

## **2. Schedule of specified restrictions on the exercise of permits to take surface water**

This schedule provides specified minimum flows applying to the taking of surface water within primary and supplementary allocation from catchments identified in the B-series maps, and Welcome Creek. The schedule should be read in conjunction with the policies contained in section 6.4.

Schedule 2A specifies minimum flows that apply to the primary allocation water taken from catchments identified in the B-series maps. The last column of Schedule 2A also specifies the primary allocation limit in accordance with Policy 6.4.2(a) for the whole catchments of the rivers and lakes. The catchment areas for the primary allocation limits set by Policy 6.4.2(a) may be larger than those specified on the B-series maps.

Schedule 2B specifies minimum flows that apply to specified blocks of supplementary allocation for some catchments. Additional supplementary allocation may be granted under Policies 6.4.9 and 6.4.10.

Schedule 2 identifies minimum flows in litres per second and the site at which flows will be monitored. When the minimum flow is reached, consents to take water from the identified catchment will cease or will be suspended by the Otago Regional Council, in accordance with Policy 6.4.11 of this Plan. The flows listed in Schedule 2, which trigger suspension, use the instantaneous flow rates.

In accordance with Policy 6.4.1A, groundwater takes from aquifers listed in Schedule 2C and identified in the C-series maps, and other connected groundwater, are considered against primary or supplementary allocation provided for by Policies 6.4.2 and 6.4.9 and where listed in Schedules 2A and 2B, and may be subject to the minimum flows identified.

Schedule 2D identifies matters to be considered when making additions to these schedules through a plan change.

SCHEDULE 2: SPECIFIED RESTRICTIONS ON THE  
EXERCISE OF PERMITS TO TAKE WATER

**2A Schedule of specific minimum flows for primary allocation takes in accordance with Policy 6.4.3, and primary allocation limits in accordance with Policies 6.4.2(a) and 6.4.1A**

The following schedule:

1. Identifies the minimum flows that apply to the taking of surface water, which includes groundwater managed as surface water in terms of Policy 6.4.1A within primary allocation from the catchments shown in the B-series maps, Welcome Creek and aquifers shown in the C-series maps. The B-series maps identify the location of catchment area boundaries and numbered monitoring sites referred to in the schedule for setting and measuring the minimum flows.
2. Specifies the primary allocation limit in accordance with Policy 6.4.2(a). That limit is exceeded in catchments where the consented takes as at 28 February 1998 (or 19 February 2005 in the Welcome Creek catchment, or 7 July 2000 in the Waianakarua catchment) set a higher limit in accordance with Policy 6.4.2(b). The catchments in which the limit set by Policy 6.4.2(a) is exceeded by Policy 6.4.2(b) (as at 20 December 2008) are the Shag, Kakanui, Taieri, Lake Hayes, Luggate and Manuherikia.

Catchment See the B-series maps	Monitoring Site (with MS number) See the B-series maps	Minimum flow (litres per second – instantaneous flow)	Primary Allocation Limits in accord with Policy 6.4.2(a) (litres per second – instantaneous flow)
<b>Welcome Creek catchment</b>	Steward Road	600	600 <i>Welcome Creek catchment from confluence with Waitaki River to headwaters. (Also subject to Table 12.1.4.2)</i>
<b>Kakanui catchment (a) 1 October to 30 April</b>	Mill Dam (MS 3) and McCones (MS 3b)	250 (300 for secondary permits) If 250 breached, flow must return to 400 before taking can recommence.	750 <i>Kakanui catchment from mouth to headwaters excluding the Waiareka Creek and Island Stream catchments.</i>
<b>(b) 1 May to 30 September</b>	Clifton Falls (MS 3a) Mill Dam (MS 3) and McCones (MS 3b)	400 for primary and secondary permits	
<b>Waianakarua catchment</b>	Browns Pump (MS 13)	200 (1 October to 30 April)  400 (1 May to 30 September)	190 <i>Waianakarua catchment from mouth to headwaters</i>
<b>Trotters catchment</b>	Mathesons Weir (MS 12)	10 (1 October to 30 April)  35 (1 May to 30 September)	15 <i>Trotters catchment from mouth to headwaters</i>

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<b>Catchment See the B-series maps</b>	<b>Monitoring Site (with MS number) See the B-series maps</b>	<b>Minimum flow (litres per second – instantaneous flow)</b>	<b>Primary Allocation Limits in accord with Policy 6.4.2(a) (litres per second – instantaneous flow)</b>
<b>Shag catchment</b> (both minimum flows apply)	Goodwood Pump (MS 1)	28	280 <i>Shag catchment from mouth to headwaters</i>
	Craig Road (MS 2)	150	
<b>Water of Leith catchment</b>	Water of Leith at University Footbridge (MS 4)	94	140 <i>Water of Leith catchment from mouth to headwaters</i>
<b>Taieri River upstream of Paerau</b>	Paerau Dam (MS 5a)	850	4,860 <i>Taieri River catchment from mouth to headwaters.</i>
<b>Taieri River catchment between Paerau and Waipiata</b>	Taieri River at Waipiata (MS 5)	1,000	
<b>Taieri River catchment between Waipiata and Tiroiti</b>	Taieri River at Tiroiti (MS 5b)	1,100	
<b>Taieri River catchment between Tiroiti and Sutton</b>	Taieri River at Sutton (MS 6)	1,250	
<b>Taieri River catchment between Sutton and Outram</b>	Taieri River at Outram (MS 6a)	2,500	
<b>Luggate catchment</b>	SH6 Bridge (MS 11)	180 (1 November to 30 April)	500 <i>Luggate catchment from confluence with Clutha/Mata-Au to headwaters</i>
		500 (1 May to 30 October)	
<b>Lake Hayes catchment area</b>	Mill Creek at Fish Trap (MS 7)	180	260 <i>Lake Hayes catchment from lake outlet to headwaters</i>
<b>Manuherikia River catchment upstream of Ophir</b>	Manuherikia River at Ophir (MS 8)	820	3,200 <i>Manuherikia catchment from confluence with Clutha/Mata-Au to headwaters</i>
<b>Waitahuna River catchment</b>	Waitahuna River at Tweeds Bridge (MS 9)	450	650 <i>Waitahuna catchment from confluence with Clutha/Mata-Au to headwaters</i>
<b>Pomahaka catchment</b> (within Otago Region)	Burkes Ford (MS 15)	3,600 (1 October to 30 April)	1,000 <i>Pomahaka catchment from confluence with Clutha/Mata-Au to headwaters</i>
		7,000 (1 May to 30 September)	

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<b>Catchment See the B-series maps</b>	<b>Monitoring Site (with MS number) See the B-series maps</b>	<b>Minimum flow (litres per second – instantaneous flow)</b>	<b>Primary Allocation Limits in accord with Policy 6.4.2(a) (litres per second – instantaneous flow)</b>
<b>Waiwera catchment</b>	Maws Farm (MS 16)	280 (1 October to 30 April) If 280 breached by taking, flow must return to 310 before taking can recommence.  400 (1 May to 30 September)	150 <i>Waiwera catchment from confluence with Clutha/Mata-Au to headwaters</i>
<b>Lake Tuakitoto catchment</b>	Lovells Creek at SH1 (MS 10)	5	30 <i>Lake Tuakitoto catchment from confluence with Clutha/Mata-Au to headwaters</i>

SCHEDULE 2: SPECIFIED RESTRICTIONS ON THE  
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**2B Schedule of supplementary allocation blocks and specific minimum flows in accordance with Policy 6.4.9(c)**

<b>Catchment (See the B-series maps) &amp; Supplementary Block Number</b>	<b>Minimum Flow (litres per second – instantaneous flow) at the monitoring site(s) (See the B-series maps)</b>	<b>Supplementary Allocation Block (litres per second – instantaneous flow)</b>
<b>Welcome Creek catchment</b> (first supplementary allocation block)	1,000 At Steward Road (MS 14)	400 <i>(Also subject to Table 12.1.4.2)</i>
<b>Kakanui catchment</b>	For each minimum flow listed below: 1. At Mill Dam (MS 3) for takes downstream of Clifton Falls monitoring site; or 2. At both Mill Dam (MS 3) and Clifton Falls (MS 3a) for takes upstream of Clifton Falls monitoring site.	
<b>Kakanui catchment</b> (first supplementary allocation block)	1 October to 30 April: 1,050	1 October to 30 April: 300
	1 May to 30 September: 1,500	1 May to 30 September: 500
<b>Kakanui catchment</b> (subsequent supplementary allocation blocks)	All subsequent minimum flows corresponding to supplementary allocation blocks in the Kakanui catchment will be based on the following formula:  1 October to 30 April: $1,050 + (300 \times \text{number ofsupplementary allocation block}^*)$  1 May to 30 September: $1,500 + (500 \times \text{number ofsupplementary allocation block}^*)$  * 2 for the 2 <sup>nd</sup> , 3 for the 3 <sup>rd</sup> allocation block, and so on.	All subsequent supplementary allocation blocks in the Kakanui catchment will be based on the following sizes:  1 October to 30 April: 300  1 May to 30 September: 500
<b>Waianakarua catchment</b> (first supplementary allocation block)	311 At Browns Pump (MS 13)	100
<b>Trotters catchment</b> (first supplementary allocation block)	1 October to 30 April: 30 at Mathesons Weir (MS 12)	15
	1 May to 30 September: 50 at Mathesons Weir (MS 12)	15
<b>Trotters catchment</b> (second supplementary allocation block)	1 October to 30 April: 60 at Mathesons Weir (MS 12)	30
	1 May to 30 September: 80 at Mathesons Weir (MS 12)	30
<b>Trotters catchment</b> (third supplementary allocation block)	1 October to 30 April: 90 at Mathesons Weir (MS 12)	30
	1 May to 30 September: 110 at Mathesons Weir (MS 12)	30

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Catchment (See the B-series maps) & Supplementary Block Number	Minimum Flow (litres per second – instantaneous flow) at the monitoring site(s) (See the B-series maps)	Supplementary Allocation Block (litres per second – instantaneous flow)
<b>Shag catchment</b> (first supplementary allocation block)	650 At Craig Road (MS 2)  401 At Goodwood Pump (MS 1)	100
<b>Shag catchment</b> (second supplementary allocation block)	750 At Craig Road (MS 2)  501 At Goodwood Pump (MS 1)	100
<b>Pomahaka catchment</b> (within Otago Region) (first supplementary allocation block)	13,000 At Burkes Ford (MS 15)	500
<b>Waiwera catchment</b> (first supplementary allocation block)	600 At Maws Farm (MS 16)	100

**2C Schedule of aquifers where groundwater takes are to be considered as primary allocation, and subject to minimum flows of specified catchments in accordance with Policy 6.4.1A**

Aquifer Name	Map Reference	Catchment to which primary or supplementary allocation limits apply, and minimum flows may apply*
<b>Kakanui-Kauru Alluvium Aquifer</b>	C17 & C18	Kakanui catchment*
<b>Shag Alluvium Aquifer</b>	C19	Shag catchment*
<b>Lindis Alluvial Ribbon Aquifer</b>	C5 & C6	Lindis catchment**
<b>Cardrona Alluvial Ribbon Aquifer</b>	C2 & C3	Cardrona catchment upstream of the Mount Barker recorder site**
<b>Lowburn Alluvial Ribbon Aquifer</b>	C7	Lowburn Stream**
<b>Pomahaka Alluvial Ribbon Aquifer</b>	C22 & C23	Pomahaka catchment**

\* as given in Schedules 2A and 2B.

\*\* as provided for by Policies 6.4.2, 6.4.3 and 6.4.9.

## **2D Schedule of matters to be considered when setting minimum flows and allocation limits**

Primary allocation limits and minimum flows will be added to Schedule 2A, to give effect to the objectives and policies in this Plan, through the plan change process following scientific investigation and consultation with the community and affected parties. The lists in 2D.1 and 2D.2 identify matters to which consideration will be given when setting these flows and limits. The lists are not exhaustive and consideration will be given to these and any other relevant matters.

**2D.1** When setting minimum flows in Schedule 2A for a catchment, consideration will be given to the following matters:

- (a) Any existing or previous minimum flow regime or residual flow;
- (b) The 7-day mean annual low flow;
- (c) Interaction among water bodies;
- (d) Ecological values, including the need for flow variability;
- (e) Demand for water, including community water supplies;
- (f) Existing water uses and associated infrastructure;
- (g) Environmental, social, cultural, recreational and economic costs and benefits of taking and using water before and after the implementation of a minimum flow regime; and
- (h) Any other relevant matter in giving effect to Part 2 of the Resource Management Act.

**2D.2** When setting primary allocation limits in Schedule 2A for a catchment, consideration will be given to the following matters:

- (a) Amount of water currently allocated as primary allocation;
- (b) Amount of water currently taken as primary allocation;
- (c) Any other existing taking and using of water;
- (d) The 7-day mean annual low flow;
- (e) Proposed minimum flow regime;
- (f) Possible sources of water;
- (g) Acceptable duration and frequency of rationing among consented water users; and
- (h) Social and economic benefits of taking and using water.

**Note:** For catchments not included in Schedule 2A, refer to Policy 6.4.4 for determining minimum flows and Policy 6.4.2 for identification of primary allocation.