is capped and piped, this water will cease to be accounted for under subclause (b) and the long-term average annual extraction limit will reduce. However, the level of reduction will be equivalent to 70% of this saved water, with the remaining 30% accounted for under subclause (c).
- (2) The long-term average annual extraction limit for the Eastern Recharge Groundwater Source is 16,200 ML/year.
 - (3) The long-term average annual extraction limit for the Southern Recharge Groundwater Source is 38,700 ML/year.
 - (4) The long-term average annual extraction limit for the Surat Groundwater Source is the sum of the following:
 - (a) 43, 446 ML/year, plus
 - (b) the volume of water lost through the use of inefficient water distribution systems in the exercise of domestic and stock rights, as determined by the Minister, plus

- (c) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister.
- (5) The long-term average annual extraction limit for the Warrego Groundwater Source is the sum of the following:
- (a) 8,816 ML/year, plus
 - (b) the volume of water lost through the use of inefficient water distribution systems in the exercise of domestic and stock rights, as determined by the Minister, plus
 - (c) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister.

25 Calculation of annual extraction

The Minister is to determine the volume of water taken during a water year for each of the groundwater sources under the following entitlements (the *annual extraction*):

- (a) all categories of access licences,
- (b) basic landholder rights.

26 Assessment of compliance with long-term average annual extraction limits

- (1) The Minister is to undertake an assessment under this clause comparing the long-term average annual extraction limit for each of the groundwater sources against the average of annual extraction for the preceding five water years for the respective groundwater source.
- (2) There is non-compliance with a long-term average annual extraction limit if the average of annual extraction for a groundwater source in the preceding five water years exceeds the long-term average annual extraction limit for that groundwater source by 10% or more.

27 Compliance with limits

- (1) If an assessment for a groundwater source under clause 26 demonstrates non-compliance with the long-term average annual extraction limit, the Minister is to take any one or more of the following actions in the respective groundwater source:
 - (a) reduce the volume under clause 34(3)(a) relating to the maximum water account debit for aquifer access licences,

Note. *Water account debit* has the meaning set out in clause 34.

- (b) make an available water determination for aquifer access licences in accordance with clause 32 of less than 1 megalitre (*ML*) per unit share of access licence share component.
- (2) Any action under subclause (1) is to be taken to the extent the Minister considers is necessary to return average annual extractions in the relevant groundwater source to the long-term average annual extraction limit.
- (3) If the Minister reduces a maximum water account debit under subclause (1) (a), the Minister may increase the maximum water account debit for aquifer access licences later in the water year, up to the limit specified in clause 34 (3).
- (4) If the Minister makes a reduced available water determination pursuant to subclause (1) (b), the Minister may make further available water determinations in the water year up to the limit specified in clause 28 (2).

Division 2 Available water determinations

Note. When making an available water determination at the commencement of a water year, the Minister may also make known the maximum water account debit for aquifer access licences under clause 34 for that water year, which can be reduced under Division 1 of this Part.

28 General

- (1) Available water determinations are to be expressed as one of the following:
 - (a) for an access licence specifying the share component in ML/year— a percentage of the share component,
 - (b) for an access licence specifying the share component as a number of unit shares— ML per unit share.
- (2) The sum of available water determinations made for any access licence must not exceed the following in any water year:
 - (a) for an access licence specifying the share component in ML/year— 100% of the access licence share component,
 - (b) for an access licence specifying the share component as a number of unit shares— 1 ML per unit share of the access licence share component.

Note. If the Minister makes an available water determination of less than 1 ML per unit share of the access licence share component, the Minister may make further available water determinations during a water year, subject to subclause (2).

29 Available water determinations for domestic and stock access licences

Unless the Minister otherwise determines, at the commencement of each water year an available water determination of 100% of the access licence share component is to be made for domestic and stock access licences.

30 Available water determinations for domestic and stock (conveyance) access licences

Unless the Minister otherwise determines, at the commencement of each water year an available water determination of 100% of the access licence share component is to be made for domestic and stock access (conveyance) licences.

31 Available water determinations for local water utility access licences

Unless the Minister otherwise determines, at the commencement of each water year an available water determination of 100% of the access licence share component is to be made for local water utility access licences.

32 Available water determinations for aquifer access licences

Unless the Minister otherwise determines, at the commencement of each water year an available water determination of 1 ML per unit share is to be made for aquifer access licences.

Part 7 Rules for granting access licences

Notes.

- 1 This Part is made in accordance with sections 61 of the Act. Section 61 of the Act provides for applications for specific purpose access licences in accordance with the regulations and the relevant water sharing plan.
- 2 Access licences in the groundwater sources are granted subject to mandatory conditions required to be imposed by this Plan, the regulations and the Act, and may also be subject to discretionary conditions.

33 Specific purpose access licences

- (1) The Minister must not grant a specific purpose access licence unless satisfied that the share and extraction components of the access licence are the minimum required for the proposed use.
- (2) A person may make an application for an aquifer (Aboriginal cultural) access licence only if the share component of the proposed access licence is no greater than 10 ML/year.
- (3) A person may make an application for an aquifer (Aboriginal community development) access licence only if the share component of the proposed access licence is no greater than 50 ML/year.
- (4) A person may make an application for a domestic and stock (conveyance) access licence for delivering water to be used for domestic consumption and stock watering only if, in the Minister's opinion, the water taken under the access licence is being conveyed through an inefficient water distribution system.
- (5) The Minister may only grant an aquifer (Aboriginal cultural) access licence for the taking of water by an Aboriginal person or Aboriginal community for any personal, domestic or communal purpose, including drinking, food preparation, washing, manufacturing traditional artefacts, watering domestic gardens, cultural teaching, hunting, fishing, gathering and for recreational, cultural and ceremonial purposes.

Note. *Aboriginal person* is defined in the Dictionary.

Part 8 Operation of water allocation accounts

Notes.

- 1 Section 85 of the Act provides for the keeping of water allocation accounts for access licences. The provisions in this Part restrict the water that may be taken under, or assigned from, an access licence over a specified period of time, and the unused water allocations in water allocation accounts that may be carried over from one water year to the next. These restrictions are in addition to any other limits on access licences for the taking or assignment of water. It is an offence under section 60C of the Act to take water under an access licence for which there is no or insufficient water allocation.
- 2 The provisions in this Part apply to the following persons:
 - (a) the Minister in managing water allocation accounts,
 - (b) the access licence holder, as required by mandatory conditions imposed on the access licence under Part 11.

34 Water allocation account debiting

- (1) For the purposes of this Plan, a *water account debit* means any water allocation that is taken, assigned under section 71T of the Act, or otherwise debited or withdrawn from a water allocation account.
- (2) For domestic and stock access licences, domestic and stock (conveyance) access licences and local water utility access licences, the maximum water account debit in a water year must not exceed the following:
 - (a) the sum of water allocations credited to the water allocation account for the access licence from available water determinations in that water year,
 - (b) plus any water allocations assigned to the water allocation account for the access licence under section 71T of the Act in that water year,
 - (c) plus any water allocations re-credited to the water allocation account for the access licence in accordance with section 76 of the Act in that water year.
- (3) For aquifer access licences, the maximum water account debit in a water year must not exceed the following:
 - (a) 1.3 ML per unit share of the access licence share component or, if applicable, the lower volume made in accordance with clause 27,
 - (b) plus any water allocations assigned to the water allocation account for the access licence under section 71T of the Act in that water year,
 - (c) plus any water allocations re-credited to the water allocation account for the access licence in accordance with section 76 of the Act in that water year.

35 Limits on carryover

- (1) For a domestic and stock access licence, a domestic and stock (conveyance) access licence or a local water utility access licence, water allocations remaining in the water allocation account cannot be carried over from one water year to the next water year.
- (2) For an aquifer access licence, water allocations remaining in the water allocation account are to be carried over from one water year to the next water year, up to a maximum of 0.6 ML per unit share of the access licence share component.

Part 9 Rules for water supply work approvals

Note. This Part is made in accordance with section 95 (3) of the Act.

36 General

- (1) A reference in this Part to a water supply work being located within a specified distance includes a reference to a water supply work that is proposed to be located within a specified distance.
- (2) In addition to the matters listed in section 97 (2) of the Act, the Minister must not grant a water supply work approval unless satisfied that adequate arrangements are in place to ensure that there will be:
 - (a) no more than a minimal detrimental effect on the ability of a person to take water using an existing approved water supply work and any associated access licences, and
 - (b) no more than minimal harm to public health and safety or to a groundwater-dependent culturally significant area, and
 - (c) no more than a minimal detrimental effect on groundwater levels and pressure at the border of New South Wales and Queensland or South Australia.
- (3) Subclause (2) (c) does not apply if the Minister has consulted with and considered views of the respective state government Minister.
- (4) The Minister must not amend a water supply work approval unless satisfied of the matters listed in subclause (2) and section 97 (2) of the Act.

Notes.

New approvals

- 1 Division 2 of Part 3 of Chapter 3 of the Act sets out the process for applications for, and granting of, approvals.
- 2 Section 97 (2) of the Act provides that the Minister may only grant a water supply work approval if satisfied that adequate arrangements are in place to ensure that no more than minimal harm will be done to any water source, or its dependent ecosystems, as a consequence of the construction or use of the proposed water supply work.
- 3 Section 96 (b) of the Act specifies that the Minister must take into account any matters the Minister considers relevant in determining an application for a water supply work approval. Under section 92 (5), the Minister may require an applicant to provide any additional information the Minister considers relevant to determining the application. This may include, for example, hydrogeological studies, hydrogeochemical studies or ecological studies.

Amendment of approvals

- 4 Section 107 of the Act provides for the amendment of approvals.

Conditions of approvals

- 5 The Minister may grant a water supply work approval subject to conditions, as provided in sections 95 and 100 of the Act. The Minister may also, under section 102 of the Act, impose or vary conditions on a water supply work approval at any time as the Minister thinks fit. These conditions may limit the volume or rate of extraction from a water supply work.

Other limits on volumes or rates of extraction

- 6 The Minister may also limit the volume or rate of extraction from existing water supply works in the following ways:
- (a) for all water supply works within a specified area, by an order made under section 324 of the Act,
 - (b) for existing water supply works used solely for domestic and stock rights and harvestable rights, by an order made under section 331 of the Act.

Provisions in this Part

- 7 This Part specifies provisions in addition to those in the Act about when, and how, the Minister may grant or amend a water supply work approval.

37 Rules to minimise interference between water supply works

- (1) A water supply work approval must not be granted or amended in the Eastern Recharge Groundwater Source or the Southern Recharge Groundwater Source if the water supply work is located within 200 metres of a water supply work that is:
 - (a) located on another landholding and authorised to take water solely for basic landholder rights from the same groundwater source, or
 - (b) located on another landholding and nominated by another access licence, other than a local water utility access licence.
- (2) A water supply work approval must not be granted or amended in the Central Groundwater Source, the Surat Groundwater Source or the Warrego Groundwater Source if the water supply work is located within 500 metres of a water supply work that is:
 - (a) located on another landholding and authorised to take water solely for basic landholder rights from the same groundwater source, or
 - (b) located on another landholding and nominated by another access licence, other than a local water utility access licence.
- (3) A water supply work approval must not be granted or amended if the water supply work is located within:
 - (a) 200 metres of the boundary of the landholding on which the water supply work is located, unless the owner of the landholding adjoining the boundary has provided consent in writing,

- (b) 1,000 metres of a water supply work that is nominated by a local water utility access licence or a major utility access licence authorised to take water from the same groundwater source, unless the holder of the local water utility access licence or major utility access licence has provided consent in writing,
 - (c) 400 metres of a Government monitoring or observation bore.
Note. *Government monitoring or observation bore* is defined in the Dictionary.
- (4) The location restrictions specified in subclauses (1) – (3) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied of any of the following:
- (a) the water supply work is used solely for basic landholder rights,
Note. Rules for water supply work approvals used solely for basic landholder rights are specified in clause 41.
 - (b) the water supply work is a replacement groundwater work,
Note. *Replacement groundwater work* is defined in the Dictionary.
 - (c) the water supply work is used solely for the purpose of monitoring, environmental remediation activities or emergency services,
 - (d) the location of the water supply work at a lesser distance than that specified in subclause (1) would result in no more than a minimal detrimental effect on the ability of a person to take water using an existing approved water supply work and any associated access licences.

38 Rules for water supply works located near contamination sources

- (1) A water supply work approval must not be granted or amended if, in the Minister's opinion, the water supply work is located:
- (a) within 500 metres of a contamination source listed in Schedule 1, or
 - (b) within 250 metres of the edge of a plume associated with a contamination source listed in Schedule 1, or
 - (c) between 250 metres and 500 metres from the edge of a plume associated with a contamination source listed in Schedule 1, unless the Minister is satisfied that no change in groundwater level will occur within 250 metres of that plume as a result of the location of that water supply work.

- (2) The location restrictions specified in subclause (1) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied of any of the following:
 - (a) the location of the water supply work is adequate to protect the groundwater source, the environment and public health and safety,
 - (b) the water supply work is for the purpose of monitoring, environmental remediation activities or emergency services.
- (3) A water supply work approval for a water supply work located within 250 metres of an on-site sewage disposal system may only be granted or amended in the Eastern Recharge Groundwater Source and Southern Recharge Groundwater Source if the water supply work is:
 - (a) constructed with cement grout in the borehole annulus to a minimum depth of 20 metres from the ground surface, and
Note. *Borehole annulus* is defined in the Dictionary.
 - (b) in the Minister's opinion, located at a sufficient distance from the on-site sewage disposal system to prevent migration of septic contamination in the aquifer.
- (4) The Minister may modify the depth requirement in subclause (3) (a) if satisfied of any of the following:
 - (a) adequate arrangements are in place to protect the groundwater source, the environment and public health and safety,
 - (b) the water supply work is for the purpose of monitoring or environmental remediation activities.

39 Rules for water supply works located near high priority groundwater-dependent ecosystems

- (1) A water supply work approval must not be granted or amended in the Eastern Recharge Groundwater Source and Southern Recharge Groundwater Source if, in the Minister's opinion, the water supply work is located within any of the following:
 - (a) 40 metres of the top of the high bank of a river,
Note. *Top of the high bank of a river* is defined in the Dictionary.

- (b) 1,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2 if the water supply work is:
 - (i) nominated by an access licence, other than a local water utility access licence, and
 - (ii) authorised to take up to and including 20 ML/year,
 - (c) 5,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2 if the water supply work is:
 - (i) nominated by an access licence, other than a local water utility access licence, and
 - (ii) authorised to take over 20 ML/year,
 - (d) 5,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2 if the water supply work is nominated by a local water utility access licence,
 - (e) 200 metres of any other high priority groundwater-dependent ecosystem shown on the High Priority Groundwater-Dependent Ecosystem Map.
- (2) A water supply work approval must not be granted or amended in the Central Groundwater Source, Surat Groundwater Source and Warrego Groundwater Source if, in the Minister's opinion, the water supply work is located within any of the following:
- (a) 40 metres of the top of the high bank of a river,
 - (b) 50,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2.
- (3) The location restrictions specified in subclauses (1) and (2) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied of any of the following:
- (a) the water supply work is used solely for basic landholder rights,
 - (b) the water supply work is a replacement groundwater work,
 - (c) the water supply work is used solely for the purpose of monitoring, environmental remediation activities or emergency services,

- (d) the location of the water supply work at a lesser distance than that specified in subclauses (1) and (2) would result in no more than minimal harm to any high priority groundwater-dependent ecosystem shown on the High Priority Groundwater-Dependent Ecosystem Map or identified in Schedule 2.

Note. Rules for water supply works used solely for basic landholder rights are specified in clause 41.

- (4) The location restriction in subclause (1) (e) does not apply unless a high probability of groundwater dependence has been confirmed by the Department for the relevant ecosystem.

40 Rules for water supply works located near groundwater-dependent culturally significant areas

- (1) A water supply work approval must not be granted or amended in the Eastern Recharge Groundwater Source and Southern Recharge Groundwater Source if, in the Minister's opinion, the water supply work is located within 200 metres of a groundwater-dependent culturally significant area.

Note. Groundwater-dependent culturally significant areas may be identified during the term of this Plan. Aboriginal people may also identify culturally significant areas when applications for new or amended water supply works are advertised. Potential groundwater-dependent culturally significant areas will be considered in the assessment of any application for a water supply work approval within the area of this Plan.

- (2) A water supply work approval must not be granted or amended in the Central Groundwater Source, Surat Groundwater Source and Warrego Groundwater Source if, in the Minister's opinion, the water supply work is located within 50,000 metres of a groundwater-dependent culturally significant area.
- (3) The location restrictions specified in subclauses (1) and (2) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied of any of the following:
- (a) the water supply work is used solely for basic landholder rights,
 - (b) the water supply work is a replacement groundwater work,
 - (c) the water supply work is used solely for the purpose of monitoring, environmental remediation activities or emergency services,
 - (d) the location of the water supply work at a lesser distance would result in no more than a minimal detrimental effect on any groundwater-dependent culturally significant area.

Note. Rules for water supply works used solely for basic landholder rights are specified in clause 41.

41 Rules for water supply works used solely for basic landholder rights

- (1) A water supply work approval for a water supply work used solely for basic landholder rights must not be granted or amended in the Eastern Recharge Groundwater Source or the Southern Recharge Groundwater Source if the water supply work is located within 200 metres of a water supply work that is:
 - (a) located on another landholding and authorised to take water solely for basic landholder rights from the same groundwater source, or
 - (b) located on another landholding and nominated by another access licence, other than a local water utility access licence.
- (2) A water supply work approval for a water supply work used solely for basic landholder rights must not be granted or amended in the Central Groundwater Source, the Surat Groundwater Source or the Warrego Groundwater Source if the water supply work is located within 500 metres of a water supply work that is:
 - (a) located on another landholding and authorised to take water solely for basic landholder rights from the same groundwater source, or
 - (b) located on another landholding and nominated by another access licence, other than a local water utility access licence.
- (3) A water supply work approval for a water supply work used solely for basic landholder rights must not be granted or amended if, in the Minister's opinion, the water supply work is located within any of the following:
 - (a) 200 metres of the boundary of the landholding on which the water supply work is located, unless the owner of the landholding adjoining the boundary has provided consent in writing,
 - (b) 1,000 metres of a water supply work that is nominated by a local water utility access licence or a major utility access licence authorised to take water from the same groundwater source, unless the holder of the local water utility access licence or major utility access licence has provided consent in writing,
 - (c) 400 metres of a Government monitoring or observation bore.
 - (d) 40 metres of the top of the high bank of a river,

- (e) 1,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2, if the water supply work is located in the Eastern Recharge Groundwater Source or Southern Recharge Groundwater Source,
 - (f) 50,000 metres of any of the high priority groundwater-dependent ecosystems identified in Schedule 2, if the water supply work is located in the Central Groundwater Source, Surat Groundwater Source or Warrego Groundwater Source,
 - (g) 100 metres of any other high priority groundwater-dependent ecosystem shown on the High Priority Groundwater-Dependent Ecosystem Map but only if a high probability of groundwater dependence has been confirmed by the Department for the relevant ecosystem,
 - (h) 100 metres of a groundwater-dependent culturally significant area, if the water supply work is located in the Eastern Recharge Groundwater Source or Southern Recharge Groundwater Source,
 - (i) 50,000 metres of a groundwater-dependent culturally significant area, if the water supply work is located in the Central Groundwater Source, Surat Groundwater Source or Warrego Groundwater Source.
- (4) The location restrictions specified in subclauses (1) – (3) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied that the water supply work is a replacement groundwater work.
- (5) The location restrictions specified in subclauses (3) (e) - (g) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied that the location of the water supply work at a lesser distance would result in no more than minimal harm to any high priority groundwater-dependent ecosystem shown on the High Priority Groundwater-Dependent Ecosystem Map or identified in Schedule 2.
- (6) The location restrictions specified in subclause (3) (h) and (i) do not apply to the granting or amending of a water supply work approval if the Minister is satisfied that the location of the water supply work at a lesser distance would result in no more than a minimal detrimental effect on any groundwater-dependent culturally significant area.

42 Replacement groundwater works

- (1) For the purposes of this Plan, **replacement groundwater work** means a water supply work that:
- (a) will replace an existing water supply work that is authorised by a water supply work approval, and
 - (b) is to be constructed to extract water:
 - (i) from the same groundwater source as the existing water supply work, and
 - (ii) from the same depth as the existing water supply work, and
 - (c) is to be located:
 - (i) within 20 metres of the existing water supply work, and
 - (ii) if the existing water supply work is located within 40 metres of the top of the high bank of a river, no closer to that high bank of a river, and
 - (d) will not have a greater internal diameter or excavation footprint than the existing water supply work, except where the internal diameter of the existing water supply work is:
 - (i) no longer manufactured, in which case the internal diameter is to be no greater than 120% of the internal diameter of the existing water supply work it replaces, or
 - (ii) less than 100 millimetres, in which case the internal diameter is to be no more than 100 millimetres.

Note. *Internal diameter* and *excavation footprint* are defined in the Dictionary.

- (2) The Minister may alter the depth and location requirements in subclauses (1) (b) (ii), (1) (c) (i) and (1) (d) on a case by case basis if satisfied that doing so will result in:
- (a) no greater detrimental effect on a groundwater source, a high priority groundwater-dependent ecosystem, public health and safety, or a groundwater-dependent culturally significant area, and
 - (b) no more than a minimal detrimental effect on the ability of a person to take water using an existing approved water supply work and on any associated access licences.

Part 10 Access licence dealing rules

Notes.

- 1 Access licence dealings in the groundwater sources are subject to the provisions of the Act, the regulations, any access licence dealing principles established under section 71Z of the Act and the access licence dealing rules established under this Part.
- 2 At the commencement of this Plan the *Access Licence Dealing Principles Order 2004* applies. The access licence dealing principles prevail over the access licence dealing rules in this Plan to the extent of any inconsistency, as provided under section 71Z (3) of the Act.
- 3 An application for a dealing may be refused, or conditions imposed on an access licence or water supply work approval at the time of a dealing, to give effect to the provisions of this Plan.

43 Conversion of access licence to new category dealings

Dealings under section 71O of the Act are prohibited.

44 Assignment of rights dealings

A dealing under section 71Q of the Act is prohibited if it involves an assignment of rights:

- (a) to an access licence in the Central Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of water taken under domestic and stock rights and native title rights in the Central Groundwater Source to exceed:
 - (i) 5,193 ML/year, plus
 - (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
- (b) to an access licence in the Surat Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of water taken under domestic and stock rights and native title rights in the Surat Groundwater Source to exceed:
 - (i) 43,446 ML/year, plus
 - (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
- (c) to an access licence in the Warrego Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of water taken under domestic and stock rights and native title rights in the Warrego Groundwater Source to exceed:

- (i) 8,816 ML/year, plus
- (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
- (d) from an access licence in one of the following groundwater sources to another access licence in another groundwater source:
 - (i) the Eastern Recharge Groundwater Source,
 - (ii) the Southern Recharge Groundwater Source, or
- (e) from an access licence in another groundwater source to an access licence in one of the following groundwater sources:
 - (i) the Eastern Recharge Groundwater Source,
 - (ii) the Southern Recharge Groundwater Source.

45 Amendment of share component dealings (change of water source)

- (1) Dealings under section 71R of the Act are prohibited if the dealing involves any of the following:
 - (a) the cancellation of an access licence with a share component specifying one of the groundwater sources in order to grant an access licence with a share component that does not specify one of the groundwater sources,
 - (b) the granting of an access licence with a share component that specifies one of the groundwater sources following the cancellation of an access licence with a share component that does not specify one of the groundwater sources,
 - (c) the granting of an access licence in the Central Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of water taken under domestic and stock rights and native title rights in the Central Groundwater Source to exceed:
 - (i) 5,193 ML/year, plus
 - (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
 - (d) the granting of an access licence in the Surat Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of

water taken under domestic and stock rights and native title rights in the Surat Groundwater Source to exceed:

- (i) 43,446 ML/year, plus
 - (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
- (e) the granting of an access licence in the Warrego Groundwater Source if it would cause the sum of the share components of all access licences plus the volume of water taken under domestic and stock rights and native title rights in the Warrego Groundwater Source to exceed:
- (i) 8,816 ML/year, plus
 - (ii) 30% of the water savings made under cap and pipe projects undertaken after the commencement of this Plan, as determined by the Minister, or
- (f) the granting or cancellation of an access licence with a share component that specifies one of the following groundwater sources:
- (i) the Eastern Recharge Groundwater Source,
 - (ii) the Southern Recharge Groundwater Source.
- (2) Dealings under section 71R of the Act are only permitted if the share component of the new access licence is equal to the share component of the cancelled access licence.

46 Assignment of water allocations dealings

Dealings under section 71T of the Act between access licences in different groundwater sources are prohibited unless they are between access licences in two of the following groundwater sources:

- (a) the Central Groundwater Source,
- (b) the Surat Groundwater Source,
- (c) the Warrego Groundwater Source.

47 Interstate access licence transfer and assignment of water allocations dealings

- (1) Dealings under section 71U of the Act are prohibited unless administrative arrangements have been put in place by NSW and the other State or Territory and the

interstate transfer of access licence is to be made in accordance with these arrangements.

- (2) Dealings under section 71V of the Act are prohibited unless administrative arrangements have been put in place by NSW and the other State or Territory and the interstate assignment of water allocations is to be made in accordance with these arrangements.

Note. As at the commencement of this Plan, administrative arrangements are not in place between New South Wales and other States or Territories. New South Wales will, in collaboration with the relevant States or Territories, consider introducing a cross border trading framework, if and when demand increases to a level that justifies the investment in administrative resources.

48 Nomination of water supply works dealings

- (1) A dealing under section 71W of the Act is prohibited if it involves an access licence being amended to nominate a water supply work located in a different groundwater source to that specified in the share component of the access licence.
- (2) A dealing under section 71W of the Act that involves an access licence in the groundwater sources being amended to nominate a specified extraction point in an interstate water tagging zone is prohibited unless it is in accordance with administrative arrangements agreed to, and implemented by, NSW and the other State or Territory.

Part 11 Mandatory conditions

Note. Mandatory conditions relating to metering equipment and recording of information are imposed by the *Water Management (General) Regulation 2018*. Clauses in this Plan that provide for mandatory conditions to be imposed in relation to metering and logbooks apply only until the roll out of the metering and reporting mandatory conditions that are prescribed in Part 10 and Part 11 of the *Water Management (General) Regulation 2018*.

Division 1 General

49 General

- (1) For the purposes of this Part a requirement to notify the Minister in writing will only be satisfied by writing to the email address for enquiries on the Department's website.
- (2) In this Part an *operational meter* means an operational meter that complies with Australian Standard AS 4747, *Meters for non-urban water supply*, as updated or replaced from time to time.

Division 2 Access licences

Note. This Division is made in accordance with sections 17 (c) and 66 of the Act.

50 General conditions

Each access licence must have mandatory conditions to give effect to the following:

- (a) the water taken under the access licence must not exceed the maximum water account debit permitted under clause 34,
- (b) upon becoming aware of a breach of any condition of the access licence, the licence holder must:
 - (i) notify the Minister as soon as practicable, and
 - (ii) if the notification under subparagraph (i) is not in writing, confirm this notification in writing within seven days of becoming aware of the breach,
- (c) any other condition required to implement the provisions of this Plan.

51 Record keeping conditions

- (1) Each access licence must have mandatory conditions to give effect to the following:

- (a) the licence holder must record the following information in a logbook each time that water is taken using a water supply work that does not have both an operational meter (as referred to in clause 49 (2)) and an operational data logger:
 - (i) the date and the start and end time during which water was taken under the licence,
 - (ii) the volume of water taken on that date,
 - (iii) the water supply work approval number of the water supply work used to take the water on that date,
 - (iv) the purposes for which the water was taken on that date,
 - (v) the volume of water taken in a water year compared with the water account debit permitted under clause 34 for the licence,
- (b) the licence holder must retain the information required to be recorded in the logbook for five years from the date to which that information relates.

Note. *Logbook* is defined in the Dictionary.

- (2) If an access licence with a nominated water supply work is subject to a mandatory condition imposed by Part 10 or Part 11 of the *Water Management (General) Regulation 2018* relating to the recording or reporting of water that is taken by the work, this clause ceases to have effect in relation to the work on the day on which the condition applies to the licence.
- (3) This clause is taken to be repealed on the day on which the temporary exemption from the mandatory metering equipment condition ceases to apply to the groundwater sources in accordance with clause 230 (1) of the *Water Management (General) Regulation 2018*.

Notes.

- 1 **Mandatory metering equipment condition** is defined in clause 228 of the *Water Management (General) Regulation 2018*.
- 2 The *Water Management (General) Regulation 2018* will impose a mandatory condition requiring record keeping on access licences and approvals by 1 December 2021.

Division 3 Water supply work approvals

Note. This Division is made in accordance with sections 17 (c) and 100 of the Act.

52 General conditions

- (1) Water supply work approvals must have mandatory conditions to give effect to:
 - (a) the clauses set out in this Division, and
 - (b) any other condition required to implement the provisions of this Plan.
- (2) A water supply work approved for the purpose of monitoring, an environmental remediation activity or emergency services must be used only for that purpose.
- (3) If the holder of a water supply work approval is the same person as the holder of the access licence under which water is proposed to be taken, it is not necessary to maintain two separate logbooks and all of the required information can be kept in the one logbook.
- (4) Upon becoming aware of a breach of any condition of the approval, the approval holder must:
 - (a) notify the Minister as soon as practicable, and
 - (b) if the notification under paragraph (a) was not in writing, confirm this notification in writing within seven days of becoming aware of the breach.

53 Metering conditions

- (1) This clause applies to water supply works used to take water under an access licence.
- (2) The approval holder must install and maintain metering equipment of a type and standard and meet criteria specified by the Minister.
- (3) The approval holder must ensure each of the following:
 - (a) the metering equipment accurately measures and records the flow of all water taken through each water supply work,
 - (b) the metering equipment is operated and maintained in a proper and efficient manner at all times,
 - (c) compliance with any other requirements as to the type, standard or other criteria for metering equipment as directed by the Minister.

Note. The Minister may also direct a landholder or person to install, replace or properly maintain metering equipment under section 326 of the Act.
- (4) If an approval for a water supply work is subject to a mandatory metering equipment condition in relation to the work, this clause ceases to have effect in relation to the work on the day on which the condition applies to the approval.

- (5) This clause is taken to be repealed on the day on which the temporary exemption from the mandatory metering equipment condition ceases to apply to the groundwater sources in accordance with clause 230 (1) of the *Water Management (General) Regulation 2018*.

Note. Clause 230 of the *Water Management (General) Regulation 2018* provides that the mandatory metering equipment condition applies to new works required to have a meter from 1 April 2019, and to other access licences and approvals in the groundwater sources from 1 December 2021.

54 Record keeping conditions

- (1) This clause does not apply to a water supply work approval if the work is used for the sole purpose of taking water under basic landholder rights.
- (2) The approval holder must:
- (a) record the following information in a logbook whenever the water supply work does not have both an operational meter (as referred to in clause 49 (2)) and an operational data logger:
 - (i) the date and the start and end time during which water was taken using the water supply work,
 - (ii) the volume of water taken on that date,
 - (iii) the access licence under which water was taken on that date or, if water was taken under some other authority, the authority under which water was taken,
 - (iv) the purposes for which the water was taken on that date,
 - (v) details of any cropping carried out using the water taken through the water supply work including the type of crop, area cropped and dates of planting and harvesting,
 - (vi) if metering equipment has been installed for use in connection with the water supply work and is operational, the meter reading before each time water is taken,
 - (vii) if metering equipment has not been installed for use in connection with the water supply work, or has been installed but is not operational, details of all pumping activities for the water supply work including pump running hours, pump power usage or pump fuel usage, pump start and stop times and pump capacity per unit of time, and

- (b) retain the information recorded in the logbook for five years from the date to which that information relates.
- (3) If an approval for a water supply work is subject to a mandatory condition imposed by Part 10 or Part 11 of the *Water Management (General) Regulation 2018* relating to the recording or reporting of water that is taken by the work, this clause ceases to have effect in relation to the work on the day on which the condition applies to the approval.
- (4) This clause is taken to be repealed on the day on which the temporary exemption from the mandatory metering equipment condition ceases to apply to the groundwater sources in accordance with clause 230 (1) of the *Water Management (General) Regulation 2018*.

Note. The *Water Management (General) Regulation 2018* will impose a mandatory condition requiring record keeping on access licences and approvals by 1 December 2021.

55 Water supply work construction conditions

- (1) The approval holder must ensure that the water supply work is constructed in such a way that ensures the following:
 - (a) the water supply work is situated in the location specified in the application for the water supply work,
 - (b) water is able to be taken through the water supply work only from the groundwater source specified in the share component of the access licence that nominates the water supply work,
 - (c) the water supply work is sealed off from all other water sources,
 - (d) all flowing water supply works are fitted with headworks in such a way as to enable the control of water flow,
Note. *Flowing water supply works* is defined in the Dictionary.
 - (e) construction of the water supply work complies with the construction standards for that type of bore prescribed in the *Minimum Construction Requirements for Water Bores in Australia*,
Note. *Minimum Construction Requirements for Water Bores in Australia* is defined in the Dictionary.
 - (f) construction and use of the water supply work prevents contamination of the aquifer and between aquifers,

- (g) construction and use of the water supply work prevents the flow of saline water between aquifers.
- (2) If contaminated water is encountered during the construction of the water supply work, the approval holder must do the following:
 - (a) notify the Minister within 48 hours of becoming aware of the contaminated water,
 - (b) take all reasonable steps to minimise contamination and environmental harm,
 - (c) ensure that the contaminated water is sealed off by inserting casing to a depth sufficient to exclude the contaminated water from the water supply work,
 - (d) place an impermeable seal in the borehole annulus when and as directed by the Minister,
 - (e) comply with any other written requirements specified by the Minister, which may include a requirement to provide a report in a specified form detailing the quality of any water obtained using the water supply work.
 - (3) Subclause (2) does not apply to a water supply work constructed for the purpose of monitoring or remediating contaminated water.
 - (4) The approval holder must, within 60 days of completion of the construction of the water supply work, or within 60 days after the issue of the water supply work approval if the approval is for the amendment of an existing water supply work, submit the details of the water supply work to the Minister in a form approved by the Minister.
 - (5) The approval holder must ensure:
 - (a) the construction of the water supply work is completed within three years of the approval being granted, and
 - (b) the water supply work is not used unless construction is completed within three years of the approval being granted.
 - (6) Each water supply work approval for a replacement groundwater work must impose conditions which give effect to clause 42 (1) (b) - (d).
 - (7) A water supply work with headworks installed to control artesian flow must be maintained to ensure those headworks are operational and in the Minister's opinion there is minimal loss of water.

Note. Subclause (7) applies to new and existing works.

56 Water quality condition

If directed by the Minister by notice in writing, the approval holder must provide a report in the form specified in the notice detailing the quality of any water obtained using the water supply work, within the timeframe (if any) specified in the written notice.

Notes.

- 1 An approval holder is responsible for monitoring water quality from the water supply work to ensure it is suitable for its intended purpose for the duration of the approval.
- 2 Inherent water quality and land use activities may make the water in some areas unsuitable for use. Water from the groundwater sources should not be used without first being tested and, if necessary, appropriately treated to ensure it is fit for purpose. Such testing and treatment is the responsibility of the water user.

57 Water supply work decommissioning condition

- (1) A water supply work that is no longer intended to be used must be decommissioned in accordance with this clause.
- (2) The approval holder must notify the Minister in writing of any intention to decommission the water supply work at least 60 days before commencing decommissioning. The notice must include a work plan for decommissioning in accordance with the *Minimum Construction Requirements for Water Bores in Australia*.
- (3) The approval holder must comply with any notice from the Minister received within 60 days of the notice referred to in subclause (2) stating that the water supply work:
 - (a) must not be decommissioned, or
 - (b) must be decommissioned in accordance with the requirements specified in the notice.
- (4) In decommissioning the water supply work, the approval holder must comply with the work plan referred to in subclause (2) or requirements referred to in subclause (3) (b)
- (5) Within 60 days of the water supply work being decommissioned, the approval holder must notify the Minister in writing that the water supply work has been decommissioned and provide the name of the driller who decommissioned the work.

Part 12 Amendment of this Plan

Notes.

- 1 This Part sets out amendments authorised by this Plan.
- 2 For the purposes of section 87 of the Act, the initial period for the groundwater sources expired on 1 July 2020.

58 General

For the purposes of section 45 (1) (b) of the Act, this Part provides for when this Plan may be amended and any such amendments are taken to be authorised by this Plan.

59 Amendments relating to Part 1

Part 1 may be amended to do any of the following:

- (a) apply this Plan to new or additional groundwater sources or water management areas (including part thereof), or modify (including to amend the boundaries) or remove an existing groundwater source or water management area (including part thereof) from this Plan,
- (b) add, remove or modify a management zone, including the groundwater sources to which a management zone applies and the boundaries of such a zone,
- (c) amend the Plan Map,
- (d) amend the High Priority Groundwater-Dependent Ecosystem Map.

60 Amendments relating to limits to the availability of water

This Plan may be amended to give effect to savings made under cap and pipe projects.

61 Amendments relating to compliance with limits and the operation of water allocation accounts

- (1) This Plan may be amended to reduce the amount of water allocations permitted to be carried over from one water year to the next water year and the maximum water account debit for aquifer access licences.
- (2) Any reduction under subclause (1) is subject to the maximum water account debit not being reduced to less than 1 ML per unit share of the access licence share component:
 - (a) plus any water allocations assigned to the water allocation account for the access licence under section 71T of the Act in that water year,

- (b) plus any water allocations re-credited to the water allocation account for the access licence in accordance with section 76 of the Act in that water year.

62 Amendments relating to the granting of access licences

This Plan may be amended to establish, modify or remove provisions for the granting of the following access licences:

- (a) aquifer (Aboriginal community development) access licences,
- (b) domestic and stock (conveyance) access licences.

63 Amendments relating to mandatory conditions

This Plan may be amended with respect to mandatory conditions to specify different standards or requirements for the construction or decommissioning of water supply works.

64 Dictionary

The Dictionary may be amended to add, modify or remove a definition.

65 Schedules

- (1) Schedule 1 may be amended to add or remove a contamination source.
- (2) Schedule 2 may be amended to add or remove a high priority groundwater-dependent ecosystem.

66 Other amendments (general)

- (1) This Plan may be amended to include provisions for the following:
 - (a) managed aquifer recharge,
Note. Managed aquifer recharge schemes involve taking water such as recycled water or urban stormwater, treating it and then storing it in aquifers under controlled conditions. This water can then be extracted at a later time.
 - (b) the interception of water before it reaches a stream or aquifer by plantations or other means,
 - (c) the management of salt interception schemes,
 - (d) the management of aquifer interference activities, including the granting of aquifer interference approvals,
 - (e) water return flows, as referred to in Division 5 of Part 2 of Chapter 3 of the Act,
 - (f) the protection of groundwater-dependent culturally significant areas.

- (2) This Plan may be amended to give effect to, or in connection with, a determination of native title under the *Native Title Act 1993* of the Commonwealth.
- (3) This Plan may be amended to do any of the following for the protection of water-dependent Aboriginal cultural assets:
 - (a) identify water-dependent Aboriginal cultural assets,
 - (b) establish rules for the granting and amending of water supply work approvals,
 - (c) establish dealing rules.
- (4) An amendment authorised by this Plan is taken to include any consequential amendments required to be made to this Plan to give effect to that particular amendment.

Note. For example, if Part 1 is amended to add a new management zone, this may require amendments to other parts of this Plan to include provisions for that management zone.
- (5) Consequential amendments may be made to this Plan as a result of an amendment to the Act or regulations.

Dictionary

Aboriginal person has the same meaning as it has in the *Aboriginal Land Rights Act 1983*.

beneficial use category is a water quality categorisation based on salinity which is defined in the NSW Great Artesian Basin Shallow Water Quality Management Plan, GW13 Water Resource Plan Area.

borehole annulus means the space between the bore casing and the wall of the borehole.

cap and pipe project means a program of works that results in artesian flows from a water supply work to be controlled by headworks, including the complete closing off of all flows, and the installation of a water tight distribution system from the water supply work.

excavation footprint means the authorised dimensions of an unlined excavation constructed for the purposes of water supply only.

flowing water supply work means a water supply work through which groundwater is able to rise above the distribution outlet of the work under the natural pressure of the aquifer.

Government monitoring or observation bore means a bore owned or operated by or on behalf of the Minister, the Ministerial Corporation, the Department or WaterNSW and used for observation or monitoring purposes.

groundwater-dependent culturally significant area means an area determined by the Minister to be a groundwater-dependent culturally significant area.

groundwater-dependent ecosystem is an ecosystem that has its species composition and natural ecological processes wholly or partially determined by groundwater.

internal diameter means the diameter of the inside of the casing of a water bore.

logbook, in relation to an access licence or water supply work approval, means a record in the manner and form approved by the Minister that is notified on the Department's website.

Minimum Construction Requirements for Water Bores in Australia means the document published by the National Uniform Drillers Licensing Committee entitled *Minimum Construction Requirements for Water Bores in Australia*, as published from time to time.

replacement groundwater work has the meaning given by clause 42.

structural damage to an aquifer includes any permanent compaction of sediments within the groundwater sources, resulting from depressurisation or dewatering.

top of the high bank of a river means, in relation to the location of a water supply work, the top of the highest bank on the side of the river where the work is located, unless otherwise determined by the Minister.

total dissolved solids is a measure of the combined total of dissolved substances in water, which includes mostly inorganic minerals and salts with small amounts of organic matter such as bacteria.

unconsolidated alluvial sediments are sediments that are not bound or hardened by mineral cement, pressure, or thermal alteration of the grains and include gravel, sand, silt and clay.

water account debit has the meaning given by clause 34.

weighted average unit price means the total price of all units sold divided by the number of units sold.

Schedule 1 Contamination sources

(clause 38)

A contamination source in the groundwater sources is any of the following:

- (a) any site that has been declared to be significantly contaminated land under the *Contaminated Land Management Act 1997*,
- (b) any site that has been notified to the Environment Protection Authority under section 60 of the *Contaminated Land Management Act 1997*,
- (c) any site that is or has been the subject of an activity listed in Table 1 of the contaminated land planning guidelines published under the *Environmental Planning and Assessment Act 1979* from time to time.

Schedule 2 High priority groundwater-dependent ecosystems (clause 4, 39 and 41)

Table A— High priority geothermal spring groundwater dependent ecosystems

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
High priority groundwater dependent ecosystem	Complex name	Supergroup	Latitude - Decimal degrees (South)	Longitude - Decimal degrees (East)	Groundwater Source
Bingewilpa	Bingewilpa	Bourke	-30.0310	142.6600	Central Groundwater Source
Boongunyarrah	Boongunyarra	Bourke	-29.4500	145.1000	Warrego Groundwater Source
Black	Boongunyarra	Bourke	-29.4528	145.1021	Warrego Groundwater Source
MotherNosey	Boongunyarra	Bourke	-29.4540	145.1014	Warrego Groundwater Source
Colless	Colless	Bourke	-29.4188	146.2112	Warrego Groundwater Source
Colless	Colless	Bourke	-29.4653	146.2819	Warrego Groundwater Source
Coolabah	Coolabah	Bogan River	-30.8329	146.9495	Surat Groundwater Source
Coolabah	Coolabah	Bogan River	-30.8329	146.9492	Surat Groundwater Source
Coolabah	Coolabah	Bogan River	-30.8335	146.9493	Surat Groundwater Source
Coolabah	Coolabah	Bogan River	-30.8338	146.9499	Surat Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5325	145.2570	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5303	145.2617	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5312	145.2592	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5318	145.2580	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5318	145.2606	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5319	145.2553	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5320	145.2576	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5289	145.2624	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5323	145.2590	Warrego Groundwater Source

Coonbilly	Coonbilly	Bourke	-29.5324	145.2555	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5324	145.2557	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5325	145.2551	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5326	145.2566	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5327	145.2559	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5328	145.2568	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5330	145.2570	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5334	145.2565	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5345	145.2493	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5351	145.2476	Warrego Groundwater Source
Coonbilly	Coonbilly	Bourke	-29.5365	145.2491	Warrego Groundwater Source
Cuddie	Cuddie	Bogan River	-30.3486	147.3434	Surat Groundwater Source
Cumborah	Cumborah	Bogan River	-29.7412	147.7644	Surat Groundwater Source
Cumborah	Cumborah	Bogan River	-29.7412	147.7646	Surat Groundwater Source
Cumborah	Cumborah	Bogan River	-29.7411	147.7647	Surat Groundwater Source
Cumborah	Cumborah	Bogan River	-29.7413	147.7644	Surat Groundwater Source
Deadman	Deadman	Non-GAB	-28.9347	146.9332	Warrego Groundwater Source
Bernards	Deadman	Non-GAB	-28.9690	146.9088	Warrego Groundwater Source
Tin	Deadman	Non-GAB	-28.9781	146.8917	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0593	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0593	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0592	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0592	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0592	Warrego Groundwater Source

LakeEliza	Eliza	Bourke	-29.4236	145.0590	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4235	145.0594	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4235	145.0596	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4236	145.0593	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4237	145.0591	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4238	145.0593	Warrego Groundwater Source
LakeEliza	Eliza	Bourke	-29.4238	145.0594	Warrego Groundwater Source
Gurrera	Gerara	Bourke	-29.2483	146.4011	Warrego Groundwater Source
Old Gerara	Gerara	Bourke	-29.2679	146.3832	Warrego Groundwater Source
Goonery	Goonery	Bourke	-30.0238	145.1099	Warrego Groundwater Source
Goonery	Goonery	Bourke	-30.0238	145.1099	Warrego Groundwater Source
Goonery	Goonery	Bourke	-30.0238	145.1099	Warrego Groundwater Source
Goonery	Goonery	Bourke	-30.0238	145.1099	Warrego Groundwater Source
Goonery	Goonery	Bourke	-30.0238	145.1099	Warrego Groundwater Source
Gooroomero	Gooroomero	Bourke	-29.0958	146.6540	Warrego Groundwater Source
Gooroomero	Gooroomero	Bourke	-29.0908	146.6492	Warrego Groundwater Source
Gooroomero	Gooroomero	Non-GAB	-29.1040	146.6200	Warrego Groundwater Source
Hawkes Spring	Hawkes	Bourke	-30.3984	143.8354	Warrego Groundwater Source
Jacombe	Jacombe	Bourke	-29.2170	144.7175	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4823	145.7902	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4833	145.7893	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4836	145.7893	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4841	145.7898	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4846	145.7899	Warrego Groundwater Source
Kullyna	Kullyna	Bourke	-29.4846	145.7894	Warrego Groundwater Source

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Kullyna	Kullyna	Bourke	-29.5077	145.7604	Warrego Groundwater Source
Warrego Mud Spring	Kullyna	Bourke	-29.4697	145.7577	Warrego Groundwater Source
Yarranongany	Kullyna	Bourke	-29.4771	145.7373	Warrego Groundwater Source
Lila	Lila	Bourke	-29.5634	146.0687	Warrego Groundwater Source
Lila	Lila	Bourke	-29.5636	146.0670	Warrego Groundwater Source
Lila	Lila	Bourke	-29.5591	146.0678	Warrego Groundwater Source
Lila	Lila	Bourke	-29.5635	146.0671	Warrego Groundwater Source
Log	Log	Bourke	-28.9491	146.8874	Warrego Groundwater Source
Mascot	Mascot	Bourke	-29.3972	145.3215	Warrego Groundwater Source
MooroonowaNorth	Mooronowa	Bourke	-29.1367	145.2519	Warrego Groundwater Source
MooroonowaNorth	Mooronowa	Bourke	-29.1370	145.2517	Warrego Groundwater Source
MooroonowaNorth	Mooronowa	Bourke	-29.1372	145.2516	Warrego Groundwater Source
MooroonowaNorth	Mooronowa	Bourke	-29.1374	145.2516	Warrego Groundwater Source
MooroonowaNorth	Mooronowa	Bourke	-29.1372	145.2512	Warrego Groundwater Source
Tharnowanni	Mooronowa	Bourke	-29.1333	145.2666	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1508	145.2280	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1511	145.2326	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1512	145.2276	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1512	145.2272	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1516	145.2262	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1518	145.2284	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1523	145.2280	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1525	145.2273	Warrego Groundwater Source
MooroonowaSouth	Mooronowa	Bourke	-29.1526	145.2338	Warrego Groundwater Source

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MooroonowaSouth	Mooronowa	Bourke	-29.1527	145.2255	Warrego Groundwater Source
Mud	Mud	Bourke	-29.1317	144.6344	Warrego Groundwater Source
Mulyeo	Mulyeo	Bourke	-30.6320	144.4220	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5244	145.8339	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5249	145.8338	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5249	145.8336	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5254	145.8329	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5254	145.8332	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5256	145.8325	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5261	145.8331	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5264	145.8329	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5269	145.8325	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5277	145.8301	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5277	145.8284	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5278	145.8282	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5279	145.8298	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5280	145.8294	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5287	145.8313	Warrego Groundwater Source
Native Dog	Native Dog	Bourke	-29.5294	145.8310	Warrego Groundwater Source
Nulty	Nulty	Bourke	-29.4182	146.1152	Warrego Groundwater Source
Old Morton Plains	Old Morton Plains	Bourke	-29.0834	146.7499	Warrego Groundwater Source
Peery West	Peery	Bourke	-30.7329	143.5751	Central Groundwater Source
Peery West	Peery	Bourke	-30.7197	143.5691	Central Groundwater Source
Peery West	Peery	Bourke	-30.7198	143.5695	Central Groundwater Source

Peery West	Peery	Bourke	-30.7199	143.5681	Central Groundwater Source
Peery West	Peery	Bourke	-30.7199	143.5697	Central Groundwater Source
Peery West	Peery	Bourke	-30.7199	143.5696	Central Groundwater Source
Peery West	Peery	Bourke	-30.7199	143.5694	Central Groundwater Source
Peery West	Peery	Bourke	-30.7199	143.5680	Central Groundwater Source
Peery West	Peery	Bourke	-30.7200	143.5700	Central Groundwater Source
Peery West	Peery	Bourke	-30.7200	143.5688	Central Groundwater Source
Peery West	Peery	Bourke	-30.7201	143.5694	Central Groundwater Source
Peery West	Peery	Bourke	-30.7201	143.5671	Central Groundwater Source
Peery West	Peery	Bourke	-30.7201	143.5693	Central Groundwater Source
Peery West	Peery	Bourke	-30.7201	143.5675	Central Groundwater Source
Peery West	Peery	Bourke	-30.7202	143.5695	Central Groundwater Source
Peery West	Peery	Bourke	-30.7202	143.5694	Central Groundwater Source
Peery West	Peery	Bourke	-30.7203	143.5687	Central Groundwater Source
Peery West	Peery	Bourke	-30.7203	143.5700	Central Groundwater Source
Peery West	Peery	Bourke	-30.7204	143.5683	Central Groundwater Source
Peery West	Peery	Bourke	-30.7204	143.5703	Central Groundwater Source
Peery West	Peery	Bourke	-30.7205	143.5707	Central Groundwater Source
Peery West	Peery	Bourke	-30.7206	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7207	143.5705	Central Groundwater Source
Peery West	Peery	Bourke	-30.7208	143.5696	Central Groundwater Source
Peery West	Peery	Bourke	-30.7208	143.5700	Central Groundwater Source
Peery West	Peery	Bourke	-30.7208	143.5664	Central Groundwater Source
Peery West	Peery	Bourke	-30.7209	143.5697	Central Groundwater Source

Peery West	Peery	Bourke	-30.7210	143.5697	Central Groundwater Source
Peery West	Peery	Bourke	-30.7210	143.5707	Central Groundwater Source
Peery West	Peery	Bourke	-30.7210	143.5716	Central Groundwater Source
Peery West	Peery	Bourke	-30.7211	143.5704	Central Groundwater Source
Peery West	Peery	Bourke	-30.7211	143.5697	Central Groundwater Source
Peery West	Peery	Bourke	-30.7212	143.5710	Central Groundwater Source
Peery West	Peery	Bourke	-30.7213	143.5697	Central Groundwater Source
Peery West	Peery	Bourke	-30.7213	143.5676	Central Groundwater Source
Peery West	Peery	Bourke	-30.7214	143.5710	Central Groundwater Source
Peery West	Peery	Bourke	-30.7214	143.5678	Central Groundwater Source
Peery West	Peery	Bourke	-30.7215	143.5713	Central Groundwater Source
Peery West	Peery	Bourke	-30.7215	143.5710	Central Groundwater Source
Peery West	Peery	Bourke	-30.7216	143.5679	Central Groundwater Source
Peery West	Peery	Bourke	-30.7217	143.5712	Central Groundwater Source
Peery West	Peery	Bourke	-30.7217	143.5710	Central Groundwater Source
Peery West	Peery	Bourke	-30.7217	143.5711	Central Groundwater Source
Peery West	Peery	Bourke	-30.7218	143.5680	Central Groundwater Source
Peery West	Peery	Bourke	-30.7219	143.5680	Central Groundwater Source
Peery West	Peery	Bourke	-30.7219	143.5681	Central Groundwater Source
Peery West	Peery	Bourke	-30.7220	143.5683	Central Groundwater Source
Peery West	Peery	Bourke	-30.7220	143.5682	Central Groundwater Source
Peery West	Peery	Bourke	-30.7220	143.5682	Central Groundwater Source
Peery West	Peery	Bourke	-30.7220	143.5729	Central Groundwater Source
Peery West	Peery	Bourke	-30.7220	143.5685	Central Groundwater Source

Peery West	Peery	Bourke	-30.7221	143.5724	Central Groundwater Source
Peery West	Peery	Bourke	-30.7221	143.5683	Central Groundwater Source
Peery West	Peery	Bourke	-30.7221	143.5724	Central Groundwater Source
Peery West	Peery	Bourke	-30.7222	143.5687	Central Groundwater Source
Peery West	Peery	Bourke	-30.7225	143.5713	Central Groundwater Source
Peery West	Peery	Bourke	-30.7231	143.5710	Central Groundwater Source
Peery West	Peery	Bourke	-30.7232	143.5707	Central Groundwater Source
Peery West	Peery	Bourke	-30.7232	143.5697	Central Groundwater Source
Peery West	Peery	Bourke	-30.7233	143.5688	Central Groundwater Source
Peery West	Peery	Bourke	-30.7234	143.5713	Central Groundwater Source
Peery West	Peery	Bourke	-30.7236	143.5708	Central Groundwater Source
Peery West	Peery	Bourke	-30.7237	143.5699	Central Groundwater Source
Peery West	Peery	Bourke	-30.7237	143.5701	Central Groundwater Source
Peery West	Peery	Bourke	-30.7237	143.5699	Central Groundwater Source
Peery West	Peery	Bourke	-30.7238	143.5675	Central Groundwater Source
Peery West	Peery	Bourke	-30.7238	143.5711	Central Groundwater Source
Peery West	Peery	Bourke	-30.7239	143.5699	Central Groundwater Source
Peery West	Peery	Bourke	-30.7239	143.5677	Central Groundwater Source
Peery West	Peery	Bourke	-30.7241	143.5679	Central Groundwater Source
Peery West	Peery	Bourke	-30.7241	143.5679	Central Groundwater Source
Peery West	Peery	Bourke	-30.7242	143.5703	Central Groundwater Source
Peery West	Peery	Bourke	-30.7245	143.5718	Central Groundwater Source
Peery West	Peery	Bourke	-30.7246	143.5717	Central Groundwater Source
Peery West	Peery	Bourke	-30.7246	143.5702	Central Groundwater Source

Peery West	Peery	Bourke	-30.7247	143.5705	Central Groundwater Source
Peery West	Peery	Bourke	-30.7247	143.5700	Central Groundwater Source
Peery West	Peery	Bourke	-30.7247	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7248	143.5720	Central Groundwater Source
Peery West	Peery	Bourke	-30.7248	143.5720	Central Groundwater Source
Peery West	Peery	Bourke	-30.7250	143.5714	Central Groundwater Source
Peery West	Peery	Bourke	-30.7251	143.5687	Central Groundwater Source
Peery West	Peery	Bourke	-30.7252	143.5701	Central Groundwater Source
Peery West	Peery	Bourke	-30.7252	143.5701	Central Groundwater Source
Peery West	Peery	Bourke	-30.7253	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7253	143.5703	Central Groundwater Source
Peery West	Peery	Bourke	-30.7253	143.5683	Central Groundwater Source
Peery West	Peery	Bourke	-30.7254	143.5706	Central Groundwater Source
Peery West	Peery	Bourke	-30.7255	143.5683	Central Groundwater Source
Peery West	Peery	Bourke	-30.7256	143.5684	Central Groundwater Source
Peery West	Peery	Bourke	-30.7257	143.5716	Central Groundwater Source
Peery West	Peery	Bourke	-30.7257	143.5709	Central Groundwater Source
Peery West	Peery	Bourke	-30.7258	143.5711	Central Groundwater Source
Peery West	Peery	Bourke	-30.7258	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7259	143.5714	Central Groundwater Source
Peery West	Peery	Bourke	-30.7259	143.5714	Central Groundwater Source
Peery West	Peery	Bourke	-30.7259	143.5721	Central Groundwater Source
Peery West	Peery	Bourke	-30.7260	143.5715	Central Groundwater Source
Peery West	Peery	Bourke	-30.7260	143.5716	Central Groundwater Source

Peery West	Peery	Bourke	-30.7260	143.5693	Central Groundwater Source
Peery West	Peery	Bourke	-30.7261	143.5720	Central Groundwater Source
Peery West	Peery	Bourke	-30.7262	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7262	143.5721	Central Groundwater Source
Peery West	Peery	Bourke	-30.7263	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7264	143.5720	Central Groundwater Source
Peery West	Peery	Bourke	-30.7265	143.5729	Central Groundwater Source
Peery West	Peery	Bourke	-30.7266	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7266	143.5721	Central Groundwater Source
Peery West	Peery	Bourke	-30.7266	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7266	143.5719	Central Groundwater Source
Peery West	Peery	Bourke	-30.7267	143.5701	Central Groundwater Source
Peery West	Peery	Bourke	-30.7267	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5735	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5733	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5702	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5736	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7268	143.5734	Central Groundwater Source
Peery West	Peery	Bourke	-30.7269	143.5735	Central Groundwater Source
Peery West	Peery	Bourke	-30.7269	143.5701	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5701	Central Groundwater Source

Peery West	Peery	Bourke	-30.7270	143.5703	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5738	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5739	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5705	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5715	Central Groundwater Source
Peery West	Peery	Bourke	-30.7270	143.5728	Central Groundwater Source
Peery West	Peery	Bourke	-30.7271	143.5722	Central Groundwater Source
Peery West	Peery	Bourke	-30.7271	143.5719	Central Groundwater Source
Peery West	Peery	Bourke	-30.7272	143.5723	Central Groundwater Source
Peery West	Peery	Bourke	-30.7272	143.5739	Central Groundwater Source
Peery West	Peery	Bourke	-30.7272	143.5722	Central Groundwater Source
Peery West	Peery	Bourke	-30.7272	143.5741	Central Groundwater Source
Peery West	Peery	Bourke	-30.7273	143.5723	Central Groundwater Source
Peery West	Peery	Bourke	-30.7273	143.5727	Central Groundwater Source
Peery West	Peery	Bourke	-30.7273	143.5732	Central Groundwater Source
Peery West	Peery	Bourke	-30.7273	143.5727	Central Groundwater Source
Peery West	Peery	Bourke	-30.7275	143.5728	Central Groundwater Source
Peery West	Peery	Bourke	-30.7275	143.5729	Central Groundwater Source
Peery West	Peery	Bourke	-30.7275	143.5728	Central Groundwater Source
Peery West	Peery	Bourke	-30.7275	143.5723	Central Groundwater Source
Peery West	Peery	Bourke	-30.7275	143.5731	Central Groundwater Source
Peery West	Peery	Bourke	-30.7277	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7277	143.5723	Central Groundwater Source
Peery West	Peery	Bourke	-30.7277	143.5724	Central Groundwater Source

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Peery West	Peery	Bourke	-30.7278	143.5742	Central Groundwater Source
Peery West	Peery	Bourke	-30.7279	143.5728	Central Groundwater Source
Peery East 9	Peery	Bourke	-30.7279	143.6130	Central Groundwater Source
Peery West	Peery	Bourke	-30.7279	143.5728	Central Groundwater Source
Peery West	Peery	Bourke	-30.7280	143.5743	Central Groundwater Source
Peery West	Peery	Bourke	-30.7282	143.5751	Central Groundwater Source
Peery West	Peery	Bourke	-30.7282	143.5727	Central Groundwater Source
Peery West	Peery	Bourke	-30.7283	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7283	143.5724	Central Groundwater Source
Peery West	Peery	Bourke	-30.7284	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7285	143.5731	Central Groundwater Source
Peery West	Peery	Bourke	-30.7286	143.5733	Central Groundwater Source
Peery West	Peery	Bourke	-30.7287	143.5733	Central Groundwater Source
Peery West	Peery	Bourke	-30.7287	143.5733	Central Groundwater Source
Peery West	Peery	Bourke	-30.7287	143.5738	Central Groundwater Source
Peery West	Peery	Bourke	-30.7288	143.5744	Central Groundwater Source
Peery West	Peery	Bourke	-30.7289	143.5743	Central Groundwater Source
Peery East 3	Peery	Bourke	-30.7291	143.6118	Central Groundwater Source
Peery East 2	Peery	Bourke	-30.7291	143.6118	Central Groundwater Source
Peery East 7	Peery	Bourke	-30.7291	143.6121	Central Groundwater Source
Peery East 5	Peery	Bourke	-30.7292	143.6119	Central Groundwater Source
Peery East 1	Peery	Bourke	-30.7292	143.6118	Central Groundwater Source
Peery East 4	Peery	Bourke	-30.7292	143.6119	Central Groundwater Source
Peery East 6	Peery	Bourke	-30.7292	143.6119	Central Groundwater Source

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Peery West	Peery	Bourke	-30.7293	143.5734	Central Groundwater Source
Peery West	Peery	Bourke	-30.7293	143.5736	Central Groundwater Source
Peery West	Peery	Bourke	-30.7294	143.5739	Central Groundwater Source
Peery West	Peery	Bourke	-30.7294	143.5735	Central Groundwater Source
Peery West	Peery	Bourke	-30.7295	143.5737	Central Groundwater Source
Peery East 8	Peery	Bourke	-30.7296	143.6117	Central Groundwater Source
Peery West	Peery	Bourke	-30.7297	143.5716	Central Groundwater Source
Peery West	Peery	Bourke	-30.7297	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5726	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5727	Central Groundwater Source
Peery West	Peery	Bourke	-30.7299	143.5721	Central Groundwater Source
Peery West	Peery	Bourke	-30.7300	143.5728	Central Groundwater Source
Peery West	Peery	Bourke	-30.7300	143.5721	Central Groundwater Source
Peery West	Peery	Bourke	-30.7301	143.5727	Central Groundwater Source
Peery West	Peery	Bourke	-30.7301	143.5725	Central Groundwater Source
Peery West	Peery	Bourke	-30.7302	143.5724	Central Groundwater Source
Picnic Sandhill Mud	Picnic Sandhill Mud	Bourke	-29.1333	144.6700	Warrego Groundwater Source
Pullamonga	Pullamonga	Bourke	-29.5147	145.2780	Warrego Groundwater Source
Sandy	Sandy	Bourke	-29.1700	146.5800	Warrego Groundwater Source
Scrubber	Scrubber	Bourke	-29.5095	146.1469	Warrego Groundwater Source
Scrubber	Scrubber	Bourke	-29.5096	146.1470	Warrego Groundwater Source

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Sweetwater	Sweetwater	Bourke	-29.4308	145.7323	Warrego Groundwater Source
Tanawanta Mud	Tanawanta Mud	Bourke	-29.3801	145.3405	Warrego Groundwater Source
Tanawanta Mud	Tanawanta Mud	Bourke	-29.3935	145.3047	Warrego Groundwater Source
Tanawanta Mud	Tanawanta Mud	Bourke	-29.3745	145.3375	Warrego Groundwater Source
Tanawanta Mud	Tanawanta Mud	Bourke	-29.3811	145.3425	Warrego Groundwater Source
Tanawanta Mud	Tanawanta Mud	Bourke	-29.3748	145.3371	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8488	146.7921	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8493	146.7909	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8496	146.7919	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8500	146.7917	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8501	146.7914	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8502	146.7913	Warrego Groundwater Source
Tego	Tego	Bourke	-28.8508	146.7921	Warrego Groundwater Source
Thooro	Thooro	Bourke	-29.3695	145.3755	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3962	145.3040	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3964	145.3033	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3970	145.3028	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3957	145.3057	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3957	145.3021	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3979	145.3043	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3978	145.3063	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3978	145.3230	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3988	145.3229	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3984	145.3227	Warrego Groundwater Source

Thooro Mud	Thooro Mud	Bourke	-29.3963	145.3207	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3969	145.3030	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3974	145.3064	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3975	145.3063	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3975	145.3080	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3969	145.3072	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3971	145.3081	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3944	145.3065	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3945	145.3072	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3931	145.3057	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3803	145.3406	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3961	145.3041	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3994	145.3216	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3984	145.3227	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3961	145.3039	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3995	145.3214	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3917	145.3041	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3918	145.3042	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3918	145.3044	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3924	145.3044	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3926	145.3048	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3937	145.3063	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3937	145.3048	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3948	145.3038	Warrego Groundwater Source

Thooro Mud	Thooro Mud	Bourke	-29.3953	145.3067	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3963	145.3207	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3966	145.3070	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3968	145.3029	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3974	145.3067	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3974	145.3077	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3976	145.3070	Warrego Groundwater Source
Thooro Mud	Thooro Mud	Bourke	-29.3977	145.3230	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7160	146.2843	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7162	146.2849	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7161	146.2837	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7166	146.2843	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7157	146.2846	Warrego Groundwater Source
Thully	Thully	Bourke	-29.7160	146.2849	Warrego Groundwater Source
Tooloomi	Tooloomi	Non-GAB	-29.1922	146.5875	Warrego Groundwater Source
Tooloomi	Tooloomi	Non-GAB	-29.1958	146.5808	Warrego Groundwater Source
Yotomi	Tooloomi	Non-GAB	-29.2014	146.5510	Warrego Groundwater Source
Toulby	Toulby	Bourke	-29.0193	146.9304	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9707	146.9251	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9708	146.9237	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9716	146.9255	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9728	146.9292	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9732	146.9262	Warrego Groundwater Source
Towry	Towry	Bourke	-28.9743	146.9268	Warrego Groundwater Source

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Towry	Towry	Bourke	-28.9746	146.9263	Warrego Groundwater Source
Tyngnyngias	Tyngnyngias	Bourke	-29.2317	144.7011	Warrego Groundwater Source
Wapweelah	Wapweela	Bourke	-29.2731	145.3510	Warrego Groundwater Source
Warroo	Warroo	Bourke	-29.0672	144.6337	Warrego Groundwater Source
Wee Wattah	Wee Wattah	Bourke	-30.7317	144.2435	Warrego Groundwater Source
Yantabangee	Yantabangee	Bourke	-30.6615	143.8270	Central Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3383	145.0029	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3382	145.0036	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3386	145.0040	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3389	145.0041	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3389	145.0040	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3390	145.0032	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3398	145.0034	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3400	145.0044	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3419	145.0054	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3417	145.0054	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3373	145.0030	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3329	145.0129	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3328	145.0130	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3332	145.0130	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3332	145.0132	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3388	145.0029	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3417	145.0053	Warrego Groundwater Source
Yantabulla	Yantabulla	Bourke	-29.3417	145.0053	Warrego Groundwater Source

Paralna	Youltoo	Bourke	-30.5250	143.1304	Central Groundwater Source
Youltoo	Youltoo	Bourke	-30.5772	143.1008	Central Groundwater Source
Youngerina	Youngerina	Bourke	-29.5246	145.1296	Warrego Groundwater Source
Youngerina	Youngerina	Bourke	-29.5421	145.1209	Warrego Groundwater Source
Youngerina	Youngerina	Bourke	-29.5435	145.1201	Warrego Groundwater Source
Youngerina	Youngerina	Bourke	-29.5437	145.1201	Warrego Groundwater Source
Youngerina	Youngerina	Bourke	-29.5441	145.1225	Warrego Groundwater Source
Youngerina	Youngerina	Bourke	-29.5442	145.1225	Warrego Groundwater Source

Table B—High priority spring groundwater dependent ecosystems

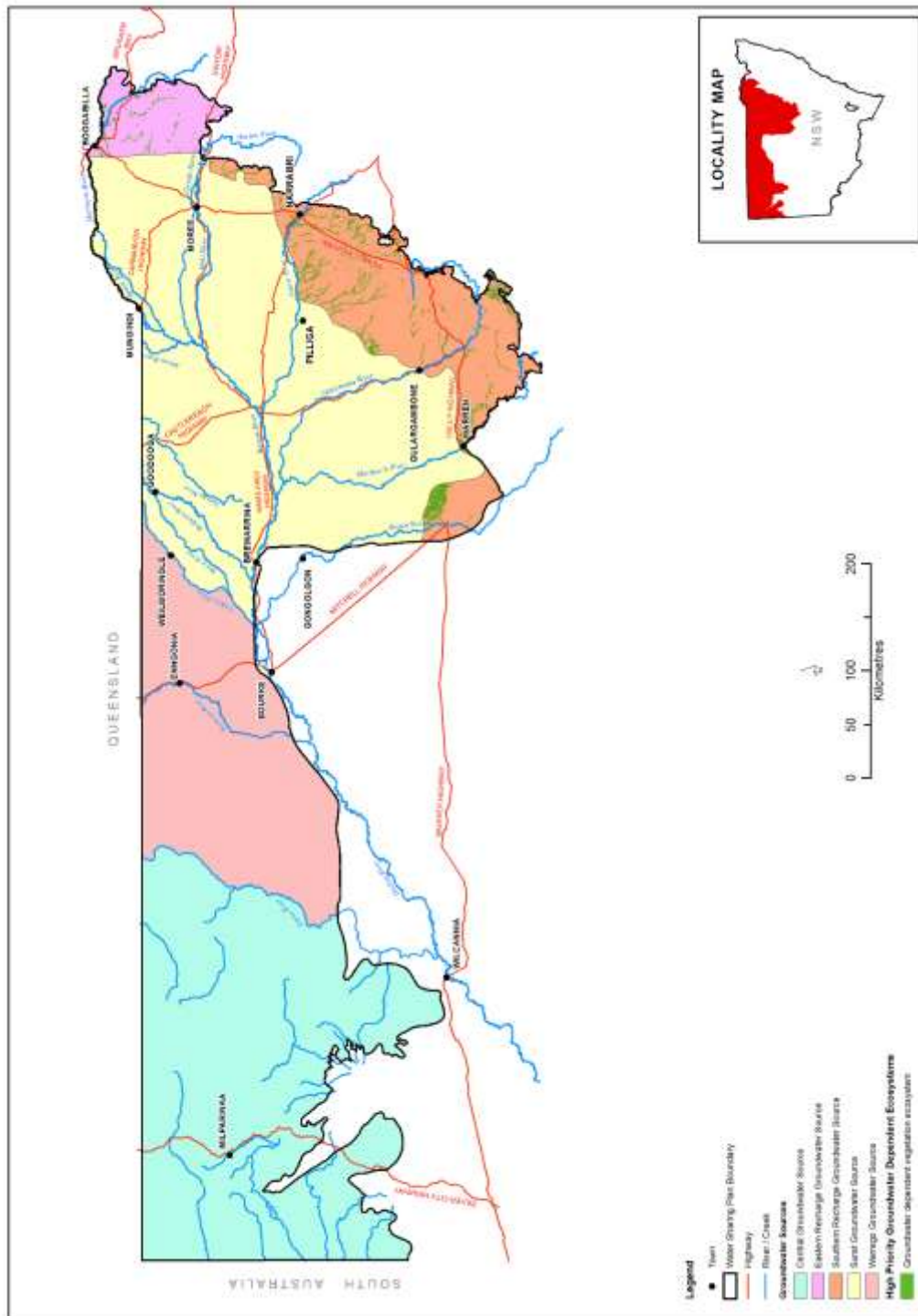
Column 1	Column 2	Column 3	Column 4
High priority groundwater dependent ecosystem	Latitude -Decimal degrees (South)	Longitude -Decimal degrees (East)	Groundwater Source
Lawlers Spring	-30.0817	150.0344	Southern Recharge
O'Connors Spring	-29.3983	150.8678	Eastern Recharge
Rocky Holes Springs	-29.3150	150.3678	Eastern Recharge
Ulungra Springs	-31.7150	149.1011	Southern Recharge
Wheoh Spring	-31.2150	149.0844	Southern Recharge
Wittenbra Springs	-31.0650	149.2011	Southern Recharge
Yearinan Springs	-31.1817	149.1844	Southern Recharge
Hassells Spring	-31.7483	149.0178	Southern Recharge
Gidgenboyne Spring	-31.7483	149.0178	Southern Recharge
Cookamobla Springs	-31.5150	149.3094	Southern Recharge
Dandry North Springs	-31.0317	149.2844	Southern Recharge
Dandry Springs	-31.1483	149.3178	Southern Recharge
Hardy Spring	-30.6650	149.8344	Southern Recharge
Eather Spring	-30.6817	149.8344	Southern Recharge
Garrawilla Spring	-31.1483	149.6344	Southern Recharge
Gora Spring	-31.0817	149.0678	Southern Recharge
Jackys Spring	-29.4483	150.4678	Eastern Recharge
Grattai Spring	-30.0983	150.0678	Southern Recharge
Hickeys Spring	-29.4483	150.5011	Eastern Recharge
Barnsby Springs	-29.9650	150.1678	Southern Recharge
Boggy Spring	-29.4483	150.4844	Eastern Recharge
Coxs Spring	-29.3650	150.6844	Eastern Recharge
Cucumber Springs	-29.3317	150.8844	Eastern Recharge

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Stump Spring	-29.4650	150.5011	Eastern Recharge
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Appendix 2 Overview of the High Priority Groundwater-Dependent Ecosystem Map (clauses 4, 39 and 41)

Overview of the *High Priority Groundwater-Dependent Ecosystem Map (GDE025_Verion 1)*,
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Appendix 3 Map of the High Priority Groundwater-Dependent Ecosystems identified in Schedule 2 (clauses 4, 39 and 41)

Map of the High Priority Groundwater-Dependent Ecosystems identified in Schedule 2

