

Victoria's North and Murray Index Table

Index Table to identify the content of Victoria's North and Murray Water Resource Plan

FOR ACCREDITATION		NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)
Part 1	Preliminary		
10.01	<p>1. This section sets out a simplified outline of this Chapter.</p> <p>2. This Chapter sets out requirements in relation to the following matters that a water resource plan must comply with in order for it to be accredited or adopted under Division 2 of Part 2 of the Act (item 11 of the table in subsection 22(1) of the Act):</p> <ul style="list-style-type: none"> (a) the identification of the water resource plan area and other matters (Part 2); (b) the incorporation, and application, of the long-term annual diversion limit for each SDL resource unit in the water resource plan area (Part 3); (c) the sustainable use and management of water resources of the water resource plan area within the long-term annual diversion limits (Part 4); (d) the regulation, for the purpose of managing Basin water resources, of interception activities with a significant impact (whether on an activity-by-activity basis or cumulatively) on those water resources (Part 5); (e) planning for environmental watering (Part 6); (f) water quality objectives for the water resource plan area (Part 7); (g) the circumstances in which tradeable water rights in relation to the water resource plan area may be traded, and the conditions applicable to such trades (Part 8); (h) the broad approaches to the way risks to the water resources of the water resource plan area should be addressed (Part 9); (i) information about measuring the water taken from the water resources of the water resource plan area and monitoring the water resources of the water resource plan area (Part 10); (j) reviews of the water resource plan and amendments of the plan arising from those reviews (Part 11); (k) the scientific information or models on which the water resource plan is to be based (Part 12); (l) planning for extreme events (Part 13); (m) Indigenous values and uses (Part 14). 	<p>This matter assists in the interpretation of Chapter 10 of the Basin Plan and does not contain a water resource plan requirement.</p> <p>n/a</p>	<p>Interpretation of text in Column 5 of Victoria's North and Murray Index Table:</p> <ul style="list-style-type: none"> 'Commonwealth Water Act' is reference to Water Act 2007 (Cth) for the purposes of this Index Table; 'Victorian Water Act' is reference to the <i>Water Act 1989</i> (Vic) for the purposes of this Index Table; 'Victoria's North and Murray Comprehensive Report' means the Comprehensive Report prepared to explain and outline the content of Victoria's North and Murray Water Resource Plan as referred to in Columns 3 and 5 of Victoria's North and Murray Water Resource Plan Index Table; 'Victoria's North and Murray Index Table' means this Index Table; 'Victoria's North and Murray Water Resource Plan' means the water resource plan prepared for the water resource plan area as defined in this Index Table in response to section 10.02(1) of the Basin Plan; 'Victoria's North and Murray water resource plan area' means the water resource plan areas defined in this Index Table in response to section 10.02(1) of the Basin Plan, which includes the Northern Victoria, Victorian Murray, and Goulburn-Murray water resource plan areas; 'Victoria's North (surface water) water resource plan area' means both the Northern Victoria water resource plan area (as described in section 3.05(d) of the Basin Plan) and the Victorian Murray water resource plan area (as described under section 3.05(m) of the Basin Plan); <p>In Column 5 of this Index Table references are made to:</p> <ul style="list-style-type: none"> • Chapters of Victoria's North and Murray Water Resource Plan Comprehensive Report to refer to one or more of the 15 components of that Report; • Reference to Sections with a capital "S" in Victoria's North and Murray Index Table in respect of Victoria's North and Murray Comprehensive Report to refer to sub-components of the Chapters of that Report; • Parts of Appendices to Victoria's North and Murray Water Resource Plan Comprehensive Report; • Chapters, Parts and sections of the Basin Plan; • sections of Acts of Parliament.

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Part 2	Identification of water resource plan area and other matters			
10.02(1)	A water resource plan must identify: (a) the water resource plan area; and (b) the water resources; to which it applies	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> Victoria's North and Murray Water Resource Plan applies to the following water resource plan areas and water resources: <ol style="list-style-type: none"> Northern Victoria water resource plan area and all surface water resources in that area as described under section 3.05(d) of the Basin Plan; and Victorian Murray water resource plan area and all surface water resources in that area as described under section 3.05(m) of the Basin Plan; and Goulburn-Murray water resource plan area and all groundwater resources beneath the area as described by 3.06(e) of the Basin Plan. Reference to Victoria's North and Murray Water Resource Plan is a reference to the Plan to be accredited under section 63 of the Water Act 2007 (Cth). Reference to Victoria's North (surface water) water resource plan area is a reference to both the Northern Victoria water resource plan area and the Victorian Murray water resource plan area as described above. 	n/a	This requirement is met as the accredited text in Column 3 of this row identifies the water resource plan area and the water resources to which Victoria's North and Murray Water Resource Plan applies. The descriptions of the water resources are the same as are prescribed at sections 3.05(d), 3.05(m) and 3.06(e) of the Basin Plan. See Chapter 2 of Victoria's North and Murray Comprehensive Report for the discussion of Victoria's North and Murray water resource plan areas. The version of the Basin Plan that is referred to throughout this water resource plan is that registered on the Federal Register of Legislative Instruments on 11 July 2018 with the reference F2018C00451.
10.02(2)	The water resource plan area must be one of the water resource plan areas described in Part 2 of Chapter 3 and must be identified using the same description of that area as is set out in that Part, with any variations permitted by section 3.04	<p>Victoria's North and Murray water resource plan area</p> <p>This matter assists in the interpretation of section 10.02(1) of the Basin Plan and does not contain a water resource plan requirement.</p>	n/a	
10.02(3)	The water resources must be those described in Part 2 of Chapter 3 as the water resources of the water resource plan area and must be identified using the same description of those water resources as it is set out in that Part.	<p>Victoria's North and Murray water resource plan area</p> <p>This matter assists in the interpretation of section 10.02(1) of the Basin Plan and does not contain a water resource plan requirement.</p>	n/a	

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10.03(1)	A water resource plan must identify: (a) each SDL resource unit in the water resource plan area (b) the water resources within each SDL resource unit.	<p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. For the purposes of section 10.03(1) of the Basin Plan all water resources in the following SDL resource units are identified in Victoria's North and Murray Water Resource Plan and the Northern Victoria water resource plan area in accordance with section 6.02 and Schedule 2 of the Basin Plan:</p> <ul style="list-style-type: none"> (a) Ovens (SS4) (b) Goulburn (SS6) (c) Broken (SS5) (d) Campaspe (SS7) (e) Loddon (SS8). <p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. For the purposes of section 10.03(1) of the Basin Plan all water resources in the following SDL resource units are identified in Victoria's North and Murray Water Resource Plan and the Victorian Murray water resource plan area in accordance with section 6.02 and Schedule 2 of the Basin Plan:</p> <ul style="list-style-type: none"> (a) Victorian Murray (SS2) (b) Kiewa (SS3). 	n/a
			n/a

This requirement is met as the accredited text in Column 3 identifies the SDL resource units within the water resource plan area as described in section 6.02 and Schedule 2 (surface water) of the Basin Plan. The water resource plan area is depicted in **Figure 1-1** of Victoria's North and Murray Comprehensive Report.

The relevant SDL resource units and water resources for the Northern Victoria water resource plan area and Victorian Murray water resource plan area are depicted in **Figure 2-1** of Victoria's North and Murray Comprehensive Report.

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		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. For the purposes of section 10.03(1) of the Basin Plan all water resources in the following SDL resource units are identified in the Goulburn-Murray (groundwater) water resource plan area in accordance with section 6.02 and Schedule 4 of the Basin Plan:</p> <p>(a) Goulburn-Murray: Shepparton Irrigation Region (GS8a) all groundwater in the Shepparton Irrigation Region Water Supply Protection Area to a depth of 25 metres below the land surface</p> <p>(b) Goulburn-Murray: Highlands (GS8b) all groundwater in the outcropping Palaeozoic rocks (or the in-situ weathered horizon where it is within 5 metres of the surface) from the land surface to 200 metres below the surface</p> <p>(c) Goulburn-Murray: Sedimentary Plain (GS8c) all groundwater from the land surface to 200 metres below the surface or 50 metres below the base of the Tertiary sediments, whichever is the deeper, excluding groundwater in Item 2;</p> <p>(d) Goulburn-Murray: deep (GS8d) all groundwater, excluding groundwater in items 2, 3 and 4.</p> <p>Note 1: Shepparton Irrigation Region Water Supply Protection Area has been revoked and is now the Shepparton Irrigation Region Groundwater Management Area.</p> <p>Note 2: References to items are references to items in Schedule 4 to the Basin Plan.</p>	n/a
10.03(2)	The SDL resource units must be those described in sections 6.02 and 6.03 and Schedules 2 and 4 as the SDL resource units within the water resource plan area, as applicable.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10.03(1) of the Basin Plan and does not contain a water resource plan requirement.	n/a
10.03(3)	The water resources within each SDL resource unit must be those described in sections 6.02 and 6.03, and Schedules 2 and 4	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10.03(1) of the Basin Plan and does not contain a water resource plan requirement.	n/a
10.04(1)	If a water resource plan is constituted by 2 or more instruments or texts, subsections (2) and (3) apply to it.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10.04(2) of the Basin Plan and does not contain a water resource plan requirement.	n/a
10.04(2)	The water resource plan must identify the instruments or texts that constitute the water resource plan.	Victoria's North and Murray water resource plan area Victoria's North and Murray Water Resource Plan is constituted by columns 1, 2, 3 and 4 of Victoria's North and Murray Index Table, Tables A and B attached to Victoria's North and Murray Index Table, and those parts of Victoria's North and Murray Comprehensive Report and its appendices identified in Column 3.	n/a
			<p>This requirement is met as the accredited text in Column 3 identifies the SDL resource units within the water resource plan area as described in section 6.03 and Schedule 4 (groundwater) of the Basin Plan. The Goulburn-Murray water resource plan area is depicted in Figure 1-1 for groundwater in Chapter 2 of Victoria's North and Murray Comprehensive Report.</p> <p>The relevant Victorian groundwater management areas (GMA), water supply protection areas (WSPA) and groundwater catchments (GC) within the Goulburn-Murray water resource plan area are depicted in Figure 2-4 in Chapter 2 of Victoria's North and Murray Comprehensive Report.</p>
			<p>This requirement is met as the text in Column 3 identifies the relevant text and instruments that constitute Victoria's North and Murray Water Resource Plan.</p>

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10.04(3)	If an instrument or text applies to only some of the water resources of the water resource plan area, the water resource plan must: <ul style="list-style-type: none"> (a) identify the water resources or the parts of the water resources to which the instrument or text applies; (b) include an indicative map of the water resources identified in paragraph (a) 	Victoria's North and Murray water resource plan area This matter is responded to in Column 3 of Victoria's North and Murray Index Table at each relevant water resource plan requirement.	n/a	This requirement is met as the text in Column 3, for each water resource plan requirement, identifies if accreditation text only applies to particular water resources rather than all water resources in Victoria's North and Murray water resource plan. Victoria's North and Murray water resource plan area is the area identified in response to section 10.02(1) of the Basin Plan including the relevant water resources identified in response to section 10.03(1) of the Basin Plan. A large portion of the accredited text applies across all of Victoria's North and Murray water resource plan area (surface water and groundwater) given that Victoria applies rules and policies state wide. Column 3 will identify if the response applies to either: <ul style="list-style-type: none"> • Victoria's North and Murray water resource plan area being the Northern Victoria water resource plan area (as described in section 3.05(d) of the Basin Plan), the Victorian Murray water resource plan area (as described under section 3.05(m) of the Basin Plan) and the Goulburn-Murray water resource plan area as described by 3.06(e) of the Basin Plan; or • Victoria's North (surface water) water resource plan area being both the Northern Victoria water resource plan area (as described in section 3.05(d) of the Basin Plan) and the Victorian Murray water resource plan area (as described under section 3.05(m) of the Basin Plan); or • Victorian Murray water resource plan area as described under section 3.05(m) of the Basin Plan; or • Northern Victoria water resource plan area as described in section 3.05(d) of the Basin Plan; or • Goulburn-Murray water resource plan area as described by 3.06(e) of the Basin Plan. The water resource plan areas and relevant water resources are identified in Figure 1-1 and outlined in Chapters 2 and 4 of Victoria's North and Murray Comprehensive Report.
10.04(4)(a)	A water resource plan must include a list that specifies: <ul style="list-style-type: none"> (a) each requirement set out in this Chapter (individually or by reference to a group of requirements); and 	Victoria's North and Murray water resource plan area Columns 1 and 2 of Victoria's North and Murray Index Table constitute a list of each requirement in Chapter 10 of the Basin Plan.	n/a	
10.04(4)(b)	A water resource plan must include a list that specifies: <ul style="list-style-type: none"> (b) the part of the plan that addresses each requirement (or group of requirements); and 	Victoria's North and Murray water resource plan area Column 3 of Victoria's North and Murray Index Table specifies the part of the plan that addresses each requirement	n/a	
10.04(4)(c)	A water resource plan must include a list that specifies: <ul style="list-style-type: none"> (c) the parts of the plan that will cease to have effect or are to be reviewed, and the times at which those parts will cease to have effect or are to be reviewed. 	Victoria's North and Murray water resource plan area Victoria's North and Murray Water Resource Plan, as constituted by Columns 1, 2, 3, and 4 of Victoria's North and Murray Index Table, will cease to have effect at the end of the accreditation period in accordance with section 64 of the <i>Water Act 2007</i> (Cth). Victoria's North and Murray Water Resource Plan will be reviewed if, at any time during its accreditation period, changes to the Victorian legislative or water resource management framework, are, in the Department's view, relevant to the Plan's consistency with the Basin Plan.	n/a	This requirement is met as the text explains when parts of Victoria's North and Murray Water Resource Plan will cease to have effect and when the Plan will need to be reviewed. As no State instruments have been included for accreditation there are no parts of Victoria's North and Murray Water Resource Plan that will expire during the accreditation period. Where changes are made within the State frameworks, reviews of Victoria's North and Murray Water Resource Plan will occur to ensure consistency with the Basin Plan and with State law. The Commonwealth Water Act identifies that in the case of inconsistency the water resource plan will override any State law. Furthermore, in accordance with sections 10.47 and 10.48 of the Basin Plan, Victoria's North and Murray Water Resource Plan contains a process for review.
10.04(5)	If a water resource plan is constituted by an instrument or text which contains additional material that is not part of the water resource plan, the water resource plan must identify that material.	Victoria's North and Murray water resource plan area Victoria's North and Murray Water Resource Plan does not include any instrument or text that is not identified in Column 3 of Victoria's North and Murray Index Table. Victoria's North and Murray Water Resource Plan does not include any content of Victoria's North and Murray Comprehensive Report that is not identified in Column 3 of Victoria's North and Murray Index Table.	n/a	This requirement is met by the text in Column 3 of this row as it explains that there is no additional instrument or text that forms a part of Victoria's North and Murray Water Resource Plan, other than what is identified in Column 3 of Victoria's North and Murray Index Table.
10.05(a)	A water resource plan must: <ul style="list-style-type: none"> (a) be prepared having regard to the management and use of any water resources which have a significant hydrological connection to the water resources of the water resource plan area. 	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	Victoria's North and Murray Water Resource Plan was prepared having regard to the management and use of water resources that have a significant hydrological connection to the water resources in the water resource plan area. This is described in response to section 10.05(b) of the Basin Plan.

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10.05(b)	A water resource plan must: (b) describe the way in which paragraph (a) was complied with.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> Victoria's North and Murray Water Resource Plan was prepared having regard to the management and use of water resources that have a significant hydrological connection to the water resources in the water resource plan area. For groundwater to surface water connections: <ol style="list-style-type: none"> the Goulburn-Murray: Shepparton Irrigation Region SDL resource unit is significantly connected to surface water in the Campaspe, Goulburn and Broken SDL resource units. the Goulburn-Murray: Sedimentary Plain SDL resource unit is significantly connected to surface water (in the Kiewa, Ovens, Goulburn, Broken, Campaspe and Loddon SDL resource units) except where it underlies the Shepparton Irrigation Region SDL resource unit (GS8a). In the Upper Ovens River Water Supply Protection Area where groundwater and surface water are highly connected, groundwater in the Goulburn-Murray: Sedimentary Plain SDL resource unit (GS8a) is managed under rules consistent with surface water. the Goulburn-Murray: Highlands SDL resource unit (GS8b) is significantly connected to surface water in the Victorian Murray, Kiewa, Ovens, Goulburn, Broken, Campaspe and Loddon SDL resource units. Typically, a 1:1 relationship is assumed, however there is a delayed response to pumping and the impact of taking groundwater from the Highlands SDL resource unit is extended over the year. Where groundwater and surface water is significantly hydrologically connected, where connection is local to regional but is not of a similar timing volume or reliability, consideration will be given to the need to cap the total available take from licensed groundwater use for the area location for construction of bores for both licensed and domestic and stock to prevent unacceptable drawdown in the water table at the connected feature, and for issuing licences to take to prevent unacceptable drawdown in the water table at the connected feature. 	n/a	<p>This requirement is met as the text in Column 3 of this row details how section 10.05(a) of the Basin Plan was complied with. The MDBA's Position Statement 2B states that a significant connection is where the water of one resource is physically able to move to the other resource and activities in one resource may have a material impact on the state or condition of the other.</p> <p>In assessing connectivity to support development of Victoria's North and Murray Water Resource Plan, Victoria determined connectivity in the following ways:</p> <ul style="list-style-type: none"> significant connections: There are clear connections between different resources and a high likelihood of impacts from the use of one resource on the other. For groundwater statutory management plans provide additional levels of management and include restrictions on trading to manage the potential for any material impact to be acceptable. For surface water bulk entitlements and trade rules describe how the resources are managed including restrictions and trade rules. local significant connections: A connection is significant but only to a small local area and there are no broad implications for the resource as a whole. For groundwater guidance on licensing for high value GDEs, statutory management plans provide additional levels of management including restrictions on trading to manage the potential for any material impact to be acceptable. For surface water bulk entitlements and trade rules describe how the resources are managed. medium level connections: Connections between resources exist to varying degrees but the current resource management framework and the Victorian Water Act provide sufficient management arrangements that are fit-for-purpose and appropriate to manage the potential for any material impact to be acceptable connections that are not significant: There is limited to no connection between resources, or activities in one resource are unlikely to have a material impact on the other and therefore no specific management strategies are required. <p>The Goulburn-Murray: deep SDL resource unit does not connect to surface water. Elsewhere the connection is variable depending on the presence of fractures. Where the groundwater and surface water are not significantly hydrologically connected, where connection is regional and not of a similar timing volume or reliability, consideration will be given to the need to cap the total available take from licensed groundwater use for the area location for construction of bores for both licensed and domestic and stock to prevent unacceptable drawdown in the water table at the connected feature, and for issuing licences to take to prevent unacceptable drawdown in the water table at the connected feature.</p> <p>Where groundwater and surface water are highly connected that is where connection is local and has a similar timing volume and reliability, consideration of connected management of licensed groundwater and surface water extraction will be considered, and to the need to cap the total available take from licensed use of both groundwater and surface water for the area.</p> <p>For connections in the Ovens see https://www.g-mwater.com.au/downloads/gmw/Groundwater/Upper_Ovens_WSPA_TATDOC_-3249685-v2-WATER_MANAGEMENT_PLAN_FOR_THE_UPPER_OVENS_RIVER_WSPA_-_FINAL_-_AUGUST_2011.pdf</p>

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		<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Victoria's North and Murray Water Resource Plan was prepared having regard to the management and use of water resources that have a significant hydrological connection to the water resources in the water resource plan area. The following significant connections have been identified between the Victorian Murray water resource plan area and the Northern Victoria water resource plan area: <ul style="list-style-type: none"> (a) the Ovens River, Broken River (via Broken Creek), Goulburn River, Campaspe River and Loddon River have a significant hydrological connection with the River Murray. These rivers are in the Northern Victoria water resource plan area, however connect through to the River Murray via the Victorian Murray water resource plan area. The connections in the River Murray relate to the NSW Murray and Lower Darling water resource plan area, and the South Australian River Murray water resource plan area; (b) the Goulburn River has a significant connection to the River Murray via the East Goulburn Main Channel which comes off the Goulburn River and diverts water into the Lower Broken Creek and the Murray Irrigation Area connecting the Northern Victoria water resource plan area to the Victorian Murray water resource plan area. Where surface water is significantly hydrologically connected from the Northern Victoria water resource plan area and the Victorian Murray water resource plan area into the River Murray the connected resources are primarily managed through the Murray-Darling Basin Agreement. Where surface water is significantly hydrologically connected within Victoria, bulk entitlements issued under the <i>Water Act 1989</i> (Vic) contain arrangements for the management of those resources. Rules relating to system management and in setting those rules consideration is given as to how water is taken by individual users from the system. 	n/a
			<p>Column 5 Explanatory material</p> <p>For further information regarding the operation of the River Murray and the Murray-Darling Basin Agreement see Section 4.21 and more specifically the southern connected basin in Section 4.2.4.1 of Victoria's North and Murray Comprehensive Report.</p> <p>Section 12.7.4 of Victoria's North and Murray Comprehensive Report also outlines how environmental watering is coordinated across the River Murray under the Murray-Darling Basin Agreement</p> <p>No additional connections have been identified specifically for the Victorian Murray water resource plan area other than the connections identified in response to Victoria's North (surface water) water resource plan area.</p> <p>There are no significant connections between the Wimmera-Mallee (surface water) water resource plan area and the Victorian Murray water resource plan area. The Wimmera-Mallee pipeline does connect between the Victorian Murray water resource plan area and the Wimmera-Mallee water resource plan area, however, water from the pipeline does not have a material impact on the state or condition of the Wimmera-Mallee Water Resource Plan area resources (including changes in surface or groundwater levels and pressures, quantity, timing of water availability or quality). For this reason, the connection was not identified as "significant" in the Wimmera-Mallee Water Resource Plan and will not be identified as significant in Victoria's North and Murray Water Resource Plan.</p> <p>Section 4.3.6 of Victoria's North and Murray Comprehensive Report outlines the significant connections:</p> <ul style="list-style-type: none"> • between Northern Victoria water resource plan area and other water resource plan areas (Section 4.3.6.1 of the Report); and • between SDL resource units within the Northern Victoria water resource plan area (Section 4.3.6.2 of the Report); and • between surface water and groundwater within the Northern Victoria water resource plan area (Section 4.3.6.3 of the Report). <p>Section 4.2.4 of Victoria's North and Murray Comprehensive Report outlines significant connections:</p> <ul style="list-style-type: none"> • between Victorian Murray water resource plan area and other water resource plan areas (Section 4.2.4.1 of the Report); and • between SDL resource units within the Victorian Murray water resource plan area (Section 4.2.4.2 of the Report); and • between surface water and groundwater within the Victorian Murray water resource plan area (Section 4.2.4.3 of the Report). <p>Significant groundwater connections are discussed in Section 4.4.6, Section 12.7 and Section 12.8.2 of Victoria's North and Murray Comprehensive Report.</p> <p>Column 5 of Victoria's North and Murray Index Table in respect of Part 4 of the Basin Plan provides discussion on groundwater dependent priority environmental assets and priority ecosystem functions. See also Section 12.7 and Section 12.8 of Victoria's North and Murray Comprehensive Report for further discussion on these matters.</p> <p>Column 5 of Victoria's North and Murray Index Table in respect of sections 10.27 and 10.39 of the Basin Plan also discusses connections between surface water and groundwater areas. See Section 12.7.4 and Section 7.4.2.10 of Victoria's North and Murray Comprehensive Report respectively for further discussion on connectivity in respect of those requirements.</p> <p>In respect of groundwater to groundwater connections and how Victoria's framework supports management of connected resources see Section 4.4.6 and Section 12.8 of Victoria's North and Murray Comprehensive Report for further discussion on groundwater connections.</p> <p>Surface water to surface water connections in the Victorian Murray water resource plan area are described in Section 4.2.4. Surface water to surface water connections in the Northern Victoria water resource plan area are described in Section 4.3.6.</p>

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		<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. In the Northern Victoria water resource plan area, the following resources have a significant hydrological connection:</p> <ol style="list-style-type: none"> the Broken River flows into the Goulburn River; the Goulburn River is connected to the Campaspe River and the Loddon River via the Waranga Western Channel; the Goulburn River (via the Waranga Western Channel) is connected to the Campaspe system (Lake Eppalock) via the Goldfields superpipe; the Goulburn system is connected to resources outside the Basin in Southern Victoria via an aqueduct transfer from Silver and Wallaby Creeks to Yan Yea Reservoir in the Melbourne headworks system; the Goulburn River is connected to resources outside the Basin in Southern Victoria (from the Goulburn River to Sugarloaf Reservoir in the Melbourne headworks system) via the North-South pipeline; the Goulburn River is connected to resources outside the Basin in Southern Victoria (from the Waranga Western Channel to White Swan Reservoir in the Ballarat urban water supply system) via the Goldfields Superpipe; the Campaspe River is connected to the Loddon River via the Waranga Western Channel; the Campaspe basin (Lake Eppalock) is connected to the Loddon basin via the Eppalock-Bendigo pipeline (to supply Bendigo); the Coliban River (Campaspe basin) is connected to the Loddon basin via the Coliban Main Channel (to supply Bendigo); the Campaspe system is connected to resources outside the Basin in Southern Victoria (from Lake Eppalock to White Swan Reservoir in the Ballarat urban water supply system) via the Goldfields Superpipe. <p>2. Where surface water is significantly hydrologically connected within Victoria, bulk entitlements issued under the <i>Water Act 1989</i> (Vic) contain arrangements for the management of those resources. In setting rules relating to system management consideration is given as to how and where water is taken by individual users from the system.</p>	n/a
			<p>In developing Victoria's North and Murray Water Resource Plan, consideration of the identified connections between surface water resources, between surface water and groundwater resources and between groundwater resources has informed the following:</p> <ul style="list-style-type: none"> assessment of possible current and future risks to the continued availability and condition of water resources in Victoria's North and Murray water resource plan area. The details of the risks identified are contained in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report. consideration of whether rules are necessary in response to Part 4 of Chapter 10 of Basin Plan and the identification of appropriate rules in response to sections 10.18, 10.19 and 10.20 of the Basin Plan the review and development of measures relating to responding to extreme events review of the circumstances in which trade can occur between groundwater resources and between groundwater and surface water resources consideration of whether rules are necessary to address water quality issues in groundwater in response to section 10.35C of the Basin Plan (see Part 5.5 of Appendix A to Victoria's North and Murray Comprehensive Report). <p>NSW and Victoria have identified common text for groundwater to groundwater connections which is identified in response to section 10.05(b) of the Basin Plan for the water resources in the Goulburn-Murray water resource plan area. In a 2012 report on the 'Potential for the alignment of management of common aquifers along the NSW-Victorian border' SKM reported that there was a number of aspects that require consideration within the context of shared aquifers. These include:</p> <ul style="list-style-type: none"> complete return of all currently over allocated or overused systems to environmentally sustainable levels of extraction; progressive removal of barriers to trade in water, and opportunities for trading within and between States and Territories, where water systems are physically shared or hydrologic connections and water supply considerations will permit water trading; addressing future adjustment issues that may impact on water users and communities; recognition of the connectivity between surface and groundwater resources and connected systems managed as a single resource; in the case of water access entitlements, be compatible across jurisdictions to improve investment certainty. <p>Consideration of groundwater connectivity between Victoria and NSW particularly applies to the groundwater resources contained in the Goulburn-Murray Sedimentary Plain SDL resource unit managed in the Katunga WSPA and the Lower Campaspe Valley WSPA plans, which includes the Shepparton formation, the Calivil formation and the Renmark formation aquifer systems. These are the most significant areas of development that adjoin the NSW Lower Murray Alluvium water resource plan area. Where these areas underlie the Shepparton Irrigation Region SDL resource area (all of Katunga, and the northern section of the Campaspe Valley adjoining the Murray River), the Upper Shepparton (<25m deep) is excluded as this resource unit is connected to surface water systems (the Campaspe, Goulburn and Broken surface water catchments) in the Shepparton Irrigation Region SDL resource unit.</p> <p>NSW and Victoria have agreed to further explore joint management and to give effect to any future arrangements.</p>

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		<p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> In the Victorian Murray water resource plan area, the Kiewa River flows into the River Murray and this is considered a significant hydrological connection. There are some connections to the Wimmera-Mallee (surface water) water resource plan area due to the use of water on land from Victorian Murray water resource plan area, however the connection is not based on connectivity between water resources within those plan areas but based on geographical use of the water. For this reason, no significant connections have been identified between Wimmera-Mallee (surface water) water resource plan area and the Victorian Murray water resource plan area. 	n/a	<p>The groundwater resources along the border region of Victoria and NSW are variously contained within shared or common aquifers. The existing state legislation in Victoria and New South Wales enables policy and management to deliver equitable water sharing of stock and domestic rights, groundwater entitlements and entitlements of linked surface water users and dependent or partially dependent ecosystems. The existing prescriptions in the Katunga WSPA and Lower Campaspe WSPA plans aim to provide protection for existing users and the environment by supporting a cap on licence entitlement; restricting the extraction of groundwater when triggered; and placing limits on the concentration of groundwater pumping. These prescriptions contribute to the management and use of the shared aquifers to limit the impacts of groundwater extraction in Victoria on NSW. Victoria expects NSW will have similar rules or measures identified in the NSW Murray Alluvium WRP to ensure the operation of the Murray Alluvium WRP doesn't compromise the hydraulic relationships and properties of the shared aquifers</p> <p>The Lower Campaspe Management Plan can be found at - https://www.g-mwater.com.au/downloads/gmw/groundwater/Lower_Campaspe_Valley_WSPA/Nov_2013_-_Lower_Campaspe_Valley_WSPA_Plan_A4_FINAL-fixed_for_web.pdf</p> <p>The Katunga Management Plan can be found at - https://www.g-mwater.com.au/downloads/gmw/groundwater/Katunga_WSPA/20170901_4449443-v1-KATUNGA_WATER_SUPPLY_PROTECTION_AREA_GROUNDWATER_MANAGEMENT_PLAN_-_2017.pdf</p> <p>The Southern Connected Basin is discussed at Section 4.2.4.1 and Section 12.7.4 of Victoria's North and Murray Comprehensive Report.</p>

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		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. Victoria's North and Murray Water Resource Plan was prepared having regard to the management and use of water resources that have a significant hydrological connection to the water resources in the water resource plan area. In the Goulburn-Murray water resource plan area the following significant hydrological connections are identified:</p> <ul style="list-style-type: none"> (a) Goulburn-Murray: Shepparton Irrigation Region (GS8a) is connected to Goulburn-Murray: Sedimentary Plain (GS8c) (b) Goulburn-Murray: Highlands (GS8b) is connected to Goulburn-Murray: Sedimentary Plain (GS8c) (c) Goulburn-Murray: Sedimentary Plain (GS8c) is connected to Lower Murray Shallow Alluvium (GS27a), Lower Murray Deep Alluvium (GS27b) (d) Goulburn-Murray: Sedimentary Plain (GS8c) is connected to Southern Victoria outside of the Basin. <p>2. The Renmark aquifer within the Goulburn-Murray water resource plan area extends into the Wimmera-Mallee: Sedimentary Plan SDL resource unit, and into New South Wales and South Australia. There is generally very little development of this aquifer in Goulburn-Murray water resource plan area where it underlies the Calivil formation and none in the Wimmera-Mallee (groundwater) water resource plan area where it is typically too saline for productive use, or too deep to be economically developed, or both. As such, the use of this resource is unlikely to have a material impact on the connected groundwater resources and is therefore not considered a significant connection for the purposes of the Basin Plan.</p> <p>3. Management of connected resources occurs through establishment of groundwater management areas, declaring water supply protection areas under the <i>Water Act 1989</i> (Vic) and mitigating third party impacts (including on the environment) through Victoria's entitlement framework.</p> <p>4. The groundwater resources along the border region of Victoria and NSW are variously contained within shared or common aquifers. Although cross border statutory arrangements are not currently in place to manage these shared aquifers, the existing state legislation in Victoria and New South Wales enables policy and management to deliver equitable water sharing of stock and domestic rights, groundwater entitlements and entitlements of linked surface water users and dependent or partially dependent ecosystems. In the Goulburn-Murray water resource plan area, these arrangements include prescriptions in the Katunga WSPA and Lower Campaspe WSPA plans to limit use to permissible consumptive volumes, apply restrictions based on water level triggers and zone limits/intensity rules to limit licences and trades within a localised area. Groundwater level and salinity monitoring prescriptions are also included in these WSPA plans to monitor the groundwater resources. Victoria will continue to work with New South Wales to explore joint management arrangements for addressing the impacts of groundwater extraction in one state, on other uses across the border.</p>	n/a
			Column 5 Explanatory material

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10.06(1)	For each matter that this Chapter requires to be dealt with in a water resource plan, the plan must specify the person responsible for the matter.	Victoria's North and Murray water resource plan area The person responsible for each matter to be dealt with in a water resource plan is the Deputy Secretary Water and Catchments, of the Department.	n/a	The Deputy Secretary Water and Catchments is identified as the person responsible for developing the content of Victoria's North and Murray Water Resource Plan as the document was prepared by the Department. Reference to the Department is reference to the Department responsible through administrative arrangement orders for the administration of the Victorian Water Act. Reference to Water and Catchments means any group in the Department that assists in the administration of the Victorian Water Act and the name may change by administrative arrangements from time to time.
10.06(2)	Without limiting subsection (1), if a water resource plan requires a measure or action to be undertaken, the plan must specify the person responsible for undertaking that measure or action.	Victoria's North and Murray water resource plan area 1. The person responsible for any action or measure to be undertaken under Victoria's North and Murray Water Resource Plan is listed in Column 4 of Victoria's North and Murray Index Table. 2. If there is no person identified in Column 4, there is no requirement for an action or a measure to be undertaken. 3. If: (a) Victoria's North and Murray Water Resource Plan purports to impose an obligation on a Basin State to do a particular thing; and (b) the imposition of that obligation would contravene a constitutional doctrine restricting the obligations that the Commonwealth may impose on a State; 4. Victoria's North and Murray Water Resource Plan is taken, instead of imposing the obligation, to confer a discretion on the Basin State to do the thing.	n/a	This requirement is met by the text in Column 4 of Victoria's North and Murray Index Table, for each water resource plan requirement, which identifies the person responsible for each measure or action to be undertaken. The text in Column 3 of this row outlines how Column 4 should be applied to Victoria's North and Murray Water Resource Plan. The constitutional limitation provision is adapted from section 1.09 of the Basin Plan.
10.07(1)	A water resource plan prepared by a Basin State must contain a description of the consultation in relation to the plan (including in relation to any Part of the plan, if any, that was undertaken before the State gave the plan to the Authority under subsection 63(1) of the Act.	Victoria's North and Murray water resource plan area The Consultation Report contained at Appendix D of Victoria's North and Murray Comprehensive Report describes the consultation in relation to Victoria's North and Murray Water Resource Plan that was undertaken before Victoria gave the Plan to the MDBA under section 63(1) of the <i>Water Act 2007</i> (Cth).	n/a	This requirement is met by the Consultation Report, contained at Appendix D of Victoria's North and Murray Comprehensive Report, as identified in Column 3 of this row. The Consultation Report describes the consultation that occurred to develop the material contained in Victoria's North and Murray Water Resource Plan prior to giving the plan to the MDBA under section 63 of the Commonwealth Water Act.
10.07(2)	If a water resource plan is amended in accordance with section 65 of the Act, the plan must contain a description of the consultation in relation to the amendment, if any, that was undertaken before the relevant Basin State gave the proposed amendment to the authority under subsection 65(2) of the Act.	Victoria's North and Murray water resource plan area This matter is not relevant to Victoria's North and Murray Water Resource Plan as it does not contain any amendments.	n/a	

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Part 3				
Part 3				
10.08(1)	<p>A water resource plan must identify the following:</p> <ul style="list-style-type: none"> (a) each form of take from each SDL resource unit in the water resource plan area; (b) any classes of water access right that apply to the forms of take identified under paragraph (a); (c) the characteristics of each class of right including, where appropriate, the number of rights and any conditions on the exercise of rights. 	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Table A attached to Victoria's North and Murray Index Table identifies the matters required by section 10.08(1) of the Basin Plan for the following SDL resource units: <ul style="list-style-type: none"> (a) Ovens (SS4); (b) Goulburn (SS6); (c) Broken (SS5); (d) Campaspe (SS7); (e) Loddon (SS8). <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Table A attached to Victoria's North and Murray Index Table identifies the matters required by section 10.08(1) of the Basin Plan for the following SDL resource units: <ul style="list-style-type: none"> (a) Victorian Murray (SS2); (b) Kiewa (SS3). <p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Table B attached to Victoria's North and Murray Index Table identifies the matters required by section 10.08(1) of the Basin Plan for the following SDL resource units <ul style="list-style-type: none"> (a) Goulburn-Murray: Shepparton Irrigation Region (GS8a); (b) Goulburn-Murray: Highlands (GS8b); (c) Goulburn-Murray: Sedimentary Plain (GS8c); (d) Goulburn-Murray: deep (GS8d). 	n/a	<p>Table A attached to Victoria's North and Murray Index Table contains the water access rights for each form of take for all SDL resource units in the Northern Victoria water resource plan area and the Victorian Murray water resource plan area.</p> <p>The text in Column 3 of this row complies with sections 10.04(2), (3) and (5) of the Basin Plan. The first Column of Table A identifies all forms of take for the SDL resource units in Northern Victoria water resource plan area and the Victorian Murray water resource plan area. Floodplain harvesting is not contained in the table as that form of take is not available in the SDL resource units, or anywhere in Victoria.</p> <p>The water access rights that apply to each form of take are identified in Column 2 of Table A of Victoria's North and Murray Index Table. Victoria's entitlement system does not include "classes of rights" and for the purposes of responding to this section, a "class of water access right" is determined to mean the type of right available under the Victorian Water Act. The only water access rights identified are those available under the Victorian Water Act as other State legislation cannot give a person an authorisation to take water.</p> <p>The characteristics are outlined in Column 4 and 5 of Table A to Victoria's North and Murray Index Table. The characteristics are consistent across the SDL resource units in the Northern Victoria water resource plan area and the Victorian Murray water resource plan area. This is because entitlements under the Victorian Water Act hold the same characteristics across Victoria.</p> <p>To support the response to section 10.08(2) of the Basin Plan, Table A identifies the types of conditions that may relate to a water access right and identifies that relevant instruments are contained on the Victorian Water Register.</p> <p>The relevant SDL resource units and water resources for the Northern Victoria water resource plan area and Victorian Murray water resource plan area are depicted in Figure 2-1 of Victoria's North and Murray Comprehensive Report.</p>
			n/a	<p>Table B attached to Victoria's North and Murray Index Table contains the water access rights for each form of take for all SDL resource units in the Goulburn-Murray water resource plan area. The text in Column 3 of this row complies with section 10.04(2), (3) and (5) of the Basin Plan. Table B identifies all forms for the Goulburn-Murray, Shepparton Irrigation Region, Goulburn-Murray: Highlands, Goulburn-Murray: Sedimentary Plain and Goulburn-Murray: deep SDL resource units in the Goulburn-Murray water resource plan area. The only relevant forms of take are take from groundwater (excluding basic rights) and take from groundwater under basic rights. All other forms of take do not apply.</p> <p>For each form of take the water access rights that apply to the form of take are identified in Column 2 of Table B. Victoria's entitlement system does not include "classes of rights" and for the purposes of responding to this section, a "class of water access right" is determined to mean the type of right available under the Victorian Water Act. The only water access rights identified are those available under the Victorian Water Act as other State legislation cannot give a person an authorisation to take and store water.</p> <p>The characteristics are outlined in Column 4 and 5 of Table B to Victoria's North and Murray Index Table. The characteristics are consistent across the SDL resource units. This is because entitlements under the Victorian Water Act hold the same characteristics across Victoria.</p> <p>To support the response to section 10.08(2) of the Basin Plan, Table B to Victoria's North and Murray Index Table identifies the types of conditions that may relate to a water access right and identifies that relevant instruments are contained on the Victorian Water Register.</p> <p>The relevant SDL resource units and water resources for the Northern Victoria water resource plan area and Victorian Murray water resource plan area are depicted in Figure 2-1 of Victoria's North and Murray Comprehensive Report.</p>

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10.08(2)	A water resource plan must require a holder of a water access right to comply with the conditions of that right.	<p>Victoria's North and Murray water resource plan area</p> <p>The holder of a water access right must comply with the conditions specified in the water access right instrument.</p> <p>Note: The types of conditions that may be imposed on a water access right are identified in Table A and Table B attached to Victoria's North and Murray Index Table for surface and groundwater respectively.</p>	water access right holder	

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10.09(1)	A water resource plan must identify the planned environmental water in the water resource plan area and associated rules and arrangements relating to that water.	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Table 1 in Appendix E to Victoria's North and Murray Comprehensive Report identifies the planned environmental water in the Northern Victoria water resource plan area and the relevant associated rules and arrangements relating to that water. Table 2 in Appendix E to Victoria's North and Murray Comprehensive Report identifies the associated rules and arrangements relating to the planned environmental water identified in Table 1 in Appendix E to Victoria's North and Murray Comprehensive Report. 	n/a	<p>The Explanatory Memorandum for the Commonwealth Water Act identifies that planned environmental water is water that is delivered through flow rules that specify flows that must be released for environmental purposes or delivered or retained through restrictions on the taking of water.</p> <p>There are three instances of planned environmental water identified for the Northern Victoria water resource plan area, sitting within the Broken and Ovens Bulk Entitlements, and the Upper Ovens River Supply Protection Area Water Management Plan. No planned environmental water is identified for the Victorian Murray water resource plan area. See Section 12.4.2.2 of Victoria's North and Murray Comprehensive Report for further discussion on planned environmental water.</p> <p>There are further types of water in Victoria that contribute to environmental benefit, but do not meet the Commonwealth definition for planned environmental water. These further types of water include above cap and unallocated water, both in regulated and unregulated systems, for groundwater and surface water. While these further types of water cannot be managed to provide a specific environmental outcome in the way held environmental water can (in regulated systems only) and are not solely committed for environmental purposes under Victoria law, they are recognised as contributing to environmental benefit under Victoria's environmental water reserve policy. See Section 12.4.3 of Victoria's North and Murray Comprehensive Report for further discussion on water that contributes to the environment.</p> <p>This requirement is met as the text in Column 3 identifies the relevant planned environmental water and associated rules and arrangements are outlined in Table 1 and Table 2 in Appendix E to Victoria's North and Murray Comprehensive Report.</p> <p>The Upper Ovens River Water Supply Protection Area Water Management Plan provides for a 'water sharing regime'.</p> <p>The issue of new licensed volume is capped under the Plan. While the Plan identifies, at prescription 3, that the above cap water contributes to environmental outcomes, the Plan also identifies the water may also be taken and used for multiple purposes, including providing base flows (not just for environmental benefit but for system management and water sharing regime reasons). The Upper Ovens River WSPA Management Plan clearly provides for rules to establish and protect minimum passing flows in a range of circumstances to account for different levels of water availability. The Plan also provides for compliance points (measuring point) to ensure that the minimum passing flows can be maintained. The prescriptions contained in the Plan (as referenced in Appendix E to Victoria's North and Murray Comprehensive Report) are designed to protect minimum passing flows in the system. The Upper Ovens River WSPA Management Plan identifies specifically that:</p> <p><i>"[The Plan] aims to recognise the needs of existing and future water users whilst attempting to maintain or improve waterway health by protecting minimum flows for the environment. Providing sufficient environmental flows to achieve health rivers is a key component of ensuring the long-term sustainability of the water resources."</i></p> <p>Section 12.1.9 of the Upper Ovens River WSPA Management Plan provides the following:</p> <p><i>The Plan prevents groundwater or surface water extraction from occurring that would cause flows in the Ovens River at Myrtleford to decline below 1ML/d. Thereby providing an environmental water reserve that protects the following environmental flow objectives:</i></p> <ul style="list-style-type: none"> wetting the bottom of river channel and maintaining pool depth watering of aquatic plants the provision of critical macroinvertebrate habitat <p>The above minimum flow is identified as the specific environmental flow that can be identified as planned environmental water (PEW).</p> <p>While the Plan makes reference to the Environmental Water Reserve (EWR) this does not provide an equivalent characterisation of water under the Commonwealth definition of PEW. The Plan does not identify all "above cap" water as being part of the EWR, section 12.1.9 of the Upper Ovens River WSPA Management Plan identifies the 1 ML/d minimum environmental flow as the "environmental water reserve".</p>

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		<p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>No planned environmental water has been identified for the Victorian Murray water resource plan area. No associated rules or instruments have been identified.</p>	n/a	<p>The environmental water reserve under 4A of the Victorian Water Act and the environmental water reserve objective under section 4B of the Victorian Water Act do not have the effect of defining above cap water as planned environmental water for the purposes of section 6 of the Commonwealth Water Act or section 10.09(1) of the Basin Plan. Water may be part of the environmental water reserve for the purposes of the Victorian Water Act and will support the environmental objective however, it cannot be characterised as 'planned environmental water' as more narrowly defined in section 6 of the Commonwealth Water Act which specifies that planned environmental water is water that cannot be taken or used for any other purpose.</p> <p>The issues previously raised with the MDBA regarding the protection of above cap water against any other form of take remain under this statutory management plan. There is no prohibition on the water being taken for any other purpose. The protection provided under the Plan is to protect the cap on licensed consumptive take but does not limit basic rights (domestic and stock) and does not limit other uses such as recreational or emergency purposes (beyond the scope of what is defined under emergency management legislation) etc which would contravene the requirement to prevent it from being used for any other purpose to the extent that it is committed or preserved for the environment.</p> <p>Reference to "above cap water" in Victoria's North and Murray Index Table refers to water that includes water that remains in the system after meeting entitlements, flows specified in bulk entitlements or environmental entitlements as minimum passing flows which may also be identified as "systems water" and water that remains in the system where water users have not taken their full volume from the system. For more information on other water that contributes to meeting environmental outcomes see the response to section 10.26 of the Basin Plan in Victoria's North and Murray Index Table and Section 12.4.3 of Victoria's North and Murray Comprehensive Report.</p>
		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This matter is not relevant to the groundwater resources of Victoria's North and Murray water resource plan area.</p>	n/a	<p>There is no specific groundwater identified as planned environmental water in Victoria's North and Murray water resource plan area.</p> <p>The Upper Ovens River WSPA Water Management Plan identifies a significant connection between surface water and groundwater and the Management Plan therefore identifies management arrangements to apply to surface water and groundwater as though it is a single resource. These measures do not apply, however, in respect of the planned environmental water (passing flow). All rules and compliance points relate to surface water. Given there are no deliverables related to groundwater for the water set aside for the environment it is not proposed to identify this minimum environmental passing flow as planned environmental water for the Goulburn-Murray water resource plan area.</p> <p>Therefore, no planned environmental water is identified for the Goulburn-Murray water resource plan area.</p> <p>See Section 12.4.2.2 of Victoria's North and Murray Comprehensive Report for further discussion on planned environmental water. See also Section 12.4.3 of Victoria's North and Murray Comprehensive Report for further discussion on water that contributes to the environment.</p>
10.09(2)	A water resource plan must provide for the establishment and maintenance of a register, to be published on a website specified by the plan, of held environmental water for the water resource plan area which records: (a) the characteristics of held environmental water in the water resource plan area (for example, quantity, reliability, security, class, licence type, limitations), and (b) who holds that water.	<p>Victoria's North and Murray water resource plan area</p> <p>The Victorian Water Register contains the details of the characteristics of held environmental water in Victoria's North and Murray water resource plan area and identifies who holds the entitlements to the water. The relevant page of the Victorian Water Register is published at http://waterregister.vic.gov.au/water-entitlements/bulk-entitlements.</p>	Department	<p>This requirement is met through the Victorian Water Register published at http://waterregister.vic.gov.au. This register contains the details of the characteristics of held environmental water in Victoria's North and Murray water resource plan area and identifies who holds entitlements to that water. This information is searchable by filtering entitlements by holder of the environment, being the VEWH in Victoria (http://waterregister.vic.gov.au/water-entitlements/bulk-entitlements). The Victorian Water Register also contains links to specific details about all held environmental water held by the CEWH through links to the CEWH records accessed through a link to the CEWH website which is found on the Victorian Water Register at the following web address: https://www.environment.gov.au/water/cewo/about/water-holdings</p> <p>The Victorian Water Register also contains links to specific details about all held environmental water held by the VEWH through a link to the VEWH website which is found at the following web address: http://www.vewh.vic.gov.au/watering-program/how-much-water-is-available</p> <p>See Section 7.3.2 and Figure 7-6 of Victoria's North and Murray Comprehensive Report for more information on the Victorian Water Register. Table 12-1 in Chapter 12 of Victoria's North and Murray Comprehensive Report identifies all the held environmental water in Victoria's North and Murray water resource plan area (as at 30 April 2019).</p>
10.09(3)	Subsection (2) is satisfied if the plan identifies a register of held environmental water which records the matters required by subsection (2) and is published on a website.	<p>Victoria's North and Murray water resource plan area</p> <p>This requirement informs the response to section 10.09(2) of the Basin Plan.</p>	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.10(1)	For each SDL resource unit in a water resource plan area, and for each form of take, the water resource plan must set out the method for determining the maximum quantity of water that the plan permits to be taken for consumptive use during a water accounting period.	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of the Comprehensive Report.</p> <ol style="list-style-type: none"> The method set out in Column 3 at Item 1 of Table 6 of the Methods Report at Appendix C of Victoria's North and Murray Comprehensive Report applies to the form of take identified in Column 2 of Table 6 for the Ovens SDL resource unit (SS4) in the Northern Victoria water resource plan area. The method set out in Column 3 at Items 2-3 of Table 6 of the Methods Report at Appendix C of Victoria's North and Murray Comprehensive Report applies for the forms of take identified in Column 2 of Table 6 in the Northern Victoria water resource plan area for the following SDL resource units: <ul style="list-style-type: none"> (a) Goulburn (SS6); (b) Broken (SS5); (c) Campaspe (SS7); (d) Loddon (SS8). The methods set out in Column 3 for Items 4-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to all SDL resource units in the Northern Victoria water resource plan area. <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> The method for annual permitted take set out in Column 3 at Item 1 of Table 6 of the Methods Report at Appendix C of Victoria's North and Murray Comprehensive Report applies to the form of take identified in Column 2 of Table 6 for the Victorian Murray SDL resource unit (SS2), Kiewa SDL resource unit (SS3) in the Victorian Murray water resource plan area. The methods for annual permitted take set out in Column 3 for Items 3-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to the Victorian Murray SDL resource unit. The methods for annual permitted take set out in Column 3 for Items 4-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to the Kiewa SDL resource unit. 	n/a	<p>The relevant SDL resource units and water resources for the Northern Victoria water resource plan area and Victorian Murray water resource plan area are depicted in Figure 2-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Reference to column numbers in this section refer to the column number of the header row of the relevant table. In some instances, the response for a particular item may be merged across two columns.</p> <p>The requirement of section 10.10(1) of the Basin Plan for Victoria's North (surface water) water resource plan area is met as the proposed text identifies the methods to be used for determining permitted take in Victoria's North (surface water) water resource plan area. The methods are described in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. Column 3 of Table 6 identifies the methods for permitted take for the forms of take identified in Column 2 of that Table. Table 6 applies to the surface water SDL resource units in the Northern Victoria water resource plan area and the Victorian Murray water resource plan area.</p> <p>The method developed for the modelled component of take from a watercourse (excluding basic rights) in consultation with the MDBA for the Victorian Murray water resource plan area includes the Ovens SDL resource unit which is located in the Northern Victoria water resource plan area. Management of water access rights in accordance with the methods for permitted take are outlined in Part 3 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>These methods are based on the best available information at the time of developing the method as described in Column 5 of Table 6. The information used to develop the model or method is outlined in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>The Goulburn BDL/WRP model representation is the best available knowledge as at 30 April 2019. It is recognised though that there are some policy discrepancies that will need to be addressed and fixed through a model review process to be completed within two years – 30 April 2021.</p> <p>The method for permitted take, BDL and SDL for the out of model component of take from a watercourse (excluding basic rights) is subject to a two-year review so that it is based on best available information. This is explained in Part 2.2.1, Part 3.1.3.2 and Item 3 of Table 6 and applies to the Goulburn, Broken, Campaspe, Loddon and Victorian Murray SDL resource units. An interim method is proposed until the two-year review is complete. This is explained in Appendix C. Adoption of the interim method does not:</p> <ul style="list-style-type: none"> limit the ability of a holder of a take and use licence to utilise their entitlement during the two-year review process; prejudice Victoria from identifying a method on review that would enable the accumulation of credits if actual take is below what would be permitted in a given year, as using the interim method eliminates Victoria's ability to accumulate credits against SDL reporting; prejudice Victoria from adopting a method in two years which may result in an increased BDL prevent a revised SDL compliance assessment to be undertaken of the period since 1 July 2019, once a revised BDL and permitted take method is agreed (consistent with the MDBA's SDL reporting and compliance framework).

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10:10(2)	The method for subsection (1) may include modelling, and must be designed to be applied after the end of the relevant water accounting period, having regard to the water resources available during the period.	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>The methods set out in Column 2 for the forms of take identified in Column 1 of Table 11 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to all SDL resource units in the Goulburn-Murray water resource plan area.</p> <p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> The methods for annual permitted take identified in Column 3 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report are applied at the end of each accounting period having regard to the water resources available during that period. For take from a regulated river (excluding basic rights) a method for determining allocations based on water availability is included in the method for determining annual permitted take. 	n/a	<p>Reference to column numbers in this section refer to the column number of the header row of the relevant table. In some instances, the response for a particular item may be merged across two columns.</p> <p>The requirement of section 10:10(1) of the Basin Plan for the Goulburn-Murray water resource plan area is met as the proposed text identifies the methods to be used for determining permitted take in the Goulburn-Murray water resource plan area. The methods are described in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. Column 1 of Table 11 identifies the forms of take in Victoria's North and Murray Water Resource Plan and Column 2 of Table 11 identifies the methods for permitted take.</p> <p>These methods are based on the best available information at the time of developing the method. The information used to develop the model or method is outlined in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>This requirement is met by the methods outlined in response to section 10:10(1) of the Basin Plan. In Victoria's North (surface water) water resource plan area allocations are not determined for take and use licences. Determination of allocation is only done for bulk entitlements, environmental entitlements and water shares. Actual take in response to water availability is managed via other means in respect of take and use licences. Actual take can be adjusted by measures that respond to water shortages as outlined in Chapter 10 of Victoria's North and Murray Comprehensive Report and is managed throughout the accounting period. Under the Victorian Water Act a water corporation is required to determine water availability for the accounting period. In practice, rather than making an assessment at the end of the accounting period, the water corporation makes assessments throughout the period. Water allocations cannot be reduced, and water users can only use water they are allocated. This mitigates the risk of actual take exceeding permitted take while taking into account water availability for the period. The method for determining annual permitted take at the end of the accounting period uses the same allocation rule used through the accounting period.</p> <p>Part 3.2 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report outlines how water availability is considered.</p>
10:10(3)(a)	The method must: (a) account for the matters in subsection 10:12(1)	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>The methods for annual permitted take set out in Column 2 for the forms of take identified in Column 1 of Table 11 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report are applied at the end of each accounting period having regard to the water resources available during that period.</p> <p>Victoria's North and Murray water resource plan area</p> <p>This requirement is responded to in the response for section 10:12(1) of the Basin Plan in Victoria's North and Murray Index Table.</p>	n/a	<p>This requirement is met by the methods outlined in response to section 10:10(1) of the Basin Plan. Groundwater permitted take is equal to SDL for the relevant SDL resource unit. The estimate for take from groundwater under basic rights takes into account take patterns based on the best available information for that form of take. Use of a long-term average is appropriate as seasonal availability is not relevant to groundwater and changes to availability occur over a longer period.</p>
10:10(3)(b)	The method must: (b) be consistent with the other provisions of the water resource plan.	<p>Victoria's North and Murray water resource plan area</p> <p>The methods are consistent with the other provisions of Victoria's North and Murray Water Resource Plan.</p>	n/a	<p>This requirement is met as the other provisions of Victoria's North and Murray Water Resource Plan, being the accredited text, are consistent with the method for determining permitted take.</p>

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.10(4)	The plan must also set out a demonstration that the method relates to the SDL of each resource unit in such a way that, if applied over a repeat of the historical climate conditions, it would result in meeting the SDL for the resource unit, including as amended under section 23B of the Act.	<p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. Part 3.4 and Table 10 of Appendix C to Victoria's North and Murray Comprehensive Report provides a demonstration that the long-term average permitted take applied over the same climate sequences of the sustainable diversion limit will result in meeting the sustainable diversion limit for the following SDL resource units:</p> <ul style="list-style-type: none"> (a) Ovens (SS4); (b) Goulburn (SS6); (c) Broken (SS5); (d) Campaspe (SS7); (e) Loddon (SS8). 		This requirement is met by the demonstration via volumetric outputs from the methods outlined in Table 10 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report and the text contained in Column 3 of this row. Part 3.4 provides an explanation of the demonstration. The relevant SDL resource units and water resources for the Northern Victoria water resource plan area and Victorian Murray water resource plan area are depicted in Figure 2-1 of Victoria's North and Murray Comprehensive Report.
		<p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Part 3.4 and Table 9 of Appendix C to Victoria's North and Murray Comprehensive Report provides a demonstration that the long-term average permitted take applied over the same climate sequences of the sustainable diversion limit will result in meeting the sustainable diversion limit for the Victorian Murray (SS2) and Kiewa (SS3) SDL resource units.</p>	n/a	This requirement is met by the demonstration via volumetric outputs from the methods outlined in Table 9 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report and the text contained in Column 3 of this row. Part 3.4 provides an explanation of the demonstration.
		<p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. See Part 4.3 of Appendix C to Victoria's North and Murray Comprehensive Report provides a demonstration that the long-term average permitted take applied over the same climate sequences of the sustainable diversion limit will result in meeting the sustainable diversion limit for the following SDL resource units:</p> <ul style="list-style-type: none"> (a) Goulburn-Murray: Shepparton Irrigation Region (GS8a); (b) Goulburn-Murray: Highlands (GS8b); (c) Goulburn-Murray: Sedimentary Plain (GS8c); (d) Goulburn-Murray: deep (GS8d). 	n/a	This requirement is met by the demonstration via volumetric outputs from the methods outlined in Table 13 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report and the text contained in Column 3 of this row. Given that permitted take is an annual volume and SDL is a long-term average, the only means for comparison is to run the method as a repeat of the historical climate conditions and provide a long-term average. As identified in Victoria's North and Murray Index Table and in the Methods Report, the SDL method and permitted take method are the same and therefore are based on identical climate sequences.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.10(5)	<p>If, as a result of an amendment under section 23B of the Act, the SDL for a surface water SDL resource unit is expressed as a formula that changes with time, the SDL for subsection (4) is taken to be:</p> <ul style="list-style-type: none"> (a) for a water accounting period beginning on or after 1 July 2019—the SDL as it stood on 30 June 2019; and (b) for a water accounting period beginning on or after 1 July 2022—the SDL as it stood on 30 June 2022; and (c) for a water accounting period beginning on or after 1 July 2024—the SDL as it stood on 30 June 2024. 	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This matter informs the interpretation of section 10.10(4) of the Basin Plan and does not contain a Basin Plan requirement.</p> <p>The methods that adjust for supply and efficiency measures are identified in items 1 and 2 of Table 6 of Appendix C to Victoria's North and Murray Comprehensive Report in response to 10.10(1). This demonstrates that the SDL is a formula that changes with time.</p> <p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This requirement does not apply to groundwater.</p>	n/a	
			n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.11(2)	To avoid doubt, the rules may be designed to ensure that the quantity of water that is actually taken for consumptive use from an SDL resource unit in a water accounting period is less than the annual permitted take.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10.11(1) of the Basin Plan and does not contain a water resource plan requirement.	n/a	
10.12(1)(a)	For paragraph 10.10(3)(a), the following matters must be accounted for: (a) all forms of take from the SDL resource unit and all classes of water access right;	Victoria's North and Murray water resource plan area For Victoria's North and Murray water resource plan area all forms of take from the SDL resource units and all classes of water access rights are accounted for by the methods specified for the purposes of section 10.10(1) of the Basin Plan.	n/a	For more information see the Part 3.3 (surface water) and Part 4.2 (groundwater) of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (a) of Table 8 (surface water) and item (a) of Table 12 (groundwater) in Appendix C to Victoria's North and Murray Comprehensive Report.
10.12(1)(b)	For paragraph 10.10(3)(a), the following matters must be accounted for: (b) water allocations that are determined in one water accounting period and used in another, including water allocations that are carried over from one water accounting period to the next;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (b) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	For more information see the Part 3.3 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (b) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report. See Section 7.2.2.5 of Victoria's North and Murray Comprehensive Report for a discussion of specific water access arrangements under entitlements.
10.12(1)(c)	For paragraph 10.10(3)(a), the following matters must be accounted for: (c) for a surface water SDL resource unit—return flows, in a way that is consistent with arrangements under the Agreement immediately before the commencement of the Basin Plan;	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (b) of Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	For more information see the Part 4.2 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (b) of Table 12 (groundwater) in Appendix C to Victoria's North and Murray Comprehensive Report.
		Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (c) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	For more information see the Part 3.3 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (c) of Table 8 .
		Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to groundwater.	n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10:12(1)(d)	For paragraph 10:10(3)(a), the following matters must be accounted for: (d) subject to subsection (3)—trade of water access rights;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (d) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	This requirement is met by the text in Column 3 of this row as it identifies that the matter in section 10:12(1)(d) of the Basin Plan has been taken into account. Trade of entitlements is permitted in Victoria's North (surface water) water resource plan area. All trade is recorded on the Victorian Water Register and the data on the Register is the point of truth for entitlement data. For more information see the Part 3.3 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (d) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report. Planned Environmental Water is not tradeable.
		Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (d) of Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	This requirement is met by the text in Column 3 of this row as it identifies that the matter in section 10:12(1)(d) of the Basin Plan has been taken into account. Trade of entitlements is permitted in the Goulburn-Murray water resource plan areas. Trade of take and use licences is only permitted where it will not adversely impact on existing users (including the environment) and will not change the maximum volume of take permitted in the relevant system. Given the method for permitted take (that it equals SDL) represents a long-term average of take from the relevant SDL resource unit the method will not be adjusted for trade. Trade will be accounted for in the method for actual take as it will reflect the effect of the trade in the system. Under Victoria's water resource management framework, a trade will not be allowed if the result is to exceed the relevant limit on take for that resource. In respect of how permitted take will be complied with, see response to section 10:11(1) of the Basin Plan in Victoria's North and Murray Index Table. All trade is recorded on the Victorian Water Register and the data on the Register is the point of truth for entitlement data. For more information see the Part 4.2 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (d) of Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report.
10:12(1)(e)	For paragraph 10:10(3)(a), the following matters must be accounted for: (e) water resources which have a significant hydrological connection to the water resources of the SDL resource unit;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (e) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement. Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (e) of Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement.	n/a	For more information see the Part 3.3 (surface water) and Part 4.2 (groundwater) of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (e) of Table 8 and item (e) Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report. See Section 4.2.4 (Victorian Murray water resource plan area), Section 4.3.6 (Northern Victoria water resource plan area) and Section 4.4.6 (Goulburn-Murray water resource plan area) of Victoria's North and Murray Comprehensive Report for a discussion of significant hydrological connections. See also the discussion in Column 5 of Victoria's North and Murray Index Table in response to section 10:05(b) and Part 4 of the Basin Plan.
10:12(1)(f)	For paragraph 10:10(3)(a), the following matters must be accounted for: (f) circumstances in which there is a change in the way water is taken or held under a water access right;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (f) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement. Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to the Goulburn-Murray water resource plan area.	n/a	This requirement is met by the text in Column 3 of this row as it identifies that the matter in section 10:12(1)(f) of the Basin Plan has been taken into account. There are no proposed changes to the way surface water or groundwater is taken or held in Victoria's North and Murray water resource plan area. For more information see the Part 3.3 (surface water) and Part 4.2 (groundwater) of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (f) of Table 8 (surface water) and item (f) of Table 12 (groundwater) in Appendix C to Victoria's North and Murray Comprehensive Report.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10:12(1)(g)	For paragraph 10:10(3)(a), the following matters must be accounted for: (g) changes over time in the extent to which water allocations in the unit are utilised; Note: Paragraph (g) includes what is commonly known as a growth-in-use strategy.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (g) of Table 8 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement. Note: See also the response to section 10.11 of the Basin Plan in Victoria's North and Murray Index Table. Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Item (g) of Table 12 in Appendix C to Victoria's North and Murray Comprehensive Report provides the response to this requirement. Note: See also the response to section 10.11 of the Basin Plan in Victoria's North and Murray Index Table.	n/a	For more information see the Part 3.3 (surface water) and Part 4.2 (groundwater) of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report. This requirement is addressed in item (g) of Table 8 (surface water) and item (g) of Table 12 (groundwater) in Appendix C to Victoria's North and Murray Comprehensive Report. In response to section 10:11 of the Basin Plan a requirement to respond to potential increases of annual actual take where the cumulative balance increases above the sustainable diversion limits for all SDL resource units in the Northern Victoria, Victorian Murray and Goulburn-Murray water resource plan areas is provided in Victoria's North and Murray Water Resource Plan to support operation of Chapter 6 of the Basin Plan in managing SDL compliance. The response identifies that Victoria will act in accordance with Chapter 6 of the Basin Plan to address any growth in use that would cause non-compliance with SDLs in Victoria's North and Murray water resource plan area. This response is linked to the response to section 10:12(1)(g) of the Basin Plan where growth in utilisation must be considered. The obligation identified in Column 3 is commensurate to the level of risk of SDL non-compliance in Victoria's North and Murray water resource plan area given the water resource management arrangements in that plan area.
10:12(1)(h)	For paragraph 10:10(3)(a), the following matters must be accounted for: (h) water sourced from the Great Artesian Basin and released into a Basin water resource, by excluding that water;	Victoria's North and Murray water resource plan area This matter is not relevant to Victoria's North and Murray water resource plan area as there is no water sourced from the Great Artesian Basin.	n/a	
10:12(1)(i)	For paragraph 10:10(3)(a), the following matters must be accounted for: (i) water resources which are used for the purpose of managed aquifer recharge.	Victoria's North and Murray water resource plan area This matter is not relevant to methods for permitted take in Victoria's North and Murray water resource plan area as currently there are no managed aquifer recharge schemes operating or proposed in Victoria's North and Murray water resource plan area.	n/a	
10:12(2)	Subject to this section, the method may account for other matters.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10:10 of the Basin Plan and does not contain a water resource plan requirement.	n/a	
10:12(3)	For paragraph (1)(d), the water resource plan must account for the disposal and acquisition of held environmental water separately and in a way that does not affect the method under section 10:10.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10:12(1)(d) of the Basin Plan and does not contain a water resource plan requirement. See response to section 10:12(1)(d) of the Basin Plan above.	n/a	Any change to entitlement volumes or allocation as a result of trade is recorded in the VWR and is taken into account in the method used to determine permitted take for both forms of take, including separate accounting of held environmental water (section 10:12(3) of the Basin Plan). The trade of water from consumptive use to HEW or from HEW to consumptive use will not impact on the methods used to determine permitted take under section 10:10 of the Basin Plan. The net balance of any disposal or acquisitions of HEW will be used to adjust the cumulative balance at the end of the water accounting period in accordance with section 6:12 of the Basin Plan. In respect of groundwater there are no entitlements to groundwater for the environment and therefore this matter is not relevant to the Goulburn-Murray water resource plan area.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.13(1)	<p>Subject to this section, a water resource plan must require that the long-term annual average quantity of water that can be taken from a surface water SDL resource unit for consumptive use by:</p> <ul style="list-style-type: none"> (a) take under basic rights; or (b) take by runoff dams; or (c) net take by commercial plantations; <p>does not exceed the level specified in Column 2 of Schedule 3 for that form of take.</p>	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> 1. For the purposes of responses to Part 3 of Chapter 10 of the Basin Plan in Victoria's North and Murray Water Resource Plan the relevant SDL resource units are the: <ul style="list-style-type: none"> (a) combined Victorian Murray SDL Resource Unit which includes Victorian Murray, Kiewa and Ovens; (b) combined Northern Victoria SDL Resource Unit which includes, Goulburn, Broken, Campaspe and Loddon. 2. The long term annual average quantity of water in the: <ul style="list-style-type: none"> (a) combined Victorian Murray SDL Resource Unit that can be taken for consumptive use for the forms of take listed at section 10.13(1) of the Basin Plan is the level specified in items 17-19 of Column 2 of Schedule 3 to the Basin Plan; (b) combined Northern Victoria SDL Resource Unit that can be taken for consumptive use for the forms of take listed at section 10.13(1) of the Basin Plan is the level specified in items 20-23 of Column 2 of Schedule 3 to the Basin Plan. <p>This is the level of take at a specified point in time and is represented by the estimated volume of the baseline diversion limit identified in Table 3 of Appendix C to Victoria's North and Murray Comprehensive Report for that form of take from Combined Victorian Murray and Combined Northern Victoria SDL resource units.</p> <ol style="list-style-type: none"> 3. Annual actual take under Victoria's North and Murray Water Resource Plan is limited by the volume of annual permitted take determined by the method specified in response to section 10.10(1) of the Basin Plan for the following forms of take: <ul style="list-style-type: none"> (a) take under basic rights; or (b) take by runoff dams; or (c) net take by commercial plantations. 4. The requirement for section 10.13(1) of the Basin Plan is met by the response to sections 10.08(2), 10.10(1) and 10.11(1) of the Basin Plan. 5. The Department will monitor actual take for the above specified forms of take and where the actual take increases above permitted take the application of section 10.13(2) of the Basin Plan to Victoria's North and Murray Water Resource Plan will be assessed by the Department and an amendment to the Plan will be pursued if necessary. 	n/a	<p>Section 9.4 of Victoria's North and Murray Comprehensive Report provides further details regarding the limit on certain types of take.</p> <p>For more information regarding how take is managed for all forms of take within Victoria's North and Murray water resource plan area see Chapter 7 of Victoria's North and Murray Comprehensive Report and the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>How annual permitted take and actual take for these forms of take are estimated is outlined in Table 6 of the Methods Report at Appendix C to the Victoria's North and Murray Comprehensive Report.</p> <p>As identified in Column 3 of the Victoria's North and Murray Index Table, the response to sections 10.11(1) and 10.08(2) of the Basin Plan operate together to ensure actual take does not exceed permitted take. By complying with annual permitted take, the volume of take will not exceed the level specified in Column 2 of Schedule 3 to the Basin Plan. While basic rights are not subject to conditions, take under basic rights is limited by the scope of that right under sections 8 and 8A of the Victorian Water Act (see Section 7.2.1 of the Victoria's North and Murray Comprehensive Report).</p> <p>If take in the forms specified in section 10.13(1) of the Basin Plan exceeds permitted take, section 10.13(2) may be applied. Paragraph in Column 3 identifies the Department will review how section 10.13(2) can be applied and will seek amendment to the Victoria's North and Murray Water Resource Plan if necessary.</p> <p>For take from runoff dams, it is not clear whether increased numbers and capacity of runoff dams will necessarily lead to increased take, due to the impacts of climate change and associated changes in patterns of on-farm demand. Changes in the extent of runoff dams will be determined using aerial imagery periodically at least every 10 years, and this information may be used to assess whether annual actual take is exceeding the level specified in Column 2 of Schedule 3 to the Basin Plan.</p> <p>Little or no growth in commercial plantations is expected to occur over the next decade, due to the lack of sufficient rainfall in the WRP area. Changes in the extent of plantations in Victoria's North (surface water) water resource plan area will be determined using information provided on an annual basis by managers and owners of large plantation estates, and this information may be used to assess whether annual actual take is exceeding the level specified in Column 2 of Schedule 3 to the Basin Plan.</p> <p>In addition, the Victorian Government has made the following commitments in Water for Victoria to improve water use information, and these may provide relevant information to assess whether annual actual take is exceeding the level specified in Column 2 of Schedule 3 to the Basin Plan:</p> <ul style="list-style-type: none"> • periodically review the long-term risks to Victoria's water resources through mechanisms such as long-term water resource assessments and sustainable water strategies; • to better monitoring and reporting on the effects of emerging water uses on other uses in the Victorian Water Accounts. <p>The Department is the entity responsible for undertaking the action in (4) of Column 3 of this row for the purposes of section 10.06(2) of the Basin Plan.</p>

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		<p>Note 1: Volume for permitted take is identified in Table 9 (Victorian Murray water resource plan area) and Table 10 (Northern Victoria water resource plan area) of Appendix C to Victoria's North and Murray Comprehensive Report. The methods for determining the volume of annual permitted take is identified in Table 6 of Appendix C to Victoria's North and Murray Comprehensive Report. The Table further identifies the modelling related to determining permitted and actual take will be reviewed as follows:</p> <ul style="list-style-type: none"> (a) take under basic rights every 5 years; (b) take by runoff dams every 10 years; (c) take by commercial plantations every 10 years subject to any significant changes in the industry in which case a review would occur earlier. <p>Note 2: The relevant responses identified in (3) above relate to:</p> <ul style="list-style-type: none"> (a) section 10.08(2) of the Basin Plan which requires holders of a water access right to comply with the conditions of that right; (b) section 10.10(1) of the Basin Plan which sets out the method for determining permitted take limits for the relevant forms of take in Victoria's North (surface water) water resource plan area; (c) section 10.11(1) of the Basin Plan which ensures that actual take does not exceed permitted take. 		
10.13(1)		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This matter is not relevant to the groundwater resources of Victoria's North and Murray water resource plan area.</p>	n/a	
10.13(2)	<p>The quantity specified in subsection (1) for a form of take may be increased above the level specified in Column 2 of Schedule 3 for that form of take if:</p> <ul style="list-style-type: none"> (a) the long-term annual average quantity of water that can be taken by another form of take from the same SDL resource unit is changed at the same time so that there is no overall change in the total long-term annual average quantity of water that can be taken; and (b) take by the forms of take affected by the changes are capable of: <ul style="list-style-type: none"> (i) being accurately measured (for example, through the use of a meter); or (ii) in the case of a form of take that is not capable of being accurately measured at the time the water resource plan is submitted for accreditation or adoption—being reasonably estimated using the best available method immediately before the water resource plan is submitted; and (c) the changes are not expected to result in the take from the SDL resource unit ceasing to be an environmentally sustainable level of take. 	<p>Victoria's North and Murray water resource plan area</p> <p>This matter assists in the interpretation of section 10.13(1) of the Basin Plan and does not contain a water resource plan requirement. See the response to section 10.13(1) above as to how section 10.13(2) will be triggered.</p>	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.14(1)	<p>A water resource plan must identify the effect, or potential effect, if any, of the following on the use and management of the water resources of the water resource plan area:</p> <p>(a) the taking of groundwater that is not a Basin water resource resulting in water being removed from a groundwater SDL resource unit in the water resource plan area because of a preexisting hydrological connection or a hydrological connection created by the process of taking that groundwater;</p> <p>(b) the taking of groundwater that is not a Basin water resource resulting in water that would otherwise flow directly or indirectly into an SDL resource unit in the water resource plan area no longer flowing into that unit.</p>	<p>Victoria's North and Murray water resource plan area</p> <p>No effects or potential effects have been identified relating to the use and management of the water resources in Victoria's North and Murray water resource plan area relating to the taking of groundwater that is not a Basin water resource.</p> <p>The groundwater from the New Volcanics formation south of the Loddon Highlands water supply protection area is hydraulically connected to the Basin water resource in the Goulburn-Murray Highlands SDL resource unit but is not considered to have a potential effect on the use and management of water resources of the water resource plan area.</p>	n/a	<p>The investigation documented within "Loddon Highlands WSPA Groundwater Modelling, 2011" found lateral flow was not significant.</p> <p>See Figure 2-4 of Victoria's North and Murray Comprehensive Report for an indication of the resource that sits outside of the Goulburn-Murray water resource plan area marked as the "Loddon Highlands WSPA".</p>
10.14(2)	<p>If a water resource plan identifies an effect, or potential effect, of the kind referred to in subsection (1), the water resource plan must set out:</p> <p>(a) a process for monitoring that effect or potential effect; and</p> <p>(b) actions that will be taken to respond to that effect or potential effect.</p>	<p>Victoria's North and Murray water resource plan area</p> <p>This requirement is not relevant to Victoria's North and Murray Water Resource Plan as no effect or potential effect of the kind referred to in section 10.14(1) of the Basin Plan was identified.</p>	n/a	
10.14(3)	<p>Without limiting paragraph (2)(b), the water resource plan may require a person to hold a water access right in the water resource plan area in relation to the effect, or potential effect, identified.</p>	<p>Victoria's North and Murray water resource plan area</p> <p>This matter assists in the interpretation of section 10.14(1) of the Basin Plan and does not contain a water resource plan requirement.</p>	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.15(1)	A water resource plan must set out how the quantity of water actually taken for consumptive use by each form of take from each SDL resource unit will be determined after the end of a water accounting period using the best information available at the time.	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of the Comprehensive Report.</p> <ol style="list-style-type: none"> The method for annual actual take set out in Column 4 at Item 1 applies to for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report for the Owens SDL resource unit (SS4) in the Northern Victoria water resource Plan area. The methods for annual actual take set out in Column 4 at Items 2-3 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to the following SDL resource units in the Northern Victoria water resource plan area: <ul style="list-style-type: none"> (a) Goulburn (SS6); (b) Broken (SS5); (c) Campaspe (SS7); (d) Loddon (SS8). The methods for annual actual take set out in Column 4 for Items 4-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to all SDL resource units in the Northern Victoria water resource plan area. 	n/a	<p>Reference to column numbers in this section refer to the column number of the header row of the relevant table. In some instances, the response for a particular item may be merged across two columns.</p> <p>This requirement is met as the methods used for estimating or determining actual take for the forms of take for surface water in the Northern Victoria water resource plan area and the Victorian Murray water resource plan area are outlined in Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>The text in Column 3 of this row identifies the water resources to which the content in Column 4 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report applies.</p>
		<p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>The method set out in Column 4 at Item 1 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report applies to take from a watercourse (excluding basic rights) for the Victorian Murray SDL resource unit (SS2), Kiewa SDL resource unit (SS3) in the Victorian Murray water resource Plan area.</p> <p>The methods set out in Column 4 for Items 3-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to the Victorian Murray SDL resource unit.</p> <p>The methods set out in Column 3 for Items 4-7 for the forms of take identified in Column 2 of Table 6 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to the Kiewa SDL resource unit.</p>	n/a	<p>Reference to column numbers in this section refer to the column number of the header row of the relevant table. In some instances, the response for a particular item may be merged across two columns.</p> <p>This requirement is met as the methods used for estimating or determining actual take for the forms of take for groundwater in the Goulburn-Murray water resource plan area are outlined in Table 11 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>The text in Column 3 of this row identifies the water resources to which the content in Table 11 of Appendix C to Victoria's North and Murray Comprehensive Report applies.</p>
		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>The methods set out in Column 3 for the forms of take identified in Column 1 of Table 11 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report apply to all SDL resource units in the Goulburn-Murray water resource plan area.</p>	n/a	<p>Reference to column numbers in this section refer to the column number of the header row of the relevant table. In some instances, the response for a particular item may be merged across two columns.</p> <p>This requirement is met as the methods used for estimating or determining actual take for the forms of take for groundwater in the Goulburn-Murray water resource plan area are outlined in Table 11 of the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.</p> <p>The text in Column 3 of this row identifies the water resources to which the content in Table 11 of Appendix C to Victoria's North and Murray Comprehensive Report applies.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10:15(2)	For a particular form of take, and subject to the requirement that a determination use the best information available at the time, a determination may be made by: <ul style="list-style-type: none"> (a) measuring the quantity of water actually taken; or (b) estimating the quantity of water actually taken; or (c) a combination of the above. 	Victoria's North and Murray water resource plan area This matter assists in the interpretation of section 10:15(1) of the Basin Plan and does not contain a water resource plan requirement. Whether actual take is measured or estimated is set out in Table 6 , and Table 11 , of Appendix C to Victoria's North and Murray Comprehensive Report.	n/a	
10:15(3)	Where a determination for a form of take is made by estimating the quantity of water actually taken, the water resource plan must provide for the estimate to be done consistently with the method under subsection 10:10(1) that relates to that form of take.	Victoria's North and Murray water resource plan area In Victoria's North and Murray water resource plan area, where the determination of actual take is estimated, the method is the same as the method used to determine permitted take under section 10:10(1) of the Basin Plan.	n/a	This requirement is met in Victoria's North and Murray water resource plan area as the method used for determining actual take is based on the same information source used to determine permitted take where the volumes are estimated.
10:15(4)	The quantity of water actually taken must: <ul style="list-style-type: none"> (a) include water that was held environmental water which was disposed of and then used in the SDL resource unit for consumptive use; and (a) exclude water sourced from the Great Artesian Basin and released into and taken from a Basin water resource. 	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Methods for determining actual take in accordance with section 10:15(1) of the Basin Plan include water that was held environmental water which was disposed of and then used in the relevant SDL resource unit for consumptive use. No water is sourced from the Great Artesian Basin and released in Victoria's North (surface water) water resource plan area.	n/a	See discussion on section 10:12(1)(d) and section 10:12(1)(h) of the Basin Plan above.
		Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The matter listed in section 10:15(4)(a) of the Basin Plan is not relevant to the Goulburn-Murray water resource plan area. No water is sourced from the Great Artesian Basin and released in the Goulburn-Murray water resource plan area.	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 4	The sustainable use and management of water resources			
10.16	This Part sets out the requirements in relation to the sustainable use and management of water resources of the water resource plan area within the long-term annual diversion limit for an SDL resource unit.	Victoria's North and Murray water resource plan area This matter assists in the interpretation of Part 4 of Chapter 10 of the Basin Plan and does not require accredited content for Victoria's North and Murray Water Resource Plan.	n/a	
10.17(1)	A water resource plan must be prepared having regard to whether it is necessary for it to include rules which ensure that the operation of the Plan does not compromise the meeting of environmental watering requirements of priority environmental assets and priority ecosystem functions.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	<p>Part 4, Chapter 10 of the Basin Plan requires the consideration of whether Victoria's North and Murray Water Resource Plan should contain rules to mitigate the impact of the operation of other elements of the Plan on environmental watering in Victoria's North and Murray (surface water) water resource plan area.</p> <p>For further discussion on significant hydrological connections see response to section 10.05(b) of the Basin Plan outlined in Column 3 and Column 5 of Victoria's North and Murray Index Table. Connectivity as described in that part of this Index informed the response provided in response to Part 4 of the Basin Plan.</p> <p>The following discussion applies to the response to section 10.17 of the Basin Plan for surface water and groundwater water resource plan areas in Victoria's North and Murray Water Resource Plan. See also discussion in Column 5 of Victoria's North and Murray Index Table in response to sections 10.22 and 10.26(1) of the Basin Plan. A summary of specific risks to:</p> <ul style="list-style-type: none"> priority environmental assets provided in Table 5-5 and Table 5-8 environment and environmental watering in respect of water availability are summarised in Section 5.3.1 and Section 5.4.1 and Table 5-3 and Table 5-6 environment and environmental watering in respect of water condition are summarised in Section 5.3.2 and Section 5.4.2 and Table 5-4 and Table 5-7 of Victoria's North and Murray Comprehensive Report. <p>Risks relating to uncontrolled water or above cap water (for the purposes of the Risk Assessment outlined in Appendix B above cap water does not include system water as that was assessed separately given its higher reliability) and the relevant risks to that water are identified in Table 5-3 and Table 5-6 in Victoria's North and Murray Comprehensive Report. See Column 5 for an outline of the different components of Victoria's North and Murray Risk Assessment Report at Appendix B.</p> <p>Section 10.17 of the Basin Plan applies to environmental watering requirements of priority environmental assets (PEAs) and priority ecosystem functions (PEFs).</p> <p>See the response to section 10.05(b) of the Basin Plan for a discussion on connectivity between resources within and to resources outside of the Victoria's North and Murray water resource plan area.</p> <p>Coordination of environmental watering is discussed at Section 12.7.4 of Victoria's North and Murray Comprehensive Report. The impact of environmental watering in Victoria on Basin States connected to Victoria through the River Murray is outlined in that Section. See also Figure 12-7 for the process for coordinating environmental watering in the River Murray. In Victoria, the Victorian Environmental Water Holder (VEWH) manages held environmental water. The VEWH meets Victorian environmental watering objectives, including the requirements of PEAs, through water available under its environmental entitlements. This occurs in regulated systems, where there is ability to store and release water at specific times and volumes. All of Victoria's PEAs are located in regulated systems where there is the specific ability to deliver held environmental water to meet the PEAs' watering requirements.</p> <p>The PEA watering requirements are set out in the long-term watering plan and relevant asset-based environmental water management plans. The available environmental entitlement will meet these requirements, under dry, average or wet scenarios as outlined in environmental watering plans.</p> <p>The MDBA has advised that in its opinion Victoria's Long-Term Watering Plans (LTWPs) for Victorian Murray water resource plan area and the Northern Victoria water resource plan area do not adequately describe long-term watering requirements for Victoria's priority environmental assets and priority ecosystem functions. Therefore, to meet Basin Plan requirements for Part 4 of Chapter 10, Victoria's Environmental Water Management Plans (EWMPs) are identified (rather than the long-term watering plans) as outlining environmental watering requirements for the purposes of Victoria's North and Murray Water Resource Plan. Following any updates to the LTWPs that satisfy the requirements of the Basin Plan in outlining environmental watering requirements, Victoria's North and Murray Water Resource Plan may be updated to refer to LTWPs instead of EWMPs.</p>

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10.17(2)	<p>Without limiting subsection (1), regard must be had to whether it is necessary for the rules to prescribe:</p> <ul style="list-style-type: none"> (a) the times, places and rates at which water is permitted to be taken from a surface water SDL resource unit; and (b) how water resources in the water resource plan area must be managed and used. 	<p>Victoria's North and Murray water resource plan area</p> <p>No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.</p>	n/a	<p>EWMPs contain the long-term environmental watering requirements for each PEA identified for Victoria's North and Murray water resource plan area. EWMPs are not prepared for PEFs and Victoria relies on its LTWPs for this purpose.</p> <p>Although efficiencies are made through use of tools, the environmental entitlement is the primary mechanism for achieving the watering requirements of PEAs. See Section 12.7.6 of Victoria's North and Murray Comprehensive Report. All environmental entitlements are protected under Victoria's water management framework.</p> <p>Victoria's water corporations manage water resources and access to water to ensure that all users in the system are supported, including the VEWH. Section 12.4.3 of Victoria's North and Murray Comprehensive Report discusses other water that contributes to the environment. See also Section 7.2.2 which discusses water entitlements and Section 7.2.2.4 which discusses above cap water.</p> <p>See also Section 12.4.4 for a discussion on how water that contributes to environmental objectives (but is not held environmental water or planned environmental water) is protected under Victoria's water resource management framework.</p> <p>Above cap water can also contribute to environmental objectives for PEA (see Section 12.5.1 of Victoria's North and Murray Comprehensive Report) and PEF (see Section 12.5.2 of Victoria's North and Murray Comprehensive Report) by requiring the use of less held environmental water that would otherwise be needed if the above cap water was not present. The effect of this is that increased efficiency in using held environmental water means the VEWH can allocate saved water to other uses to be maximise environmental outcomes. See response to section 10.26(1) of the Basin Plan for further information on above cap water.</p> <p>See the following parts of Victoria's North and Murray Comprehensive Report for further details: Chapter 6: Victoria's water institutions and functions, Chapter 7: Victoria's water entitlement framework and trade, and Chapter 12: Environmental water.</p> <p>In assessing whether rules were required in Victoria's North and Murray Water Resource Plan to ensure environmental watering to meet requirements of the PEAs is not compromised, other components of the Plan were considered. As Victoria's North and Murray Water Resource Plan only includes rules on rights to take water that ensure that entitlement holders comply with the conditions of their entitlements (see response to section 10.08(2) of the Basin Plan), nothing in this Plan compromises the meeting of environmental watering requirements. On that basis it is not considered that rules are necessary to ensure the operation of Victoria's North and Murray Water Resource Plan and would compromise the meeting of environmental watering requirements. However to support the continued contribution of above cap water to the meeting of environmental watering objectives of PEAs and PEFs, a rule has been included to require the storage manager to manage the system to achieve this. The rule references the relevant environmental water management plan to identify the environmental watering requirements of the relevant PEAs and PEFs for the system being managed.</p> <p>See Appendix B to Victoria's North and Murray Comprehensive Report for a discussion of risks to environmental watering of PEAs and PEFs and the description of the relevant strategies in Table 3.2.36 to Table 3.2.39 and Table 3.4.33 to Table 3.4.36 in Appendix B.</p> <p>Rules to manage environmental watering requirements that are dependent on groundwater or where there are surface water connections is considered in response to sections 10.18 and 10.19 of the Basin Plan.</p>

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10.17(3)	If the outcome of the requirement in subsection (1) is that such rules are necessary, the water resource plan must include those rules.	<p>Victoria's North and Murray water resource plan area</p> <p>The storage manager will manage the system and above cap water in line with the Victorian water management framework described in Victoria's North and Murray Water Resource Plan in response to section 10.26(1) of the Basin Plan so the environmental watering requirements of PEAs and PEFs identified in relevant environmental water management plans are met, which is the responsibility of the VEWH.</p> <p>Note: see response to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table for a discussion of environmental watering arrangements in Victoria.</p>	n/a	<p>The matters identified for section 10.17(2) of the Basin Plan were considered to inform the analysis for section 10.17(1) of the Basin Plan, as follows. The rules water access right holders in Victoria comply with may relate to the time, place and rates at which water is permitted to be taken and how water in the water resource plan area must be managed and used. In Victoria, all take and use licences are subject to standard terms and conditions. Included in the standard conditions are provisions relating to the time, place and rate of take water is permitted to be taken under that take and use licence. These rules are applied to all individual entitlements (the exception is bulk entitlements, which contain rules for the management of the system) at the time of issuing the licence. They are considered independently of priority environmental watering and are developed to support reliability of all entitlements in the system (including held environmental water). The storage manager, in managing the system, is responsible for delivering water for all users in the system including the VEWH and CEWH in accordance with any orders made and in consultation with all entitlement holders. All bulk entitlements and environmental entitlements are available on the Victorian Water Register see response to section 10.09(3) of the Basin Plan for a link.</p> <p>Appendix B to Victoria's North and Murray Comprehensive Report outlines the risks identified in Victoria's North and Murray water resource plan area and discusses risks relating to section 10.17 of the Basin Plan at Section 12.9 of Victoria's North and Murray Comprehensive Report. Management of risks to environmental watering are also discussed at Section 12.7.8 of Victoria's North and Murray Comprehensive Report.</p> <p>How these risks were considered in responding to Part 4 of Chapter 10 of the Basin Plan is discussed below in response to section 10.22(b) of the Basin Plan and in Section 12.9 of Victoria's North and Murray Comprehensive Report. See also Part 3.2.6 and Part 3.4.6 of Appendix B to Victoria's North and Murray Comprehensive Report.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.18(1)	A water resource plan must be prepared having regard to whether it is necessary for it to include rules which ensure that, for priority environmental assets and priority ecosystem functions that depend on groundwater, the operation of the plan does not compromise the meeting of environmental watering requirements.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	See discussion in Column 5 in response to section 10.22 of the Basin Plan in Victoria's North and Murray Index Table for a discussion on environmental watering requirements. See also the response in Column 3 and Column 5 to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table. The response to section 10.26(1) of the Basin Plan outlines how baseflows are considered in environmental water. Section 10.18 of the Basin Plan applies to environmental watering requirements of priority environmental assets (PEAs) and priority ecosystem functions (PEFs) dependent on groundwater systems and as such meets the requirements of section 10.18 of the Basin Plan for Victoria's North and Murray water resource plan.
10.18(2)	Without limiting subsection (1), regard must be had to whether it is necessary for the water resource plan to include rules that specify: <ul style="list-style-type: none"> (a) the times, places and rates at which water is permitted to be taken from a groundwater SDL resource unit; and (b) resource condition limits, being limits beyond which the taking of groundwater will, for a priority environmental asset that depends on groundwater, compromise an environmental watering requirement; and (c) restrictions on the water permitted to be taken (including the times, places and rates at which water may be taken) in order to prevent a resource condition limit from being exceeded. 	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	The MDBA has advised that in its opinion Victoria's Long-Term Watering Plans (LTWPs) for Victorian Murray water resource plan area and the Northern Victoria water resource plan area do not adequately describe long-term watering requirements for Victoria's priority environmental assets and priority ecosystem functions. Therefore, to meet Basin Plan requirements for Part 4 of Chapter 10, Victoria's Environmental Water Management Plans (EWMPs) are identified (rather than the long-term watering plans) as outlining environmental watering requirements for the purposes of Victoria's North and Murray Water Resource Plan. Following any updates to the LTWPs that satisfy the requirements of the Basin Plan in outlining environmental watering requirements, Victoria's North and Murray Water Resource Plan may be updated to refer to LTWPs instead of EWMPs. EWMPs contain the long-term environmental watering requirements for PEA identified for Victoria's North and Murray water resource plan area. EWMPs are not prepared for PEFs and therefore Victoria relies on its LTWPs for this purpose. Ensuring environmental watering requirements are met when there is a significant connection between surface water and groundwater is discussed in Section 12.8.4 of Victoria's North and Murray Comprehensive Report. Groundwater dependency of the PEAs has been categorised, based on best available information, into high, medium, low confidence, or unknown. While some PEAs have a known groundwater dependency, the primary mechanism for meeting the environmental watering requirements is the held environmental water delivery. It is acknowledged that groundwater inflows, or in some cases reduction, may provide additional environmental benefit, but are not the primary mechanism for meeting the PEA watering requirements. However, groundwater is protected or managed under Victoria's water management framework, as specified in the explanatory material above for section 10.17 of the Basin Plan. A list of groundwater dependant PEAs is provided at Table 7 , Table 8 , Table 9 and Table 10 in Appendix E to Victoria's North and Murray Comprehensive Report. An outline of the relevant environmental watering requirements for each PEA is identified in its Environmental Water Management Plans available at https://www.water.vic.gov.au/waterways-and-catchments/rivers-estuaries-and-waterways/environmental-water/environmental-water-management-plan See the response to section 10.17 of the Basin Plan in Column 5 for discussion on the types of rules identified in section 10.18(2) of the basin Plan. The discussion applies here also. Management instruments are developed in consultation with local stakeholders, customer groups, environmental representatives and relevant government agencies. Management plans are typically reviewed at least every 5 years, as monitoring information, groundwater level observations and other analyses provide better information for management purposes. These may suggest changes to management plans to improve resource management outcomes. These adaptive management approaches improve equitable and sustainable resource management. See Section 12.8.3 of Victoria's North and Murray Comprehensive Report for further details.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.18(3)	If the outcome of the requirement in subsection (1) is that such rules are necessary, the water resource plan must include those rules.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> The Minister may prepare guidelines under section 30 of the <i>Water Act 1989</i> (Vic) for the preparation of a draft management plan for an area declared under section 27 of the <i>Water Act 1989</i> (Vic) to require the consultative committee to consider the matters in paragraph (4) when developing a draft statutory management under section 31 of the <i>Water Act 1989</i> (Vic). The guidelines may require the consultative committee to consider whether the draft statutory management plan should include prescriptions for groundwater management having regard to: <ol style="list-style-type: none"> groundwater dependent priority environmental assets and priority ecosystem functions as identified in the Northern Victoria Long-Term Watering Plan and the Victorian Murray Long-Term Watering Plan; any risks to meeting environmental watering requirements for those groundwater dependent priority environmental assets and priority ecosystem functions as a result of groundwater take in the area. Prescriptions identified in accordance with paragraph (4) may include: <ol style="list-style-type: none"> a requirement to undertake monitoring; the period and frequency over which the monitoring should occur; the locations at which monitoring should occur; identified trigger levels to reflect when extraction would pose a risk to the aquifer; restrictions that may be applied to the extraction of groundwater under a take and use licence and how the restrictions will be applied; conditions on the transfer of take and use licences within or into the relevant water supply protection area. In considering a draft statutory management plan under section 32A of the <i>Water Act 1989</i> (Vic), the Minister must consider whether the prescriptions included in the draft plan address the types of risks referred in paragraph (4) if identified for the water supply protection area relevant to the draft plan. The storage manager will manage the system and above cap water in line with the Victorian water management framework described in Victoria's North and Murray Water Resource Plan in response to section 10.26(1) of the Basin Plan so the environmental watering requirements of PEAs and PEFs identified in relevant environmental water management plans are met, which is the responsibility of the VEWH. References to sections of the <i>Water Act 1989</i> (Vic) do not have the purpose of including those sections as part of the response but are included for reference only. <p>Note 1: For environmental watering obligations and requirements see the response in Column 3 to section 10.26 of the Basin Plan in Victoria's North and Murray Index Table and the supplementary material discussed in Column 5.</p> <p>Note 2: see response to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table for a discussion of environmental watering arrangements in Victoria.</p>	Minister	<p>Above cap water can also contribute to environmental objectives for PEA (see Section 12.5.1 of Victoria's North and Murray Comprehensive Report) and PEF (see Section 12.5.2 of Victoria's North and Murray Comprehensive Report) by requiring the use of less held environmental water that would otherwise be needed if the above cap water was not present. The effect of this is that increased efficiency in using held environmental water means the VEWH can allocate saved water to other uses to be maximise environmental outcomes. See response to section 10.26(1) of the Basin Plan for further information on above cap water.</p> <p>See also discussion in response to section 10.17 relating to risks to the environment, environmental water and priority environmental assets and priority ecosystem functions. How these risks were considered in responding to Part 4 of Chapter 10 of the Basin Plan is discussed below in response to section 10.22(b) of the Basin Plan and in Section 12.9 of Victoria's North and Murray Comprehensive Report. See also Section 3.3.6 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>The rule identified in Column 3 of Victoria's North and Murray Index Table in response to section 10.18 of the Basin Plan for the purposes of Victoria's North and Murray water resource plan area apply to all the water resources in the plan area where a water supply protection area is declared. The rule at paragraph 5 in column 3, has been included to support the continued contribution of above cap water so the VEWH can meet the environmental watering objectives of PEAs and PEFs, through the management of the system. The rule is a requirement on the storage manager and references the relevant environmental water management plan to identify the environmental watering requirements of the relevant PEAs and PEFs for the system being managed.</p> <p>Table 12-4 in Victoria's North and Murray Comprehensive Report outlines the existing arrangements under the Victorian Water Act and in statutory management plans that align with the requirements for Part 4 of Chapter 10 of the Basin Plan.</p>

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10:18(3)	If the outcome of the requirement in subsection (1) is that such rules are necessary, the water resource plan must include those rules.	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. This rule only applies where a statutory management plan has not been approved under section 32A of the <i>Water Act 1989</i> (Vic) and groundwater dependent ecosystems have been identified as high value in the Goulburn-Murray water resource plan area:</p> <p>(a) the Minister must undertake a risk assessment to determine whether the issue of a new licence or transfer of an existing licence will have a medium or high risk of having an adverse impact on the groundwater dependent ecosystem;</p> <p>(b) where a medium or high risk under paragraph (1), before issuing a take and use licence or approving the transfer a take and use licence for the take of groundwater the Minister must consider whether conditions should be imposed on the take and use licence to modify:</p> <p>(i) the adverse consequences of the take including pumping schedules, offsets, options for supplementing surface water flows;</p> <p>(ii) the adverse impact of the take including reducing the entitlement volume or location of the bore.</p> <p>2. Where a water supply protection area has been declared under section 27 of the <i>Water Act 1989</i> (Vic) the rule under (1) above does not apply.</p>	Minister	<p>The rule identified in Column 3 of Victoria's North and Murray Index Table in response to section 10:18(3) of the Basin Plan for the purposes of the Goulburn-Murray water resource plan area applies in respect of an application to transfer (trade) a take and use licence (water access right) for the take and use of groundwater where a risk to a groundwater dependent PEA or PEF is identified. This rule does not apply where a statutory management plan is in place. The rule identified reflects the <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015) regarding decisions to issue or transfer (trade) that applies to decisions relating to a take and use licence for the taking of groundwater in the Goulburn-Murray water resource plan area. Under the Guidelines the Minister (or delegate):</p> <p>(a) undertakes a risk assessment to determine the existence of high value ecosystems dependent on the relevant groundwater;</p> <p>(b) determines risk to the ecosystem dependent on groundwater;</p> <p>(c) determines how risk will be managed.</p> <p>The operation of this existing process is outlined in the Ministerial Guidelines. This takes a risk-based approach to identify where a proposed groundwater take may result in a threshold of impact at the boundary of a potential groundwater dependent ecosystem. It is applicable at all potential groundwater-dependent ecosystems, including PEAs.</p> <p>As identified above in relation to the response to section 10.17 of the Basin Plan as Victoria's North and Murray Water Resource Plan only includes rules on rights to take water that ensure that entitlement holders comply with the conditions of their entitlements (see response to section 10.08(2) of the Basin Plan), nothing in Victoria's North and Murray Water Resource Plan compromises the meeting of environmental watering requirements. On that basis it is not considered that rules are necessary to ensure the operation of Victoria's North and Murray Water Resource Plan and would compromise the meeting of environmental watering requirements.</p> <p>Table 12-4 in Victoria's North and Murray Comprehensive Report outlines the existing arrangements under the Victorian Water Act and in statutory management plans that align with the requirements for Part 4 of Chapter 10 of the Basin Plan.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.19(1)	A water resource plan must be prepared having regard to whether it is necessary for it to include rules which ensure that, for groundwater that has a significant hydrological connection to surface water, the operation of the plan does not compromise the meeting of environmental watering requirements (for example, base flows).	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	See discussion in Column 5 in response to section 10.17 of the Basin Plan in Victoria's North and Murray Index Table for a discussion on environmental watering requirements. See also the response in Column 3 and Column 5 to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table. The response to section 10.26(1) of the Basin Plan outlines how baseflows are considered in environmental water.
10.19(2)	Without limiting subsection (1), regard must be had to whether it is necessary for the water resource plan to include rules that specify: <ul style="list-style-type: none"> (a) the times, places and rates at which water is permitted to be taken from a groundwater SDL resource unit; and (b) resource condition limits, being limits beyond which the taking of groundwater will compromise the discharge of water into any surface water resource; and (c) restrictions on the water permitted to be taken (including the times, places and rates at which water may be taken) in order to prevent a resource condition limit from being exceeded. 	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	See also the discussion in response to section 10.17 of the Basin Plan relating to risks to the environment, environmental water and (PEAs) and (PEFs). Take and use licences are issued for the take and use of both unregulated surface water and groundwater. The considerations relating to the issue of a take and use licence under sections 40 and 53 of the Victorian Water Act apply to both surface water and groundwater licences. The matters identified in paragraphs (7)(c)(iv), (v) and (vi) and (7)(e) of Column 3 of Victoria's North and Murray Index Table in response to section 10.26(1) of the Basin Plan apply to groundwater and require licensing of groundwater to consider the impacts on surface water systems or groundwater dependent environmental assets. See discussion in Column 5 of this Index against section 10.17 of the Basin Plan for explanation of priority environmental assets (PEAs) and priority ecosystem functions (PEFs). Above cap water can also contribute to environmental objectives for (PEAs) (see Section 12.5.1 of Victoria's North and Murray Comprehensive Report) and (PEFs) (see Section 12.5.2 of Victoria's North and Murray Comprehensive Report) by requiring the use of less held environmental water that would otherwise be needed if the above cap water was not present. See response to section 10.26(1) of the Basin Plan for further information on above cap water. See response to section 10.05 of the Basin Plan in this Index for discussion of significant hydrological connections between surface water and groundwater in Victoria's North and Murray water resource plan area. See also discussion in Section 12.8.2 of Victoria's North and Murray Comprehensive Report. As identified above in relation to the response to sections 10.17 and 10.18 of the Basin Plan, for Victoria's North and Murray Water Resource Plan existing rules on rights to take water ensure that entitlement holders comply with the conditions of their entitlements (see response to section 10.08(2) of the Basin Plan), therefore nothing in this Plan compromises the meeting of environmental watering requirements. On that basis it is not considered that rules are necessary to ensure the operation of Victoria's North and Murray Water Resource Plan will compromise the meeting of environmental watering requirements. See the response to sections 10.17 and 10.18 of the Basin Plan in Column 5 for discussion on the types of existing rules identified to meet section 10.19(2) of the Basin Plan. The discussion applies here also. Further discussion of existing rules and arrangements is provided at Section 12.6 of Victoria's North and Murray Comprehensive Report. As discussed above for the response to section 10.18 of the Basin Plan, Ministerial Guidelines are in place that must be applied in decisions to issue or transfer (trade) a take and use licence for the taking of groundwater in the Goulburn-Murray water resource plan area. They require the Minister (or delegate) to: <ul style="list-style-type: none"> (a) undertake a risk assessment to determine the existence of high value ecosystems dependent on the relevant groundwater; (b) determine risk to the ecosystem dependent on groundwater where there is a significant connection between surface water and groundwater; (c) determine how risk will be managed.

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10.19(3)	If the outcome of the requirement in subsection (1) is that such rules are necessary, the water resource plan must include those rules.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> This rule only applies where a management plan for a water supply protection area has not been approved under section 32A of the <i>Water Act 1989</i> (Vic) and where a significant hydrological connection between surface water and groundwater has been identified in the Goulburn-Murray water resource plan area and groundwater extraction has been identified as affecting surface water flow relating to a high value ecosystem: <ol style="list-style-type: none"> The Minister must undertake a risk assessment to determine whether the issue of a groundwater take and use licence or transfer of groundwater take and use licence will have a medium or high risk of having an adverse impact on the high value ecosystem; where a medium or high risk under paragraph (1) is identified, before issuing or approving the transfer a take and use licence for the take of groundwater the Minister must, in consultation with the relevant catchment management authority, consider whether conditions may be imposed on the take and use licence to modify: <ol style="list-style-type: none"> the adverse consequences of the take (which may include pumping schedules, offsets, options for supplementing surface water flows); the adverse impact of the take (which may include reducing the entitlement volume or location of the bore). Where a water supply protection area has been declared under section 27 of the <i>Water Act 1989</i> (Vic) the rule under (1) above does not apply. Where a water supply protection area has been declared under section 27 of the <i>Water Act 1989</i> (Vic) the Minister may prepare guidelines under section 30 of the <i>Water Act 1989</i> (Vic) relating to the preparation of a draft statutory management plan for that declared area to require the consultative committee to consider the matters in paragraph (4) when developing a draft statutory management under section 31 of the <i>Water Act 1989</i> (Vic). The guidelines may require the consultative committee to consider whether the draft statutory management plan should include prescriptions for groundwater management having regard to: <ol style="list-style-type: none"> any significant hydrological connection between groundwater and surface water; and any risk to meeting environmental watering requirements as a result of groundwater take in the area. <p>Prescriptions identified in accordance with paragraph (4) may include:</p> <ol style="list-style-type: none"> a requirement to undertake monitoring; the period and frequency over which the monitoring should occur; the locations at which monitoring should occur; identified trigger levels to reflect when extraction would pose a risk to the aquifer; restrictions that may be applied to the extraction of groundwater under a take and use licence and how the restrictions will be applied; conditions on the transfer of take and use licences within or into the relevant water supply protection area. 	Minister	<p>The operation of this existing process is outlined in the <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015). This takes a risk-based approach to identify where a proposed groundwater take may result in a threshold of impact at the boundary of a potential groundwater dependent ecosystem. It is applicable at all potential groundwater-dependent ecosystems, including PEAs.</p> <p>The analysis of PEAs in the Groundwater Logic (2018) study concluded that most of the PEAs across the Victorian Murray and Northern Victorian water resource plan area are classified as low risk from interventions to the groundwater system through excessive pumping deficiencies in existing resource management arrangements. The study found that no wetlands were classified above a "low" risk rating and only four river reaches were classified as being moderate to high risk GDEs, these being two Lower Owens River reaches and two Broken Creek reaches. For these, however, there are management rules in place for the Lower Owens River which identify a baseflow-related target for environmental watering; and the Broken Creek reaches are covered by local arrangements contained within the Shepparton Irrigation Region GMA Plan and the Katunga WSPA plan. This study concludes that "no further recommendations for managing effects on GDEs, other than those that are already in place under Victoria's existing water management framework are considered necessary" (Groundwater Logic 2018).</p> <p>The rule under (1) in Column 3 of Victoria's North and Murray Index Table in response to section 10.19(3) of the Basin Plan identifies a requirement to surface water flows in relation to PEAs and PEFs. See Section 12.8.4 of Victoria's North and Murray Comprehensive Report for further explanation about how Victoria manages significant connections between groundwater and surface water in relation to environmental watering.</p> <p>How these risks were considered in responding to Part 4 of Chapter 10 of the Basin Plan is discussed below in response to section 10.22(b) of the Basin Plan and in Section 12.9.2 of Victoria's North and Murray Comprehensive Report. See also Part 3.3.6 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Management instruments are developed in consultation with local stakeholders, customer groups, environmental representatives and relevant government agencies.</p> <p>Management plans are typically reviewed at least every 5 years, as monitoring information, groundwater level observations and other analyses provide better information for management purposes. These may suggest changes to management plans to improve resource management outcomes. These adaptive management approaches improve equitable and sustainable resource management.</p> <p>Table 12-4 in Victoria's North and Murray Comprehensive Report outlines the existing arrangements under the Victorian Water Act and in statutory management plans that align with the requirements for Part 4 of Chapter 10 of the Basin Plan.</p> <p>No rules have been included in response to section 10.28 of the Basin Plan as the requirements under section 10.09 and 10.28 operate to ensure that there is no net reduction to the protection of planned environmental water. Section 10.19 of the Basin Plan requires that the water resource plan ensure the operation of the plan does not compromise the meeting of environmental watering requirements where there are significant hydrological connections between surface water and groundwater. The identification of environmental watering requirements is done separately from the identification and protection of water for the environment. On this basis no rules are required for the purposes of section 10.28 of the Basin Plan in response to section 10.19 of the basin plan.</p>

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		<p>6. In considering a draft statutory management plan under section 32A of the <i>Water Act 1989</i> (Vic), the Minister must consider whether the prescriptions included in the draft plan address the types of risks referred in paragraph (4) if identified for the water supply protection area relevant to the draft plan.</p> <p>7. References to sections of the <i>Water Act 1989</i> (Vic) do not have the purpose of including those sections as part of the response but are included for reference only.</p> <p>Note 1: For environmental watering obligations and requirements see the response in Column 3 to section 10.26 of the Basin Plan in Victoria's North and Murray Index Table and the supplementary material discussed in Column 5.</p> <p>Note 2: see response to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table for a discussion of environmental watering arrangements in Victoria.</p>		

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10.20(1)	<p>A water resource plan must be prepared having regard to whether it is necessary for it to include rules which ensure that the operation of the plan does not compromise:</p> <p>(a) the overall structural integrity of the aquifer (whether within or outside the water resource plan area) arising from take within the long-term annual diversion limit for an SDL resource unit; or</p> <p>(b) the overall hydraulic relationships and properties between groundwater and surface water systems, between groundwater systems, and within groundwater systems.</p>	<p>Victoria's North and Murray water resource plan area</p> <p>No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.</p>	n/a	<p>Section 10.20 of the Basin Plan does not apply to surface water and therefore only applies to the Goulburn-Murray water resource plan area within Victoria's North and Murray Water Resource Plan.</p> <p>See discussion in Column 5 of this index for response to sections 10.17, 10.18 and 10.19 of the Basin Plan regarding types of rules on existing licences. The information contained in those responses applies to the response to section 10.20 of the Basin Plan.</p> <p>In assessing whether rules were required in Victoria's North and Murray Water Resource Plan to ensure structural integrity of an aquifer or hydraulic relationships between surface water and groundwater are not compromised by the operation of this Plan, other components of the Plan were considered. As Victoria's North and Murray Water Resource Plan only includes rules on rights to take water that ensure that entitlement holders comply with the conditions of their entitlements (see response to section 10.08(2) of the Basin Plan), nothing in this Plan compromises structural integrity of an aquifer or hydraulic relationships between surface water and groundwater. On that basis it is not considered that rules are necessary to ensure the operation of Victoria's North and Murray Water Resource Plan will not compromise the meeting of environmental watering requirements.</p> <p>There are, however, circumstances where local risks to structural integrity of an aquifer or hydraulic relationships between surface water and groundwater may arise because of circumstances outside the operation of Victoria's North and Murray Water Resource Plan. Areas potentially at risk are primarily where drawdown and de-watering may lead to changes in the structure of the aquifer or hydraulic gradients. Where a risk is identified is because the distribution or volume of entitlement in an area may lead to a significant drawdown. These are areas where limits to drawdown are defined.</p> <p>In issuing a licence under section 51, the Minister (or delegate) is required to have regard to any adverse effects the licence is likely to have on existing users, a waterway or aquifer and the maintenance of the environmental water reserve (Victorian Water Act, section 40(1)(d)). As the risk of structural damage is low it is not considered necessary to include rules in Victoria's North and Murray Water Resource Plan as existing arrangements are sufficient.</p> <p>See discussion in Column 5 of Victoria's North and Murray Index Table in response to sections 10.18 and 10.19 of the Basin Plan regarding surface water and groundwater connections.</p> <p>The rule developed in response to section 10.20(3) of the Basin Plan addresses the requirement in section 10.21 of the Basin Plan. In order to support consistent management of water resources across the Goulburn-Murray water resource plan area the proposed rule in response to section 10.21 of the Basin Plan for the Goulburn-Murray: Sedimentary Plain SDL resource unit has been included in Victoria's North and Murray Water Resource Plan in response to section 10.20(3) of the Basin Plan so that it applies to all SDL resource units in the Goulburn-Murray water resource plan area. On that basis, the rule in response to section 10.20(3) of the Basin Plan meets the objectives of section 10.20 and allows Victoria to adaptively respond to resource management issues without requiring amendment to Victoria's North and Murray Water Resource Plan.</p> <p>The rule provided in response to section 10.20(2) of the Basin Plan in Victoria's North and Murray Water Resource Plan reflects and supports arrangements in place in the following statutory management plans prepared for water supply protection areas in Goulburn-Murray water resource plan area. The relevant plans are:</p> <ul style="list-style-type: none"> Katunga Water Supply Protection Area Management Plan which applies to the Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/katungawspa Lower Campaspe Valley Water Supply Protection Area Groundwater Management Plan which applies to the Goulburn-Murray: Highlands, Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/lowercampaspevalleywspa
10.20(2)	<p>Without limiting subsection (1), regard must be had to whether it is necessary for the water resource plan to include rules that specify:</p> <p>(a) the times, places and rates at which water is permitted to be taken from a groundwater SDL resource unit; and</p> <p>(b) any zones in the water resource plan area where continued groundwater extraction will result in a long-term decline in groundwater levels; and</p> <p>(c) measures to prevent any long-term decline in groundwater levels in that zone, except where the groundwater is a non-renewable groundwater resource; and</p> <p>(d) for a non-renewable groundwater resource—the planned rate of decline in groundwater levels and the anticipated groundwater levels after 50 years from the commencement of the water resource plan; and</p> <p>(e) resource condition limits, being limits beyond which the taking of groundwater from the SDL resource unit will compromise the objectives in paragraphs (1)(a) and (b); and</p> <p>(f) restrictions on the water permitted to be taken (including the times, places and rates at which water may be taken) in order to prevent a resource condition limit from being exceeded.</p>	<p>Victoria's North and Murray water resource plan area</p> <p>No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.</p>	n/a	<p>See discussion in Column 5 of Victoria's North and Murray Index Table in response to sections 10.18 and 10.19 of the Basin Plan regarding surface water and groundwater connections.</p> <p>The rule developed in response to section 10.20(3) of the Basin Plan addresses the requirement in section 10.21 of the Basin Plan. In order to support consistent management of water resources across the Goulburn-Murray water resource plan area the proposed rule in response to section 10.21 of the Basin Plan for the Goulburn-Murray: Sedimentary Plain SDL resource unit has been included in Victoria's North and Murray Water Resource Plan in response to section 10.20(3) of the Basin Plan so that it applies to all SDL resource units in the Goulburn-Murray water resource plan area. On that basis, the rule in response to section 10.20(3) of the Basin Plan meets the objectives of section 10.20 and allows Victoria to adaptively respond to resource management issues without requiring amendment to Victoria's North and Murray Water Resource Plan.</p> <p>The rule provided in response to section 10.20(2) of the Basin Plan in Victoria's North and Murray Water Resource Plan reflects and supports arrangements in place in the following statutory management plans prepared for water supply protection areas in Goulburn-Murray water resource plan area. The relevant plans are:</p> <ul style="list-style-type: none"> Katunga Water Supply Protection Area Management Plan which applies to the Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/katungawspa Lower Campaspe Valley Water Supply Protection Area Groundwater Management Plan which applies to the Goulburn-Murray: Highlands, Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/lowercampaspevalleywspa

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.20(3)	If the outcome of the requirement in subsection (1) is that such rules are necessary, the water resource plan must include those rules.	<p>Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>No rules are necessary for Victoria's North (surface water) water resource plan area as rules to manage hydraulic relationships and properties are included in Victoria's North and Murray Water Resource Plan to apply to the Goulburn-Murray water resource plan area.</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> The Minister may prepare guidelines under section 30 of the <i>Water Act 1989</i> (Vic) for the preparation of a draft statutory management plan for an area declared under section 27 of the <i>Water Act 1989</i> (Vic) to require the consultative committee to consider the matters in paragraph (2) when developing a draft statutory management under section 31 of the <i>Water Act 1989</i> (Vic). The guidelines may require the consultative committee to consider whether the draft statutory management plan should include prescriptions for groundwater management having regard to: <ol style="list-style-type: none"> the risk to the structural integrity of the aquifer because of the level of take in the area; the risk to maintaining the hydraulic relationships and properties between groundwater and surface water systems, between groundwater systems and within groundwater system within the area. Prescriptions identified in accordance with paragraph (2) may include: <ol style="list-style-type: none"> a requirement to undertake monitoring; the period and frequency over which the monitoring should occur; the locations at which monitoring should occur; identified trigger levels to reflect when extraction would pose a risk to the aquifer; restrictions that may be applied to the extraction of groundwater under a take and use licence and how the restrictions will be applied. In considering a draft statutory management plan under section 32A of the <i>Water Act 1989</i> (Vic), the Minister must consider whether the prescriptions included in the draft plan address the types of risks referred in paragraph (2) if identified for the water supply protection area relevant to the draft plan. References to sections of the <i>Water Act 1989</i> (Vic) do not have the purpose of including those sections as part of the response but are included for reference only. 	Minister	<p>Loddon Highlands Water Supply Protection Area Groundwater Management Plan which applies to the Goulburn-Murray: Highlands, Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/loddonhighlandswspa</p> <p>Upper Owens River Water Supply Protection Area Water Management Plan which applies to the Goulburn-Murray: Highlands, Goulburn-Murray: Sedimentary Plains and Goulburn-Murray: deep SDL resource units. https://www.g-mwater.com.au/water-resources/ground-water/management/upperowenswspa</p> <p>Each Water Supply Protection Area Plan includes review and reporting requirements. For example, the Upper Owens River WSPA Management Plan is subject to annual reporting and a five-year review to assess whether the prescriptions in place are achieving the relevant objectives. The 2018 annual reports for each of the above plans can be found at the above links.</p> <p>Statutory management plans are supported by the Victorian Water Act. Section 32A of the Victorian Water Act sets out what a management plan may relate to and the matters which may be prescribed. It also provides an offence for the contravention of a management plan.</p> <p>See Section 12.8.5 of Victoria's North and Murray Comprehensive Report for more information regarding the response to section 10.20 of the Basin Plan.</p> <p>In respect of the matters outlined in section 10.20(2), the following is noted:</p> <ul style="list-style-type: none"> For 10.20(2)(a) - As discussed above in response to section 10.17, 10.18 and 10.19 of the Basin Plan conditions relating to time, place and rate of take on the authorisation to take groundwater from an aquifer are fundamental to Victoria's entitlement framework, for this reason it is not considered appropriate to include rules to that effect in Victoria's North and Murray Water Resource Plan. For 10.20(2)(b)-(f) – consideration of resource condition limits are fundamental to Victoria's licencing framework. As identified in section 53 (which also links to section 40) of Victoria's Water Act the Minister (or delegate) must consider the resource condition limit, or any permissible consumptive cap set for the resource. Equally the Minister (or delegate) must consider the adverse impact the take or use of water may have on an aquifer. This includes consideration of any potential for long-term declines in the resource. Additionally, the rule proposed which requires consideration and management of risks to structural integrity of an aquifer includes requires to monitor the resource and identify when restrictions should be imposed on extraction to address this issue <p>In addition to the measures outlined above as discussed in response to Part 8 of Chapter 10 of the Basin Plan in respect of groundwater trade, impacts of extraction on groundwater levels are also considered when applications are made for the transfer (trade) of a take and use licence authorising the take of groundwater. This assessment also informs decisions to issue a new entitlement. A more detailed hydrogeological resource assessment is undertaken in support of the development of statutory management plan for a declared water supply protection area.</p> <p>See discussion in Column 5 of Victoria's North and Murray Index Table in response to section 10.41(2)(b) of the Basin Plan for further information.</p> <p>See discussion of 'Temporal and spatial scale' in Part 1.2 of Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Table 12-4 in Victoria's North and Murray Comprehensive Report outlines the existing arrangements under the Victorian Water Act and in statutory management plans that align with the requirements for Part 4 of Chapter 10 of the Basin Plan.</p>

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.21(1)	A water resource plan for the NSW Murray-Darling Basin Porous Rock water resource plan area must, in relation to the Western Porous Rock, Gunnedah-Oxley Basin MDB and Sydney Basin MDB SDL resource units, include rules that are designed to ensure that the objectives set out in the following provisions are met: (a) section 10.18; (b) section 10.19; (c) section 10.20.	Victoria's North and Murray water resource plan area This matter is not relevant to Victoria's North and Murray Water Resource Plan.	n/a	No rules are necessary to prevent the matters described in section 10.21(1) of the Basin Plan. This requirement only applies to the Western Porous Rock, Gunnedah-Oxley Basin MDB and Sydney Basin MDB SDL resource units.
10.21(2)	A water resource plan for the Goulburn-Murray water resource plan area must, in relation to the Goulburn-Murray: Sedimentary Plain SDL resource unit, include rules that are designed to ensure that the objective set out in section 10.20 is met.	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. 1. Restrictions on taking groundwater and the granting or transfer of licences for the taking of groundwater in the Goulburn-Murray: Sedimentary Plain SDL resource unit must be informed by any resource condition limit specified in a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) for a water supply protection area declared under section 27 of the <i>Water Act 1989</i> (Vic). 2. See also the response to section 10.20(3) of the Basin Plan above for rules that apply to the groundwater resources in the Goulburn-Murray water resource plan area including Goulburn-Murray: Sedimentary Plain SDL. 3. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only.	n/a	In determining what rule should apply to meet the requirements of section 10.21(2) of the Basin Plan, consideration was given as to whether the rule should equally apply to the other SDL resource units in the Goulburn-Murray water resource plan area. On this basis the response to section 10.21(2) of the Basin Plan was applied as the response to section 10.20(3) of the Basin Plan to ensure consistent water resource management across all SDL resource units in the Goulburn-Murray water resource plan area. For a list of relevant statutory management plans already in place in the Goulburn-Murray: Sedimentary Plain SDL resource unit see the information contained in Column 5 for the response to section 10.20. In respect of those statutory management plans, resource condition limits for the purpose of section 10.21(1) of the Basin Plan include prescriptions in these plans relating to permissible consumptive volumes, trigger levels and restrictions, intensity rules and trade zone limits rules. Table 12-4 in Victoria's North and Murray Comprehensive Report outlines the existing arrangements under the Victorian Water Act and in statutory management plans that align with the requirements for Part 4 of Chapter 10 of the Basin Plan.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.22(a)	A water resource plan must: (a) describe what was done to comply with the requirements in this Part; and	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> In order to comply with this Part, each section of Part 4 was considered in the context of Victorian water resource management arrangements. Regard was had to the following: <ol style="list-style-type: none"> the operation of Victoria's North and Murray Water Resource Plan and any potential impact on the ability of Victoria to meet its environmental watering requirements referred to in Part 4 of Chapter 10 of the Basin Plan environmental watering requirements and objectives in regulated surface water systems to assess whether Victoria's environmental water was sufficient to meet environmental watering requirements and objectives as outlined in Victoria's environmental water management plans the location of connections between surface water and groundwater as identified in Column 3 of Victoria's North and Murray Index Table in response to section 10.05(b) of the Basin Plan in relation to priority environmental assets and priority ecosystem functions in regulated surface water systems as outlined in Column 5 of Victoria's North and Murray Index Table in response to section 10.18 of the Basin Plan the impact of groundwater use on priority environment assets and priority ecosystem functions as outlined in Column 5 of Victoria's North and Murray Index Table in response to section 10.18 of the Basin Plan existing water resource management arrangements underpinning Victoria's entitlement regime as outlined in Column 3 of Victoria's North and Murray Index Table in response to section 10.26(1) of the Basin Plan and explained in column 5 of that response existing statutory management plans in place for declared water supply protection areas to determine whether existing measures are appropriate to respond to any identified risks to meeting environmental watering requirements. Rules were included in response to the matters identified in sections 10.17 to 10.21 of the Basin Plan. A description of how this was considered is outlined in Column 5 of Victoria's North and Murray Index Table. There is nothing in Victoria's North and Murray Water Resource Plan that will compromise the meeting of environmental watering objectives in Victoria's North and Murray water resource plan area. This is because environmental watering requirements will be met through the operation of the response to section 10.26(1) of Victoria's North and Murray Water Resource Plan. 	n/a	<p>The response to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table outlines how environmental watering occurs in Victoria's North and Murray water resource plan area.</p> <p>Part 4 of the Basin Plan requires consideration of Victoria's environmental watering requirements. Victoria's water corporations manage water resources and access to water to ensure that all users in the system are supported, including the VEW. Annual watering priorities and relevant environmental watering requirements are reflected in the VEW's seasonal watering plan, which is available on the VEW website. This strategy for annual watering reflects the requirements of meeting long term watering requirements of environmental assets (priority environmental assets and priority ecosystem systems).</p> <p>The storage manager makes the releases of held environmental water on request by the VEW. The storage manager works with VEW to maximise the benefits of this water by providing VEW with information on other releases to be made to meet the needs of other entitlement holders or passing flow requirements so VEW can make release decisions to achieve maximum environmental benefits.</p> <p>MDBA has advised in its opinion, that Victoria's Long-Term Watering Plans (LTWPs) for Victorian Murray water resource plan area and the Northern Victoria water resource plan area do not adequately describe long-term watering requirements for Victoria's priority environmental assets and priority ecosystem functions. Therefore, Victoria's Environmental Water Management Plans (EWMPs) are identified as establishing environmental watering requirements for the purposes of Victoria's North and Murray Water Resource Plan.</p> <p>These EWMPs contain the long-term environmental watering requirements for each priority environmental asset identified for Victoria's North and Murray water resource plan area. EWMPs are not prepared for ecosystem functions and therefore Victoria relies on its long-term watering plans for this purpose.</p> <p>Following accreditation of Victoria's North and Murray Water Resource Plan, the Northern Victoria and Victorian Murray LTWPs will be updated to more clearly outline long term watering requirements in accordance with requirements under Part 4 and Part 5 of Chapter 8 of the Basin Plan. Environmental watering requirements are based on (EWMPs). Appendix E to Victoria's North and Murray Comprehensive Report identifies the PEAs and PEFs in Victoria's North and Murray water resource plan area. Each PEA has a relevant EWMP.</p> <p>All of Victoria's (EWMPs) can be found at - https://www.water.vic.gov.au/waterways-and-catchments/rivers-estuaries-and-waterways/environmental-water/environmental-water-management-plans</p> <p>Since the (LTWPs) were prepared in 2015, the list of (PEAs) has undergone some changes. Reasons for the changes include:</p> <ul style="list-style-type: none"> An asset is not watered anymore (e.g. Beulah Weir Pool) An asset (river) was erroneously included in the LTWP and cannot receive held environmental water (e.g. Mitta Mitta River, Kiewa River, Avon River, etc.) An asset (wetland) was included in the LTWP as it could potentially be watered, however they have not been watered, however they have not been watered yet nor are there plans to begin watering (e.g. Golf Course Lake, Lower Ovens wetland complex and Lake Wandella) As asset which receives PEW noting that the identification of the relevant PEW was still under negotiation when LTWPs were being finalised therefore was omitted from the list New assets were added that can now receive held environmental water (e.g. Gaynors Swamp was not included in the PEA table in 2015 as it didn't have the infrastructure to receive water then) <p>See discussion in Column 5 in response to section 10.17 of the Basin Plan in Victoria's North and Murray Index Table for a discussion on environmental watering requirements. See also the response in Column 3 and Column 5 to section 10.26(1) of the Basin Plan in Victoria's North and Murray Index Table. The response to section 10.26(1) of the Basin Plan outlines how baseflows are considered in environmental water.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)
10.22(b)	A water resource plan must: (b) if a risk of a kind referred to in subsection 10.41(1) has been identified in relation to the water resources of the water resource plan area—explain why rules addressing the risk have or have not been included in the plan.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> Rules have been included in response to sections 10.18, 10.19, 10.20 and 10.21 of the Basin Plan in response to the requirements of those sections. For the risks identified as medium or high in response to section 10.41(1) of the Basin Plan in respect of the matters identified in sections 10.17, 10.18, 10.19 and 10.20 of the Basin Plan rules have not been included to ensure Victoria's North and Murray Water Resource Plan can remain adaptable to localised risks and respond to changing conditions over the life of the Plan. Column 5 of Victoria's North and Murray Index Table in response to those sections sets out why rules have or have not been included. As set out in Column 5 of Victoria's North and Murray Index Table in response to sections 10.17-10.21 of the Basin Plan, additional rules of the kind listed in Part 4 were not considered necessary because in most cases, the risks referred to in s 10.41(1) are effectively managed to a low rating by the existing rules and management arrangements in place. No rules have been identified to address climate change risks identified in response to section 10.41(1) of the Basin Plan. Strategies to address climate change risks have been identified in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report. Rules were not considered necessary to address any low risks identified in Table 2.11 (Northern Victoria water resource plan area), Table 2.21 (Goulburn-Murray water resource plan area) and Table 2.31 (Victorian Murray water resource plan area). The rules identified in response to sections 10.18 and 10.19 are considered sufficient to respond to consequences of risks arising from changes to the timing and location of demand. Additional rules are not considered necessary in addition to the strategies identified in relation to these risks in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report. Reference to Column 5 of Victoria's North and Murray Index Table does not have the effect of importing the sections referenced into the accredited material but are included for reference only. 	n/a
			<p>Column 5 Explanatory material</p> <p>This requirement is met as the text in Column 3 of this row describes what was done to respond to the requirements of Part 4 of Chapter 10 of the Basin Plan. The reasons why rules were not considered necessary are outlined in response to each specific subsection of Part 4 of Chapter 10 of the Basin Plan. Consideration was given to each matter in Part 4 in the context of Victoria's water resource management framework in accordance with section 55 of the Commonwealth Water Act, which requires regard to be had to the legislative framework within which the water resource plan operates.</p> <p>See discussion in Column 5 of Victoria's North and Murray Index Table in response to sections 10.17 to 10.20 of the Basin Plan.</p> <p>The explanation to support the response to Part 4 requirements are set out in Column 5 of Victoria's North and Murray Index Table for each section of Part 4 of Chapter 10 of the Basin Plan.</p> <p>A summary of specific risks to:</p> <ul style="list-style-type: none"> priority environmental assets provided in Table 5-5 and Table 5-8 environment and environmental watering in respect of water availability are summarised in Section 5.3.1 and Section 5.4.1 and Table 5-3 and Table 5-6 environment and environmental watering in respect of water condition are summarised in Section 5.3.2 and Section 5.4.2 and Table 5-4 and Table 5-7 <p>of Victoria's North and Murray Comprehensive Report.</p> <p>Consideration of environmental assets under the risk assessment was done with reference to existing EWMs and reflect the PEAs listed in Appendix E to Victoria's North and Murray Comprehensive Report.</p> <p>As a result of the implementation of the Basin Plan and the changing uses of water, an increased risk relating to inter-valley transfers was considered during the development of Victoria's North and Murray Water Resource Plan. This is a change to the risk considerations for "changes to the timing and location of demand" which resulted in high risks being identified.</p> <p>Measures have been included in Appendix B to Victoria's North and Murray Comprehensive Report in response to these risks to support continued review of the issue and mitigation or management of the risks as they arise. Where risks to the condition of waterways and systems (including adverse environmental impacts) occur the current mechanism under Victoria's Water Act is to prepare statutory management plans.</p> <p>Matters under section 40 always apply to consider third party impacts and environmental impacts when making decisions about approving new, amending or transferring (trade) water access rights. On this basis the rules proposed in response to Part 4 of Chapter 10 of Basin Plan are sufficient. Victoria's North and Murray Water Resource Plan will be reviewed in response to any policy or regulatory changes in response to impacts relating to inter-valley transfers. Until such time as the matter is investigated further and appropriate mechanisms directly addressing the issue are identified, rules specific to the issue of inter-valley transfers will not be included in Victoria's North and Murray Water Resource Plan.</p> <p>The application of strategies 5, 9, 10, 11, 23, 32 and 33 will support further investigation and identification of treatments for inter-valley transfer risks.</p> <p>Risks relating to uncontrolled water or above cap water (in this instance above cap does not include system water as that was assessed separately given its higher reliability) and the relevant risks to that water are identified in Table 5-3 and Table 5-6 in Victoria's North and Murray Comprehensive Report. See Column 5 for an outline of the different components of Victoria's North and Murray Risk Assessment Report at Appendix B.</p> <p>See Table 1.3.1 of Appendix B to Victoria's North and Murray Comprehensive Report for an outline of how the matters under sections 10.17, 10.18, 10.19 and 10.20 of the Basin Plan were considered in the Risk Assessment. The tables provided in Part 3.2, Part 3.3 and Part 3.4 of Appendix B to Victoria's North and Murray Comprehensive Report provide a description of risks and describe the causes, threats and impact of users/use types. The requirement under section 10.22(b) of the Basin Plan is met as Victoria's North and Murray Risk Assessment Report contained at Appendix B to Victoria's North and Murray Comprehensive Report identifies all risks relevant to Victoria's North and Murray water resource plan area and strategies to manage or mitigate the medium and high risks. The appropriate approach to managing climate change risks is through Victoria's water resource management framework that includes:</p>

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				<ul style="list-style-type: none"> the periodic review of regional catchment strategies required by Division 1 of Part 4 of the <i>Catchment and Land Protection Act 1994</i> (Vic); regional sustainable water strategies required by Division 1B of Part 3 of the Victorian Water Act; long-term water resource assessments required by Division 1C of Part 3 of the Victorian Water Act; regional waterway strategies required by the Victorian Water Act (section 190); planning duties of the VEWH required by Division 5 of Part 3AA of the Victorian Water Act. <p>Temporary qualifications by nature involve a temporary change in water sharing arrangements in a given system and generally reduce one user's or class of users' rights to water to provide more water to another user or class of user. For example, a temporary qualification of rights may involve temporarily increasing an urban water corporation's access to water in a waterway for urban supplies by reducing the required minimum passing flows downstream of the relevant harvesting point, which is a condition of the urban water corporation's bulk entitlement. Another qualification may involve temporarily reducing rural water users' access to water in one system to increase an urban water corporation's access to water in another connected system. The arrangements will apply for a determined period of time.</p>

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<p>Part 5</p> <p>10.23(1)</p> <p>A water resource plan must, having regard to the risk identification and assessment conducted for section 10.41, specify whether there are any types of interception activity in the water resource plan area which have the potential to have a significant impact on:</p> <ul style="list-style-type: none"> (a) the water resources of the water resource plan area; or (b) water resources which are hydrologically connected to the water resources of the water resource plan area; whether on an activity-by-activity basis, or cumulatively. 	<p>Interception activities</p> <p>Victoria's North and Murray water resource plan area</p> <p>No interception activity has been identified to have a significant impact, nor to have the potential to have a significant impact, on water resources that are in or are hydrologically connected to the Victoria's North and Murray water resource plan area.</p>	n/a		<p>The requirement to specify interception activities with a potential to have significant impact on water resources or connected water resources is met as the accredited text explains that no such interception activity is identified. Victoria's North and Murray Risk Assessment identified medium and high risks arising from interception by runoff dams and interception by commercial plantations, however these risks were based on information that has been superseded since the completion of the Risk Assessment.</p> <p>Of the types of interception activities specified in the note to section 10.23 of the Basin Plan, none are expected to have a significant impact on the water resources of Victoria's North and Murray water resource plan area.</p> <p>Floodplain harvesting is not relevant to Victoria's North and Murray water resource plan area as it is not permitted in the area. Take under this form of take would fall within the Victorian entitlement framework and therefore would be managed within the SDL as with other forms of take. Floodplain harvesting is not currently undertaken in the Plan area and would not be permitted without a take and use licence for the take or diversion of water.</p> <p>Interception by runoff dams is expected to have modest growth over the next 10 years but the additional take as a result of that growth cannot be accurately estimated. Any additional take is expected to be small and is unlikely to have a significant impact on water resources. Take by runoff dams (excluding basic rights) is 84GL and all take by runoff dams under basic rights is 85GL. As identified in Victoria's North and Murray Comprehensive Report at Section 11.4.1.5, it is estimated that the capacity of runoff dams across the Northern Victoria water resource plan area could increase by 113GL over 10 years based on a conservatively high estimate of 0.55% rate of growth. Victoria's North and Murray Risk Assessment Report (see Appendix B of Victoria's North and Murray Comprehensive Report) identified a medium to very low risk associated with growth in runoff dams during the period to 2029. However, the risk was based on information that has been superseded by modelling work that occurred after the completion of the risk assessment. Victoria proposes to update the risk assessment for runoff dams when the uncertainty associated with estimates of take can be reduced. See Part 3.2.7, Part 3.3.7 and Part 3.4.7 of Appendix B to Victoria's North and Murray Comprehensive Report. A comparison of the figures used for the Risk Assessment in Appendix B and the revised figures is provided in Section Table 11-7 (Victorian Murray water resource plan area) and Table 11-8 (Northern Victoria water resource plan area) in Victoria's North and Murray Comprehensive Report.</p> <p>Interception by commercial plantations is not expected to grow in the next 10 years and therefore there will be no additional impact on water resources. This is discussed further at Section 11.4.3.1 of the Comprehensive Report. See Part 3.2.7, Part 3.3.7 and Part 3.4.7 of Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>As identified in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report in respect of the method for determining permitted and actual net take for commercial plantations, estimates are based on information obtained from the industry on a yearly basis. The estimate for net take by commercial plantation will be reviewed every 10 years or earlier if a significant shift in the industry is identified earlier.</p> <p>There are currently no mining activities in Victoria's North and Murray water resource plan area that intercept significant volumes of water. Take of water through mining activities is considered a form of take that would be subject to authorisation within Victoria's entitlement framework. On this basis it if mining activities intercepted water (by way of take or diversion) within Victoria's North and Murray water resource plan area it would be subject to a take and use licence and therefore managed within the SDL as with other forms of take.</p> <p>As identified in Section 11.3.3 of Victoria's North and Murray Comprehensive Report risks were identified with respect to earth resource development however they were identified as localised risks and did not have the potential to have a significant impact on the water resources of Victoria's North and Murray water resource plan area or water resources of connected water resource plan areas.</p> <p>See Section 11.4 of Victoria's North and Murray Comprehensive Report for discussion on potential interception in Victoria's North and Murray water resource plan area.</p>

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10.23(2)	If there are any such types of interception activity, the water resource plan must list those types.	Victoria's North and Murray water resource plan area This requirement is not relevant to Victoria's North and Murray water resource plan area as no types of interception activity are identified in response to section 10.23(1) of the Basin Plan.	n/a	
10.23(3)	For the purpose of determining whether a type of interception activity is of the kind referred to in subsection (1), regard must be had to the following factors: (a) the location of particular activities of that type in the water resource plan area; (b) the impact of the type of activity on the availability of: (i) the water resources of the water resource plan area; and (ii) any water resources which are hydrologically connected to the water resources of the water resource plan area; (c) the projected growth of the type of activity over the period for which the water resource plan will have effect.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	The requirement to have regard to these factors is met as regard was given through the risk assessment, which considered the risk associated with scenarios regarding growth in runoff dams, commercial plantations, and mining activities. Floodplain harvesting was not considered as it is currently not permitted in the water resource plan area. This requirement includes factors relating to spatial extent, magnitude, connectivity, and growth for each of the interception activities. In each case, the risk assessment specifically examined the growth of each interception activity, along with the spatial distribution, magnitude, and duration of the impact on the hydrologically connected water resources of the water resource plan area. See Section 11.2 of Victoria's North and Murray Comprehensive Report for a summary of the risks identified in Victoria's North and Murray Risk Assessment. See Appendix B for the full Risk Assessment Report.
10.24	If a water resource plan includes a list of the kind referred to in subsection 10.23(2), the plan must set out, in respect of each type of interception activity listed, a process for monitoring the impact of that type of activity on: (a) the water resources of the water resource plan area; and (b) water resources which are hydrologically connected to the water resources of the water resource plan area.	Victoria's North and Murray water resource plan area This requirement is not relevant as no types of interception activity are listed under section 10.23(2) of the Basin Plan.	n/a	The requirement to set out a monitoring process for any interception activities listed under section 10.23(2) of the Basin Plan is met as there are no such activities listed. Victoria will review the impacts of runoff dams and any risks they pose to water resources as part of: <ul style="list-style-type: none"> the Northern Region Sustainable Water Strategy under the Victorian Water Act the Long-Term Water Resource Assessment under the Victorian Water Act Action 8.4 of Water for Victoria (DELWP, 2016) which commits to better monitoring and reporting on the effects of emerging water uses on other uses in the Victorian Water Accounts. These processes will provide opportunities to review and improve hydrological understanding of runoff dams, as well as opportunities to consult stakeholders and communities about risks posed by runoff dams and possible mitigation measures.
10.25(1)	A water resource plan must identify actions that will be taken in the event that monitoring under section 10.24 shows that: (a) an impact of a type of interception activity compromises the meeting of an environmental watering requirement; or (b) an impact of several types of activity together compromises the meeting of an environmental watering requirement; or (c) there is an increase in the quantity of water being intercepted by a type of activity; after the commencement of the water resource plan.	Victoria's North and Murray water resource plan area This requirement is not relevant to Victoria's North and Murray water resource plan area as no interception activities were identified in response to section 10.23 of the Basin Plan and therefore no monitoring was identified in response to section 10.24 of the Basin Plan.	n/a	The requirement to identify actions that will be taken in light of section 10.24 of the Basin Plan is met as no such monitoring is relevant under section 10.24. Additionally, relevant outcomes in paragraphs (a), (b) and (c) are accounted for by the method described under section 10.10(1) of the Basin Plan.
10.25(2)	Subsection (1) does not apply if the relevant outcome in paragraph (1) (a), (b) or (c) is accounted for by the method under subsection 10.10(1).	Victoria's North and Murray water resource plan area This requirement informs the response to section 10.25(1) of the Basin Plan.	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 6 Planning for environmental watering				
10.26(1)	<p>A water resource plan must provide for environmental watering to occur in a way that:</p> <ul style="list-style-type: none"> (a) is consistent with: <ul style="list-style-type: none"> (i) the environmental watering plan; and (ii) the Basin-wide environmental watering strategy; and (b) contributes to the achievement of the objectives in Part 2 of Chapter 8. 	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> 1. Environmental watering under Water Act 2007 (Ctn) is the delivery or use of environmental water to achieve environmental outcomes. 2. Under the <i>Water Act 1989</i> (Vic) environmental objectives – including contributing to the objectives of Chapter 8 of the Basin Plan – are supported in Victorian regulated and unregulated systems through a whole of system management approach (being more than the use of held environmental water and planned environmental water) which includes: <ul style="list-style-type: none"> (a) prohibiting the take of water that is “above cap” as it is an offence to take water without authorisation; (b) the issue of entitlements below a resource condition limit or extraction cap that includes consideration of the volume of water to be taken under basic rights; (c) using environmental entitlements held by the Victorian Environmental Water Holder to ensure water is delivered to identified priority environmental assets or for priority ecosystem functions and to support specified flows; (d) waterway management by the relevant catchment management authority in accordance with its functions under Part 10 of the <i>Water Act 1989</i> (Vic); (e) management of all entitlements in the system including managing the flow of water and timing of delivery and take of water in systems by water corporations. 3. Under the Victorian environmental framework, environmental benefits are achieved through held environmental water, planned environmental water and other water in the system (including ‘above cap’). Under existing definitions of Basin Plan, it is difficult to align Victoria's framework with the definition for planned environmental water. 	n/a	<p>This requirement is met as the text in Column 3 of this row creates an obligation to undertake environmental watering in the manner required by section 10.26(1) of the Basin Plan. Environmental watering specifically relates to the use and delivery of held environmental water and planned environmental water as defined under the Commonwealth Water Act.</p> <p>The VEWH is the Victorian body responsible for managing environmental watering and causing the delivery of held environmental water in consultation with CEWH and CMAs. VEWH works closely with CMAs and storage managers and, where practical, will seek opportunities to adjust the timing and route for delivery of consumptive water to achieve environmental objectives efficiently. This may include ‘piggy-backing’ delivery of environmental water on consumptive water or passing or minimum flow obligations, to maximise ecological outcomes. How environmental watering is supported by other water in the system is outlined in Section 12.4.3 of Victoria's North and Murray Comprehensive Report.</p> <p>While VEWH works with CMAs and storage managers, ultimate responsibility for determining how HEW is used to meet environmental objectives and outcomes rests with the VEWH in accordance with any rules determined by the Minister.</p> <p>The principal management entities responsible for environmental watering are outlined in Section 12.3 of Victoria's North and Murray Comprehensive Report.</p> <p>State environmental water planning is outlined in Section 12.6 of Victoria's North and Murray Comprehensive Report and provides an explanation of how environmental watering occurs under each of the key Victorian environmental watering plans and strategies in a way that is consistent with the environmental watering plan and the Basin-wide environmental watering strategy and contributes to the objectives in Part 2 of Chapter 8 of the Basin Plan.</p> <p>Figure 12-6 in Section 12.6 of Victoria's North and Murray Comprehensive Report sets out how the Victorian environmental water planning and management framework relates to Commonwealth legislation and planning mechanisms.</p> <p>Section 12.8 of Victoria's North and Murray Comprehensive Report provides further information on priority environmental assets and priority ecosystem functions.</p> <p>How water is managed differently in regulated and unregulated systems is outlined in Section 12.4.1 of Victoria's North and Murray Water Resource Plans. Additionally, refer to the discussion in Chapter 7 regarding Victoria's entitlement framework.</p> <p>In regulated systems passing flows are established and controlled through conditions and rules on a bulk entitlement or environmental entitlement.</p> <p>In unregulated systems, bulk entitlements specify a maximum daily take determined by flow rates in the waterway measured at a specified point. These conditions limit when water can be taken and manage the effect on the waterway of this take, ensuring that water is not taken when the flow in the waterway is below a certain flow rate. However, it should be noted that as water in unregulated systems is not actively managed by regulating structures, when flows recede, although rules in the bulk entitlement restrict or prevent take from the waterway at these low flows, the rules cannot prevent flows from receding further.</p> <p>Above cap water is described in Section 7.2.2.4 and Section 12.4.3.1 of Victoria's North and Murray Comprehensive Report.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>4. The use of held and planned environmental water in Victoria is enhanced through the existence and protection of water in the system otherwise known as "above cap water".</p> <p>5. For the purposes of Victoria's North and Murray Water Resource Plan, "above cap water" is considered to be:</p> <p>(a) water that remains in the system after water is taken under a water access right (excluding basic rights)</p> <p>(b) water that remains in the system by virtue of setting minimum passing flows or establishing baseflows through conditions on a water access right or rules in statutory management plans</p> <p>(c) water that is subject to extraction under a basic right (despite this extraction being considered when determining resource conditions limits for setting caps on other entitlements)</p> <p>(d) water that is subject to extraction for a range of emergency purposes such as firefighting even where it does not meet the definition of "emergency" under statute</p> <p>(e) water that may be subject to other instream uses such as recreational or hydro-generation, but which contributes to the environment including supporting the meeting of environmental objectives under the Basin Plan.</p> <p>6. This "above cap water" in regulated and unregulated systems provides multiple benefits under Victoria's framework and includes the following (see also Notes 1 and 6):</p> <p>(a) provides base flows for delivery of water (consumptive and environment) including for instream use by fish farms or electricity generators for example; and</p> <p>(b) provides support for ongoing river health (including managing any water quality issues); and</p> <p>(c) supports environmental values and health of water ecosystems; and</p> <p>(d) provides a baseline which informs the setting of environmental watering objectives and watering requirements which are determined by the catchment management authorities. The availability of this water informs Victorian and Commonwealth environmental water holders' decisions as to how held environmental water is utilised to meet objectives and requirements in Victoria's North and Murray water resource plan area; and</p> <p>(e) support for instream use (does not include diversions from the system) by Traditional Owners (in support of outcomes identified in response to Part 14 of the Basin Plan) and recreational users.</p>	<p>n/a</p> <p>n/a</p> <p>n/a</p>	<p>Take and use licences are issued for the take and use of both unregulated surface water and groundwater. The considerations relating to the issue of a take and use licence under sections 40 and 53 of the Victorian Water Act apply to both surface water and groundwater licences. The matters identified in paragraphs 7(c)(iii), (iv), (v) and (vi) and (7) (f) of Column 3 of Victoria's North and Murray Index Table in response to section 10.26(1) of the Basin Plan apply to groundwater and require the Minister (or delegate) when licensing of groundwater to consider the potential environmental impacts on surface water and groundwater systems in addition to potential impacts on groundwater dependent ecosystems. The material in Column 5 of Victoria's North and Murray Index Table in response to Part 4 of the Basin Plan outlines how Victoria's water resource management and licensing framework responds to risks and manages potential impacts on environmental watering and groundwater dependent ecosystems. The responses to sections 10.17, 10.18 and 10.19 of the Basin Plan work together with the responses to Part 6 of Chapter 10 of the Basin Plan in Victoria's North and Murray Water Resource Plan to provide a holistic framework for supporting environmental watering of priority environmental assets and priority ecosystem functions to ensure Victoria can deliver on meeting Basin Plan environmental watering objectives as provided in Chapter 8 of the Basin Plan. How risks to environmental watering and priority environmental assets and priority ecosystem functions were considered and mitigated is summarised in Section 5.3.4, Section 5.4.4 and Section 5.5 of Victoria's North and Murray Comprehensive Report. The full Risk Assessment Report is provided at Appendix B to Victoria's North and Murray Comprehensive Report. Further, a discussion of how these risks were considered is outlined in Column 5 of Victoria's North and Murray Index Table in response to Part 4 of Chapter 10 of the Basin Plan, in particular in response to section 10.22(b) of the Basin Plan.</p> <p>Temporary qualifications by nature involve a temporary change in water sharing arrangements in a given system and generally reduce one user's or class of users' rights to water to provide more water to another user or class of user. For example, a qualification of rights may involve temporarily increasing an urban water corporation's access to water in a waterway for urban supplies by reducing the required minimum passing flows downstream of the relevant harvesting point, which is a condition of the urban water corporation's bulk entitlement. Another qualification may involve temporarily reducing rural water users' access to water in one system to increase an urban water corporation's access to water in another connected system. The arrangements will apply for a determined period of time.</p>

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		<p>7. The “above cap water” is protected by Victoria’s water resource management framework in the following way (see also Note 2):</p> <p>(a) the setting of resource condition limits under a permissible consumptive volume (PCV) under section 22A of the <i>Water Act 1989</i> (Vic) which limits the volume of water that can be issued under entitlements for consumptive use (can apply in regulated and unregulated systems). In Victoria’s North and Murray Water Resource Plan area this process is largely overtaken by the SDLs prescribed under the Basin Plan except where catchment specific limits need to be specified; and</p> <p>(b) requirements to impose conditions relating to the time, place and rate of take on authorisations to take water (applies in regulated and unregulated systems) (see Note 3);</p> <p>(c) requirements under sections 33J (water shares), 40 (bulk entitlements), 53 (take and use licences), of the <i>Water Act 1989</i> (Vic) to consider the following before issuing a water access right:</p> <ul style="list-style-type: none"> (i) the permissible consumptive volume, if any; (ii) the existing and projected quality of water; (iii) any adverse effect the allocation or use of water will have on other users or a waterway or aquifer; (iv) the maintenance of the environmental water reserve in accordance with the environmental water reserve objective and riparian environment; (v) the need to protect the environment, including the riverine and riparian environment; (vi) the proper management of the waterway and its surrounds or of the aquifer. (See Notes 4 and 7) <p>(d) the setting and protection of minimum passing flows</p> <ul style="list-style-type: none"> (i) in regulated systems, through requirements to deliver minimum passing flows as a condition of a bulk entitlement under section 43 of the <i>Water Act 1989</i> (Vic) or through a restriction on the take of water in a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) for a water supply protection area declared under section 27 of the <i>Water Act 1989</i> (Vic) (ii) in unregulated systems, through restrictions on the take of water applied under a take and use licence or a condition of a bulk entitlement or through a restriction on the take of water in a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) for a water supply protection area declared under section 27 of the <i>Water Act 1989</i> (Vic) <p>(e) the establishment of the environmental water reserve under section 4A of the <i>Water Act 1989</i> (Vic) to ensure that water (including any above cap water identified as part of the environmental water reserve, planned environmental water or any held environmental water) within the reserve is managed to meet the long-term environmental objectives under section 4B of the <i>Water Act 1989</i> (Vic) (see Note 5);</p> <p>(f) the declaration of a water supply protection area under section 27 of the <i>Water Act 1989</i> (Vic) where there is an identified risk to surface water or groundwater, the area is then managed through prescriptions under a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic).</p>	n/a	

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		<p>8. To meet the requirements of section 10.26(1) of the Basin Plan, Victoria commits to the following obligations, column 4 of this row identifies the party responsible for meeting the relevant obligation outlined below:</p> <p>(a) the Victorian Environmental Water Holder (VEWH) must, in the performance of its functions and the exercise of its powers, ensure that environmental watering occurs in a way that is consistent with the environmental watering plan and the Basin-wide environmental watering strategy and contributes to the achievement of the objectives in Part 2 of Chapter 8 of the Basin Plan. This does not prevent the VEWH from causing additional environmental watering to occur to meet local and Basin Plan environmental watering objectives.</p> <p>(b) in performance of its functions and the exercise of its powers, the VEWH must have regard the relevant Long-Term Watering Plan for the water resource plan area.</p> <p>(c) the Department must develop or amend the Long-Term Watering Plan for the relevant surface water plan area including establishing or updating environmental watering requirements for identified priority environmental assets and priority ecosystem functions in accordance with Chapter 8 of the Basin Plan and considering both regulated and unregulated surface water systems.</p> <p>9. In the management of minimum passing flows water corporations consider the take and use of water for domestic and stock purposes under section 8 of the <i>Water Act 1989</i> (Vic) by:</p> <p>(a) in a regulated system, establishing monitoring points along the system to measure passing flows and adjusting delivery of water to ensure passing flows are maintained after domestic and stock use is extracted;</p> <p>(b) in unregulated systems, assessing the volume of water that might be taken under section 8 of the <i>Water Act 1989</i> (Vic) in considering any trigger levels for restricting take under a take and use licence;</p> <p>(c) managing authorisations to install works on a waterway under section 67 of the <i>Water Act 1989</i> (Vic) which may include conditions that pumps are not constructed at a level that would allow extraction below the minimum baseflows required for the system.</p>	<p>VEWH</p> <p>VEWH</p> <p>Department</p> <p>n/a</p>	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>10. References to sections of the <i>Water Act 1989</i> (Vic) provided in response to section 10.26(1) of the Basin Plan do not have the effect of importing the sections referenced into the accredited material.</p> <p>Note 1: reference to “above cap water” for the purposes of responding to the Basin Plan in Victoria’s North and Murray Index Table refers to water that includes water that remains in the system after meeting entitlements, flows specified in bulk entitlements or environmental entitlements as minimum passing flows which may also be identified as “systems water” and water that remains in the system where water users (see Table A Victoria’s North and Murray Index Table for a list of water access rights relevant to this Plan) have not taken their full volume from the system. It should be noted that risks to “system water” were identified as being lower than the risks to other types of water see Part 2.1 (Northern Victoria water resource plan area) and Part 2.3 (Victorian Murray water resource plan area) of Victoria’s North and Murray Risk Assessment at Appendix B of Victoria’s North and Murray Comprehensive Report.</p> <p>Note 2: the tools identified in paragraph (5) above are tools that may be utilised under the Victorian framework but are not necessarily used in each catchment or for each resource in Victoria’s North and Murray water resource plan area.</p> <p>Note 3: see response to section 10.08(2) of the Basin Plan above which requires holders of a water access right (entitlement) to comply with the conditions of that right. See also response to section 10.11(1) of the Basin Plan which sets out rules to prevent actual take does not exceed permitted take.</p> <p>Note 4: for the process relating to the amendment under the <i>Water Act 1989</i> (Vic) of bulk entitlements see Figure 7-3 and for environmental entitlements see Figure 7-4, note the conditions on a take and use licence relating to restrictions – must be complied with – note the interaction with the section 10.08(2) of the Basin Plan obligation.</p> <p>Note 5: the environmental water reserve under 4A of the <i>Water Act 1989</i> (Vic) and the environmental water reserve objective under section 4B of the <i>Water Act 1989</i> (Vic) do not have the effect of defining above cap water as planned environmental water for the purposes of section 6 of the <i>Water Act 2007</i> (Cth) or section 10.09(1) of the Basin Plan. Water may be part of the environmental water reserve for the purposes of the <i>Water Act 1989</i> (Vic) and will support the environmental objective however, it cannot be characterised as ‘planned environmental water’ as more narrowly defined in section 6 of the <i>Water Act 2007</i> (Cth) which specifies that planned environmental water is water that cannot be taken or used for any other purpose. Above cap water may be taken and used for multiple purposes, including for example, providing base flows (not just for environmental benefit but for system management reasons) and domestic and stock use. See Section 12.4.2.2 of Victoria’s North and Murray Comprehensive Report for more information about planned environmental water under Victoria’s water resource management framework.</p> <p>Note 6: for the purposes of paragraph (4) above, sections 33J and section 40 of the <i>Water Act 1989</i> (Vic) apply to regulated systems and section 40 and section 53 of the <i>Water Act 1989</i> (Vic) apply to unregulated systems.</p> <p>Note 7: section 53 of the <i>Water Act 1989</i> (Vic) as referred to in paragraph (5)(c) above includes the requirement to have regard to the matters in paragraphs (b) to (m) of section 40 of that Act.</p>	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of the Comprehensive Report.</p> <ol style="list-style-type: none"> The delivery or use of planned environmental water identified in this Index in response to section 10.09(1) of the Basin Plan is consistent with the environmental watering plan and the Basin-wide environmental watering strategy and relates to the objectives outlined in the Basin-wide environmental watering strategy as outlined in Table 1 of Appendix E to Victoria's North and Murray Comprehensive Report. The existence of this planned environmental water is protected under section 10.28 of the Basin Plan. <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>No planned environmental water has been identified in the Victorian Murray water resource plan area.</p> <p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This requirement is not relevant as it relates to the development of the environmental watering plan, and the Basin-wide environmental watering strategy, which apply to surface water only.</p> <p>The requirements for the groundwater SDL resource units have been met through meeting the requirements in Parts 3 and 4 of Chapter 10 of the Basin Plan. This is in accordance with MDBA Position Statement 6D.</p> <p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.</p>	n/a	<p>Planned environmental water is provided through instruments that regulate water resource management in Victoria under the Victorian Water Act. The provision of planned environmental water is also supported by measures under the Victorian Water Act such as the Environmental Water Reserve and offences for taking water without authorisation. These would be considered 'rules and arrangements' relating to the planned environmental water. The rules and arrangements relating to the planned environmental water identified in Table 2 of Appendix E to Victoria's North and Murray Comprehensive Report are identified for the purposes of section 10.09(1) of the Basin Plan.</p> <p>As identified in Table 1 of Appendix E to Victoria's North and Murray Comprehensive Report PEW under the Upper Ovens River WSPA Management Plan is prescribed through rules and information in the Management Plan. Table 8 of that Plan identifies the Ovens River environmental flow objectives under various summer low flow scenarios.</p> <p>The Long-Term Watering Plans do not contain a description of how Victoria's PEW meets environmental watering objectives of Chapter 8 of Basin Plan as Victoria and the MDBA were still in discussions regarding the identification of PEW at the time of finalising the Victorian Murray and Northern Victoria Long-Term Watering Plans. Following accreditation of Victoria's North and Murray Water Resource Plan, the Northern Victoria Long-Term Watering Plan and the Victorian Murray Long-Term Watering Plan will be reviewed and updated to more specifically address how PEW supports environmental objectives as per the requirements in Chapter 8 of the Basin Plan. This will more clearly link PEW with Basin Plan objectives and targets through Victoria's environmental watering requirements for priority environmental assets and priority ecosystem functions.</p>
10.26(2)	<p>For the purposes of subsection (1), the water resource plan must be prepared having regard to:</p> <ol style="list-style-type: none"> the most recent version of the long-term watering plan prepared in accordance with the requirements of Division 3 of Part 4 of Chapter 8; and the views of local communities, including bodies established by a Basin State that express community views in relation to environmental watering. 		n/a	<p>Victoria's North and Murray Water Resource Plan was developed having regard to the current version of the long-term watering plans for the water resource plan area and the views of local communities. The views of local communities identified during consultation on Water for Victoria, the Northern Victoria Long-Term Watering Plan, the Victorian Murray Long-Term Watering Plan, and during the development of Victoria's North and Murray Water Resource Plan were taken into account in the preparation of and during the development of Victoria's North and Murray Water Resource Plan.</p> <p>Following accreditation of Victoria's North and Murray Water Resource Plan, the Northern Victoria Long-Term Watering Plan and the Victorian Murray Long-Term Watering Plan will be reviewed and updated to more specifically address requirements in Chapter 8 of the Basin Plan and more clearly link Basin Plan objectives and targets with Victoria's environmental watering requirements for priority environmental assets and priority ecosystem functions.</p> <p>This is currently done through specific environmental water management plans; however further work may be done to more clearly specify how the method for selecting priority environmental assets and priority ecosystem functions has been applied in developing the long-term watering plans. Environmental water management plans can be found at - https://www.water.vic.gov.au/waterways-and-catchments/rivers-estuaries-and-waterways/environmental-water/environmental-water-management-plans</p>

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10.27(1)	This section applies if (a) there are 2 water resource plan areas that contain surface water; and (b) there is a surface water connection between the 2 areas.	<p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This requirement does not apply to groundwater.</p> <p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of the Comprehensive Report. The Northern Victoria water resource plan area is connected to the Victorian Murray water resource plan area.</p> <p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The Victorian Murray water resource plan area is connected to the following water resource plan areas: (a) Northern Victoria water resource plan area; and (b) Via the River Murray: (i) South Australian River Murray (SW6) (ii) New South Wales Murray and Lower Darling (SW8).</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This requirement does not apply to groundwater as no environmental water has been identified for the Goulburn-Murray water resource plan area.</p>	n/a	<p>The long-term watering plans for the water resource plan areas apply to surface water only. Further, there is no groundwater held environmental water extracted for an environmental purpose in this water resource plan area.</p> <p>As identified in response to section 10.05(b) of the Basin Plan above, the Northern Victoria water resource plan area and the Victorian Murray water resource plan area are considered to have a surface water connection between the two areas. Therefore section 10.27 of the Basin Plan applies to the Northern Victoria water resource plan area and Victorian Murray water resource plan area under Victoria's North and Murray Water Resource Plan. This requirement does not apply to groundwater. As identified above in Column 5 for the response to section 10.26 of the Basin Plan VEWH is the Victorian body responsible for managing environmental watering and causing the delivery of held environmental water in consultation with CEWH and CMAs. Section 12.7.4 of Victoria's North and Murray Comprehensive Report outlines how coordinated watering occurs including in respect of the River Murray under the Murray-Darling Basin Agreement. In respect of coordinated watering Part 5 of the Northern Victoria Long-Term Watering Plan and the Victorian Murray Long-Term Watering Plan regarding the coordination of environmental watering outline how VEWH coordinate with environmental delivery partners in carrying out environmental watering. Figure 4-1 of Victoria's North and Murray Comprehensive Report identifies the significant connections between water resource plan areas including those connections to South Australia and New South Wales.</p>
10.27(2)	The water resource plan for each of the areas must provide for the coordination of environmental watering between the 2 areas.	<p>Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. When the VEWH undertakes environmental watering in accordance with the obligation under section 10.26 of the Basin Plan, VEWH must ensure that environmental watering in the Victorian Murray water resource plan area and the Northern Victoria water resource plan area is coordinated to ensure that the environmental watering objectives of connected plan areas can also be achieved. Note: the connected water resource plan areas are identified in response to section 10.27(1) of the Basin Plan in Column 3 of Victoria's North and Murray Index Table.</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This requirement does not apply to groundwater.</p>	VEWH	

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10.28	A water resource plan must ensure that there is no net reduction in the protection of planned environmental water from the protection provided for under State water management law immediately before the commencement of the Basin Plan.	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of the Comprehensive Report.</p> <ol style="list-style-type: none"> The protection of the planned environmental water identified in this Index in response to section 10.09(1) of the Basin Plan is provided by the relevant bulk entitlement or management plan that specifically provides for the commitment or preservation of that water for environmental purposes. There has been no change to the rules relating to planned environmental water since 2012 in the following instruments: <ul style="list-style-type: none"> (a) Bulk Entitlement (Ovens System – Goulburn-Murray Water) Order 2004 (b) Upper Ovens River Water Supply Protection Area Water Management Plan (2011) As there has been no change to the instruments that protect the identified planned environmental water there has been no net reduction in the protection of planned environmental water. Nothing in Victoria's North and Murray Water Resource Plan lessens the protection of planned environmental water. The Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004 was amended in 2017 to provide for an extreme events measure under clause 12.4 of that Order in accordance with requirements under Part 13 of Chapter 10 of the Basin Plan. To temporarily reduce minimum environmental flows, the entitlement holder (Goulburn-Murray Water) must first agree with the waterway manager (Goulburn Broken Catchment Management Authority); the reduction sought; the period to which it will apply; monitoring; and any mitigation which is required. This is not considered to be a reduction in the protection of planned environmental water as the total long-term average volume of the planned environmental water would be maintained. To ensure there is no net reduction in the protection of planned environmental water, in exercising its discretion under clause 12.4 of the Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004 (Broken BE) Goulburn-Murray Water must <ul style="list-style-type: none"> (a) keep a record of the modifications made to the volume of water passed as environmental flows in accordance with clause 12.4 of the Broken BE; (b) keep a record of the total volume of water which would have been passed in accordance with the rules in the bulk entitlement (which constitutes the planned environmental water) over a rolling two-year period; (c) calculate the difference between the modified volume that is passed and the volume of water that would otherwise have been passed in accordance with the rules in the Broken BE; (d) make the volume calculated as set out in paragraph available for release as agreed with the waterway manager. 	n/a	<p>No changes have been made to the instruments, being the Bulk Entitlement (Ovens System – Goulburn-Murray Water) Order 2004 and the Upper Ovens River Water Supply Protection Area Water Management Plan (2011), in relation to planned environmental water which would reduce the protection of that water. The Environmental Water Reserve under section 4A of the Victorian Water Act operates differently to section 6 of the Commonwealth Water Act in that it does not require water that is captured by the reserve to be used for the environment to the exclusion of all other purposes.</p> <p>Water within the above cap pool may form part of the Environmental Water Reserve where that water is identified as contributing to environmental outcomes. Victoria is undertaking work to clarify the application of section 4A of the Victorian Water Act and therefore the operation of the environmental water reserve objective under section 4B of the Victorian Water Act.</p> <p>Acknowledging that there may be some uncertainties about when the environmental water reserve captures this above cap water, we note that it is intended for all above cap water (to the extent that it isn't being used for an alternative purpose) to contribute to long-term environmental outcomes.</p> <p>Despite above cap water contributing to long-term environmental outcomes and objectives it may also be taken or used for other purposes. These purposes include both extraction under certain circumstances, such as firefighting, or instream uses such as recreational or hydrogeneration.</p> <p>Drought response measures have been introduced under the Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004, however this is not considered as eroding the protection of planned environmental water. The instrument still provides for the same volume of water as planned environmental water, however, it identifies how the system manager will respond to water shortages. Given the discretionary nature of clause 12.4 of the Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004, it is proposed to provide certainty as to how environmental impacts will be mitigated. Until the Bulk Entitlement can be amended, the obligation in paragraph 4 of column 3 specifies how Goulburn-Murray Water will account for and mitigate changes in flow.</p> <p>As there is a 'or natural' provision in the Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004, the actual total volume of passing environmental flows required over a year would differ depending on climatic conditions so a 'long-term average' for passing flows would not be meaningful. Rather 'The total volume of environmental water which would have been passed in accordance with the rules in the bulk entitlement (which constitutes the PEW) over a rolling two-year period would be maintained'. The net result is that there is no volumetric change in the volume of passing environmental flows over a two-year period; there would just be a temporal change that is, when the flows were passed. This would be ensured by the mandatory requirement of accumulation of any foregone passing flows for release at a later time as determined by the Goulburn Broken Catchment Management Authority. A two-year rolling period would be important, as one period is December to May so any accumulated flows may not be able to be released within the water year.</p> <p>Clauses 12.1 and 12.3 of the Bulk Entitlement (Broken System-Goulburn-Murray Water) Conversion Order 2004 provide for the minimum and maximum environmental flows that must be maintained in identified reaches of the Broken River at specified times of the water year. Under clause 12.4 of the Bulk Entitlement these environmental flows may be temporarily modified by agreement between Goulburn-Murray Water and the Goulburn Broken Catchment Management Authority who must agree on: the purpose of any modification; the reduction or increase to be applied; the period of time the modification will apply; and what mitigation is required.</p> <p>The requirement to make the water available under paragraph (4)(a) of the obligation in Column 3 relates to how the water will be released, including the timing and volume of any release. The waterway manager will provide advice on the timing and volume of a release to ensure environmental objectives are supported by the flow of water. The relevant waterway strategy identifies the relevant environmental objectives for the system and informs the decisions of the waterway manager.</p>
			n/a	
			n/a	
			water corporation	

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>5. The waterway manager, in agreeing to the volume and timing of release in accordance with (4)(a) must do so in accordance with the relevant Environmental Water Management Plan that establishes the long-term environmental objectives that will be supported by the planned environmental water.</p> <p>6. The two-year period under (4)(b) does not apply where extreme dry conditions, which prohibit the ability to deliver accumulated flows, exist beyond the two-year period. Goulburn-Murray Water must account for the reduction during the extreme dry period and make the volume calculated in accordance with (4)(c) above for that period available as per (4)(d) and (5) above.</p> <p>7. For the purposes of (6) above the extreme dry period ends when water availability increases so that passing flows can be restored, and the accumulated amount calculated under (4)(c) above can be made available.</p>	<p>waterway manager</p> <p>water corporation</p> <p>n/a</p>	<p>The period of time the modification will apply, including the trigger to revert back to minimum environmental flows as specified in sub-clause 12.1 or maximum environmental flows as specified in sub-clause 12.3, as applicable.</p> <p>Further discussion on the role of catchment management authorities as waterway managers is outlined in Section 12.3.2 of Victoria's North and Murray Comprehensive Report. Discussion of State environmental water planning including waterway strategies is outlined in Section 12.6 of Victoria's North and Murray Comprehensive Report.</p> <p>See Section 12.4.2.3 of Victoria's North and Murray Comprehensive Report for further discussion on the continued protection of planned environmental water.</p>
		<p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This requirement is not relevant as no planned environmental water was identified in the Victorian Murray water resource plan area.</p>	n/a	
		<p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>There is no groundwater PEW, as defined by section 6 of the <i>Water Act 2007</i> (Cth), and therefore section 10.28 of the Basin Plan does not apply.</p>	n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 7 Water quality objectives				
10.29	A water resource plan must include a water quality management plan (WQM Plan). The WQM Plan must: (a) for water resource plan areas made up of only surface water SDL resource units—be made in accordance with Division 2; (b) for water resource plan areas made up of only groundwater SDL resource units—be made in accordance with Division 3; (c) for water resource plan areas made up of both surface water SDL resource units and groundwater SDL resource units—be made in accordance with: (i) Division 2 in relation to surface water SDL resource units (as if a reference in Division 2 to the water resource plan area were a reference to the surface water SDL resource units of the water resource plan area); and (ii) Division 3 in relation to groundwater SDL resource units (as if a reference in Division 3 to the water resource plan area were a reference to the groundwater SDL resource units of the water resource plan area).	Victoria's North and Murray water resource plan area The parts of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report as outlined in response to sections 10.30 to 10.35B of the Basin Plan as outlined in Column 3 of Victoria's North and Murray Index Table and the text in Column 3 in response to sections 10.35C and 10.35D of the Basin Plan constitute Victoria's North and Murray Water Quality Management Plan.	n/a	This requirement is met as the accredited text references Appendix A to Victoria's North and Murray Comprehensive Report containing the Water Quality Management Plan made in accordance with Part 7 of Chapter 10 of the Basin Plan.
Division 2 - Surface Water				
10.30	The WQM Plan must identify the causes, or likely causes, of water quality degradation in the water resource plan area having regard to the key causes of water quality degradation identified in Part 2 of Chapter 9 and set out in Schedule 10.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The causes of water quality degradation in the water resource plan area are listed and discussed in Table 3 in Part 4.3 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report.	n/a	Victoria's North and Murray Index Table will not include responses to sections 10.30 to 10.35 of the Basin Plan for the Goulburn-Murray water resource plan area as Division 2 of Part 7 only applies to surface water. This requirement is met as the accredited text identifies Table 3 of Victoria's North and Murray Water Quality Management Plan, at Appendix A to Victoria's North and Murray Comprehensive Report which includes an explanation of how key causes were considered. In accordance with the Basin Plan requirements, Victoria has conducted a Risk Assessment Report for the five water resource plan areas, and has had regard to the current and future risks to the condition and continued availability of water resources in the development of Victoria's North and Murray Water Resource Plan. The process provided an overview of the risk factors across the water resource plan areas, and the results from the Risk Assessment Report were amalgamated across several levels. The causes of risk to water quality presented in the preliminary Risk Assessment Report are not the same as the causes of water quality degradation in the Basin Plan, but were regarded in the identification of the causes, or likely causes of water quality degradation. Part 4.3 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Water Quality Management Plan contains further information.
10.31	If a risk of a kind mentioned in paragraph 10.41(2)(d) has been identified in relation to the water resources of the water resource plan area, the WQM Plan must explain why measures addressing the risk have or have not been included in the water resource plan.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Part 4.4 of the Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report identifies risks related to the condition (quality) of water resources and explains why measures addressing the risk have or have not been included in the water resource plan.	n/a	This requirement is met as Part 4.4 of the Water Quality Management Plan maps the risks to the associated measures and clarifies which measures have or have not been included. The risks are also identified in the Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Victoria's approach to identifying causes and likely causes for the purposes of section 10.30 of the Basin Plan was to consider any relevant water quality degradation and identifying what has or is likely to have caused any identified degradation.
10.32(1)	The WQM Plan must identify the water quality target values for the water resource plan area.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Water quality targets have been identified in response to section 10.32(2) of the Basin Plan in Victoria's North and Murray Index Table.	n/a	

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.32(2)(a)	The water quality target values are the following: (a) for fresh water-dependent ecosystems—the applicable target values referred to in section 9.16;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The water quality target values identified are those set out in Part 4.6.1 of the Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The alternative targets identified for fresh water-dependent ecosystems will be as effective in achieving the objectives in Part 3 of Chapter 9 in accordance with section 10.32(4)(c)(ii) of the Basin Plan.	n/a	For the purposes of section 10.32 of the Basin Plan, Victoria has adopted alternative targets for fresh water-dependent ecosystems (lakes and wetlands non-Ramsar) and fresh water-dependent ecosystems (Ramsar) as identified in Part 4.6.1 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The alternative targets are specified as 10.32(4)(c)(ii) applies. There are three Ramsar sites in the Victoria's North and Murray water resource plan area: the Barmah Forest Ramsar site, the Gunbower Forest Ramsar site and the Kerang Wetlands Ramsar Site. In addition to these targets, as part of Victoria's measure to implement Victoria's obligations under BSM2030, Victoria has six end-of-valley salinity targets as identified in Table 10 of Part 4.6.4 .
10.32(2)(b)	The water quality target values are the following: (b) for irrigation water—the target values for water quality characteristics set out in section 9.17;	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The water quality target values identified are those set out in Part 4.6.2 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The alternative targets identified for irrigation water will be as effective in achieving the objectives in Part 3 of Chapter 9 in accordance with section 10.32(4)(c)(ii) of the Basin Plan.	n/a	For the purposes of section 10.32 of the Basin Plan, Victoria has adopted an alternative target for irrigation water as identified in Part 4.6.2 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The targets are specified as they meet the requirements of section 10.32(4)(c)(ii) of the Basin Plan.
10.32(2)(c)	The water quality target values are the following: (c) for water used for recreational purposes—the values set out in section 9.18.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The water quality target values identified are those identified in Part 4.6.3 Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report in Table 5.7 and in Table S.8 in Schedule 1 of Appendix A . The alternative targets identified for water used for recreational purposes will be as effective in achieving the objectives in Part 3 of Chapter 9 in accordance with section 10.32(4)(c)(ii) of the Basin Plan.	n/a	For the purposes of section 10.32 of the Basin Plan, Victoria has adopted an alternative target for recreational purposes as identified in Part 4.6.3 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The targets are specified as they meet the requirements of section 10.32(4)(c)(ii) of the Basin Plan.
10.32(3)	However, if the objectively determined actual value of a water quality characteristic at a site is better than the target value identified in subsection (2), then the target value is that better value.	Victoria's North and Murray water resource plan area This section does not contain a requirement and informs the response to section 10.32(2) of the Basin Plan.	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.32(4)	The WQM Plan may specify an alternative water quality target value if: (a) it is consistent with the water quality objectives in Part 3 of Chapter 9; and (b) it is determined in accordance with the procedures set out in the ANZECC Guidelines; and (c) either: (i) the alternative target value provides a better level of protection than the value that would apply under subsection (2) or (3), as applicable; or (ii) the WQM Plan sets out reasons why the alternative target value will be as effective in achieving the objectives in Part 3 of Chapter 9; or (iii) the WQM Plan sets out reasons why the target value in subsection (2) or (3), as applicable, is inappropriate for the water resource plan area; and (d) for a water resource that is also covered by a water resource plan area of another Basin State—it is developed in consultation with that State.	Victoria's North and Murray water resource plan area This matter informs the response for 10.32(2) of the Basin Plan.	n/a	The following parts of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report outline how the requirements of 10.32(4)(a), 10.32(4)(b) and 10.32(4)(c)(ii) of the Basin Plan have been met in setting the targets in SEPP (Waters) as alternative targets for the purposes of responding to section 10.32(2) of the Basin Plan; <ul style="list-style-type: none">10.32(2)(a) targets for fresh water-dependent ecosystems: Part 4.6.1.110.32(2)(b) targets for irrigation water: Part 4.6.2.110.32(2)(c) targets for recreational water: Part 4.6.3.1 Section 10.32(4)(d) of the Basin Plan only applies to developing targets for the Victorian Murray water resource plan area, as the Victorian Murray water resource plan area is covered by a water resource plan area of another Basin State. The discussion of how alternative targets were developed in consultation with other States is provided in Part 4.6.5 of Appendix A .
10.33(1)	The WQM Plan must specify measures to be undertaken in or in relation to the water resources of the water resource plan area that contribute to the achievement of the objectives set out in: (a) section 9.04 (Objectives of water-dependent ecosystems); and (b) section 9.05 (Objectives for raw water for treatment for human consumption); and (c) section 9.06 (Objective for irrigation water); and (d) section 9.07 (Objective for recreational water quality); and (e) section 9.08 (Objective to maintain good levels of water quality); unless there are no such measures that can be undertaken cost-effectively.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Measures to be undertaken that contribute to the achievement of the objectives set out in sections 9.04 to 9.08 of the Basin Plan are set out in Part 4.5 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report.	Minister for Water	Victoria has done a detailed review to identify and specify measures for each of the Northern Victoria and Victorian Murray water resource plan areas that will contribute to the achievement of the Basin Plan's water quality objectives. Two significant measures that will contribute to the achievement of water quality objectives under section 10.33 of the Basin Plan for the Northern Victorian and Victorian Murray water resource plan areas are set out in Part 4.5 and are: 1. implementation of the State Environment Protection Policy (Waters) 2. implementation of Victoria's commitments under the Basin Salinity Management Strategy 2030
10.33(2)	The measures must be prepared having regard to: (a) the causes, or likely causes, of water quality degradation identified in accordance with section 10.30; and (b) target values identified in accordance with section 10.32; and (c) the targets in Division 4 of Part 4 of Chapter 9.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. No accredited text is needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	The measures prepared for the purpose of section 10.33(1) of the Basin Plan were prepared having regard to the causes and likely causes of water quality degradation as identified for the purpose of section 10.30 of the Basin Plan and the target values identified for the purpose of section 10.32 of the Basin Plan and the targets in Division 4 of Part 4 of Chapter 9 of the Basin Plan. Consideration of the measures is described in Part 4.5.3 and Part 4.5.4 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report.
10.33(3)	The measures may include land management measures.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Land management measures have not been included in the Water Quality Management Plan prepared under Part 7 of the Basin Plan.	n/a	
10.34	The WQM Plan must identify the sites in the water resource plan area at which the target values for irrigation water apply.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 9 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report identifies the extraction points where the irrigation water target applies.	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.35	The measures specified in the WQM Plan must be developed having regard to: (a) the impact those measures (including the absence of adequate measures) may have on the ability of another Basin State to meet water quality targets; and (b) any adverse impacts those measures may have on Basin water resources in the other Basin State.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	The Water Quality Management Plan included at Appendix A to Victoria's North and Murray Comprehensive Report has been developed having regard to the impact of any measures on the ability of another Basin State to meet water quality targets and any adverse impacts the measures may have on the Basin water resources in the other Basin State. Consideration of the impact on another Basin State is outlined in Part 4.5.5 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report. The Victorian Murray water resource plan area is connected to the New South Wales Murray and Lower Darling water resource plan area and the South Australian River Murray water resource plan area. See Part 4.5.5.1 for discussion relating to Victorian Murray water resource plan area and consideration of the impact of New South Wales and South Australia. The Northern Victoria water resource plan area is not considered to be connected to the water resource plan areas of other Basin states this is explained in Part 4.5.5.2 .
Division 3 - Groundwater				
10.35A	The WQM Plan must identify the causes, or likely causes, of water quality degradation in the water resource plan area having regard to the key causes of water quality degradation identified in Part 2 of Chapter 9 and set out in Schedule 10.	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Part 5.2 of Appendix A to Victoria's North and Murray Comprehensive Report identifies two possible causes of degradation relating to the future risk to the quality of groundwater.	n/a	The groundwaters in the Goulburn-Murray water resource plan area has not experienced significant degradation. As previously described the chemical composition of Victoria's groundwater is varied in relation to salinity levels. The areas of high groundwater salinity in the west of the state are not a matter of degradation, but rather the natural state of the system. Although there has been no measured degradation in the Goulburn-Murray water resource plan area to date, there are current processes which could potentially lead to some level of decline in the quality of groundwater during the life of Victoria's North and Murray Water Resource Plan (see Part 5.3.1.1). Based on the future risk of degradation occurring (outlined in Part 5.3.1), two possible causes of degradation in the Goulburn-Murray: Sedimentary Plain SDL resource unit are identified: <ul style="list-style-type: none"> the use of groundwater for irrigation purposes at locations where highly saline upper aquifer water drains to the lower aquifer changes in hydraulic gradients inducing saline groundwater into areas of fresher groundwater These possible causes of future groundwater degradation are due to drawdown of groundwater levels or pressures inducing saline groundwater from connected areas that are naturally saline moving either laterally or vertically into areas of fresher groundwater. The measures outlined in Part 5.5.1 in response to section 10.35D of the Basin Plan will address these likely causes. See Part 5.2 of Victoria's North and Murray Water Quality Management Plan in Appendix A to Victoria's North and Murray Comprehensive Report.
10.35B(1)	1. The WQM Plan must identify the water quality target values for the water resource plan area.	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Water quality targets have been identified in response to section 10.35B(2) of the Basin Plan in Victoria's North and Murray Index Table.	n/a	
10.35B(2)	2. The water quality target values are the following: (a) for fresh water-dependent ecosystems—the applicable target values referred to in section 9.16;	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The water quality targets are those set out in Part 5.4 of Victoria's North and Murray Water Quality Management Plan in Appendix A to Victoria's North and Murray Comprehensive Report.	n/a	Part 5.4 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report outlines the use of the targets in SEPP (Waters) as alternative targets for fresh water-dependent ecosystems.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.35B(2)	2. The water quality target values are the following: (b) for irrigation water—the target values for water quality characteristics set out in section 9.17;	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. The water quality targets are those set out in Part 5.4 of Victoria's North and Murray Water Quality Management Plan in Appendix A to Victoria's North and Murray Comprehensive Report.	n/a	These do not apply as no groundwater is distributed by an irrigation infrastructure operator for the purpose of irrigation.
10.35B(2)	2. The water quality target values are the following: (c) for water used for recreational purposes—the values set out in section 9.18.	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Groundwater is not used for recreational purposes in the Goulburn-Murray water resource plan area and therefore no values will be applied for groundwater in Victoria's North and Murray Water Resource Plan Water Quality Management Plan.	n/a	
10.35B(3)	3. However, the WQM Plan may specify alternative water quality target values if they are consistent with the water quality objectives in Part 3 of Chapter 9.	Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. In response to section 10.35B(2) of the Basin Plan, alternative targets consistent with the objectives in Part 3 of Chapter 9 have been identified.	n/a	Alternative water quality target values are adopted for fresh water-dependent ecosystems in response to Basin Plan section 10.35B(2)(a). Part 5.4 of Victoria's North and Murray Water Quality Management Plan at Appendix A to Victoria's North and Murray Comprehensive Report outlines the use of the targets in SEPP (Waters) as alternative targets for fresh water-dependent ecosystems.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.35C	<p>1. In preparing the WQM Plan, regard must be had to whether it is desirable for it to include rules or measures that support the maintenance of water quality within groundwater SDL resource units against the effects of elevated levels of salinity and other types of water quality degradation, taking into account the causes, or likely causes, of water quality degradation identified under section 10.35A and the water quality target values identified under section 10.35B.</p> <p>2. Without limiting subsection (1), regard must be had to whether it is desirable for the WQM Plan to include rules or measures that specify:</p> <p>(a) the times, places and rates at which water is permitted to be taken from a groundwater SDL resource unit; and</p> <p>(b) resource condition limits, being limits beyond which the taking of groundwater from the groundwater SDL resource unit will result in an elevated level of salinity or another type of water quality degradation; and</p> <p>(c) restrictions on the water permitted to be taken (including the times, places and rates at which water may be taken) in order to prevent a resource condition limit from being exceeded; and</p> <p>(d) a requirement to establish and maintain a register which identifies the sites of bores used to monitor salinity or other water quality characteristics in the groundwater SDL resource unit.</p> <p>3. If the outcome of the requirement in subsection (1) is that such rules or measures are desirable, the WQM Plan must include those rules or measures, or explain why they have not been included.</p>	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. The Minister may prepare guidelines under section 30 of the <i>Water Act 1989</i> (Vic) for the preparation of a draft management plan for an area declared under section 27 of the <i>Water Act 1989</i> (Vic) to require the consultative committee to consider the matters in paragraph (2) below when developing a draft statutory management plan under section 31 of the <i>Water Act 1989</i> (Vic).</p> <p>2. The guidelines may require the consultative committee to consider whether the draft statutory management plan should include prescriptions for groundwater monitoring having regard to measured or potential elevated (increased above a base line) levels of salinity or other types of water quality degradation within the area.</p> <p>3. Prescriptions identified in accordance with paragraph (2) above may include:</p> <p>(a) a requirement to undertake monitoring;</p> <p>(b) the period and frequency over which the monitoring should occur;</p> <p>(c) the locations at which monitoring should occur;</p> <p>(d) restrictions that may be applied to the extraction of groundwater under a take and use licence and how the restrictions will be applied;</p> <p>(e) a limit on the level of take within the declared water supply protection area.</p> <p>4. In considering a draft statutory management plan under section 32A of the <i>Water Act 1989</i> (Vic), the Minister must consider whether the prescriptions included in the draft plan address the types of risks referred in paragraph (2) above if identified for the water supply protection area relevant to the draft plan.</p> <p>5. In addition to the above rule, the following measure applies to Victoria's North and Murray water resource plan area:</p> <ul style="list-style-type: none"> the implementation of State Environmental Protection Policy - SEPP (Waters) - particularly relating to the protection of groundwater beneficial uses under Part 3 of Division 3 of that policy. <p>6. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only.</p>	Minister	<p>The rule developed in response to section 10.35C of the Basin Plan addresses the requirement in section 10.35D of the Basin Plan (note also the measures identified in Column 3 of Victoria's North and Murray Index Table in response to section 10.35D). In order to support consistent management of water resources across the Goulburn-Murray water resource plan area the proposed rule in response to section 10.35D of the Basin Plan for the Goulburn-Murray Sedimentary Plain SDL resource unit has been included in Victoria's North and Murray Water Resource Plan in response to section 10.35C of the Basin Plan so that it applies to all SDL resource units in the Goulburn-Murray water resource plan area. On that basis, the rule in response to section 10.35C of the Basin Plan meets the objectives of section 10.35D of the Basin Plan and allows Victoria to adaptively respond to resource management issues without requiring amendment to Victoria's North and Murray Water Resource Plan.</p> <p>The rule identified in response to section 10.35C applies in the Goulburn-Murray water resource plan area where a water supply protection area is declared. This rule would apply to new and existing declared water supply protection area. It is intended the rule will capture existing localised risks in addition to new risks that may arise during the life of Victoria's North and Murray Water Resource Plan.</p> <p>Much of the Northern Victoria Water Resources Plan area contains saline shallow groundwater, generally as a result of salt concentration through long groundwater residence times as it travels through the clays, silts and sand aquifers. Extensive areas of the Sedimentary Plains and Shepparton Irrigation Region SDL resource units are underlain by saline waterbodies, especially towards the north and west. Saline shallow groundwater is also found within the Highlands SDL resource unit, and this is a function of the rainfall recharge and evapotranspiration rates at each site.</p> <p>The statutory plans and local management plans across the area have been developed to protect existing users and the environment from water quantity and water quality degradation, with trigger levels and other restrictions established to afford protection and early warning of emerging issues.</p> <p>The Lower Campaspe Valley Water Supply Protection Area management plan, for example, has established a salinity monitoring program that includes:</p> <p>(a) voluntary sampling of private licensed bores operated by groundwater user/bore owner (encouraging all groundwater users to take part)</p> <p>(b) targeted sampling of private licensed bores (to provide a consistent, regular dataset)</p> <p>(c) sampling via State observation bores (to provide consistent, regular groundwater quality data, away from direct pumping impacts, across the Deep Lead and Shepparton Formation aquifers in the area).</p> <p>This information feeds into the analysis and adaptive management approach to assess water quality changes and to evaluate whether any restrictions or other management interventions are required to protect water quality.</p> <p>From a protection of groundwater-dependent priority environmental assets standpoint, long-term management of these assets may involve the maintenance of groundwater of a sufficient quantity and quality at the right times to sustain the GDEs present. On the other hand, it may also involve the protection of the groundwater dependent ecosystems from receiving too much saline groundwater. The Shepparton Irrigation Region GMA Plan, within which many PEAs are present, has been established to support land and environmental protection from high waterbodies, saline groundwater discharge and waterlogging. Users are encouraged to pump and use groundwater from the shallow Shepparton and Coonambidgal Formations to lower saline groundwater levels across the region. The PEAs are subject to regular and frequent condition monitoring, coinciding with regular and extensive monitoring of watertable levels and quality across the Shepparton Irrigation Region.</p>

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10.35D	<p>The WQM Plan for the following water resource plan areas must include rules or measures that are designed to ensure that the objective set out in section 10.35C is met:</p> <p>(a) the NSW Murray-Darling Basin Porous Rock water resource plan area, in relation to the Western Porous Rock, Gunnedah-Oxley Basin MDB and Sydney Basin MDB SDL resource units;</p> <p>(b) the Goulburn-Murray water resource plan area, in relation to the Goulburn-Murray: Sedimentary Plain SDL resource unit.</p>	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray. Sedimentary Plain SDL resource unit. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. Victoria's North and Murray Water Resource Plan ensure the objectives set out in section 10.35C of the Basin Plan are met through:</p> <p>(a) the rule contained in Victoria's North and Murray Water Resource Plan in response to section 10.35C of the Basin Plan that applies to all water resources in the Goulburn-Murray water resource plan area; and</p> <p>(b) the measures as identified in paragraph (2) in response to section 10.35D of the Basin Plan.</p> <p>2. The measures to ensure the objectives in section 10.35C of the Basin Plan are met for the Goulburn-Murray: Sedimentary Plain SDL resource unit are:</p> <p>(a) the implementation of State Environmental Protection Policy - <i>SEPP (Waters)</i> - particularly relating to the protection of groundwater beneficial uses under Part 3 of Division 3 of that policy;</p> <p>(b) the Minister will impose conditions relating to the time, place and rate of take for groundwater extraction in conditions on a take and use licence under section 56 of the <i>Water Act 1989</i> (Vic) or under a works licence under section 67 of the <i>Water Act 1989</i> (Vic) as relevant;</p> <p>(c) in response to changes in risks to the maintenance of groundwater quality and the impacts of groundwater extraction on groundwater dependent environmental assets, the application of the rules under Victoria's North and Murray Water Resource Plan in response to Part 4 of Chapter 10 of the Basin Plan;</p> <p>(d) maintenance of a register of State observation bores;</p> <p>(e) scheduled groundwater level readings from identified bores;</p> <p>(f) establishment of targeted groundwater salinity monitoring program, including requirements for the collection of samples and recording of salinity levels, under statutory management plans approved under section 32A of the <i>Water Act 1989</i> (Vic) were risks to groundwater quality are identified;</p> <p>(g) where there is a decline in water quality, the Minister must investigate the cause of the decline in water quality and determine whether:</p> <p>(i) a targeted groundwater salinity monitoring program is required, or additional monitoring is required;</p> <p>(ii) restrictions on the take of groundwater from that area should be applied to prevent the continued deterioration of groundwater quality; or</p> <p>(iii) a water supply protection area should be declared in accordance with section 27 of the <i>Water Act 1989</i> (Vic), to cause a statutory management plan to be prepared.</p>	n/a	<p>The measures identified in response to section 10.35D of the Basin Plan meet the requirements as they identify how Victoria will ensure that the objectives in section 10.35C of the Basin Plan are met. The measures align with the objectives of section 10.35C as follows:</p> <ul style="list-style-type: none"> setting conditions relating to the time, place and rate of extraction from an aquifer on water access rights or associated authorisations support the management of potential impacts of extraction on the structural integrity of an aquifer and the condition of groundwater resources. Conditions are imposed either on the take and use licence that authorises the take of groundwater or on the works licence which authorises the construction and operation of the bore through which the extraction occurs. Management of the place and rate of extraction also mitigates risks to neighbouring impacts on environmental assets and other water users which can mitigate possible causes of groundwater quality degradation (see Section 7.4.2.6 of Victoria's North and Murray Comprehensive Report for more information on neighbouring impacts) maintenance of a register of State observation bores (for more information of State observation bores see below) scheduled monitoring requirements to ensure water resource managers have up to date information about groundwater levels in order to respond to impacts on structural integrity or groundwater levels that may have effects on elevated levels of salinity or other types of water quality degradation. Under statutory management plans, groundwater monitoring can occur either quarterly, monthly or more frequently as required to respond to risks establishment of targeted groundwater salinity monitoring programs under statutory management plans, including the collection of samples. <p>A measure is not considered necessary for the determination of resource conditions limits to meet the objectives of section 10.35C of the Basin Plan. The setting of resource condition limits is fundamental to Victoria's entitlement framework as outlined in Section 7.4 of Victoria's North and Murray Comprehensive Report. Additionally, the operation of responses to sections 10.08(2), 10.11(1), 10.37, 10.38 and 10.39 of the Basin Plan outlined in Victoria's North and Murray Index Table provide for protections against the take exceeding resource condition limits. See Column 5 for further discussion of how these components of Victoria's North and Murray Water Resource Plan will operate.</p> <p>A measure has been included to have regard to resource condition limits when setting restrictions on take and use licences or granting new or transferring existing take and use licences. Resource condition limits for the purpose of section 10.35D (2) include permissible consumptive volumes (declared under section 22A of the Victorian Water Act), prescriptions in WSPA plans relating to limits on take, trigger levels, restrictions imposed on take and use licences, intensity rules and trade zone limits rules. These resource conditions maintain groundwater levels and hydraulic relationships which can prevent the ingress of saline groundwater into areas of less saline groundwater.</p> <p>Monitoring of groundwater quality will allow the Minister to assess whether there has been a decline in water quality that would require investigation of the cause of the decline (as specified in 10.35D(g)).</p> <p>Any investigation will consider the causes of the decline and the risks to the beneficial uses of the groundwater as defined in Table 2 of the State Environment Protection Policy (Waters).</p> <p>CI 43 in SEPP (Waters) specifies the obligation for management of extraction risks to waters: Water corporations, where the Minister has delegated powers and functions in respect to the administration of licences under the Water Act 1989, must ensure that their licensing decisions do not pose a risk to beneficial uses through reducing the quality and quantity of the adjoining waters.</p> <p>Victoria already provides for a register of sites monitored by State observation bores. The primary purpose of the State Observation Bores Network (SOBN) is to collect groundwater data for observational purposes. This data can be used for research and other informative measures, to improve the access and management of groundwater. A list of sites within the SOBN can be found at http://data.water.vic.gov.au/static-htm. Monitoring through the SOBN can occur outside a water supply protection area.</p> <p>The surface water and groundwater data contained in Water Measurement Information System (WMIS) is collected through the Regional Water Monitoring Partnerships. There are currently 41 organisations within these Partnerships, covering state government (DELWP), Commonwealth government (Bureau of Meteorology and Murray-Darling Basin Authority), water corporations, catchment management authorities and local government (councils).</p>

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		<p>(h) restrictions on taking groundwater and the issuing or transfer of licences for the taking of groundwater in the Goulburn-Murray: Sedimentary Plain SDL resource unit must be informed by any resource condition limit specified under a permissible consumptive volume declaration under section 22A of the <i>Water Act 1989</i> (Vic) or in a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) for a water supply protection area declared under section 27 of the <i>Water Act 1989</i> (Vic).</p> <p>3. The operation of the response to section 10.08(2), 10.11(1), and, where groundwater is traded, Part 8 of Chapter 10 of the Basin Plan in Victoria's North and Murray Water Resource Plan has the effect of ensuring that resource conditions limits are not exceeded.</p> <p>4. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only.</p> <p>Note: the measure under (2)(h) above reflects the rule included in Victoria's North and Murray Water Resource Plan in response to section 10.21 of the Basin Plan.</p>	<p>Minister</p> <p>n/a</p> <p>n/a</p>	<p>WMIS is the primary access point to search, discover and download surface water (water level, flow and water quality) and groundwater (water level and water quality) monitoring data. WMIS now contains real time data (less than 1 hour old) data for all telemetered surface water gauges and groundwater bores.</p> <ul style="list-style-type: none"> The measures outlined in response to section 10.35D of the Basin Plan are reflected in: <ul style="list-style-type: none"> Lower Campaspe Valley WSPA Groundwater Management Plan (prescription 4) Loddon Highlands WSPA Groundwater Management Plan (prescription 5) Katunga WSPA Groundwater Management Plan (prescriptions 5 and 6) Upper Ovens River WSPA Water Management Plan (prescription 49 with prescriptions 2-11 reflecting the requirements under the rules relating to statutory management plans in response to Part 4 of Chapter 10 of Basin Plan. <p>In accordance with the measure under (2)(g) in Column 3 of Victoria's North and Murray Index Table in response to section 10.35D of the Basin Plan identifies that where the groundwater monitoring identifies a decline in the groundwater quality in a particular, aquifer or area.</p>

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Part 8 Trade of water access rights				
10.36	This Part does not apply to water access rights of a kind that are not able to be traded under State water management law.	Victoria's North and Murray water resource plan area This matter informs the interpretation of Part 8 of Chapter 10 of the Basin Plan and does not contain a water resource plan requirement.	n/a	Refer to Table A and Table B attached to Victoria's North and Murray Index Table for details about tradability of water access rights in Victoria. See Figure 7-7 and Figure 7-11 in Section 7.4.2 of Victoria's North and Murray Comprehensive Report regarding considerations in determining temporary or permanent transfer of entitlement.
10.37(1)	A water resource plan must set out the circumstances in which trade between 2 locations within a groundwater SDL resource unit is permitted. In setting out the circumstances, a water resource plan must ensure that each condition set out in section 12.24 will be met in relation to the proposed trade.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 and Figure 2-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to the surface water component of Victoria's North and Murray Water Resource Plan.	n/a	<p>This requirement is met as the circumstances identified in Column 3 of this row ensure the conditions set out in section 12.24 of the Basin Plan are met.</p> <p>The process for determining a transfer (trade) of a take and use licence (groundwater water access right) using a desktop assessment process and involves the following:</p> <ul style="list-style-type: none"> Assessment of sufficient hydraulic connectivity through a hydrogeological resource assessment or as indicated in a statutory management plan. The assessment of hydraulic connectivity is outlined below. The holder (or potential holder) of a take and use licence (water holder) will know whether there is sufficient hydraulic connectivity based on a hydrogeological assessment they are required to commission where one has not occurred previously, or upon advice from the water corporation or by virtue of a published statutory management plan. If lack of sufficient hydraulic connectivity is a reason for refusing the trade, the applicant (water holder or potential water holder) will be notified of the lack of sufficient hydraulic connectivity Identification of a permissible consumptive volume is published and an applicant (water holder or potential water holder) can request information about current permissible consumptive volumes and current levels of take in addition to finding the information on the Victorian Water Register. The Victorian Water Act provides for a groundwater trade to be made by a transfer of the relevant take and use licence. It requires traded licences to maintain their essential characteristics such as volume, term and conditions (noting that take and use licences do not have the characteristics of high or low reliability). Note also the application of <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015) identified in response to Part 4 of Chapter 10 of Basin Plan. Consideration of third party impacts occurs on all assessments. Consideration of the potential impacts on other users is required under section 40(1)(d)(i) of the Victorian Water Act and consideration of the needs of other potential applicants is required under section 40(1)(m) of the Victorian Water Act. Consideration of third-party impacts are discussed in more detail in Section 7.4.2.6 of Victoria's North and Murray Comprehensive Report. <p>While making the assessment the relevant water corporation will:</p> <ul style="list-style-type: none"> Identify to the applicant (water holder or potential water holder) any medium to high risks to the resource or third parties identified in the process prior to completing the process to determine whether the applicant wishes to withdraw their application, amend their application to reduce the risk or provide the additional analysis requested Where an application is refused the water corporation will advise the applicant and provide information requested by the applicant. Where an application relates to a high risk, a Statement of Reasons is provided. <p>Each SDL resource unit has been established based on hydrogeological and terrain similarities. Within each SDL resource unit, groundwater systems are actively managed through groundwater management area (GMA) local plans and water supply protection area (WSPA) plans. The boundaries of these plans are set to encompass the common and connected aquifers within each SDL resource unit.</p>

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		<p>Column 3 Accredited response Sect 10.04(2) & (3)</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Trade between two locations within a single SDL resource unit in the Goulburn-Murray water resource plan area is permitted in the following circumstances: <ol style="list-style-type: none"> if the two locations are within the same geology as defined by the SDL groundwater unit where sufficient hydraulic connectivity is demonstrated by the relevant hydrogeological resource assessment or statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) as appropriate; and if the relevant permissible consumptive volume declared under section 22A of the <i>Water Act 1989</i> (Vic) is not exceeded; and except for in the Upper Ovens River Water Supply Protection Area, for the transfer of a take and use licence, the characteristics of the take and use licence to be traded relating to timing, reliability and volume will be maintained; and in the Upper Ovens River Water Supply Protection Area, for the permanent transfer of a take and use licence, the characteristics of the take and use licence to be traded relating to timing, reliability and volume will be maintained; and where regard has been had to any adverse effect that the trade is likely to have on existing authorised users of water and measures are in place to address any adverse effect. Figure 7-7 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer (trade) of a take and use licence under the <i>Water Act 1989</i> (Vic) and demonstrates how the conditions set out in section 12.24 of the Basin Plan align with the Victorian framework. Reference to the <i>Water Act 1989</i> (Vic) in Figure 7-7 of Victoria's North and Murray Comprehensive Report does not form part of the response and is included for reference only. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only. <p>Note 1: Section 12.27 of the Basin Plan clarifies that the requirements of Chapter 12 of the Plan, including trade within a groundwater SDL unit (section 12.24 of the Basin Plan), trade between groundwater SDL units (section 12.25 of the Basin Plan), and trade between groundwater and surface water (section 12.26 of the Basin Plan) are not intended to prevent a restriction being imposed on a trade of a water access right under State water management law because a person has committed an offence or failed to pay fees or charges. State water management law includes the <i>Water Act 1989</i> (Vic) and regulations and other instruments made under that Act.</p> <p>Note 2: permissible consumptive volumes declared under section 22A of the <i>Water Act 1989</i> (Vic) have the effect of setting a resource condition limit for the resource to which the declaration applies.</p> <p>Note 3: See response to section 10.18 (3) which applies a rule under paragraph (1) of that response relating to the consideration of risks to high value groundwater dependent ecosystems relating to the transfer of a take and use licence. This rule applies the <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015). See the discussion in response to Part 4 in Column 5 of Victoria's North and Murray Index Table for more information on the application of this policy and the rule.</p>	n/a
			<p>Column 5 Explanatory material</p> <p>Trade in groundwater is achieved by transferring the whole or part of a take and use licence. Figure 7-7 in Section 7.4.2.1 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer of a take and use licence under the Victorian Water Act in further detail. Figure 7-6 shows how the circumstances under section 12.24 of the Basin Plan align with the Victorian framework and ensure that trade cannot occur where the circumstances of section 12.24 of the Basin Plan do not exist. Figure 7-11 identifies how the requirements of Chapter 12 of Basin Plan align with the content of Victoria's North and Murray Water Resource Plan in response to Part 8 of Chapter 10 of the Basin Plan in addition to demonstrating how the requirements under Victoria's Water Act align with those requirements.</p> <p>See Section 7.4.2.8 of Victoria's North and Murray Comprehensive Report for further explanation of trades between two locations within a groundwater SDL resource unit in the Goulburn-Murray water resource plan area. Reference to Figure 7-6 in Column 3 does not have the effect of importing the sections of the Victorian Water Act referenced in the diagram into the accredited material.</p> <p>Trade within the Goulburn-Murray: Highlands (GS8b), Goulburn-Murray: Sedimentary Plain (GS8c) and Goulburn-Murray: deep (GS8d) SDL resource units is permitted as described in Victoria's North and Murray Comprehensive Report.</p> <p>However, while trade is permitted within the Goulburn-Murray: Shepparton Irrigation Region SDL Resource Unit (GS8a) as there is sufficient hydraulic connectivity, trade is typically not supported as the aim of groundwater management within this resource unit is to maximise groundwater extraction to provide salinity and shallow watertable control.</p> <p>Sufficient Hydraulic Connectivity Assessment: For discussion of significant hydraulic connectivity in and to the Goulburn-Murray water resource plan area see the response to section 10.05(b) in Column 3 and 5 of Victoria's North and Murray Index Table.</p> <p>Sufficient hydraulic connectivity is considered to exist in a groundwater system through which groundwater may flow, which has discrete boundaries, and which has areas of groundwater recharge and discharge. It may include a single aquifer, a group of connected aquifers, or groundwater and surface water elements in conjunction, that are connected by a groundwater flow path.</p> <p>Sufficient hydraulic connectivity has been demonstrated between points within:</p> <ul style="list-style-type: none"> the Goulburn-Murray: Sedimentary Plain SDL resource unit, as these aquifers are continuous and connected across the resource unit, the Goulburn-Murray: Highlands SDL resource unit where these are found within groundwater catchments defined in the <i>Victoria Groundwater Management framework (Proposed Boundaries for Groundwater Catchments)</i> (DSE, 2012) as these are connected through the flow paths along the catchment, and the Goulburn-Murray: Highlands SDL resource unit between adjoining groundwater catchments defined in the <i>Victoria Groundwater Management framework (Proposed Boundaries for Groundwater Catchments)</i> (DSE, 2012) as these are sufficiently connected for trade purposes. These are broadly consistent with the Goulburn-Murray: Highlands SDL resource unit as defined in "The proposed Groundwater Baseline and Sustainable Diversion Limits: methods report, MDBA publication no. 16/12". <p>While sufficient hydraulic connectivity has not been demonstrated or established between all locations within an SDL resource unit it is proposed that Victoria's North and Murray Water Resource Plan is enabling of trade to support development of trading zones as understanding of hydraulic connectivity is improved. The effect of paragraph (a) in the accredited text in Column 3 is to require the decision makers to turn their mind to sufficient hydraulic connectivity when determining whether a transfer of a groundwater take and use licence should be approved. Failure to consider whether sufficient hydraulic connectivity is established would result in the decision maker acting inconsistently with Victoria's North and Murray Water Resource Plan which is an offence under section 59 of the Commonwealth Water Act and which would be enforceable by the MDBA. Furthermore, consistency with water resource plans must be reported under Matter 19 of Schedule 12 to the Basin Plan.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)
		<p>Note 4: The effect of the circumstance identified in paragraph (d) is that in the Upper Ovens River Water Supply Protection Area (WSPA), where groundwater is permanently traded upstream, a downstream full year licence cannot be traded and converted to a winter-fill licence upstream. The 'upstream trading rule' in the Upper Ovens River WSPA Water Management Plan, however, only permits trade of a downstream full year licence to an upstream water user if the licence is converted into a winter-fill licence. Accordingly, for upstream trade of full year licences to continue, the licence will need to be converted to a winter-fill licence prior to being traded to comply. Goulburn-Murray Water will need to identify a process for managing this type of trade prior to approving a trade in the Upper Ovens River Water Supply Protection Area to ensure decisions are consistent with Victoria's North and Murray Water Resource Plan and Chapter 12 of the Basin Plan.</p>	
			<p>In determining whether a transfer (or trade) of a groundwater take and use licence can occur the delegated authorising authority must assess the hydrogeological setting before a transfer can proceed. Regardless of whether the ability to trade has already been established between two locations, a hydrogeological resource assessment will always be undertaken or referred to in respect of each individual trade. One component of this assessment is whether there is sufficient hydraulic connectivity between the two locations to support the transfer. Examination of aquifer interactions and local and regional groundwater flow patterns helps to establish connection. Hydrogeological resource assessments are discussed in more detail at Section 7.4.2.2 of Victoria's North and Murray Comprehensive Report.</p> <p>The relevant hydrogeological resource assessment may include an assessment prepared for a previous licence issue or transfer. An assessment will be updated if the circumstances of the transfer (trade) are different or the information is out of date and an updated assessment is required. Therefore, it is not necessarily required that a new hydrogeological assessment occur for each transfer (trade). Equally where a statutory management plan is in place an assessment has been undertaken in respect of the resources within the declared water supply protection area to support the development of the relevant statutory management plan. That technical assessment will be relied upon where relevant for applications to trade groundwater within the declared water supply protection area</p> <p>Permissible Consumptive Volume</p> <p>Where relevant, resource condition limits are set through permissible consumptive volumes (PCVs) declared under section 22A of the Victorian Water Act. A PCV declaration essentially determines the consumptive cap for the specified resource and operates to limit the issuing of new entitlements. The Minister (or delegate) cannot issue a new take and use licence if it will result in the relevant PCV being exceeded. PCVs are declared for every groundwater management area and water supply protection area except under the Upper Ovens River WSPA Water Management Plan.</p> <p>Maintaining characteristics of the water access right</p> <p>The matter outlined in section 12.24(c) of the Basin Plan is not relevant in Victoria as trade can only occur in a manner that transfers an existing licence to another user. Further, timing for extractions is not a condition on take and use licences for groundwater. While there may be unique conditions on individual licences the characteristics of each type of entitlement does not change between users. It is understood that for the purposes of Basin Plan, changes from all-year licence to winter-fill will constitute a change to the timing characteristics of a water access right. This typically does not occur. The exception to this is the unique circumstance in the Upper Ovens River WSPA Water Management Plan which only permits trade to an upstream water user (noting that groundwater and surface water are treated as the same under this Plan) who can take under winter-fill licence. Water is not available under the resource condition limit under an all-year authorisation to take upstream without impacting on reliability of water for other users or without increasing the risk of adverse impacts on the environment.</p> <p>The upstream trading rule, which results in a winter-fill licence, ensures that there are no undesirable upstream impacts on summer flows that may affect the reliability of water users upstream. It also improves the reliability for water users downstream during the summer months and it reduces adverse environmental impacts upstream, where summer flows are likely to be less than at the downstream location. Trade in the Upper Ovens River WSPA Water Management Plan area is relevant to section 10.39 of the Basin Plan as it relates to trade of groundwater to surface water and vice versa.</p> <p>Following the trade of water, the conditions that apply to the take and use of that water after the trade, cannot be changed after the trade is given effect.</p> <p>The reliability cannot be affected by trading the entitlement. Further, the volume of the entitlement is subject to the specific trade. Water users in Victoria can trade the whole or part of their entitlement. This means that a water user will trade a specified volume to another person. One exception is trade occurring under the Upper Ovens River WSPA Water Management Plan which provides for a 20% rule for downstream users. This applies to surface water trade and is relevant to trade between surface water and groundwater SDL resource units in Victoria's North and Murray water resource plan area under section 10.39 of the Basin Plan. This is discussed in more detail in Column 5 of Victoria's North and Murray Index Table response to section 10.39(2) of the Basin Plan.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
				Impact on third parties Section 12.24(d) of the Basin Plan requires measures to be in place to address the impact on third parties because of trade, on water availability in relation to a water access right held by a third party. Third party impacts are assessed as part of the relevant hydrogeological resource assessment where the impact of the change in extraction is assessed based on neighbour, local and regional impacts. The impact on third parties is managed through extensive consultation, assessment and right of appeal to the Victorian Civil and Administrative Tribunal.
10.37(2)	If the water resource plan applies a conversion rate to meet the condition in paragraph 12.24(d), the water resource plan must either: (a) specify the conversion rate; or (b) set out the way in which the conversion rate will be determined from time to time and made generally available.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to the surface water component of Victoria's North and Murray Water Resource Plan.	n/a	
		Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. 1. In the Goulburn-Murray water resource plan area a 20 percent conversion rate applies if specified in the relevant statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) for a water supply protection area declared under section 27 of the <i>Water Act 1989</i> (Vic). 2. References to sections of the Water Act do not have the effect of importing the sections referenced into the accredited material but are included for reference only.	n/a	For discussion of the conversion rate see Column 5 of Victoria's North and Murray Index Table in response to section 10.39(2) of the Basin Plan.
10.38(1)	A water resource plan must set out the circumstances in which trade between 2 groundwater SDL resource units is permitted. In setting out the circumstances, a water resource plan must ensure that each condition set out in section 12.25 will be met in relation to proposed trade.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to the surface water component of Victoria's North and Murray Water Resource Plan.	n/a	

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)
		<p>Goulburn-Murray water resource plan area – Goulburn-Murray: Highlands and Goulburn-Murray: Sedimentary Plain SDL resource units</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray, Highlands and Goulburn-Murray: Sedimentary Plain SDL resource units in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> Trade between two groundwater SDL resource units within Victoria's North and Murray water resource plan area is permitted in the following circumstances: <ol style="list-style-type: none"> the two locations are within the Goulburn-Murray: Sedimentary Plain SDL resource unit and the Goulburn-Murray: Highlands SDL resource unit and sufficient hydraulic connectivity between the two locations has been demonstrated by the relevant hydrogeological resource assessment or statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic) where appropriate; and if the relevant permissible consumptive volume declared under section 22A of the <i>Water Act 1989</i> (Vic) is not exceeded; and if the volume to be traded is specified, noting that in Victoria measures are in place to ensure that the water access right to be traded will maintain its characteristics of timing, reliability and volume; and where regard has been had to any adverse effect that the trade is likely to have on existing authorised users of water and measures are in place to address any adverse effect. Where trade occurs in the above circumstances it will be recorded on the Victorian Water Register. Figure 7-7 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer (trade) of a take and use licence under the Water Act and demonstrates how the conditions set out in section 12.25 of the Basin Plan align with the Victorian framework. Reference to the <i>Water Act 1989</i> (Vic) in Figure 7-7 of Victoria's North and Murray Comprehensive Report does not form part of the response and is included for reference only. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only. <p>Note 1: Section 12.27 of the Basin Plan clarifies that the requirements of Chapter 12 of the Plan, including trade within a groundwater SDL unit (section 12.24 of the Basin Plan), trade between groundwater SDL units (section 12.25 of the Basin Plan), and trade between groundwater and surface water (section 12.26 of the Basin Plan) are not intended to prevent a restriction being imposed on a trade of a water access right under State water management law because a person has committed an offence or failed to pay fees or charges. State water management law includes the <i>Water Act 1989</i> (Vic) and regulations and other instruments made under that Act.</p> <p>Note 2: Permissible consumptive volumes declared under section 22A of the <i>Water Act 1989</i> (Vic) have the effect of setting a resource condition limit for the resource to which the declaration applies.</p>	n/a
			<p>Column 5 Explanatory material</p> <p>See discussion in Column 5 in response to section 10.37 of the Basin Plan regarding the process for assessing trade and the assessment of sufficient hydraulic connectivity, resource condition limits, maintaining characteristics of the water access right (take and use licence) and measures to address third party impacts. Below is an outline of the connectivity between two SDL resource units within the Goulburn-Murray water resource plan area.</p> <p>This requirement is met as the circumstances identified in Column 3 of this row ensure the conditions set out in section 12.25 of the Basin Plan are met. Trade into or out of two groundwater SDL resource units (Goulburn-Murray: Highlands and Goulburn-Murray: Sedimentary Plain SDL resource units) is permitted.</p> <p>The Goulburn-Murray: Sedimentary Plain SDL unit and the upgradient Goulburn-Murray: Highlands SDL unit are hydraulically connected at their boundary. For example, the Deep Lead aquifers contained in the Highlands SDL resource unit are hydraulically-connected to the Deep Lead aquifers present within the Sedimentary Plain SDL resource unit.</p> <p>Across the Central Victorian Mineral Springs Groundwater Management Area, Hagerly and Webb (2008) describe the results of water sampling and isotopic analysis that shows that the highlands Deep Lead aquifer is rapidly recharged through the overlying basalt aquifer. They also show the strong connection between the groundwater systems and surface water. Groundwater discharge dominates streamflow at low flows.</p> <p>Groundwater resource assessments and numerical modelling studies have also highlighted the interconnection between the Sedimentary Plain and Highlands SDL resource units; along the highland fringes and in the alluvial sediments within the river valleys of the Ovens, Broken, Goulburn, Campaspe and Loddon valleys and their tributaries.</p> <p>While sufficient hydraulic connectivity has not been demonstrated or established between all locations between two SDL resource units, it is proposed that Victoria's North and Murray Water Resource Plan is enabling of trade to support development of trading zones as understanding of hydraulic connectivity is improved. The effect of paragraph (a) in the accredited text in Column 3 is to require the decision makers to turn their mind to sufficient hydraulic connectivity when determining whether a transfer of a groundwater take and use licence should be approved. Failure to consider whether sufficient hydraulic connectivity is established would result in the decision maker acting inconsistent with Victoria's North and Murray Water Resource Plan which is an offence under section 58 of the Commonwealth Water Act and enforceable by the MDBA. Furthermore, consistency with water resource plans must be reported under Matter 19 of Schedule 12 to the Basin Plan.</p> <p>Regardless of whether the ability to trade has already been established between two locations via a previously approved trade, a hydrogeological assessment will always be undertaken in respect of each individual trade (either based on previous or new technical analysis) see Section 7.4.2.1 and Section 7.4.2.2 of Victoria's North and Murray Comprehensive Report.</p> <p>Individual statutory plans and local management plans have been developed across priority areas within the Sedimentary Plain SDL resource unit to support effective management of the groundwater resource. Some plans identified defined management zones with maximum licence volume limits for each, to provide a greater ability to manage the resource at the local scale and to reduce local impacts to neighbouring groundwater users, including the environment.</p> <p>All plans allow groundwater trade to occur if it does not cause the sum of total entitlement to exceed the permissible consumptive volume nor exceed any cap which may apply to the management zone (where present); and that it does not cause unacceptable groundwater interference or water quality impacts to environmental or consumptive users in the local area.</p> <p>Trade between two SDL resource units is permitted where the two locations are within the Goulburn-Murray: Sedimentary Plain SDL resource unit and the Goulburn-Murray: Highlands SDL resource unit, as these SDL resource units are considered to have sufficient hydraulic connectivity.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>Note 3: See response to section 10.18 (3) of the Basin Plan which applies a rule under paragraph (1) of that response relating to the consideration of risks to high value groundwater dependent ecosystems relating to the transfer of a take and use licence. This rule applies the <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015). See the discussion in response to Part 4 in Column 5 of Victoria's North and Murray Index Table for more information on the application of this policy and the rule.</p>		<p>See the discussion in Column 5 above in response to section 10.37 of the Basin Plan for:</p> <ul style="list-style-type: none"> A discussion of resource condition limits as relates to 12.25(b) of the Basin Plan as discussed in reference to section 12.24(b) of the Basin Plan A discussion of maintaining the characteristics of a water access right as relates to section 12.25(d) of the Basin Plan as discussed in reference to section 12.24(c) of the Basin Plan A discussion of impact on third parties as relates to section 12.25(e) of the Basin Plan as discussed in reference to section 12.24(d) of the Basin Plan. <p>In response to the condition in section 12.25(c) of the Basin Plan all trade is accounted for on the Victorian Water Register.</p> <p>Figure 7-7 in Section 7.4.2.1 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer of a take and use licence under the Victorian Water Act in further detail. Figure 7-7 and Figure 7-11 shows how the circumstances under section 12.25 of the Basin Plan align with the Victorian framework and ensure that trade cannot occur where the circumstances of section 12.25 of the Basin Plan do not exist. Reference to Figure 7-7 in Column 3 of this index does not have the effect of importing the sections of the Victorian Water Act referenced in the diagram into the accredited material. See Section 7.4.2.9 of Victoria's North and Murray Comprehensive Report for further explanation of trades between two groundwater SDL resource units in the Goulburn-Murray water resource plan area.</p>
		<p>Goulburn-Murray water resource plan area – Shepparton Irrigation Region and deep</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray, Shepparton Irrigation Region and the Goulburn-Murray: deep SDL resource units in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Trade is not permitted into or out of the Goulburn-Murray: Shepparton Irrigation Region or Goulburn-Murray: deep SDL resource units in the Goulburn-Murray water resource plan area.</p>	n/a	<p>Trade between the Goulburn-Murray: Shepparton Irrigation Region SDL resource unit and neighbouring Goulburn-Murray SDL resource units is not permitted, as the objective of the Shepparton Irrigation Region GMA plan is to encourage groundwater extraction to provide salinity and shallow watertable control.</p> <p>Trade into or out of the Goulburn-Murray: deep SDL resource unit is not permitted, given the poor hydraulic connectivity between this unit and the overlying aquifer layers.</p>
10.38(2)	<p>If the water resource plan applies a conversion rate to meet the condition in paragraph 12.25(e), the water resource plan must either:</p> <ol style="list-style-type: none"> specify the conversion rate; or set out the way in which the conversion rate will be determined from time to time and made generally available. 	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This matter is not relevant to the surface water component of Victoria's North and Murray Water Resource Plan.</p>	n/a	
		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>This matter is not relevant to Victoria's North and Murray Water Resource Plan.</p>	n/a	<p>This requirement is met as no conversion rates are applied in Victoria's North and Murray Water Resource Plan. A trade cannot be authorised in Victoria in circumstances where the trade will adversely impact water available to a third party. As identified for the purposes of section 10.38(1) of the Basin Plan, trade cannot occur if it results in an adverse impact on third parties.</p>

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10.39(1)	A water resource plan must set out the circumstances in which trade between a groundwater SDL resource unit and a surface water SDL resource unit is permitted. In setting out the circumstances, a water resource plan must ensure that each condition set out in section 12.26 will be met in relation to proposed trade.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> Trade between a groundwater SDL resource unit and a surface water SDL resource unit within Victoria's North and Murray water resource plan area is permitted in the following circumstances: <ol style="list-style-type: none"> the trade occurs in areas considered to have sufficient hydraulic connectivity as recognised in a statutory management plan approved under section 32A of the <i>Water Act 1989</i> (Vic); and if the relevant permissible consumptive volume declared under section 22A of the <i>Water Act 1989</i> (Vic) is not exceeded; and except for in the Upper Ovens River Water Supply Protection Area, for the transfer of a take and use licence, the characteristics of the take and use licence to be traded relating to timing, reliability and volume will be maintained; and in the Upper Ovens River Water Supply Protection Area, for the permanent transfer of a take and use licence, the characteristics of the take and use licence to be traded relating to timing, reliability and volume will be maintained; and where regard has been had to any adverse effect that the trade is likely to have on existing authorised users of water and measures are in place to address any adverse effect. Where trade occurs in the above circumstances it will be recorded on the Victorian Water Register. Figure 7-7 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer (trade) of a take and use licence under the <i>Water Act 1989</i> (Vic) and demonstrates how the conditions set out in section 12.26 of the Basin Plan align with the Victorian framework. Reference to the <i>Water Act 1989</i> (Vic) in Figure 7-7 of Victoria's North and Murray Comprehensive Report does not form part of the response and is included for reference only. References to sections of the <i>Water Act 1989</i> (Vic) do not have the effect of importing the sections referenced into the accredited material but are included for reference only. <p>Note 1: Section 12.27 of the Basin Plan clarifies that the requirements of Chapter 12 of the Plan, including trade within a groundwater SDL unit (section 12.24 of the Basin Plan), trade between groundwater SDL units (section 12.25 of the Basin Plan), and trade between groundwater and surface water (section 12.26 of the Basin Plan) are not intended to prevent a restriction being imposed on a trade of a water access right under State water management law because a person has committed an offence or failed to pay fees or charges. State water management law includes the <i>Water Act 1989</i> (Vic) and regulations and other instruments made under that Act.</p> <p>Note 2: Permissible consumptive volumes declared under section 22A of the <i>Water Act 1989</i> (Vic) have the effect of setting a resource condition limit for the resource to which the declaration applies.</p>	n/a
			<p>Column 5 Explanatory material</p> <p>See discussion in Column 5 in response to section 10.37 of the Basin Plan regarding the process for assessing trade and the assessment of sufficient hydraulic connectivity, resource condition limits, maintaining characteristics of the water access right (take and use licence) and measures to address third party impacts. Below is an outline of the connectivity between two SDL resource units within the Goulburn-Murray water resource plan area.</p> <p>Trade between surface water and groundwater is permitted where there is a high degree of connection recognised for the resource. Currently there is one area where groundwater to surface water trade is permitted: the Upper Ovens River Water Supply Protection Area (WSPA). This WSPA area contains significant groundwater resources within the alluvial sediments which are in close hydraulic connection to the main rivers and streams of the area. The WSPA has been split into two management zones: Zone 1 covers the extend of the highly permeable river alluvium and associated hillslope colluvium, with Zone 2 comprising the less conductive fractured bedrock which is not significantly hydraulically connected to the stream systems.</p> <p>In the Upper Ovens River WSPA Water Management Plan, the rules for transfers of entitlement are based around the following principles:</p> <ol style="list-style-type: none"> Groundwater and surface water in Zone 1 have consistent rules Trade upstream can occur as Winter-take only Trade of all-year licences can occur downstream only and subject to loss of 20%. Trade/convert from Zone 1 all-year groundwater to surface water but not surface water to groundwater Shifting entitlement from Zone 1 all-year to Winter-take or Zone 2 benefits summer flow and is supported. <p>Where relevant, condition limits are also set through a permissible consumptive volume order declared under section 22A of the Victorian Water Act. A PCV declaration essentially determines the consumptive cap for the specified resource and operates to limit the issuing of new entitlement volume. The Minister (or delegate) cannot issue a new take and use licence if it would result in the relevant permissible consumptive volume being exceeded.</p> <p>The Upper Ovens River WSPA does not have a permissible consumptive volume set on groundwater resources as the limit on issuing groundwater and surface water licences are prescribed in the Upper Ovens River WSPA Management Plan. An "all-year" groundwater licence cannot be issued if the combined "all-year" surface water and groundwater licences in Zone 1 exceed 14,546 ML/yr. Licensing in Zone 1 is effectively limited by the surface water cap on all year licences.</p> <p>In response to the matters outlined in section 12.26(d) of the Basin Plan, Zone 1 (which includes surface water and groundwater) in the Upper Ovens River WSPA where trade occurs is viewed as a combined unit. Therefore, the water access rights (take and use licences) in the area have substantially similar characteristics and those characteristics would be maintained to the extent possible after the trade (i.e. surface water flow rates would not apply to groundwater take).</p> <p>The Upper Ovens is considered a combined unit because the aquifer and river systems are in close connection and comprise coarse sand and gravels and some clay. This area has a long history of impacts to the watertable from surface water extraction and stream depletion through excessive pumping of groundwater close to the river. Measures to ensure the maintenance of characteristics of water access rights (take and use licences) are outlined in the Upper Ovens River WSPA Management Plan https://www.g-mwater.com.au/water-resources/ground-water/management/upperovenswspa the Upper Ovens Transfer Rules (https://www.g-mwater.com.au/downloads/gmw/Groundwater/Upper_Ovens_WSPA/FACT_SHEET_-_TRANSFER_RULES_FOR_THE_UPPER_OVENS_RIVER_WATER_MANAGEMENT_PLAN.pdf).</p>

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		<p>Note 3: See response to section 10:18 (3) which applies a rule under paragraph (1) of that response relating to the consideration of risks to high value groundwater dependent ecosystems relating to the transfer of a take and use licence. This rule applies the <i>Ministerial Guidelines for groundwater licensing and the protection of high value groundwater dependent ecosystems</i> (Minister for Water, 2015). See the discussion in response to Part 4 in Column 5 of Victoria's North and Murray Index Table for more information on the application of this policy and the rule.</p> <p>Note 4: The effect of the circumstance identified in paragraph (d) is that in the Upper Owens River Water Supply Protection Area (WSPA), where groundwater is permanently traded upstream, a downstream full year licence cannot be traded and converted to a winter-fill licence upstream. The 'upstream trading rule' in the Upper Owens River WSPA Water Management Plan, however, only permits trade of a downstream full year licence to an upstream water user if the licence is converted into a winter-fill licence. Accordingly, for upstream trade of full year licences to continue, the licence will need to be converted to a winter-fill licence prior to being traded to comply. Goulburn-Murray Water will need to identify a process for managing this type of trade prior to approving a trade in the Upper Owens River Water Supply Protection Area to ensure decisions are consistent with Victoria's North and Murray Water Resource Plan and Chapter 12 of the Basin Plan.</p>	
			<p>See the discussion in Column 5 above in response to section 10.37 of the Basin Plan for:</p> <ul style="list-style-type: none"> A discussion of resource condition limits as relates to 12.26(b) of the Basin Plan as discussed in reference to section 12.24(b) of the Basin Plan A discussion of maintaining the characteristics of a water access right as relates to section 12.26(d) of the Basin Plan as discussed in reference to section 12.24(c) of the Basin Plan A discussion of impact on third parties as relates to section 12.26(e) of the Basin Plan as discussed in reference to section 12.24(d) of the Basin Plan. <p>Figure 7-7 in Section 7.4.2.1 of Victoria's North and Murray Comprehensive Report depicts the process for determination of a transfer of a take and use licence under the Victorian Water Act in further detail. Figure 7-7 shows how the circumstances under section 12.26 of the Basin Plan align with the Victorian framework and ensure that trade cannot occur where the circumstances of section 12.26 of the Basin Plan do not exist. Reference to Figure 7-7 in Column 3 of this Index does not have the effect of importing the sections of the Victorian Water Act referenced in the diagram into the accredited material.</p> <p>Figure 7-11 identifies how the requirements of Chapter 12 of Basin Plan align with the content of Victoria's North and Murray Water Resource Plan in response to Part 8 of Chapter 10 of the Basin Plan in addition to demonstrating how the requirements under Victoria's Water Act align with those requirements.</p>

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10.39(2)	<p>If the water resource plan applies a conversion rate to meet the condition in paragraph 12.26(e), the water resource plan must either:</p> <ul style="list-style-type: none"> (a) specify the conversion rate; or (b) set out the way in which the conversion rate will be determined from time to time and made generally available. 	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> 1. In Victoria's North and Murray water resource plan area a 20 per cent conversion rate applies if specified in the relevant statutory management plan approved under section 32A of the Water Act 1989 (Vic) for a water supply protection area declared under section 27 of the Water Act 1989 (Vic). 2. References to sections of the Water Act do not have the effect of importing the sections referenced into the accredited material but are included for reference only. 	n/a	<p>In considering an application for trade, regard must be had to any adverse impact the trade would have on water available to a third party (as identified for the purposes of section 10.39 (1)) of the Basin Plan.</p> <p>Given its combined surface water and groundwater focus, the Upper Ovens River WSPA Water Management Plan (https://www.g-mwater.com.au/water-resources/ground-water-management/upperovenswspa) applies the current State-wide surface water trading rule whereby a loss factor of 20% is applied for downstream trades of all-year licences.</p> <p>The loss factor is a current requirement for all surface water plans across northern Victoria and is designed to prevent third party impacts from excessive demand on downstream entitlements.</p> <p>Under Basin Plan this loss factor meets the characteristics of a "conversion rate" for the purposes of section 10.39(2) of the Basin Plan. The way in which a conversion rate will be determined from time to time and made generally available is outlined (as required under section 10.39(2)(b) of the Basin Plan) is outlined in the accredited text of Column 3 of Victoria's North and Murray Index Table in response to section 10.39(2) of the Basin Plan.</p> <p>In the Upper Ovens River WSPA Water Management Plan, the rules for transfers of entitlement are based around the following principles:</p> <ol style="list-style-type: none"> 1. Groundwater and surface water in Zone 1 have consistent rules 2. Trade Upstream can occur as Winter-take only 3. Trade of all-year licences can occur Downstream only and subject to loss of 20%. 4. Trade/convert from Zone 1 all-year Groundwater to Surface water but not Surface water to Groundwater 5. Shifting entitlement from Zone 1 all-year to Winter-take or Zone 2 benefits summer flow and is supported <p>Given its combined surface water and groundwater focus, the Upper Ovens River WSPA Water Management Plan (https://www.g-mwater.com.au/water-resources/ground-water-management/upperovenswspa) in Management Zone 1, surface water licences and groundwater licences are interchangeable in recognition of the high level on interconnection between these resources although rules have been developed to manage the impacts of taking water on flows in the waterways.</p> <p>The Upper Ovens River WSPA Water Management Plan applies a surface water trading rule whereby a loss factor of 20% is applied for downstream trades of all-year licences. The effect of this 20% loss factor is that as part of the permanent or temporary downstream transfer of a licence to take water from unregulated water systems (including groundwater under this Management Plan), the Minister (or delegate) may impose a condition in the Upper Ovens River WSPA Water Management Plan area that the buyer is only entitled to receive less than 80% of the licence volume transferred by the seller.</p> <p>The reduction in licence volume from the seller to the downstream buyer is implemented to account for evaporation, seepage and other losses which would occur in the system between the seller's upstream extraction point and the buyer's downstream extraction point.</p> <p>Without this deduction the buyer would be taking a greater net volume of water out of the system than the seller. Meaning the effect of the rule is to maintain the relative volume of the water access right (licence) between upstream and downstream users given the difference between availability. Without this rule the buyer would have a negative impact on the overall resource availability for all entitlement holders including potential adverse impacts on the environment. This is a general rule to manage potential impacts on water availability for all licence holders and is in line with 12.18(b).</p> <p>The rule is applied uniformly because the impact of taking water from the surface water system or the groundwater system is essentially the same, even though there may be time lag effects in relation to groundwater extractions. Therefore, the rule will apply to groundwater to groundwater trades and groundwater to surface water trades. The application of this rule is to ensure that levels of take remain within the resource condition limit across the management area.</p>

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 9 Approaches to addressing risks to water resources				
10.40	In this Part: <i>risk</i> means a risk listed in a water resource plan in accordance with subsection 10.41(4). <i>level of risk</i> has the meaning given in AS/NZS ISO 31000:2009 Risk Management—Principles and Guidelines.	Victoria's North and Murray water resource plan area This matter informs the interpretation of <i>risk</i> and <i>level of risk</i> and does not contain a water resource plan requirement.	n/a	
10.41(1)	A water resource plan must be prepared having regard to current and future risks to the condition and continued availability of the water resources of the water resource plan area.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	<p>Victoria's North and Murray Water Resource Plan was prepared having regard to the current and future risks to the condition and continued availability of the water resource in the water resource plan area as explained in Part 2 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report. Current and future risk is defined at Part 2 of the Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report. Given the WRP is based on Victoria's existing framework and the existing rules and arrangements under the Victorian Water Act were considered including the impact of those arrangements on connected resources outside Victoria's North and Murray water resource area.</p> <p>Current risks represent those threats and causes being experienced now and future risks represent threats and causes proposed by scenarios of a possible future. Importantly the scenarios cover a range of possible future situations and are not 'forecasts' of a most likely future. The scenarios each represent a possible future. Victoria's North and Murray Risk Assessment Report has not combined these scenarios to form one overall future scenario. Each scenario has been assessed independently to identify the risk associated with that cause and related scenario. Scenarios have also been identified at the Water Resource Plan area scale to ensure their relevance to the causes and threats that will potentially drive risks in each area.</p> <p>As a result, current risks are dealt with under Victoria's North and Murray Risk Assessment Report through the initial identification of possible risks. Future risks are identified through the scenarios. A conservative approach has been applied to the identification of current risks whereby it is assumed that a 'stress tested' future risk identified through the application of a future scenario is also assumed to also be a current risk for the purpose of identifying strategies to address these risks now and in the future. In other words, risks identified in the risk tables are both current and future.</p> <p>In identifying risks under Victoria's North and Murray Risk Assessment, all possible risks to the condition and availability of water in Victoria were identified. All existing policy and practice were applied to those risks to determine <i>residual risk</i>. Victoria's North and Murray Risk Assessment is based on the current level of risk assuming existing policy and practice are in place. In this respect, the risk assessment identifies the level of residual risk under current arrangements in Victoria. Residual risks are those which exist after the application of Victoria's existing water resource management rules, strategies, policies and arrangements. The residual risks identified are ongoing risks that require ongoing monitoring and reassessment to determine the best way to manage them over time. For example, climate change which is an ongoing issue.</p> <p>The application of a strategy to treat or mitigate an identified risk will not have the effect of creating a new risk given Victoria's framework requires decision makers to consider the environment, water quality and third-party impacts. If there is a trade-off between the treatment of two risks, the point at which the trade-off is made and the deterioration of condition or availability in a specified circumstance is accepted the occurrence of that deterioration is no longer considered a risk to the system.</p>

FOR ACCREDITATION		NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)
10.41(2)	Without limiting subsection (1), the risks include (where applicable): (a) risks to the capacity to meet environmental watering requirements; and (b) risks arising from the matters referred to in subsection 10.20(1); and (c) risks arising from potential interception activities; and (d) risks arising from elevated levels of salinity or other types of water quality degradation.	Victoria's North and Murray water resource plan area In preparing Victoria's North and Murray Risk Assessment Report for Victoria's North and Murray Water Resource Plan, the matters identified in section 10.41(2) of the Basin Plan were considered.	n/a

Part 2 of Victoria's North and Murray Risk Assessment Report at **Appendix B** to Victoria's North and Murray Comprehensive Report includes the risks set out in this subsection. Reference below to "**Appendix B**" is reference to **Appendix B** to Victoria's North and Murray Comprehensive Report.

Given Victoria's North and Murray Water Resource Plan is based on Victoria's existing framework and the existing rules and arrangements under the Victorian Water Act were considered under the Risk Assessment including the impact of those arrangements on connected resources outside Victoria's North and Murray water resource plan area, the Risk Assessment does not consider the risks associated with the implementation of Victoria's North and Murray Water Resource Plan. For example, it is identified that existing arrangements such as SCBEWC (identified in Strategy 3 and 5) and the management of the Southern-connected Murray System (identified in Strategy 23) are discussed in Victoria's North and Murray Risk Assessment at **Appendix B** to Victoria's North and Murray Comprehensive Report.

Risks to the capacity to meet environmental watering requirements in the Northern Victoria water resource plan area are outlined in **Part 3.2.2.1** (surface water availability risks) in **Table 3.2.10** to **Table 3.2.13**, **Part 3.2.2.2** (surface water condition risks) in **Table 3.2.14** to **Table 3.2.18** and **Part 3.2.6** (priority environmental assets and ecosystem functions) in **Table 3.2.14** to **Table 3.2.18** of Victoria's North and Murray Risk Assessment Report at **Appendix B**.

Risks to the capacity to meet environmental watering requirements in the Victorian Murray water resource plan area are outlined in **Part 3.4.2.1** (surface water availability risks) in **Table 3.4.9** to **Table 3.4.11**, **Part 3.4.2.2** (surface water condition risks) in **Table 3.4.12** to **Table 3.4.16** and **Part 3.4.6** (priority environmental assets and priority ecosystem functions) in **Table 3.4.33** to **Table 3.4.36** of Victoria's North and Murray Risk Assessment Report at **Appendix B**.

For groundwater see **Part 3.3.2.1** (groundwater availability) in **Table 3.3.4** and **Part 3.3.6.1** (Part 4 Basin Plan matters) in **Table 3.3.18** and **Table 3.3.19** of Victoria's North and Murray Risk Assessment Report at **Appendix B**.

Part 3.3.6.2 of Victoria's North and Murray Risk Assessment Report at **Appendix B** identifies that the productive base of groundwater systems was assessed in terms of the ability of the aquifer to provide water for environmental and consumptive purposes in the context of damage to the structural form of the aquifer arising from take across environmental or consumptive users. No medium or higher-level risks associated with changes to the structural form were identified.

Risks arising from potential interception activities are discussed at **Part 3.2.7** for the Northern Victoria water resource plan area in **Table 3.2.11** (availability) and **Table 3.4.41** (condition), at **Part 3.4.7** for the Victoria Murray water resource plan area in **Table 3.4.38** (availability) and **Table 3.4.39** (condition) and **Part 3.3.7** for groundwater in **Table 3.3.21** (availability) and **Table 3.3.22** (condition) in Victoria's North and Murray Risk Assessment Report at **Appendix B**.

Risks arising from elevated levels of salinity or other types of water quality degradation for surface water are discussed for the Northern Victoria water resource plan area at **Part 3.2.1.2** (consumptive use in **Table 3.2.5** to **Table 3.2.9**), **Part 3.2.2.2** (environmental uses in **Table 3.2.10** to **Table 3.2.18**), **Part 3.2.3.2** (Aboriginal uses in **Table 3.2.19** to **Table 3.2.28**), **Part 3.2.4.2** (recreational/social uses in **Table 3.2.29** to **Table 3.2.33**) and **Part 3.2.5.1** (critical human water needs in **Table 3.2.34**). For the Victorian Murray water resource plan area at **Part 3.4.1.2** (consumptive use in **Table 3.4.4** to **Table 3.4.8**), **Part 3.4.2.2** (environmental uses in **Table 3.4.12** to **Table 3.4.16**), **Part 3.4.3.2** (Aboriginal uses in **Table 3.4.22** to **Table 3.4.26**), **Part 3.4.4.2** (recreational/social uses in **Table 3.4.28** to **Table 3.4.30**) and **Part 3.4.5.2** (critical human water needs in **Table 3.4.32**) of Victoria's North and Murray Risk Assessment Report at **Appendix B**.

For groundwater this is discussed at **Part 3.3.1.2** (consumptive uses in **Table 3.3.2** and **Table 3.3.3**), **Part 3.3.3.2** (Aboriginal uses in **Table 3.3.10** to **Table 3.3.14**), **Part 3.3.5.2** (critical human water needs in **Table 3.3.17**) of Victoria's North and Murray Risk Assessment Report at **Appendix B**. No groundwater risks were identified for environmental uses or recreation/social uses.

In respect of section 10.41(2)(b) of the Basin Plan see also the discussion in response to section 10.20 of the Basin Plan in Victoria's North and Murray Index Table.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.41(3)	In identifying risks for the purposes of subsection (1), regard must be had to: (a) risks identified in section 4.02; and (b) any guidelines published by the Authority in relation to risk identification and Risk Assessment Report.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	How regard has been given, in identifying risks for subsection (1), is explained in Part 2 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.
10.41(4)	The water resource plan must list the risks identified for the purposes of subsection (1).	Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 2.1.1 in Part 2.1 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan. Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 2.3.1 in Part 2.3 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan. Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 2.2.1 in Part 2.2 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.	n/a	This water resource plan requirement has been met as the text in Column 3 of this row identifies where a list of risks identified for the purposes of section 10.41(1) of the Basin Plan can be found in Victoria's North and Murray Comprehensive Report.
10.41(5)	The water resource plan must assess each risk.	Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 2.1.1 in Part 2.1 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan. Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. Table 2.3.1 in Part 2.3 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.	n/a	This water resource plan requirement has been met as the text in Column 3 of this row identifies where a list of risks identified for the purposes of section 10.41(1) of the Basin Plan are assessed in Victoria's North and Murray Comprehensive Report.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.41(6)	The water resource plan must define the level of risk of each risk, using the following categories: (a) low; (b) medium; (c) high; (d) if it is considered appropriate, any additional category.	<p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.2.1 of Part 2.2 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.</p> <p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.1.1 in Part 2.1 of Victoria's north and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.</p> <p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.3.1 in Part 2.3 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.2.1 in Part 1.1 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report lists the risks identified for the purposes of section 10.41(1) of the Basin Plan.</p>	n/a	
			n/a	This water resource plan requirement has been met as the text in Column 3 of this row identifies where the level of risk is defined for each risk identified for the purposes of section 10.41(1) of the Basin Plan in Victoria's North and Murray Comprehensive Report. Note: response to Part 5 of Chapter 10 of the Basin Plan above.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.41(7)	The water resource plan must describe the data and methods used to identify and assess the risks.	<p>Victoria's North and Murray water resource plan area</p> <p>A description of the data used to identify and assess the risks is at Schedule 1 of Victoria's North and Murray Risk Assessment Report at Appendix B. Methods used to identify and assess the risks is contained in Part 1 of Victoria's North and Murray Risk Assessment Report at Appendix B.</p> <p>The high risk identified with runoff dam interception has been subsequently downgraded following an update to the modelling. This risk level is not reflected in the response to Part 5 of the Basin Plan under section 10.23(1) of the Basin Plan. When more accurate data is available for assessment of interception by runoff dams, Victoria's North and Murray Risk Assessment will be revised.</p> <p>The modelling used to inform whether a significant impact under Part 5 exists has been updated since undertaking the risk assessment. The data and methods used to respond to Part 5 are outlined in Section 11.41.5 (runoff dams) and Section 12.4.31 (commercial plantations).</p>	n/a	<p>This water resource plan requirement has been met as the text in Column 3 of this row identifies where the data and methods used to identify and assess the risks are in Victoria's North and Murray Comprehensive Report.</p> <p>The modelling used to underpin the risk assessment relating to interception of water by runoff dams has been updated since completing the risk assessment. The revised modelling is still undergoing review to improve certainty regarding the estimated levels of water interception. For this reason, the revised modelling has been applied in assessment of interception for the purposes of Part 5 of Chapter 10 of the Basin Plan as outlined at Section 11.4.1.5 of Victoria's North and Murray Comprehensive Report. The risk assessment as outlined in this Appendix has not been updated to reflect the new modelling at the time of submission of Victoria's North and Murray Water Resource Plan.</p> <p>As identified in Victoria's North and Murray Comprehensive Report at Section 11.4.1.5, it is estimated that the capacity of runoff dams across the Northern Victoria water resource plan area could increase by 11.3GL over 10 years based on a conservatively high estimate of 0.55% rate of growth. Victoria's North and Murray Risk Assessment Report (see Appendix B of Victoria's North and Murray Comprehensive Report) identified a medium to very low risk associated with growth in runoff dams during the period to 2029. However, the risk was based on information that has been superseded by modelling work that occurred after the completion of the risk assessment. Victoria proposes to update the risk assessment for runoff dams when the uncertainty associated with estimates of take can be reduced. See Part 3.2.7, Part 3.3.7 and Part 3.4.7 of Appendix B to Victoria's North and Murray Comprehensive Report. A comparison of the figures used for Victoria's North and Murray Risk Assessment in Appendix B and the revised figures is provided in Table 11-7 (Victorian Murray water resource plan area) and Table 11-8 (Northern Victoria water resource plan area) in Victoria's North and Murray Comprehensive Report.</p>

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.41(8)	The water resource plan must describe any quantified uncertainties in the level of risk attributed to each risk, including the results of any sensitivity analysis.	<p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.1.2 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report contains any quantified uncertainties and the results of any sensitivity analysis for the risks identified for the purposes of section 10.42 of the Basin Plan.</p> <p>The results of the sensitivity analysis are contained in Column 5 of Table 3.2.1 to Table 3.2.44 for the Northern Victoria water resource plan area of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.3.2 in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report contains any quantified uncertainties and the results of any sensitivity analysis for the risks identified for the purposes of section 10.42 of the Basin Plan.</p> <p>The results of the sensitivity analysis are contained in Column 5 of Table 3.4.1 to Table 3.4.41 for the Victorian Murray water resource plan area of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Table 2.2.2 in Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report contains any quantified uncertainties and the results of any sensitivity analysis for the risks identified for the purposes of section 10.42 of the Basin Plan.</p> <p>The results of the sensitivity analysis are contained in Column 5 of Table 3.3.1 to Table 3.3.24 in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report in the following Table 3.2.1 to Table 3.2.44.</p>	n/a	This requirement is met as the text in Column 3 of this row identifies the part of Victoria's North and Murray Risk Assessment Report where the quantified uncertainties in the level of risk attributed to each risk, including the results of any sensitivity analysis.
10.42(a)	A water resource plan must describe: (a) each risk which is defined in accordance with subsection 10.41(6) as having a medium or higher level of risk	<p>Northern Victoria water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report in the following Table 3.2.1 to Table 3.2.44.</p>	n/a	<p>This water resource plan requirement has been met as the text in Column 3 of this row identifies where each risk defined as having a medium or higher level of risk is in Victoria's North and Murray Comprehensive Report. The risk rating is identified in Column 1 of Table 3.2.1 to Table 3.2.44 (Northern Victoria water resource plan area) and Table 3.4.1 to Table 3.4.41 (Victorian Murray water resource plan area) of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.</p> <p>Note: high risks identified with runoff dam interception has been subsequently downgraded following an update to the modelling. This risk level is not reflected in the response to Part 5 of the Basin Plan under section 10.23(1) of the Basin Plan. When more accurate data is available for assessment of interception by runoff dams, Victoria's North and Murray Risk Assessment will be revised. See response to Part 5 of Chapter 10 of the Basin Plan above.</p>

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described in Table 3.3.1 of Victoria's North and Murray Comprehensive Report at Appendix B of Victoria's North and Murray Comprehensive Report in Table 3.4.1 to Table 3.4.41.</p>	n/a	
		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described in Table 3.3.1 to Table 3.3.24 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.</p>	n/a	This requirement is met as the text in Column 3 of this row identifies where each risk defined as having a medium or higher level of risk is in Victoria's North and Murray Comprehensive Report. The risk rating is identified in Column 1 of Table 3.3.1 to Table 3.3.24 of Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.
10.42(b)	A water resource plan must describe: (b) factors that contribute to those risks.	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>For each risk that is defined as having a medium or higher level of risk the factors that contribute to those risks are outlined in the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report in Columns 2, 3 and 4 of Table 3.2.1 to Table 3.2.44 for the Northern Victoria water resource plan area.</p> <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>For each risk that is defined as having a medium or higher level of risk the factors that contribute to those risks are outlined in the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report in Columns 2, 3 and 4 of Table 3.4.1 to Table 3.4.41 for the Victorian Murray water resource plan area.</p> <p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described in Columns 2, 3 and 4 of Table 3.3.1 to Table 3.3.24 of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.</p>	n/a	This requirement is met as the part of Victoria's North and Murray Risk Assessment Report identified in Column 3 of this row identifies factors contributing to each risk defined as having a medium or higher level of risk are in Victoria's North and Murray Comprehensive Report. The factors contributing to the risk are identified in Columns 2, 3 and 4 of Table 3.2.1 to Table 3.2.44 (Northern Victoria water resource plan area) and Table 3.4.1 to Table 3.4.41 (Victorian Murray water resource plan area) of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.
		<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Each risk that is defined as having a medium or higher level of risk is described in Columns 2, 3 and 4 of Table 3.3.1 to Table 3.3.24 of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.</p>	n/a	This requirement is met as the part of Victoria's North and Murray Risk Assessment Report identified in Column 3 of this row identifies factors contributing to each risk defined as having a medium or higher level of risk are in Victoria's North and Murray Comprehensive Report. The factors contributing to the risk are identified in Columns 2, 3 and 4 of Table 3.3.1 to Table 3.3.24 of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.43(1)	<p>If a water resource plan defines a risk in accordance with subsection 10.41(6) as having a medium or higher level of risk, the water resource plan must either:</p> <ul style="list-style-type: none"> (a) describe a strategy for the management of the water resources of the water resource plan area to address the risk in a manner commensurate with the level of risk; or (b) explain why the risk cannot be addressed by the water resource plan in a manner commensurate with the level of risk. 	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>A strategy is described for each risk that is defined as having a medium or higher level of risk in the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Table 4.2.1 provides a description of each strategy and Column 6 of the Table 3.2.1 to Table 3.2.44 identify the strategies relevant to the risks.</p> <p>In addition to the strategies identified in Appendix B to Victoria's North and Murray Comprehensive Report, the rules identified in response to sections 10.18 and 10.19 of the Basin Plan contained in Column 3 of Victoria's North and Murray Index Table considered sufficient to respond to consequences of risks arising from changes to the timing and location of demand. Additional rules are not considered necessary in addition to the strategies identified in relation to these risks in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>A strategy is described for each risk that is defined as having a medium or higher level of risk in the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Table 4.2.1 provides a description of each strategy and Column 6 of the Table 3.4.1 to Table 3.4.41 identify the strategies relevant to the risks.</p> <p>In addition to the strategies identified in Appendix B to Victoria's North and Murray Comprehensive Report, the rules identified in response to sections 10.18 and 10.19 of the Basin Plan contained in Column 3 of Victoria's North and Murray Index Table considered sufficient to respond to consequences of risks arising from changes to the timing and location of demand. Additional rules are not considered necessary in addition to the strategies identified in relation to these risks in Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report.</p> <p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>A strategy is described for each risk that is defined as having a medium or higher level of risk in the Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Table 4.2.1 provides a description of each strategy and Column 6 of Table 3.3.1 to Table 3.3.24.</p>	<p>Department</p>	<p>This requirement is satisfied as the text in Column 3 of this row identifies a strategy to address each risk that is defined as having a medium or higher risk and where these strategies are set out in Victoria's North and Murray Comprehensive Report. Factors contributing to each risk defined as having a medium or higher level of risk in Victoria's North and Murray Comprehensive Report. The strategies identified in Column 6 to respond to the identified risks are outlined in detail in Table 4.2.1 of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Table 4.2.1 must be read in conjunction with Columns 2, 3 and 4 of Table 3.2.1 to Table 3.2.44 (Northern Victoria water resource plan area) and Table 3.4.1 to Table 3.4.41 (Victorian Murray water resource plan area) to understand the strategies to address the risks identified in Victoria's North and Murray Risk Assessment Report.</p>
			<p>Department</p>	<p>This requirement is met as the text in Column 3 of this row identifies a strategy to address each risk that is defined as having a medium or higher risk and where these strategies are set out in Victoria's North and Murray Comprehensive Report. Factors contributing to each risk defined as having a medium or higher level of risk are in Victoria's North and Murray Comprehensive Report. The strategies identified in Column 6 to respond to the identified risks are outlined in detail in Table 4.2.1 of the Northern Victoria Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report. Table 4.2.1 must be read in conjunction with Table 3.3.1 to Table 3.3.24 to understand the strategies to address the risks identified in Victoria's North and Murray Risk Assessment Report.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.43(2)	If the water resource plan identifies a risk which relates to a matter dealt with by a requirement in another Part of this Chapter, the strategy must take account of that requirement.	<p>Victoria's North and Murray water resource plan area</p> <p>Table 4.2.1 of Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report details each risk strategy identified in response to the risks. Table 3.2.1 to Table 3.4.41 identify whether the strategy applies to a surface water or groundwater risks.</p> <p>No strategies are required to address matters that have a low risk and therefore it is not relevant to this requirement to consider requirements in Chapter 10 of the Basin Plan relating to matters identified as a low risk in Victoria's North and Murray Risk Assessment Report.</p> <p>Part 4, 5 and 7 also contain provisions to deal with risks. How those specific risks have been addressed is outlined in Column 3 and Column 5 of those Parts of Victoria's North and Murray Index Table.</p>	n/a	<p>See Table 4.2.1 in Victoria's North and Murray Risk Assessment Report at Appendix B of Victoria's North and Murray Comprehensive Report for details each risk strategy.</p> <p>Victoria's North and Murray Risk Assessment Report was undertaken based on the regulatory framework, policies and strategies in place in Victoria in 2016. The assessment has also been based on the assumption that the Basin Plan is in place and that the Basin Plan does not in itself represent or impose a threat to the continued availability and condition of the water resources. In other words, Victoria's North and Murray Risk Assessment Report assumed that the Basin Plan and the component strategies identified within it for managing risk are in place including the requirements of Chapter 10.</p> <p>Management strategies have been developed for Victoria's North and Murray Water Resource Plan to address the risks assessed as medium and high and to meet the Chapter 10, Basin Plan requirements. Addressing these residual risks will be achieved through a combination of state-based policy and program development, collaboration with regional water managers and engagement with regional stakeholders and interstate water planning agencies. Medium and high-level risks identified through Victoria's North and Murray Risk Assessment Report require ongoing adaptive management, further gathering of information to better understand the risk or both the strategies cited in Table 4.2.1.</p> <p>See response in Index Table above to sections 10.22(b), 10.23, 10.31 of the Basin Plan above for discussion of relevant risks. How other requirements of Chapter 10 of the Basin Plan were considered when developing strategies is identified in the explanation of the strategy where Chapter 10 considerations are relevant.</p> <p>The Commonwealth Water Act requires Victoria to act consistently with Basin Plan (see section 35) and water resource plans (see section 59). Therefore, when implementing the strategies identified in Victoria's North and Murray Risk Assessment Report, the requirements of Basin Plan and the relevant water resource plan must be taken into account. Nothing identified in Victoria's North and Murray Risk Assessment Report is inconsistent with the requirements of Basin Plan or the content of Victoria's North and Murray Water Resource Plan.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.43(3)	A water resource plan must be prepared having regard to: (a) the strategies listed in subsection 4.03(3); and (b) any guidelines published by the Authority in accordance with section 4.04.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	<p>This requirement is met as Victoria's North and Murray Water Resource Plan was developed having regard to the strategies listed in section 4.03(3) of the Basin Plan in the following way:</p> <ul style="list-style-type: none"> when developing Columns 2, 3 and 4 of Table 3.2.1 to Table 3.2.44 (Northern Victoria water resource plan area) and Table 3.4.1 to Table 3.4.41 (Victorian Murray water resource plan area) and Table 3.3.1 to Table 3.3.24 (Goulburn-Murray water resource plan area) of Appendix B to Victoria's North and Murray Comprehensive Report regard was given to the strategies listed in section 4.03(3) of the Basin Plan, which were analysed and matched up with the corresponding relevant Victorian strategies. Regard was also given to the Part 9 guidelines developed by the MDBA. section 4.03(3)(a)(i) was considered when developing the Northern Victoria and Victorian Murray Long-Term Watering Plans which is incorporated as a strategy to address environmental watering risks and also informs the obligation under section 10.26 of the Basin Plan. section 4.03(3)(a)(ii) the water quality management plan developed in accordance with Part 7 of Chapter 10 was developed having regard to the water quality and salinity management plan. The Water Quality Management Plan addresses the risks identified relating to water quality matters. section 4.03(3)(iii) water trading rules were considered when responding to Part 8 of Chapter 10 in addition to considering appropriate strategies for managing risks relating to water availability in Victoria's North and Murray Risk Assessment Report section 4.03(3)(a)(iv) water resource planning informs the strategies relating to water availability section 4.03(3)(b) was developed using the best available knowledge and information in consultation with relevant stakeholders. Additionally, various strategies to address risk such as the sustainable water strategies require consultation under the Victorian Water Act or Water for Victoria which was developed in consultation with relevant stakeholders. section 4.03(3)(c) promotes risk-based approach to water resource planning and management by including Victoria's North and Murray Risk Assessment Report and linking outcomes of Victoria's North and Murray Risk Assessment Report to various Victorian policies and strategies section 4.03(3)(d) as outlined in Victoria's North and Murray Comprehensive Report Water for Victoria outlines the policy for managing Victoria's water to optimise shared benefits. This has informed Victoria's approach to managing consumptive and environmental water and supports the meeting of Aboriginal and Recreational uses in Victoria's North and Murray Risk Assessment Report. section 4.03(3)(e) regard was had to monitoring and evaluation of the implementation of the Basin Plan through the response to Part 10 of Chapter 10 Basin Plan and through strategies identified in Table 4.2.1 of Victoria's North and Murray Risk Assessment Report. section 4.03(3)(f) regard was had to risks arising with non-compliance with water law. A low risk was identified. Obligations on water users in the Northern Victoria Water Resource Plan reflect obligation in State law for which there is an effective enforcement regime. section 4.03(3)(g) as is outlined in Victoria's North and Murray Comprehensive Report, Water for Victoria outlines key Victorian government policy for water management. Included is increased communication with communities in making water resource management decisions. This has informed development of the strategies to address Victoria's North and Murray Risk Assessment Report. section 4.03(3)(h) promotes increased knowledge of the impact of interception activities through identification of further work to assess the impact and proposed consideration of impacts of these activities through sustainable water strategies identified in Victoria's North and Murray Risk Assessment Report. section 4.03(3)(i) - Victoria's North and Murray Water Resource Plan identifies in response to Part 10 opportunities to improve measurement of groundwater and surface water and the policies of Water for Victoria for improved monitoring and measurement are identified. The WGMP improves knowledge of the causes of water quality degradation and the effects of water quality on environmental assets and ecosystem functions

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 10				
10.44(a)	<p>A water resource plan must include the following information in relation to each class of water access right relating to the water resources of the water resource plan area:</p> <p>(a) the best estimate of the total long-term annual average quantity of water taken that is measured;</p>	<p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. In respect of the relevant class of water access right available in the Northern Victoria water resource plan area, the best estimate long-term annual average quantity of water taken that is measured is as follows:</p> <p>(a) bulk entitlements: 1,784,030ML (b) take and use licences: 34,930ML (c) runoff dams (licensed): 74,164ML</p> <p>Victorian Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report</p> <p>1. In respect of the relevant class of water access right available in the Victorian Murray water resource plan area, the best estimate long-term annual average quantity of water taken that is measured is as follows:</p> <p>(a) bulk entitlements: 1,669,595ML (b) take and use licences: 13,356ML (c) runoff dams (licensed): 9,362ML</p>	n/a	<p>This requirement is met as the accredited text in Column 3 that provides the volumes of water that is measured. Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report also outlines total volume of water that is measured and identifies the individual water access rights relevant to this matter.</p> <p>The volumes identified in Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report are the best estimate of the long-term annual average of water taken from surface water that is measured. This is the BDL for take from a regulated river or a watercourse (excluding basic rights) and the BDL for take from runoff dams (excluding basic rights).</p> <p>For take from a regulated river or a watercourse (excluding basic rights) the best estimate is given as to the proportion of the BDL attributed to bulk entitlements and the proportion of the BDL attributed to take and use licences.</p> <p>The volumes in Table 15-1 may vary slightly from those in Table 3 of Appendix C to Victoria's North and Murray Comprehensive Report due to rounding.</p>
10.44(b)	<p>A water resource plan must include the following information in relation to each class of water access right relating to the water resources of the water resource plan area:</p> <p>(d) the best estimate of the total long-term annual average quantity of water taken that is not measured;</p>	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>In respect of the relevant class of water access right available in the Goulburn-Murray water resource plan area, the best estimate long-term annual average quantity of water taken that is measured for take and use licences is 435,841 ML.</p> <p>Northern Victoria water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Northern Victoria water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>1. In respect of the relevant class of water access right available in the Northern Victoria water resource plan area, the best estimate long-term annual average quantity of water taken that is not measured is as follows:</p> <p>(a) basic rights: 171,341ML (b) runoff dams (basic rights): 74,043ML (c) take and use licences: 4,940ML</p>	n/a	<p>This requirement is met as the only water access rights issued in the Goulburn-Murray water resource plan area are take and use licences and take under a basic right (domestic and stock). Therefore, the volume measured relates solely to licensed use under take and use licences as outlined in Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report. The best estimate of the long-term annual average of water taken that is measured in the BDL for take from groundwater excluding basic rights.</p> <p>This requirement is met as the accredited text in Column 3 identifies that Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report outlines the total volume of water that is not measured and identifies the individual water access rights relevant to this area.</p> <p>The water access rights relevant to this matter are basic rights and take and use licences less than 10 ML.</p> <p>Basic rights are identified as domestic and stock rights and Traditional owner rights under Victorian legislation. The best estimate of the long-term annual average quantity of water taken that is not measured is the BDL for basic rights, and runoff dam (basic rights), as explained in Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report. Surface water take and use licences less than 10 megalitres are not required to be metered. The best estimate of the volume of these licences is provided as at April 2019.</p> <p>The volumes in Table 15-1 may vary slightly from those in Table 3 of Appendix C to Victoria's North and Murray Comprehensive Report due to rounding.</p>

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
		<p>Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report</p> <p>1. In respect of the relevant class of water access right available in the Victorian Murray water resource plan area, the best estimate long-term annual average quantity of water taken that is not measured is as follows:</p> <p>(a) basic rights: 9,166ML (b) runoff dams (basic rights): 11,285ML (c) take and uses licences: 1,750ML</p>	n/a	
		<p>Goulburn-Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>In respect of the relevant class of water access right available in the Goulburn-Murray water resource plan area, the best estimate long-term annual average quantity of water taken that is not measured is 16,400ML (basic rights).</p>	n/a	This requirement is met as the only water access right available for take from groundwater in the Goulburn-Murray water resource plan area is a take and use licence and take under a basic right (domestic and stock). Therefore, the volume not measured relates solely to take under basic rights. The best estimate of the long-term annual average of water taken that is measured in the BDL for take from an aquifer excluding basic rights. The method used to determine the volumes in Table 15-1 of Chapter 15 of Victoria's North and Murray Comprehensive Report is the method for determining BDL.
10.44(c)	A water resource plan must include the following information in relation to each class of water access right relating to the water resources of the water resource plan area: (d) how the quantities under paragraphs (a) and (b) were calculated;	<p>Victoria's North and Murray water resource plan area The quantities identified under sections 10.44(a) and 10.44(b) of the Basin Plan were calculated in accordance with the methods for determining the baseline diversion limit as prescribed by the Basin Plan.</p>	n/a	This requirement is met as the accredited text refers to the method for determining BDL.
10.44(d)	A water resource plan must include the following information in relation to each class of water access right relating to the water resources of the water resource plan area: (e) the proportion of the quantity referred to in paragraph (a) that is measured in accordance with standards for measuring agreed by the Basin States and the Commonwealth.	<p>Victoria's North and Murray water resource plan area The Australian Standard for meters for non-urban water supply (AS 4747) is the standard referred to in the Murray-Darling Basin Compliance Compact. Victoria is a signatory to the Compliance Compact and will require that all new and replacement meters are compliant with AS4747, subject to any exemptions to be determined by Victoria (as permitted under Compliance Compact Action 32(v)). For the purposes of the Murray-Darling Basin Plan s 10.44(d), AS4747 is the agreed standard endorsed between the Basin States and the Commonwealth. It is not currently possible to estimate the proportion of water taken that is measured by different classes of meters. Improvements will be made to data management systems and the proportion of take will be available and reported from 2020/21. Victoria has made commitments in Victoria's North and Murray Water Resource Plan to measures to maintain and where practicable improve the proportion of take that is measured, and the standard to which take is measured, in response to section 10.45(1) of the Basin Plan.</p>	n/a	In 2009 the Council of Australian Governments agreed to a national framework for non-urban water metering which consists of a metrological assurance framework and implementation of national standards. Consistent with the national framework, the Basin Compliance Compact is aimed at achieving comprehensive coverage of meters compliant with the Australian standard. The Compliance Compact requires each Basin State to publish a metering policy and implementation plan addressing meter accuracy, meter coverage, transmission of data, highest risk take, and a timetable for the installation of meters and telemetry. Percentage of volumes metered was identified in the Murray-Darling Basin Authority review of 2017. This volume of metered take is in accordance with Victoria's current metering policy. Until the regulatory impact assessment is completed and exemptions are published in accordance with the Actions in Part 3 of the Basin Compliance Compact the proportion of take measured in accordance with the standard agreed under the Basin Compliance Compact cannot be determined.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.45(1)	A water resource plan must specify measures for maintaining and, if practicable, improving: (a) the proportion of take that is measured in the water resource plan area (b) the standard to which take is measured.	<p>Victoria's North and Murray water resource plan area</p> <p>1. Victoria has committed to the following measures under Water for Victoria for maintaining and, where practicable, improving the proportion of take that is measured in the water resource plan area, and the standard to which take is measured by:</p> <p>(a) the Implementation Plan under the Basin Compliance Compact to improve metering against the National Standard for metering in accordance with the approved exemptions published in under Action 31 (including Actions 31 - 3.5) and supported by Actions VIC 31-3.7 by December 2019 (subject to revised timeframes negotiated with the MDBA)</p> <p>(b) maintenance of stream gauges by water corporations and DELWP according to national standards over the next 7 years</p> <p>(c) installation and maintenance of meters by water corporations according to national standards over the next 7 years</p> <p>(d) upgrades to non-urban metering according to the National Metering Standards for Non-Urban Water Meters consistent with the Victorian Policy for non-urban water metering and the state-wide implementation plan over the next 7 years</p> <p>(e) continued investment in ongoing statewide surface water and groundwater monitoring networks over the next 7 years</p> <p>(f) investment in infrastructure upgrades and new technologies to improve the quality, accuracy and timeliness of monitoring data over the next 7 years; and</p> <p>(g) investigation into the introduction of a reasonable use limit for domestic and stock rights to improve monitoring and reporting of the quantity of water used under these rights over the next 7 years.</p>	Department Goulburn- Murray Water	<p>This requirement is met as the accredited text in Column 3 outlines Victoria's proposed measures for maintaining and, where practicable, improving the standard to which take is measured. The Victorian Government has made these commitments in Water for Victoria: Water Plan (Actions 8.4 and 8.11) to improve water use information (DELWP 2016).</p> <p>These measures will improve the standard to which take is measured by increasing metering and monitoring efforts, so that more accurate and transparent information regarding take is available. Investment in infrastructure will improve the quality of the data available.</p> <p>Further information on maintaining and improving the proportion of take that is measured and the standard to which take is measured can be found in Section 15.5 and Section 15.6 of Victoria's North and Murray Comprehensive Report.</p>
10.45(2)	The water resource plan must specify the timeframe for implementing the measures.	<p>Victoria's North and Murray water resource plan area</p> <p>These measures will be implemented in the timeframes specified in Column 3 in response to section 10.45(1) of Victoria's North and Murray Index Table.</p>	n/a	<p>This requirement is met as the accredited text in Column 3 identifies a timeframe for continued improvement. The timeframe for implementing these measures is set out in Water for Victoria (DELWP 2016) and recognises that for the measures to realise continuous improvement, they must be implemented on an ongoing basis. The timeframe for implementation of this policy is 10 years.</p>

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10.46(1)	A water resource plan must specify the monitoring of the water resources of the water resource plan area that will be done to enable the Basin State to fulfil its reporting obligations under section 1314. Reporting on the following matters of Schedule 12 will be informed by: <ul style="list-style-type: none"> (a) matter 4 - the effectiveness of management of risks will be informed by monitoring undertaken via the state observation bore network [add detail] (b) matter 11 and 14 - through salinity monitoring programs established under statutory management plans approved under section 32A of the Victorian Water Act 	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <ol style="list-style-type: none"> 1. Table 15-2 of Victoria's North and Murray Comprehensive Report and Part 6 of Victoria's North and Murray Water Quality Management Plan sets out the monitoring of the water resources of Victoria's North and Murray water resource plan area that will be done to fulfil the reporting obligations under section 1314 of the Basin Plan. 2. The remaining four matters will be informed by the monitoring conducted for the purposes of the matters listed in Table 15-2 of Victoria's North and Murray Comprehensive Report. These four matters relate to: <ul style="list-style-type: none"> (a) Matter 4 – the effectiveness of the management of risks to Basin water resources (informed by monitoring of Matters 8, 9 and 12) (b) Matter 10 – implementation of the environmental management framework (informed by Matter 8) (c) Matter 14 – the implementation of the water quality and salinity management plan including to the extent to which regard is had to the targets in Chapter 9 when making flow management decisions (informed by Matter 12) (d) Matter 18 – the efficiency and the effectiveness of the operation of water resource plans, including in providing a robust framework under a changing climate (informed by Matters 8, 9, 12 and 19). 	Department
10.46(2)	Nothing in this section limits the capacity of the Basin State to conduct other monitoring of the water resources of a water resource plan area.	<p>Goulburn-Murray water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn-Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Monitoring undertaken in accordance with approved Management Plans for declared water supply protection areas supports reporting requirements under section 1314 of the Basin Plan to report on matters listed in Schedule 12 to the Basin Plan. More specifically:</p> <ul style="list-style-type: none"> • Matters 4, 8, 12, 14, and 18 - routine monitoring and data collection by the Groundwater Monitoring Partnership from the State Observation Bore Network including annual spring sampling program to analyse groundwater quality parameters • Matters 16 and 18 - Monitoring of take and use of groundwater via the Victorian Water Register and reported via the Victorian Water Accounts • Matter 14 - Existing monitoring relating to the Basin Salinity Management 2030 (BSM2030) to support reporting to the Ministerial Council and the Basin Officials Committee Matter 18 - reporting will be informed by the reporting on the matters identified above. • Matter 18 - reporting will be informed by the reporting on the matters identified above. <p>Note: Obligations to undertake monitoring may be prescribed in statutory management plans in accordance with the obligation set out in response to section 10.35C of the Basin Plan in Victoria's North and Murray Index Table.</p> <p>This informs the response to section 10.46(1) of the Basin Plan and does not contain a water resource plan requirement.</p>	n/a

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Part 11 Reviews of water resource plans				
10.47	A water resource plan must require that if a review of the plan (or a part of the plan) is undertaken, the report of the review must be given to the Authority within 30 days after the report is completed.	Victoria's North and Murray water resource plan area If a review of this Plan is undertaken, the report of that review must be given to the Murray–Darling Basin Authority within 30 days after the report is completed.	Department	The requirement is met as the text in Column 3 of this row requires that a copy of the review report be provided to the MDBA within 30 days of the relevant report being completed. The circumstances in which a review may occur are outlined in Section 1.6 of Victoria's North and Murray Comprehensive Report.
10.47A	If a review of the relevant water resource plan in relation to any of the Western Porous Rock, Gunnedah–Oxley Basin MDB, Sydney Basin MDB or Goulburn–Murray, Sedimentary Plain SDL resource units is undertaken, the review must assess: (a) the effectiveness of the implementation of the rules of the water resource plan; and (b) the extent to which the rules achieve the objectives mentioned in sections 10.21 and 10.35C.	Victoria's North (surface water) water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. This matter is not relevant to the SDL resource units in the Northern Victoria or Victorian Murray water resource plan area. Goulburn–Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Goulburn–Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report. 1. If a review of this Plan is undertaken in relation to the Goulburn–Murray, Sedimentary Plain SDL resource unit, the review must assess: (a) the effectiveness of the implementation of the rules of the water resource plan; and (b) the extent to which the rules achieve the objectives mentioned in sections 10.21 and 10.35C of the Basin Plan.	n/a	The requirement is met as the text in Column 3 of this row requires that if a review of this Plan is undertaken in relation to the Goulburn–Murray, Sedimentary Plain SDL resource unit, the review must assess: <ul style="list-style-type: none">the effectiveness of the implementation of the rules of the water resource plan; andthe extent to which the rules achieve the objectives mentioned in sections 10.21 and 10.35C of the Basin Plan. The circumstances in which a review may occur are outlined in Victoria's North and Murray Comprehensive Report at Section 1.6.
10.48	A water resource plan must require a Basin State that proposes an amendment to the plan arising from a review to give the reasons for the amendment to the Authority.	Victoria's North and Murray water resource plan area If review of this Plan results in a proposed amendment to this Plan, the reasons for the amendment must be provided to the Murray–Darling Basin Authority. Note: Nothing in this clause is intended to detract from or frustrate the process for the accreditation of a proposed amendment under section 65 or section 66 of the <i>Water Act 2007</i> (Cth).	Department	This requirement is met as the text in Column 3 of this row requires that where an amendment is proposed following a review, the reasons for that amendment must be provided to the MDBA. Further information on the review process is contained in Section 1.6 of Victoria's North and Murray Comprehensive Report.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 12 Information used to prepare water resource plan				
10.49(1)	A water resource plan must be based on the best available information.	Victoria's North and Murray water resource plan area Victoria's North and Murray Water Resource Plan was prepared using the best available information for each component of the Plan that was available at the time of submission for accreditation.	n/a	This requirement is met as the text in Column 3 of this row identifies that Victoria's North and Murray Water Resource Plan was based on the best available information. A Risk Assessment (Appendix B to Victoria's North and Murray Comprehensive Report) was undertaken using the best available information. A full bibliography compiled for the Risk Assessment can be found at Schedule 1 to the Risk Assessment in Appendix B to Victoria's North and Murray Comprehensive Report. Victoria's North and Murray Comprehensive Report was prepared following the Risk Assessment and again used the best available information. A References list of the documents referenced in Victoria's North and Murray Comprehensive Report can be found before the Glossary in Victoria's North and Murray Comprehensive Report. Where relevant a discussion of the best available information is provided in Victoria's North and Murray Comprehensive Report. Examples of where best available information was used include annual determinations of permitted take and annual determinations of actual take in the Comprehensive Report and in the Methods Report at Appendix C to Victoria's North and Murray Comprehensive Report.
10.49(2)	The water resource plan must identify and describe the significant sources of information on which the water resource plan is based.	Victoria's North and Murray water resource plan area 1. Significant sources of information for Victoria's North and Murray Water Resource Plan are: (a) recent resource assessments conducted in Victoria (b) current legislative and non-legislative information (c) a specifically designed Risk Assessment Report (d) REALM and eWater Source modelling results of Baseline Diversion Limit (e) Sustainable Diversion Limit assessments (f) information gathered from consultation with the community and industry. 2. The References section contained in Victoria's North and Murray Comprehensive Report and in each Appendix to Victoria's North and Murray Comprehensive Report contains a list of the key sources of information used to develop Victoria's North and Murray Water Resource Plan.	n/a	This requirement is met by the text in Column 3 of this row and the reference section contained in Victoria's North and Murray Comprehensive Report. These identify and describe the significant sources of information on which the water resource plan is based. The Goulburn BDL/WRP model representation is the best available knowledge as at 30 April 2019. It is recognised though that there are some policy discrepancies that will need to be addressed and fixed through a model review process to be completed within two years – 30 April 2021. The References lists are contained in Victoria's North and Murray Comprehensive Report before the Glossary and in the Appendices where relevant.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.50	A water resource plan must identify any significant method, model or tool that has been used to develop the water resource plan.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> 1. The significant methods, models and tools that have been used to develop Victoria's North and Murray Water Resource Plan are: <ol style="list-style-type: none"> (a) Environmental Water - FLOWS2 (b) REALM and eWater Source modelling results of Baseline Diversion Limit (c) Permitted Take - Draft MDB Groundwater Permitted Take Methodology Report (d) SDL Determination - SDL derived from RRAM and the proposed Basin Plan groundwater SDL (e) Commercial Plantations - SoilFlux (Jacobs, 2016), (HARC, 2016)) (f) Runoff Dams - STEDI (Spatial Tool for Estimating the Impact of Dams) version 1.2 (Sinclair Knight Merz, 2011), STEDI: Estimating the impact of farm dams on streamflow (User Manual) (Sinclair Knight Merz, 2011) (g) Risk assessment method outlined in Part 2 of the Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report (h) Take under basic rights – model results for domestic and stock use (RMCG, 2011) (i) Victoria's North and Murray Surface Water BDL Re-estimates document, prepared April 2019. 	n/a	This requirement is met by the text in Column 3 of this row and the reference section contained in Victoria's North and Murray Comprehensive Report. These identify and describe the significant sources of information on which the water resource plan is based. The References lists are contained in Victoria's North and Murray Comprehensive Report before the Glossary and in the Appendices where relevant.

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 13	Extreme events A water resource plan must describe how the water resources of the water resource plan area will be managed during the following types of events: (a) an extreme dry period;	Victoria's North and Murray water resource plan area 1. Water corporations may reduce or restrict the delivery of water to rural customers where there is insufficient capacity in the system. Water corporations may reduce, restrict or discontinue the supply of water to towns where there is insufficient capacity to meet critical human needs. 2. Permanent water saving rules have been in place since the Millennium Drought which provide permanent restrictions on how drinking water can be used outside the home. Water corporations may also apply staged water restrictions as water availability reduces to further restrict the use of drinking water to protect the availability of water for critical human need long term. 3. The Minister requires water corporations, under a Statement of Obligations, to undertake short term and long-term planning of future water needs to ensure available water is managed to meet critical human needs within those events that can be predicted. This planning includes a drought response plan for urban systems, and emergency management plans. 4. Where the measures employed by water corporations are not sufficient to address the impacts of an extreme dry period, the Minister may declare a water shortage in an area or for a resource and temporarily qualify rights to temporarily change the water sharing arrangements in a system by reducing the water available to holders of a water access right in the area or resource. 5. Table 10-4 of Section 10.3.1.4 of Victoria's North and Murray Comprehensive Report also contains a range of short-term planning strategies to manage urban water during extreme dry periods.	n/a	This requirement is met as the accredited text describes how water resources will be managed in Victoria during an extreme dry period. Further detail regarding how restrictions are applied, and the planning undertaken to secure water availability for critical human need is outlined in Victoria's North and Murray Comprehensive Report at Section 10.3.2 . Drought response and contingency planning for water shortage is undertaken for both rural and urban water needs. More significant planning and oversight is required for ensuring the security of urban town supplies of drinking water. This is on the basis that entitlement holders (rural water users) are required to manage their own water availability risks and are given a range of tools to do this. Private domestic and stock water supply systems are not feasible in much of Victoria's North and Murray water resource plan area because of low and unreliable rainfall and lack of suitable groundwater.
		Victorian Murray water resource plan area For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victorian Murray water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report Section 10.3.3 of Victoria's North and Murray Comprehensive Report outlines the arrangements for managing extreme dry events in the River Murray under the Murray-Darling Basin Agreement.	n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.51(1)(b)	A water resource plan must describe how the water resources of the water resource plan area will be managed during the following types of events: (b) a water quality event of an intensity, magnitude and duration that is sufficient to render water acutely toxic or unusable for established local uses and values;	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> Where water is no longer fit for purpose due to a water quality event, some of the powers outlined for extreme dry events may also be used to respond to water quality events in order to protect the availability of water for critical human need. Water corporations may reduce or restrict the delivery of water to rural customers where there is insufficient capacity in the system (water shortage). Water corporations may reduce, restrict or discontinue the supply of water to towns where the quality of the water does not meet the standards for authorised use. In addition, the Environment Protection Authority Victoria has powers to issue remedial notices, pollution abatement notices, clean-up notices and directions for pollution-related events. There is insufficient data relating to the impact of water quality events on a variety of users. Blue-green algae is the predominant water quality event and it is unclear what impact that has on domestic and stock use and irrigation. As identified in Victoria's North and Murray Risk Assessment there is insufficient information regarding Aboriginal values and uses of water to have an adequate strategy for management of the impacts of water quality events on their values and uses. As information about the impacts on these values improves, management strategies to respond to water quality events will be developed. Water corporations develop management plans to manage risks to water resources. Throughout the region there are several reservoirs which offer access for recreational use. These are monitored for water quality by the respective managers who undertake monthly sampling for algal analysis over the summer period when these lakes are in high use. Where risks to the water quality are identified the public is immediately notified of the risks and restrictions on access may occur to prevent harm to individuals as a result of contact with contaminated water. 	n/a	This requirement is met as it describes how water is managed during a water quality event. Water corporations are responsible for managing water quality issues as they relate to protecting the integrity of water resources. Details about management of water resources during a water quality event are set out in Section 10.3 of Victoria's North and Murray Comprehensive Report. Where there is a water quality event that relates to pollution, the Environment Protection Authority Victoria (EPA) is responsible for managing the pollution. The powers the EPA has to address pollution events are described further in Section 10.3.4.1 of Victoria's North and Murray Comprehensive Report.
10.51(1)(c)	A water resource plan must describe how the water resources of the water resource plan area will be managed during the following types of events: (c) any type of event that has resulted in the suspension of a statutory regional water plan in the past 50 years (including a transitional water resource plan or interim water resource plan).	<p>Victoria's North (surface water) water resource plan area</p> <p>For the purposes of section 10.04(3) of the Basin Plan this response applies to all the water resources in the Victoria's North (surface water) water resource plan area. A map of these water resources is contained at Figure 1-1 of Victoria's North and Murray Comprehensive Report.</p> <p>Cyanobacteria (also known as blue-green algae) is the predominant water quality event that can occur in Victoria. Responses to cyanobacteria events relate to recreational use and public health and safety. Emergency response roles and responsibilities are set out in the <i>Blue-Green Algae Circular: Management Plan 2016-17</i> (2015) and relate to establishing a process to ensure appropriate communications and planning for cyanobacteria events. Water corporations coordinate the management of major outbreaks while local water managers (water corporations, catchment management authorities, local councils, Parks Victoria, Alpine Resort Management Boards and private companies) monitor and manage local blooms under their own emergency plans.</p> <p>Victoria's North and Murray water resource plan area</p> <p>This matter is not relevant to Victoria's North and Murray Water Resource Plan because:</p> <ol style="list-style-type: none"> Victoria does not have statutory regional water plans; and there are no powers to suspend transitional water resource plans or interim water resource plans under the Victorian regulatory framework. 	n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.51(2)	If an event of a type listed in subsection (1) would compromise a Basin State's ability to meet critical human water needs in the water resource plan area, the water resource plan must set out measures to meet critical human water needs during such an event.	Victoria's North and Murray water resource plan area The response to section 10.51(1)(a) and 10.51(1)(b) of the Basin Plan in Column 3 of Victoria's North and Murray Index Table sets out the existing measures within the Victorian water management framework which serve to protect critical human water needs in Victoria's North and Murray water resource plan area. As these existing measures are sufficient, it is not necessary to specify additional measures in this WRP in response to this section. The situation described in section 10.51(1)(c) of the Basin Plan is not relevant to Victoria's North and Murray water resource plan area.	n/a	This requirement is met as it is not necessary to include measures to meet critical human water needs during an extreme event listed in section 10.51(1) of the Basin Plan as the management of water resources (as described in response to section 10.51(1)) of the Basin Plan is done in such a way as to protect the continued supply of water to cities and towns to meet critical human needs. The powers available under the Victorian Water Act to respond to water shortages include circumstances where water availability is reduced because of drought or water quality events. As a result of the water resource management actions to address extreme dry or water quality events, there is a very low risk of a failure to meet critical human water needs during such an event. As such, no measures are being included in Victoria's North and Murray Water Resource Plan. This is exemplified by the ability of Victoria to manage its water resources during the Millennium Drought without resorting to Stage 4 water restrictions, which represents Victoria's understanding of managing water resources to meet critical human needs. For more information see the response to section 10.51(1) of the Basin Plan above and the information contained in Chapter 10 of Victoria's North and Murray Comprehensive Report which outlines how water is managed to ensure that at a minimum sufficient water is available to meet critical human water needs. Victorian water management arrangements are based on a risk mitigation model that restricts, reduces or discontinues supply or delivery of water before water levels are at a point where critical human needs cannot be met. Therefore, no additional measures are required in response to section 10.51(2) of the Basin Plan as an extreme dry period would be sufficiently managed under the arrangements and measures identified in response to section 10.51(1)(a) and (b) of the Basin Plan above.
10.51(3)	The water resource plan must provide that, if new scientific information suggests a change in the likelihood of an event of a type listed in subsection (1) occurring (for example, due to climate change), consideration must be given to whether, as a result of this new information, the water resources should be managed differently.	Victoria's North and Murray water resource plan area If new scientific information suggests a change in the likelihood of an event of a type listed in section 10.51(1) of the Basin Plan occurring, consideration will be given as to whether, as a result of this new information, the water resources should be managed differently.	Department	Water resources are managed through state legislation and policy which was formed using the best available information. All relevant documents are reviewed on a periodic basis to ensure that new information informs water resource management.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
Part 14	Indigenous values and uses			
10.52(1)(a)	A water resource plan must identify: (a) the objectives of Indigenous people in relation to managing the water resources of the water resource plan area;	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> For the purposes of section 10.52(1)(a) of the Basin Plan, the following objective of Indigenous people are identified in relation to managing the water resources of Victoria's North and Murray water resource plan area: <ul style="list-style-type: none"> (a) to develop respectful partnerships between Traditional Owners, Aboriginal Victorians and the Victorian Government to: (b) recognise Aboriginal values and objectives of water in Victorian water management, policy and planning (c) include Aboriginal values and traditional ecological knowledge in Victorian water management, policy and planning (d) facilitate Aboriginal access to water for economic development in Victorian water management, policy and planning (e) build capacity for Aboriginal participation in Victorian water management, policy development and planning. The specific objectives for Traditional Owners represented by the Barapa Barapa Nation are identified in Column 1 of Table 8-1 and Column 2 of Table 8-3 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Dhudhuroo, Waywurru and Yaitmathang Nations are identified in Column 1 of Table 1.6.1 of Appendix F to Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Dja Dja Wurrung Nation are identified in Table 8-4 and Column 1 of Table 8-6 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the First Peoples of the Millewa-Mallee (Nyeri Nyeri, Ngintait and Latji Latji) are identified in Column 1 of Table 8-7 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Tati Tati Wadi Wadi Nation are identified in Column 1 of Table 8-8 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Taungurung Nation are identified in Column 1 of Table 8-10 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Wadi Wadi Nation are identified in Table 8-16 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Wamba Wamba Nation are identified in Column 1 of Table 8-19 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Weki Weki Nation are identified in Column 1 of Table 8-21 of Victoria's North and Murray Comprehensive Report. The specific objectives for Traditional Owners represented by the Yorta Yorta Nation are identified in Column 1 of Table 8-23 of Victoria's North and Murray Comprehensive Report. 	n/a	Contributions by individual Nations are provided in Section 8.3 and Appendix F to Victoria's North and Murray Comprehensive Report.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.52(1)(b)	A water resource plan must identify: (a) the outcomes for the management of the water resources of the water resource plan area that are desired by Indigenous people.	<p>Victoria's North and Murray water resource plan area</p> <ol style="list-style-type: none"> For the purposes of section 10.52(1)(b) of the Basin Plan the following outcomes for the management of water resources of the Northern Victoria Basin Resources water resource plan area that are desired by Indigenous people are identified: <ul style="list-style-type: none"> (a) to partner with the water sector to make sure that the legislated objectives of the Victorian Environmental Water Holder consider identified Aboriginal water-related environmental outcomes (b) to incorporate traditional and ecological knowledge into water planning and management using Aboriginal Waterway Assessments and other tools developed by Traditional Owners (c) to achieve shared benefits in water resources (d) to be notified by water corporations when opportunities to access water entitlements arise (e) Sustainable Water Strategies to be prepared considering opportunities for access to water for economic development for Aboriginal Victorians. The specific outcomes for Traditional Owners represented by the Barapa Barapa Nation are identified in Column 2 of Table 8-1 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Dhudhuroo, Waywurru and Yaitmathang Nations are identified in Column 2 of Table 1.6.1 of Appendix F to Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Dja Dja Wurrung Nation are identified in Table 8-5 and Column 2 of Table 8-6 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the First Peoples of the Millewa-Mallee (Nyeri Nyeri, Ngintait and Latji Latji) are identified in Column 2 of Table 8-7 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Tati Tati Wadi Wadi Nation are identified in Column 2 of Table 8-8 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Taungurung Nation are identified in Column 2 of Table 8-10 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Wadi Wadi Nation are identified in Table 8-17 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Wamba Wamba Nation are identified in Column 2 of Table 8-19 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Weki Weki Nation are identified in Column 2 of Table 8-21 of Victoria's North and Murray Comprehensive Report. The specific outcomes for Traditional Owners represented by the Yorta Yorta Nation are identified in Column 2 of Table 8-23 of Victoria's North and Murray Comprehensive Report. 	n/a	Contributions by individual Nations are provided in Section 8.3 and Appendix F to Victoria's North and Murray Comprehensive Report.

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Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.52(2)	In identifying the matters set out in subsection (1), regard must be had to: (a) the social, spiritual and cultural values of Indigenous people that relate to the water resources of the water resource plan area (Indigenous values); and (b) the social, spiritual and cultural uses of the water resources of the water resource plan area by Indigenous people (Indigenous uses); as determined through consultation with relevant Indigenous organisations, including (where appropriate) the Murray Lower Darling Rivers Indigenous Nations and the Northern Murray–Darling Basin Aboriginal Nations.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	Contributions received for inclusion in Victoria's North and Murray Water Resource Plan were informed by the matters listed in section 10.52(2). Individual Traditional Owner groups determined whether those matters would be discussed and how those matters would be discussed. See Section 8.3 and Appendix F to Victoria's North and Murray Comprehensive Report for the contributions of the Traditional Owner groups relevant to Victoria's North and Murray Water Resource Plan. Specifically, values and uses can be seen through individual Traditional Owner contributions: <ul style="list-style-type: none"> refer to Section 8.3.2.8 for Barapa Barapa values and uses of water resources refer to Section 1.6.2 in Appendix F for Dhudhuroa, Waywuru and Yaitmathang values and uses of water resources refer to Section 8.3.4.7 for Dja Dja Wurrung values and uses of water resources refer to Section 8.3.5.7 for First Peoples of the Millewa-Mallee (Nyeri Nyeri, Ngintait and Latji Latji) values and uses of water resources refer to Section 8.3.6.7 for Tati Tati Wadi Wadi values and uses of water resources refer to Section 8.3.7.9 for Taungurung values and uses of water resources refer to Section 8.3.8.2 for Wadi Wadi values and uses of water resources refer to Section 8.3.9.5 for Wamba Wamba values and uses of water resources refer to Section 8.3.10.5 for Weki Weki values and uses of water resources refer to Section 8.3.11.5 for Yorta Yorta values and uses of water resources
10.52(3)	A person or body preparing a water resource plan may identify opportunities to strengthen the protection of Indigenous values and Indigenous uses in accordance with the objectives and outcomes identified under subsection (1), in which case the opportunities must be specified in the water resource plan.	Victoria's North and Murray water resource plan area 1. Opportunities to strengthen the protection of Aboriginal values and uses of water within Victoria's North and Murray water resource plan area include: (a) legislative changes to improve the ways that Traditional Owners and Aboriginal Victorians are engaged in water management and planning, and to improve incorporation of traditional ecological knowledge and Aboriginal water objectives and outcomes in decision making. (b) further engagement on the National Cultural Flows Research Project (released 2018) to identify opportunities to progress understanding of, and respond to, cultural flows in Victoria. (c) increased awareness of section 8A rights under the <i>Water Act 1989</i> (Vic) and to increase the capacity of relevant Traditional Owner groups to access these rights in the future. (d) implementation of Aboriginal Participation Guidelines for catchment management authorities, which describe key principles and actions to support Aboriginal participation and inclusion. (e) creation of several Aboriginal water officer positions during the development of this water resource plan and seeking funding to ensure these positions continue to progress the identification and implementation of values, uses, objectives and outcomes identified in this plan. (f) continued implementation of the Water for Victoria Aboriginal Water Policy, as committed via the risk strategies and measures in this plan, to provide opportunities for further identification and protection of Aboriginal water values and uses in Victoria's North and Murray water resource plan area and to minimise or mitigate the high risks identified as much as practicable.	n/a	Opportunities to strengthen the protection of Indigenous Values and uses is discussed at Section 8.4.3 of Victoria's North and Murray Comprehensive Report.

FOR ACCREDITATION		NOT FOR ACCREDITATION		
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.53(1)	<p>A water resource plan must be prepared having regard to the views of relevant Indigenous organisations with respect to the matters identified under section 10.52 and the following matters:</p> <ul style="list-style-type: none"> (a) native title rights, native title claims and Indigenous Land Use Agreements provided for by the <i>Native Title Act 1993</i> in relation to the water resources of the water resource plan area; (b) registered Aboriginal heritage relating to the water resources of the water resource plan area; (c) inclusion of Indigenous representation in the preparation and implementation of the plan; (d) Indigenous social, cultural, spiritual and customary objectives, and strategies for achieving these objectives; (e) encouragement of active and informed participation of Indigenous people; (f) risks to Indigenous values and Indigenous uses arising from the use and management of the water resources of the water resource plan area. 	<p>Victoria's North and Murray water resource plan area</p> <p>No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.</p>	n/a	<p>Section 8.3 and Section 8.4 of Victoria's North and Murray Comprehensive Report outline how these matters were had regard to. Contributions of the individual Nations also provide for information relating to the matters identified in section 10.53(1) of the Basin Plan. Contributions are provided in Section 8.2 of Victoria's North and Murray Comprehensive Report.</p> <p>Contributions received for inclusion in the Victoria's North and Murray Water Resource Plan were informed by the matters listed in section 10.53(1) of the Basin Plan. Individual Traditional Owner groups determined whether those matters would be discussed and how those matters would be discussed. Further discussion about Traditional Owner engagement is contained in Section 8.2 and Appendix F to Victoria's North and Murray Comprehensive Report and Appendix D to Victoria's North and Murray Comprehensive Report.</p> <p>The Victoria's North and Murray Water Resource Plan has been developed in response to the section 10.53 requirement of the Basin Plan in recognising existing legislative rights and is outlined in Section 8.4 of the Comprehensive Report. Views can be seen through individual Traditional Owner contributions:</p> <ul style="list-style-type: none"> • refer to Section 8.3.2.2 for Barapa Barapa views on existing legislative requirements regarding Native Title and/or cultural heritage • refer to Part 1.2 in Appendix F for Dhudhuroo, Waywurru and Yaitmathang views on existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.4.2 for Dja Dja Wurrung views existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.5.2 for First Peoples of the Millewa-Mallee (Nyeri Nyeri, Ngintait and Latji Latji) views existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.6.2 for Tati Tati Wadi Wadi views existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.7.5 for Taungurung views on existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.8 for Wadi Wadi views existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.9.2 for Wamba Wamba views on existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.10.2 for Weki Weki views on existing legislative requirements regarding Native Title and/or cultural heritage • refer to Section 8.3.11.2 for Yorta Yorta views on existing legislative requirements regarding Native Title and/or cultural heritage <p>Risks related to Aboriginal values and uses, and the strategies to address them are contained in Appendix B in Table 3.2.19 to Table 3.2.28 for the Northern Victoria water resource plan area Table 3.4.17 to Table 3.4.26 for the Victorian Murray water resource plan area and Table 3.3.5 to Table 3.3.14 for the Goulburn-Murray water resource plan area. Table 4.21 in Appendix B contains an explanation of the strategies identified to address these risks.</p> <p>MLDRIN was involved in the development of Victoria's North and Murray Risk Assessment in Appendix B and was a member of the Technical Advisory Group. See Part 4 of the Consultation Report at Appendix D to Victoria's North and Murray Comprehensive Report. Traditional Owner contributions in Section 8.2 also highlight risks to Aboriginal values and uses of water.</p>
10.53(2)	In this section, registered Aboriginal heritage means Aboriginal heritage registered or listed under a law of a Basin State or the Commonwealth that deals with the registration or listing of Aboriginal heritage (regardless of whether the law deals with the listing of other heritage).	<p>Victoria's North and Murray water resource plan area</p> <p>This matter assists in the interpretation of Part 14 of Chapter 10 of Basin Plan of the Basin Plan and does not contain a water resource plan requirement.</p>	n/a	

FOR ACCREDITATION			NOT FOR ACCREDITATION	
Column 1 Basin Plan Section	Column 2 Basin Plan Requirement (Section 10.04(4)(a))	Column 3 Accredited response Sect 10.04(2) & (3)	Column 4 Person responsible Sect 10.06(2)	Column 5 Explanatory material
10.54	A water resource plan must be prepared having regard to the views of Indigenous people with respect to cultural flows.	Victoria's North and Murray water resource plan area No accredited text needed for a requirement to 'have regard to'. Explanation of how regard was had is in Column 5.	n/a	<p>This requirement is met as Victoria's North and Murray Water Resource Plan was prepared having regard to the views of Indigenous people with respect to cultural flows</p> <p>Views can be seen through individual Traditional Owner contributions:</p> <ul style="list-style-type: none"> refer to Section 8.3.2.11 for Barapa Barapa views on cultural flows refer to Part 1.6.3 in Appendix F for Dhudhuroa, Waywurru and Yaitmathang views on cultural flows refer to Section 8.3.4.8 for Dja Dja Wurrung views on cultural flows refer to Section 8.3.5.8 for First Peoples of the Millewa-Mallee views on cultural flows refer to Section 8.3.6.8 for Tati Tati Wadi Wadi views on cultural flows refer to Section 8.3.7 for Taungurung views on cultural flows refer to Section 8.3.8.1 for Wadi Wadi views on cultural flows refer to Section 8.3.9.8 for Wamba Wamba views on cultural flows refer to Section 8.3.10.7 for Weki Weki views on cultural flows refer to Section 8.3.11.7 for Yorta Yorta views on cultural flows <p>See also Section 8.6 of the Comprehensive Report for discussion of cultural flows. Victoria is supportive of progressing the discussion of cultural flows through engagement on the National Cultural Flows Research Project and is included for accredited text for section 10.52(3) of the Basin Plan.</p>
10.55	A water resource plan must provide at least the same level of protection of Indigenous values and Indigenous uses as provided in: (a) a transitional water resource plan for the water resource plan area; or (b) an interim water resource plan for the water resource plan area.	Victoria's North and Murray water resource plan area Victoria's North and Murray Water Resource Plan provides the same level of protection as provided in transitional water resource plans for the Victorian Murray, Northern Victoria and Goulburn-Murray water resource plan areas as it does not operate to limit any right to take water that may be available under section 8A of the <i>Water Act 1989</i> (Vic).	n/a	<p>This requirement is met by the text contained in Column 3 of this row. As identified in Chapter 8 of the Comprehensive Report a significant program has been developed to encourage and empower Indigenous involvement in water resource management in addition to moving towards increased access to water.</p> <p>Victoria's North and Murray Water Resource Plan recognises the objectives and outcomes for water desired by Aboriginal communities in addition to identifying strategies to address the risks relating to Aboriginal water (see Victoria's North and Murray Risk Assessment Report at Appendix B to Victoria's North and Murray Comprehensive Report).</p> <p>The strategies, supported by the Victorian Government Aboriginal water policy outlined in the <i>Water for Victoria: Water Plan</i>, will identify opportunities to further strengthen the protection of Aboriginal values and uses of water.</p>

Table A: Water Access Rights Victoria's North (surface water) water resource plan area—s.10.08(1) Basin Plan

- This table applies to the following SDL resource units:
- Victorian Murray SDL resource unit (SS2)
- Kiewa SDL resource unit (SS3)
- Ovens SDL resource unit (SS4)
- Goulburn SDL resource unit (SS6)
- Broken SDL resource unit (SS5)
- Campaspe SDL resource unit (SS7)
- Loddon SDL resource unit (SS8)

Item	Form of Take	Classes of Water Access Right (Entitlement)	Victorian Water Act ref ¹	Conditions and Characteristics (10.08(1)(c) BP)		Number of (Water Access Rights) Entitlements (10.08(1)(c) BP)	Proportion take measured
				Management	Trade		
1	Take from a watercourse (excluding take under basic rights)	Bulk entitlement Environmental entitlement	34A 48A	<p>No specified period of authorisation.</p> <p>May be held by a water corporation, a (power) generation company, the Minister administering the <i>Conservation, Forests and Lands Act 1987</i>, or the Victorian Environmental Water Holder.</p> <p>Entitlement is for one or more of volume, share of flow, or share of storage</p> <p>Obligations to release flows for environmental and primary entitlement holders, contribute funds to operation and maintenance and around metering, accounting and reporting.</p> <p>Section 43 of the <i>Water Act 1989 (Vic)</i> lists the matters that may be specified in the entitlement. Once specified these are conditions on the bulk entitlement (water access right). Once issued, bulk entitlements are recorded on the Victorian Water Register.</p>	<p>Depending on bulk entitlement Order, can be transferred in whole or part</p> <p>May be sold in whole or part in specified circumstances</p> <p>Can assign (trade) whole or part of allocation under a bulk entitlement</p>	39	100%
				<p>No specified period of authorisation.</p> <p>May be held by the Victorian Environmental Water Holder.</p> <p>May be allocated to maintain the environmental water reserve in accordance with the environmental water reserve objective, or to improve environmental values and health of water ecosystems</p> <p>Can be one or more of maximum volume, share of flow or share of storage and is subject to seasonal determinations.</p> <p>May specify water accounting procedures, conditions and class of reliability (high or low reliability).</p> <p>Section 48J of the <i>Water Act 1989 (Vic)</i> lists the matters that may be specified in the entitlement. Once specified these are conditions on the environmental entitlement (water access right). Once issued, environmental entitlements are recorded on the Victorian Water Register.</p>	<p>Can be transferred in whole or part.</p> <p>May be sold in whole or part in subject to specified process</p> <p>Can assign (trade) whole or part of allocation to specified persons</p>	1	100%
		Take and use licence	51	<p>Issued for a maximum of 15 years.</p> <p>Can be renewed for a maximum of 15 years at the end of the term.</p> <p>Authorises an annual maximum volume that may be taken under the licence.</p> <p>Is subject to standard conditions** including time, place and rate of take.</p> <p>Time, volume and rate can be limited through restrictions, rosters and bans.</p> <p>Section 56 of the <i>Water Act 1989 (Vic)</i> identifies the matters for which the Minister may specify conditions on a take and use licence. Once specified, these conditions are contained in the relevant take and use licence (water access right).</p>	<p>Can be traded on temporary or permanent basis</p>	<p>As at 30 June 2018: 579 (Victorian Murray) 462 (Kiewa) 822 (Ovens) 1446 (Goulburn) 161 (Broken) 1536 (Campaspe) 311 (Loddon)</p>	<p>Take is metered on active licence greater than 10ML annual volume</p>
2	Take from a watercourse under basic rights	Domestic and stock Traditional Owner statutory right	8 8A	<p>No specified period of authorisation.</p> <p>The right to access depends on meeting the access specifications and the definition of domestic and stock use but otherwise does not have conditions.</p> <p>No specified period of authorisation.</p> <p>Take and use for traditional purposes as provided in a land use activity agreement made under the <i>Traditional Owner Settlement Act 2010</i>.</p> <p>A person who is a member of a traditional owner group bound by the agreement has the right to take and use water on the land that is subject to the agreement, in accordance with terms and conditions of the agreement.</p> <p>Applies only where the member has access to a waterway or bore in the circumstances under section 8(1) of the <i>Water Act 1989 (Vic)</i>.</p> <p>There are no requirements under the <i>Water Act 1989 (Vic)</i> on the exercise of this right.</p>	<p>Not applicable</p> <p>Not applicable</p>	<p>13,228²</p> <p>As at 30 June 2012: 0</p>	<p>0%</p> <p>0%</p>

1. This column identifying the relevant section in the Victorian Water Act does not form part of the accredited text

Item	Form of Take	Classes of Water Access Right (Entitlement)	Victorian Water Act ref	Conditions and Characteristics (10.08(1)(c) BP)		Number of (Water Access Rights) Entitlements (10.08(1)(c) BP)	Proportion take measured
				Management	Trade		
3	Take from a regulated river (excluding take under basic rights)	Bulk entitlement	34A	<p>No specified period of authorisation.</p> <p>May be held by a water corporation, a (power) generation company, the Minister administering the <i>Conservation, Forests and Lands Act 1987</i>, or the Victorian Environmental Water Holder.</p> <p>Entitlement is for one or more of volume, share of flow, or share of storage.</p> <p>Obligations to release flows for environmental and primary entitlement holders, contribute funds to operation and maintenance and around metering, accounting and reporting.</p> <p>Section 43 of the <i>Water Act 1989</i> (Vic) lists the matters that may be specified in the entitlement. Once specified these are conditions on the bulk entitlement (water access right). Once issued, bulk entitlements are recorded on the Victorian Water Register.</p>	<p>Depending on bulk entitlement Order, can be transferred in whole or part</p> <p>May be sold in whole or part in specified circumstances</p> <p>Can assign (trade) whole or part of allocation under a bulk entitlement</p>	34	100%
		Environmental entitlement	48A	<p>No specified period of authorisation.</p> <p>May be held by the Victorian Environmental Water Holder.</p> <p>May be allocated to maintain the environmental water reserve in accordance with the environmental water reserve objective, or to improve environmental values and health of water ecosystems.</p> <p>Can be one or more of maximum volume, share of flow or share of storage and is subject to seasonal determinations.</p> <p>May specify water accounting procedures, conditions and class of reliability (high or low reliability)</p> <p>Section 48J of the <i>Water Act 1989</i> (Vic) lists the matters that may be specified in the entitlement. Once specified these are conditions on the environmental entitlement (water access right).</p>	<p>Can be transferred in whole or part.</p> <p>May be sold in whole or part in subject to specified process</p> <p>Can assign (trade) whole or part of allocation to specified persons</p>	7	100%
		Take and use licence	51	<p>Issued for a maximum of 15 years.</p> <p>Can be renewed for a maximum of 15 years at the end of the term</p> <p>Authorises an express annual maximum volume that may be taken under the licence is subject to standard conditions² including time, place and rate of take</p> <p>Time, volume and rate can be limited through restrictions, rosters and bans</p> <p>Section 56 of the <i>Water Act 1989</i> (Vic) identifies the matters for which the Minister may specify conditions on a take and use licence. Schedule 2 of the <i>Minister's Policies for Take and Use Licences</i> contains standard licence conditions. Once specified, these conditions are contained in the relevant take and use licence (water access right).</p>	<p>Can be traded on temporary or permanent basis</p>	As at 30 June 2018: Approximately 1500 rural licence holders	Take and use licences in Coliban Water's irrigation districts are 100% metered at the bulk offtake.
		Water shares	33F	<p>Issued in declared water systems only.</p> <p>No specified period of authorisation.</p> <p>Identifies the water system and, where relevant, the zone for which the water share is issued.</p> <p>Authorises total volume that may be taken under the allocation for the water share during the water season for which the water is allocated.</p> <p>May be classified as high or low reliability.</p>	<p>Can be transferred in whole or in part</p> <p>Allocations under a water may be transferred (in whole or in part) without transferring ownership of the water share</p> <p>Transfer (trade) of allocation under a water share may be made for a single water season or for a period of up to 20 years (limited term transfer)</p>	As at 30 June 2018: 18,238 (Victorian Murray) 0 (Kiewa) 920 (Ovens) 18,142 (Goulburn) 484 (Broken) 520 (Campaspe) 696 (Loddon)	100%
4	Take from a regulated river under basic rights	Domestic and stock	8	<p>No specified period of authorisation.</p> <p>The right to access depends on meeting the access specifications and the definition of domestic and stock use but otherwise does not have conditions.</p>	<p>Not applicable</p>	13,228 ²	0%
		Traditional Owner statutory right	8A	<p>No specified period of authorisation.</p> <p>Take and use for traditional purposes as provided in a land use activity agreement made under the <i>Traditional Owner Settlement Act 2010</i>.</p> <p>A person who is a member of a traditional owner group bound by the agreement has the right to take and use water on the land that is subject to the agreement, in accordance with terms and conditions of the agreement.</p> <p>Applies only where the member has access to a waterway or bore in the circumstances under s.8(1) of the <i>Water Act 1989</i> (Vic).</p> <p>There are no requirements under the <i>Water Act 1989</i> (Vic) on the exercise of this right.</p>	<p>Not applicable</p>	As at 30 June 2012: 0	0%

² This is indicative as no licence is issued for this form of take so the number of rights being used is estimated as the number of properties not on public land that intersect with a waterway. The estimate includes take from a regulated river under basic rights.

Item	Form of Take	Classes of Water Access Right (Entitlement)	Victorian Water Act ref	Conditions and Characteristics (10.08(1)(c) BP)		Number of (Water Access Rights) Entitlements (10.08(1)(c) BP)	Proportion take measured
				Management	Trade		
5	Take by runoff dams (excluding under basic rights)	Take and use licence	51	<p>Issued for a maximum of 15 years. Can be renewed for a maximum of 15 years at the end of the term.</p> <p>Authorises an express annual maximum volume that may be taken under the licence. Is subject to standard conditions³ including time, place and rate of take</p> <p>Time, volume and rate can be limited through restrictions, rosters and bans</p> <p>Section 56 of the <i>Water Act 1989</i> (Vic) identifies the matters for which the Minister may specify conditions on a take and use licence. Once specified, these conditions are contained in the relevant take and use licence (water access right).</p>	Can be traded on temporary or permanent basis	As at 30 June 2018: 199 (Victorian Murray) 201 (Kiewa) 494 (Ovens) 1204 (Goulburn) 515 (Broken) 365 (Campaspe) 769 (Loddon)	The volume taken by dams is not metered, but the volume used is metered for active licences with an annual volume >10ML.
6	Take by runoff dams under basic rights	Registration licence Domestic and stock	51(1A) 8	<p>No specified period of authorisation.</p> <p>Applications for registration licences could be made between 1 July 2002 and 30 June 2003. Introduced requirement for authorisation for use of water from private dams for irrigation and commercial purposes based on history of take over previous 10 years</p> <p>A registration licence is enduring and is for an express annual maximum volume that may be taken under the licence</p> <p>Not subject to conditions. Once issued the registration licence is recorded on the Victorian Water Register.</p> <p>Can be converted to a section 51 take and use licence.</p> <p>No specified period of authorisation.</p> <p>The right to access depends on meeting the access specifications and the definition of domestic and stock use but otherwise does not have conditions.</p>	Not applicable	As at 30 June 2018: 681 (Victorian Murray) 188 (Kiewa) 390 (Ovens) 841 (Goulburn) 422 (Broken) 339 (Campaspe) 657 (Loddon)	0%
7	Take by commercial plantation	Traditional Owner statutory right No entitlement requirement	8A Not applicable	<p>No specified period of authorisation.</p> <p>Take and use for traditional purposes as provided in a land use activity agreement made under the <i>Traditional Owner Settlement Act 2010</i>.</p> <p>A person who is a member of a traditional owner group bound by the agreement has the right to take and use water on the land that is subject to the agreement, in accordance with terms and conditions of the agreement.</p> <p>Applies only where the member has access to a waterway or bore in the circumstances under s.8(1) of the <i>Water Act 1989</i> (Vic).</p> <p>There are no requirements under the <i>Water Act 1989</i> (Vic) on the exercise of this right.</p> <p>Not applicable</p>	Not applicable	As at 30 June 2012: 0	0%

Notes:

- a. An "Authority" referred to in this Table is a water corporation
- b. Bulk entitlements and environmental entitlements can also be for the take of:
 - i. water (other than recycled water) in the works of an Authority; or
 - ii. any other water, other than recycled water, to which an Authority has access.

³. This is indicative as no licence is issued for this form of take so the number of rights being used is estimated as the number of properties not on public land that intersect with a waterway. The estimate includes take from a regulated river under basic rights.
⁴. This is indicative as no licence is issued for this form of take so the number of rights being used is estimated.

Table B: Water Access Rights Goulburn-Murray water resource plan area—s.10.08(1) Basin Plan

This table applies to the following SDL Resource units:

- Goulburn-Murray: Shepparton Irrigation Region SDL resource unit (GS8a)
- Goulburn-Murray: Highlands SDL resource unit (GS8b)
- Goulburn-Murray: Sedimentary Plain SDL resource unit (GS8c)
- Goulburn-Murray: deep SDL resource unit (GS8d)

Item	Form of Take	Classes of Water Access Right (Entitlement)	Victorian Water Act ref ⁴	Conditions and Characteristics (10.08(1)(c) BP)		Number of (Water Access Rights) Entitlements (10.08(1)(c) BP)	Proportion take measured
				Management	Trade		
1	Take from groundwater (excluding under basic rights)	Bulk entitlement	34A	<p>No specified period of authorisation.</p> <p>May be held by a water corporation, a (power) generation company, the Minister administering the <i>Conservation, Forests and Lands Act 1987</i>, or the Victorian Environmental Water Holder.</p> <p>Entitlement is for volume.</p> <p>Obligations around metering, accounting and reporting.</p> <p>Section 43 of the <i>Water Act 1989</i> (Vic) lists the matters that may be specified in the entitlement. Once specified these are conditions on the bulk entitlement (water access right). Once issued the instrument is recorded on the Victorian Water Register.</p>	<p>Depending on bulk entitlement Order, can be transferred in whole or part</p> <p>May be sold in whole or part in specified circumstances</p> <p>Can assign (trade) whole or part of allocation under a bulk entitlement</p>	0	Not applicable
2	Take from groundwater under basic rights	Take and use licence	51	<p>Issued for a maximum of 15 years.</p> <p>Can be renewed for a maximum of 15 years at the end of the term</p> <p>Authorises an express annual maximum volume that may be taken under the licence</p> <p>Is subject to standard conditions⁵ including time, place and rate of take</p> <p>Time, volume and rate can be limited through restrictions, rosters and bans</p>	Can be traded on temporary or permanent basis	1033 (Shepparton Irrigation Region) 687 (Highlands) 1046 (Sedimentary Plain) 6 (deep)	93%
		Domestic and stock	8	<p>No specified period of authorisation.</p> <p>The right to access depends on meeting the access specifications and the definition of domestic and stock use but otherwise does not have conditions</p>	Not applicable	13,633 ⁶	0%
		Traditional Owner statutory right	8A	<p>No specified period of authorisation.</p> <p>Take and use for traditional purposes as provided in a land use activity agreement made under the <i>Traditional Owner Settlement Act 2010</i>.</p> <p>A person who is a member of a traditional owner group bound by the agreement has the right to take and use water on the land that is subject to the agreement, in accordance with terms and conditions of the agreement.</p> <p>Applies only where the member has access to a waterway or bore in the circumstances under section 8(1) of the <i>Water Act 1989</i> (Vic).</p> <p>There are no requirements under the <i>Water Act 1989</i> (Vic) on the exercise of this right.</p>	Not applicable	As at 30 June 2012: 0	0%

Notes:

- An "Authority" referred to in this Table is a water corporation
- Bulk entitlements and environmental entitlements can also be for the take of:
 - water (other than recycled water) in the works of an Authority; or
 - any other water, other than recycled water, to which an Authority has access.

4. This column identifying the relevant section in the Victorian Water Act does not form part of the accredited text
5. Copy of standard section 51 licence conditions can be found on the Victorian Water Register
6. This is indicative as no licence is issued for this form of take so the number of rights being used is estimated