

Murray-Darling Basin Amendment Bill 2002

Explanatory note

This explanatory note relates to this Bill as introduced into Parliament.

Overview of Bill

Arrangements for the sharing of water from the rivers comprising the Murray-Darling Basin are the subject of an agreement entered into on 24 June 1992 between the Commonwealth, New South Wales, Victoria and South Australia (the *Murray-Darling Basin Agreement*). Legislative approval to that agreement was given when Parliament enacted the *Murray-Darling Basin Act* 1992. A copy of the agreement is set out in Schedule 1 to that Act.

The Commonwealth, New South Wales, Victoria and South Australia have subsequently entered into an agreement to amend the Murray-Darling Basin Agreement (the *Murray-Darling Basin Amending Agreement*) so as to make new arrangements for sharing water made available in the River Murray catchment above Hume Dam by the Snowy Scheme.

The object of this Bill is to amend the *Murray-Darling Basin Act 1992* so as to give legislative approval to the Murray-Darling Basin Amending Agreement. As a consequence of that approval, the Murray-Darling Basin Agreement will be amended in accordance with the terms of the Murray-Darling Basin Amending Agreement.

Outline of provisions

Clause 1 sets out the name (also called the short title) of the proposed Act.

Clause 2 provides for the commencement of the proposed Act on a day to be appointed by proclamation.

Clause 3 is a formal provision giving effect to the amendments to the *Murray-Darling Basin Act 1992* set out in Schedule 1.

Schedule 1 Amendments

Schedule 1 [1] substitutes the definition of *Agreement* in section 4 (1) to reflect the adoption of the Amending Agreement.

Schedule 1 [2] inserts a definition of *Amending Agreement* into section 4 (1).

Schedule 1 [3] inserts proposed section 6A. The new section gives legislative approval to the Amending Agreement.

Schedule 1 [4] inserts proposed Schedule 2. The new Schedule contains the text of the Amending Agreement.



Murray-Darling Basin Amendment Bill 2002

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Murray-Darling Basin Amendment Bill 2002

No , 2002

A Bill for

An Act to amend the *Murray-Darling Basin Act 1992* so as to approve certain amendments to the agreement set out in Schedule 1 to that Act.

The Legislature of New South Wales enacts:			
1	Name of Act	2	
	This Act is the Murray-Darling Basin Amendment Act 2002.	3	
2	Commencement	4	
	This Act commences on a day to be appointed by proclamation.	5	
3	Amendment of Murray-Darling Basin Act 1992 No 65	6	
	The Murray-Darling Basin Act 1992 is amended as set out in Schedule 1.	7 8	

Amendments	Schedule 1
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Sch	edule 1	Amo	endments	1
.		7 1111		
			(Section 3)	2
[1]	Section 4	Definit	ions	3
	Omit the d	lefinitio	on of Agreement from section 4 (1). Insert instead:	4
			ement means the agreement, a copy of which is set out in dule 1, as the agreement is:	5
		(a)	deemed to be amended from time to time under clause 50 or 134 of the agreement, and	7 8
		(b)	amended by the Amending Agreement.	9
[2]	Section 4	(1)		10
	Insert in al	lphabet	ical order:	11
			nding Agreement means the agreement a copy of which out in Schedule 2.	12 13
[3]	Section 6	A		14
	Insert after	r section	n 6:	15
	6A Ap	proval	of Amending Agreement	16
		The A	Amending Agreement is approved.	17

[4]	Schedule 2	1
	Insert after Schedule 1:	2
	Schedule 2 The Amending Agreement	3
	MURRAY-DARLING BASIN AMENDING AGREEMENT	4
	Murray-Darling Basin Amending Agreement made the third day of June two usand and two.	5 6
BET	TWEEN	7
TH	E COMMONWEALTH OF AUSTRALIA (the "Commonwealth")	8
TH	E STATE OF NEW SOUTH WALES ("New South Wales")	9
TH	E STATE OF VICTORIA ("Victoria")	10
TH	E STATE OF SOUTH AUSTRALIA ("South Australia")	11
Aus ratif	IEREAS on 24 June 1992 the Commonwealth, New South Wales, South tralia and Victoria entered into the Murray-Darling Basin Agreement which was fied by the Parliament of the Commonwealth and the Parliaments of the said es and subsequently amended (the "Principal Agreement");	12 13 14 15
the S	D WHEREAS under the provisions of clause 134 of the Principal Agreement State of Queensland ("Queensland") became a party to the Principal Agreement he terms and conditions set out in Schedule D to the Principal Agreement;	16 17 18
	D WHEREAS clause 3 of Schedule D provides that certain provisions of the cipal Agreement do not apply to Queensland;	19 20
	D WHEREAS the Commonwealth, New South Wales, South Australia and toria wish to:	21 22
	amend certain provisions of the Principal Agreement which do not apply to Queensland; and	23 24
	add a further Schedule G to the Principal Agreement, which will not apply to Queensland,	25 26
	nake new arrangements for sharing water made available in the River Murray hment above Hume Dam by the Snowy Scheme;	27 28

THE	PAR	TIES AGREE AS FOLLOWS	1
(1)		he following clauses of this Agreement, "the Agreement" means the neipal Agreement.	2 3
(2)	Cla	use 2 of the Agreement is amended—	4
	(a)	by omitting the definition of "Authority";	5
	(b)	by inserting the following definition—	6
		"natural flow" means the quantity of water that would have flowed in a river past a particular point in a particular period but for the effect during that period of diversions to or from, and impoundments on, the river upstream of that point;";	7 8 9 10
	(c)	by omitting the definition of "period of restriction"; and	11
	(d)	by omitting the definition of "Snowy Mountains Agreement".	12
(3)		use 46 of the Agreement is amended by adding the following -clause—	13 14
		"(4) Despite sub-clause 46(3), sub-clauses 46(1) and 46(2) apply to any proposal referred to in clause 24 of Schedule G.".	15 16
(4)	Cla	use 91 of the Agreement is amended as follows—	17
	(a)	by omitting paragraph (b) of sub-clause (1) and inserting the following paragraph in its stead—	18 19
		"(b) half the natural flow at Doctors Point;"; and	20
	(b)	by deleting from paragraph (c) of sub-clause (1) the word "and"; and	21
	(c)	by inserting in paragraph (d) of sub-clause (1), after the word "Point" the word "and"; and	22 23
	(d)	by adding to sub-clause (1) a paragraph—	24
		"(e) half of the volume of water calculated in accordance with clause 8 of Schedule G.".	25 26
(5)	Cla	use 98 of the Agreement is amended—	27
	(a)	by omitting paragraph (d) and inserting the following paragraph in its stead—	28 29
		"(d) the estimated natural flow of the River Murray at Doctors Point before the end of the following May;"; and	30 31 32

	(b)	by on stead-	nitting p —	paragraph (e) and inserting the following paragraph in its	1 2
		sicua	"(e)	water calculated in accordance with clause 9 of Schedule G;".	3 4
(6)				Agreement is amended by omitting sub-clause (1) and wing sub-clause in its stead—	5 6
		"(1)	In res	pect of any period—	7
		` ,	(a)	the natural flow of the River Murray at Doctors Point; and	8 9
			(b)	the volume of water calculated in accordance with clause 10 of Schedule G,	10 11
				be allocated between New South Wales and Victoria as ded in sub-clause 103(2).".	12 13
(7)	Clau	ıse 105	of the	Agreement is amended—	14
	(a)	by ins	erting t	the number "(1)" after the number "105"; and	15
	(b)	by add	ding the	e following sub-clauses—	16
		"(2)		olume of water calculated in accordance with sub-clause of Schedule G is allocated to New South Wales.	17 18
		(3)		olume of water calculated in accordance with sub-clause of Schedule G is allocated to Victoria.".	19 20
(8)		use 106 s stead		Agreement is omitted and the following clause inserted	21 22
	"100	6.		South Wales and Victoria are respectively deemed to use nantity of water—	23 24
			(a)	diverted from the upper River Murray by an offtake under the jurisdiction of that State, unless the Commission determines otherwise; and	25 26 27
			(b)	calculated under sub-clause 12(1) of Schedule G, in the case of New South Wales; and	28 29
			(c)	calculated under sub-clause 12(2) of Schedule G, in the case of Victoria.".	30 31
(9)	Clau	ıse 107	of the	Agreement is omitted.	32
(10)				Agreement is omitted.	33
(11)	Clau	ıse 122	of the	Agreement is amended by omitting sub-clause (3).	34

Amendments

					
(12)	Part th		MOUN	nt is amended by omitting from the heading of that NTAINS AGREEMENT" and inserting in their ME".	1 2 3
(13)	Clause its stea		Agreeı	ment is deleted and the following clause inserted in	4 5
	"132	New Sthe Sr	South Sowy S	Wales and Victoria of water made available from Scheme for the purposes of this Agreement, in the out in Schedule G.".	6 7 8 9
(14)	The A Sched		amenc	led by inserting after Schedule F the following new	10 11
				SCHEDULE G	12
			EFF	ECT OF SNOWY SCHEME	13
			P	ART I: PRELIMINARY	14
	1.	Purpose			15
		sharir Victo	ig bet ria of	e of this Schedule is to make arrangements for ween New South Wales, South Australia and water made available in the catchment of River we Hume Dam by the Snowy Scheme.	16 17 18 19
	2.	Definition	5		20
		In this	s Sche	dule:	21
		(1)	"Bas	eline Conditions" means:	22
			(a)	the infrastructure supplying water;	23
			(b)	the rules for allocating water and for water management systems applying;	24 25
			(c)	the operating efficiency of water management systems; and	26 27

Schedule 1

	(d) existing entitlements to take and use water and the extent to which those entitlements were used,	1 2 3
	within the Murray-Darling Basin as at the Corporatisation Date;	4 5
(2)	"Corporatisation Date" means the date on which the Snowy Mountains Hydro-electric Power Act 1949 (Cth) is repealed by the Snowy Hydro Corporatisation Act 1997 (Cth);	6 7 8 9
(3)	"Environmental Entitlement" means:	10
	(a) a category of environmental water referred to in section 8 of the Water Management Act 2000 (NSW); and	11 12 13
	(b) a bulk entitlement granted under the Water Act 1989 (Vic) that includes conditions relating to environmental purposes;	14 15 16
	in both cases comprising a volume of water derived from either or both of Water Savings and Water Entitlements;	17 18 19
(4)	"Goulburn River System" means the Broken, Goulburn, Campaspe and Loddon Rivers and the water supply systems supplied by those rivers;	20 21 22
(5)	"Licensee" means the licensee under the Snowy Water Licence;	23 24
(6)	"Long Term Diversion Cap" means the long term diversion cap for the State of New South Wales or the State of Victoria under clauses 4 and 5 respectively of Schedule F;	25 26 27 28
(7)	"Lower Darling River System" means the Darling River and its anabranch system from the upstream extent of the Menindee Lakes Storage and downstream and the water supply systems supplied by that River;	29 30 31 32
(8)	"Month" means calendar month and "Monthly" means each calendar month;	33 34

(9)	"Mowamba Borrowings Account" means the water	1
	account to be maintained by the Licensee under the	2
	Snowy Water Licence to account for flows made under	3
	the Snowy Water Licence from the Mowamba River	4
	and Cobbon Creek in the first three years after the	5
	Corporatisation Date;	6
(10)	"Murrumbidgee River System" means the	7
	Murrumbidgee River and the water supply systems	8
	supplied by that river;	9
(11)	"Relaxation Volume" has the same meaning as in the	10
` /	Snowy Water Licence as at the Corporatisation Date;	11
(12)	•	10
(12)	"Reliability" with respect to a supply of water means the statistical probability of being able to supply a	12
	particular volume in any Water Year;	13
	•	14
(13)	"Required Annual Release" has the same meaning as	15
	in the Snowy Water Licence taken as a whole as at the	16
	Corporatisation Date. For the avoidance of doubt,	17
	"Required Annual Release" is not a reference to	18
	"Agreed Annual Release" under that Licence and a	19
	change to the Snowy Water Licence after the	20
	Corporatisation Date will not affect the calculation of	21
	Required Annual Releases for the purposes of this	22
	Schedule;	23
(14)	"Required Annual Release Shortfall" means, in any	24
` /	Water Year, the volume by which the Required Annual	25
	Release from the Snowy-Murray Development in that	26
	Water Year exceeds the actual release from the Snowy	27
	Scheme to the catchment of the River Murray upstream	28
	of Hume Dam in that Water Year;	29
(15)	"River Murray Above Target Releases" means, in any	30
(13)	Water Year, water that is released from the Snowy	31
	Scheme to the catchment of the River Murray upstream	32
	of Hume Dam in excess of the Required Annual	33
	Release from the Snowy-Murray Development in that	34
	Water Year:	35
	···	55

(16)	"River Murray Annual Allocation" with respect to each Water Year means the annual allocation from the River Murray Apportioned Entitlement determined by New South Wales;	1 2 3 4
(17)	"River Murray Apportioned Entitlement" means the volume of water from the Environmental Entitlements that is apportioned to the River Murray Increased Flows by New South Wales;	5 6 7 8
(18)	"River Murray Increased Flows" means releases of water from major storages made by the Commission in accordance with Part V of this Schedule;	9 10 11
(19)	"River Murray Increased Flows Accounts" means the water accounts to be maintained by the Commission under clause 21 of this Schedule;	12 13 14
(20)	"River Murray Increased Flows in Commission Storages Account" means the water account to be maintained by the Commission under paragraph 21(1)(b) of this Schedule;	15 16 17 18
(21)	"River Murray System" means the aggregate of:	19
	(a) the River Murray;	20
	(b) all tributaries entering the River Murray upstream of Doctors Point;	21 22
	(c) the Ovens River; and	23
	(d) the Lower Darling River System;	24
(22)	"Seasonal Availability" with respect to the water to which an entitlement refers means:	25 26
	(a) for that part of the entitlement whose availability	27
	is determined by reference to seasonal	28
	allocations: the final seasonal allocation	29
	announcement of the relevant State during the previous Water Year; and	30 31
	(b) for that part of the entitlement whose availability	32
	is determined by reference to the entitlement of	33
	South Australia: the allocated volume received	34
	during the previous Water Year by South	35
	Australia as a proportion of its entitlement	36
	during that Water Year under this Agreement;	37

Amendments	Schedule 1
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(23)	"Snowy Montane Rivers External Increased Flows"	1
	means releases of water made by the Licensee to	2
	montane rivers under the environmental flow	3
	requirements of the Snowy Water Licence which would	4
	have flowed through either:	5
	(a) the Murray 1 Power Station in the case of the	6
	Snowy-Murray Development; or	7
	(b) Jounama Pondage in the case of the	8
	Snowy-Tumut Development,	9
	if it were not released for environmental purposes;	10
(24)	"Snowy-Murray Development" means the component	11
	of the Snowy Scheme comprising works that regulate	12
	the waters of the Upper Snowy River, the Geehi River	13
	and Bogong Creek;	14
(25)	"Snowy-Murray Development Annual Allocation"	15
` ′	means the annual allocation for any Water Year for the	16
	Snowy-Murray Development determined by New South	17
	Wales by reference to the Seasonal Availability of the	18
	water contained in the Snowy-Murray Development	19
	Designated Entitlement;	20
(26)	"Snowy-Murray Development Designated	21
	Entitlement" means that part of the Environmental	22
	Entitlements designated against the Snowy-Murray	23
	Development by New South Wales;	24
(27)	"Snowy-Murray Development (River Murray)	25
, ,	Environmental Entitlements" means both:	26
	(a) a category of environmental water referred to in	27
	section 8 of the Water Management Act 2000	28
	(NSW); and	29
	(b) a bulk entitlement granted under the Water	30
	Act 1989 (Vic) that includes conditions relating	31
	to the protection of the environment,	32
	in both cases comprising a volume of water derived	33
	from either or both of Water Savings and Water	34
	Entitlements sourced from the River Murray System or	35
	the Goulburn River System;	36

(28)	"Snowy Notional Spill" means:	1
	(a) in the case of the Snowy-Murray	2
	Development: the calculated active volume of	3
	water belonging to the Snowy-Murray	4
	Development stored in Eucumbene Reservoir	5
	exceeding 2,019 GL and accounted as a loss	6
	from the Snowy-Murray Development and a	7
	gain to the Snowy-Tumut Development;	8
	(b) in the case of Snowy-Tumut Development: the	9
	calculated active volume of water belonging to	10
	the Snowy-Tumut Development stored in	11
	Eucumbene Reservoir exceeding 2,348 GL and	12
	accounted as a loss from the Snowy-Tumut	13
	Development and a gain to the Snowy-Murray	14
	Development;	15
(29)	"Snowy River" means the Snowy River downstream of	16
` ′	Jindabyne Dam;	17
(30)	"Snowy River Annual Allocation" means the annual	18
, ,	allocation from the Snowy River Apportioned	19
	Entitlement for any Water Year, determined by New	20
	South Wales;	21
(31)	"Snowy River Apportioned Entitlement" means the	22
	volume of water from the Environmental Entitlements	23
	apportioned to environmental flows from the Snowy	24
	Scheme to the Snowy River, by New South Wales;	25
(32)	"Snowy Scheme" means the dams, tunnels, power	26
	stations, aqueducts and other structures that comprise	27
	the Snowy-Murray Development and the Snowy-Tumut	28
	Development, that together are known as the Snowy	29
	Mountains Hydro-electric Scheme;	30
(33)	"Snowy-Tumut Development" means the component	31
	of the Snowy Scheme comprising works that regulate	32
	the waters of the Eucumbene River, the Tooma River,	33
	the Upper Murrumbidgee River and the Upper Tumut	34
	River;	35

(34)	"Snowy-Tumut Development Annual Allocation" with respect to each Water Year means the annual allocation	1 2
	for the Snowy-Tumut Development determined by New	3
	South Wales by reference to the Seasonal Availability of	4
	the water contained in the Snowy-Tumut Development	5
	Designated Entitlement;	6
(35)	"Snowy-Tumut Development Designated	7
	Entitlement" means that part of the Environmental	8
	Entitlements designated against the Snowy-Tumut	9
	Development by New South Wales;	10
(36)	"Snowy Water Licence" means the licence issued	11
	under Part 5 of the Snowy Hydro Corporatisation	12
	Act 1997 (NSW);	13
(37)	"Strategy" means the strategy for retaining and	14
	releasing River Murray Increased Flows determined	15
	under paragraph 20(1)(a) of this Schedule;	16
(38)	"Translation Factors" means the translation factors	17
	used to convert Water Savings and Water Entitlements	18
	into an Environmental Entitlement with specified	19
	Reliability;	20
(39)	"Upper Snowy River" means the Snowy River	21
	upstream of Jindabyne Dam (including the Mowamba	22
	River and the Cobbon Creek) but excluding the	23
	Eucumbene River;	24
(40)	"Water Entitlement" means:	25
	(a) an access licence granted under the Water	26
	Management Act 2000 (NSW); and	27
	(b) a water right, licence to take and use water or	28
	bulk entitlement under the Water Act 1989	29
	(Vic) together with any transferable allocation of	30
	sales water made to the holder of such a water	31
	right or licence,	32
	in either case purchased for the purpose of achieving	33
	either or both of:	34
	(c) environmental flows from the Snowy Scheme;	35
	and	36
	(d) River Murray Increased Flows;	37

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(41)	Entitlement,	rket" means, with respect to a Water the market from which the relevant Water	1 2
	Entitlement i	s drawn;	3
(42)		ings" means the volume of water saved or more projects that saves water:	4 5
	•	ducing transmission losses, evaporation or ninefficiencies; or	6 7
	` ′	achieving either or both of water gement and environmental improvements,	8 9
	or both of	s from the River Murray System and either Murrumbidgee River System and the ver System for the purpose of achieving:	10 11 12
	(c) enviro	onmental flows from the Snowy Scheme;	13 14
	(d) River	Murray Increased Flows;	15
(43)		ar" means the period of 12 Months on 1 May in each year.	16 17
PART	II: CALCUL	ATING WATER VOLUMES	18
3. The Snowy	y Scheme And	l The River Murray	19
, ,	s Agreement, 'lopment' mea	"Water Available to the Snowy-Murray ns:	20 21
		Water of the Upper Snowy River regulated by the Snowy Scheme	22 23
	PLUS	water of the Geehi River and Bogong Creek regulated by the Snowy Scheme	24 25
	PLUS	any Snowy Notional Spill from the Snowy-Tumut Development to the Snowy-Murray Development	26 27 28
	PLUS	the transfer from the Snowy-Tumut Development to the Snowy-Murray Development of the Snowy-Tumut Development Annual Allocation	29 30 31 32

Schedule 1 Amendments

	PLUS	4.5 GL per Water Year transferred from the Snowy-Tumut Development to the	1 2
		Snowy-Murray Development	3
	PLUS	half of the balance of the Mowamba	4
		Borrowings Account	5
	MINUS	any Snowy Notional Spill from the	6
		Snowy-Murray Development to the	7
		Snowy-Tumut Development.	8
	(2) In this Agreeme	ent, "Net Snowy-Murray Development	9
	Diversions to the	River Murray" means the volume of water	10
	calculated as follo	ows:	11
		Water Available to the Snowy-Murray	12
		Development released by the Snowy	13
		Scheme to the catchment of the River	14
		Murray upstream of Hume Dam	15
	MINUS	the water of the Tooma River regulated	16
		by the Snowy Scheme	17
	MINUS	the natural flows of the Geehi River and	18
		Bogong Creek regulated by the Snowy	19
		Scheme.	20
		t, "Murray to Murrumbidgee Inter-Valley	21
		s the volume of Water Available to the	22
		evelopment released by the Snowy Scheme	23
	to the catchinent (of the Murrumbidgee River.	24
4.	The Snowy Scheme A	nd The Murrumbidgee River	25
	(1) In this Agreemen	t, "Water Available to the Snowy-Tumut	26
	Development'' me	eans:	27
		The water of the Eucumbene River, the	28
		Tooma River, the Upper Murrumbidgee	29
		River and the Upper Tumut River	30
		regulated by the Snowy Scheme	31
	PLUS	any Snowy Notional Spill from the	32
		Snowy-Murray Development to the	33
		Snowy-Tumut Development	34

34

	MINUS	half of the balance of the Mowamba Borrowings Account	1 2
	MINUS	any Snowy Notional Spill from the	3
		Snowy-Tumut Development to the	4
		Snowy-Murray Development	5
	MINUS	the transfer from the Snowy-Tumut	6
		Development to the Snowy-Murray	7
		Development of the Snowy-Tumut	8
		Development Annual Allocation	9
	MINUS	4.5 GL per Water Year transferred from	10
		the Snowy-Tumut Development to the	11
		Snowy-Murray Development.	12
	(2) In this Agreement, "	'Murrumbidgee to Murray Inter-Valley	13
	Transfer' means the volume of Water Available to the		
	Snowy-Tumut Deve	elopment released by the Snowy Scheme to	15
		e River Murray upstream of Hume Dam.	16
5.	5. Excess Snowy River Releases		
	In this Agreement, "	Excess Snowy River Releases" means the	18
	greater of zero and t	the volume of water calculated as follows:	19
		The regulated releases made to the	20
		Snowy River in the relevant Water Year,	21
		measured immediately below the	22
		confluence of the Snowy River and the	23
		Mowamba River	24
	MINUS	9 GL	25
	MINUS	the Snowy River Annual Allocation in	26
		the relevant Water Year	27
	MINUS	the change in the balance of the	28
		Mowamba Borrowings Account during	29
		the relevant Water Year.	30

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6.	Snowy River Release Sh	nortfalls	1
		"Snowy River Release Shortfalls" means and the volume of water calculated as	2 3 4
		The Snowy River Annual Allocation in the relevant Water Year	5 6
	PLUS	9 GL	7
	PLUS	the change in the balance of the Mowamba Borrowings Account from the commencement to the end of the relevant Water Year	8 9 10 11
	MINUS	the regulated releases made to the Snowy River in the relevant Water Year, measured immediately below the confluence of the Snowy River and the Mowamba River.	12 13 14 15
7.	Accounting For Water	Releases	17
	For the purposes of this Agreement, water releases from the Snowy-Murray Development to the catchment of the River Murray upstream of Hume Dam are to be accounted as:		
	(1) water release	es as at Murray 1 Power Station; and	21
		at would have passed through the Murray 1 on but does not:	22 23
	(a) for o	perational reasons; or	24
	, ,	use it is released from the Snowy Scheme as yy Montane Rivers External Increased s,	25 26 27
	and that flow upstream of	vs into the catchment of the River Murray Hume Dam.	28 29

PART III: WATER ACCOUNTING

8.	Entitlements Of New S	outh Wales And Victoria To Use Water	2		
0.	· ·	ter referred to in paragraph 91(1)(e) of the	2 3		
	Agreement is calculated as follows:				
	-	The Net Snowy-Murray Development Diversions to the River Murray	5 6		
	PLUS	Murray to Murrumbidgee Inter-Valley Transfers	7		
	PLUS	the Required Annual Release Shortfall	9		
	PLUS	the Snowy-Murray Development Annual Allocation	10 11		
	PLUS	Excess Snowy River Releases in excess of the volume of the Snowy River Release Shortfall in the previous Water Year	12 13 14 15		
	MINUS	At the discretion of the Commission, Murrumbidgee to Murray Inter-Valley Transfers	16 17 18		
	MINUS	the Required Annual Release Shortfall from the previous Water Year	19 20		
	MINUS	River Murray Above Target Releases allocated to the River Murray Increased Flows received by Hume Reservoir.	21 22 23		
9.	Water Estimated To Be	Under The Control Of The Commission	24		
	Water referred to in paragraph 98(e) of the Agreement is estimated as follows:				
		The Net Snowy-Murray Development Diversions to the River Murray	27 28		
	PLUS	Murray to Murrumbidgee Inter-Valley Transfers	29 30		
	PLUS	the Required Annual Release Shortfall	31		
	PLUS	the Snowy-Murray Development Annual Allocation	32 33		

PLUS	Excess Snowy River Releases in excess	1
	of the volume of the Snowy River	2
	Release Shortfall in the previous Water	3
	Year	4
MINUS	at the discretion of the Commission,	5
	Murrumbidgee to Murray Inter-Valley	6
	Transfers	7
MINUS	the Required Annual Release Shortfall	8
	from the previous Water Year	9
MINUS	River Murray Above Target Releases	10
	allocated to the River Murray Increased	11
	Flows received by Hume Reservoir,	12
in each case before	the end of the following May.	13
10. Allocation of Water to	New South Wales and Victoria	14
·	ter referred to in paragraph 103(1)(b) of the	15
Agreement is calcu		16
rigicement is carea		
	The Net Snowy-Murray Development Diversions to the River Murray	17 18
DITIC	•	
PLUS	Murray to Murrumbidgee Inter-Valley Transfers	19
DI LIG		20
PLUS	the Required Annual Release Shortfall	21
PLUS	the Snowy-Murray Development Annual	22
	Allocation	23
PLUS	Excess Snowy River Releases in excess	24
	of the volume of the Snowy River	25
	Release Shortfall in the previous Water	26
	Year	27
MINUS	at the discretion of the Commission,	28
	Murrumbidgee to Murray Inter-Valley	29
	Transfers	30
MINUS	the Required Annual Release Shortfall	31
	from the previous Water Year	32
MINUS	River Murray Above Target Releases	33
	allocated to the River Murray Increased	34
	Flows received by Hume Reservoir.	35
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11.	Trib	outary Inflows		1
	(1)	The volume of water Agreement is calcul	er referred to in sub-clause 105(2) of the ated as follows:	2 3
			The component of the Required Annual Release Shortfall from the previous	4 5
			Water Year allocated to New South	6
			Wales under sub-clause 13(2) of this	7
			Schedule	8
		PLUS	half of the River Murray Above Target	9
			Releases allocated to the River Murray	10
			Increased Flows received by Hume	11
			Reservoir	12
		PLUS	half of the Excess Snowy River Release	13
			up to the volume of half of the Snowy	14
			River Release Shortfall in the previous	15
			Water Year for which an adjustment was made under sub-clauses 11(2) and 12(1)	16 17
			of this Schedule in the previous Water	18
			Year	19
		PLUS	at the discretion of the Commission,	20
			Murrumbidgee to Murray Inter-Valley	21
			Transfers.	22
	(2)	(2) The volume of water referred to in sub-clause 105(3) of the		
	Agreement is calculated as follows:			24
			The component of the Required Annual	25
			Release Shortfall from the previous	26
			Water Year allocated to Victoria under	27
			sub-clause 13(2) of this Schedule	28
		PLUS	half of the River Murray Above Target	29
			Releases allocated to the River Murray	30
			Increased Flows received by Hume Reservoir	31
		DI LIG		32
		PLUS	half of the Snowy River Release	33
			Shortfall, unless Victoria has previously advised the Commission that Victoria	34 35
			waives this element of its allocation in	36
			any Water Year.	37
			-	

12.	Use By New South Wo	ales And Victoria Of Allocated Water	1	
	(1) The quantity of w Agreement is calc	vater referred to in paragraph 106(b) of the	2 3	
	1 Igroomone is care		4	
		Murray to Murrumbidgee Inter-Valley Transfers	5	
	DITIO	1101101010		
	PLUS	Excess Snowy River Releases in excess	6	
		of the volume of the Snowy River Release Shortfall in the previous Water	7	
		Year	8	
	PLUS			
	ILUS	the Snowy-Murray Development Annual Allocation sourced from New South	10 11	
		Wales	12	
	PLUS	the component of the Required Annual	13	
		Release Shortfall allocated to New South	14	
		Wales under sub-clause 13(1) of this	15	
		Schedule	16	
	PLUS	unless otherwise agreed with Victoria,	17	
		half of the Snowy River Release	18	
		Shortfall.	19	
	(2) The quantity of water referred to in paragraph 106(c) of the Agreement is calculated as follows:			
		The Snowy-Murray Development	22	
		Annual Allocation sourced from Victoria	23	
	PLUS	the component of the Required Annual	24	
		Release Shortfall allocated to Victoria	25	
		under sub-clause 13(1) of this Schedule	26	
	PLUS	half of the Excess Snowy River Release	27	
		up to the volume of half of the Snowy	28	
		River Release Shortfall in the previous	29	
		Water Year for which an adjustment was	30	
		made under sub-clauses 11(2) and 12(1)	31	
		of this Schedule in the previous Water	32	
		Year, (such adjustments to reflect any	33	
		waiver or agreement with Victoria as	34	
		referred to in those sub-clauses).	35	

13. Required Annual Release Shortfalls

(1) If at the end of a Water Year there is a Required Annual Release Shortfall, the Required Annual Release Shortfall is to be accounted for by the Commission in accordance with Table One.

TABLE ONE: WATER ACCOUNTING AND REQUIRED ANNUAL RELEASE SHORTFALLS

TYPE OF WATER YEAR	ARRANGEMENT WITH RESPECT TO REQUIRED ANNUAL RELEASE SHORTFALL	WATER ACCOUNTING OUTCOMES
Water Year during which a period of special accounting is	Victoria agrees to the Required Annual Release Shortfall	New South Wales and Victoria deemed to each have used the Required Annual Release Shortfall as agreed
not in effect	Victoria does not agree to the Required Annual Release Shortfall	New South Wales deemed to have used the whole of the Required Annual Release Shortfall
Water Year during which a period of special accounting is in	Victoria and the Commission agree to the Required Annual Release Shortfall	New South Wales and Victoria deemed to each have used the Required Annual Release Shortfall as agreed
effect	The Commission does not agree to the Required Annual Release Shortfall	New South Wales deemed to have used the whole of the Required Annual Release Shortfall

(2) The volume of any Required Annual Release Shortfall from the previous Water Year must be allocated equally between New South Wales and Victoria until the balance of Required Annual Release Shortfalls for either State is zero and thereafter wholly to the other State.

Amendments	Schedule 1

Oth	er Wate	er Accounting Provisions	1		
(1)			2 3		
			4		
			5		
(2)	Where	under this Schedule the Commission is required to	6		
			7		
			8 9		
		balance of the Water Year in which New South Wales notifies			
	the Co	mmission of the relevant inter-valley transfer.	10		
(3)			11		
	allocat	ed half to New South Wales and half to Victoria.	12		
			13		
			14		
M	URRA	Y) ENVIRONMENTAL ENTITLEMENTS	15		
			16		
Tra	nslation	n Factors	17		
(1)			18		
			20		
	betwee	en each of them and the Commission.	22		
(2)	New S	South Wales, Victoria and the Commission must ensure	23		
	that:		24		
	(a)	the Translation Factors are determined in a manner	25		
			26		
			27		
			28		
		and	29		
	(b)	the use of Translation Factors to transfer Water Savings	30		
		A STATE TO CALL THE STATE OF TH			
		and Water Entitlements to a Snowy-Murray	31		
		Development (River Murray) Environmental	31 32		
	(1) (2) (3) PAR' M Tra (1)	(1) Where adjust Develor adjusts Develor adjusts (2) Where adjusts make to balance the Co. (3) Each allocate PART IV: S. MURRA Translation (1) New S. Savin Snowy Entitle between (2) New S. that: (a)	the Commission of the relevant inter-valley transfer. (3) Each release of River Murray Increased Flows must be allocated half to New South Wales and half to Victoria. PART IV: SNOWY-MURRAY DEVELOPMENT (RIVER MURRAY) ENVIRONMENTAL ENTITLEMENTS Translation Factors (1) New South Wales and Victoria must each transfer Water Savings and Water Entitlements to its respective Snowy-Murray Development (River Murray) Environmental Entitlement in accordance with Translation Factors agreed between each of them and the Commission. (2) New South Wales, Victoria and the Commission must ensure that: (a) the Translation Factors are determined in a manner consistent with the principles used to determine exchange rates in the relevant Water Market at the time of each transfer under sub-clause 18(2) of this Schedule; and (b) the use of Translation Factors to transfer Water Savings		

		(i)	the level of Reliability of entitlements to water diverted from the River Murray System, the Murrumbidgee River System and the Goulburn River System;	1 2 3 4
		(ii)	the environmental benefits related to the quantity and timing of water flows for environmental purposes in the River Murray System, the Murrumbidgee River System and the Goulburn River System;	5 6 7 8 9
		(iii)	the Seasonal Availability of the entitlement to be received during that Water Year by South Australia under this Agreement; and	10 11 12
		(iv)	water quality in the River Murray in South Australia.	13 14
16.	Apportion	ment O	f Environmental Entitlements	15
		each E	Vales and Victoria must notify the Commission of nvironmental Entitlement has been apportioned	16 17 18
	(1)	the Sr	nowy River Apportioned Entitlement; and	19
	(2)	the Ri	ver Murray Apportioned Entitlement.	20
17.	Valley Acc	counts		21
	If:			22
	(1)	Water	South Wales or Victoria transfers either or both of Savings and Water Entitlements to an onmental Entitlement; and	23 24 25
	(2)		urce of that water is from a valley for which the nission maintains a valley account,	26 27
	the Co requir	ommiss red to b	Vales or Victoria (as the case may be) must notify ion of the volume and reliability of the entitlement e added to the relevant valley account to generate nental Entitlement.	28 29 30 31

Amendments	Schedule 1

18.	Long Term Diversion Caps					
	(1)	Prior to New South Wales or Victoria transferring either or both of Water Savings and Water Entitlements to an Environmental Entitlement, the relevant State must calculate	2 3 4			
		the equivalent volume by which its Long Term Diversion Cap must be reduced.	5			
	(2)	If New South Wales or Victoria transfers either or both of Water Savings and Water Entitlements to an Environmental	7			
		Entitlement, at the same time the relevant State must advise the	9			
		Commission of its calculation as to the volume by which its	10			
		Long Term Diversion Cap must be reduced.	11			
	(3)		12			
		calculation advised under sub-clause 18(2), it must recommend	13			
		to the Ministerial Council that the relevant Long Term Diversion Cap be amended in accordance with the calculation.	14 15			
	(4)	If the Commission is not satisfied with the appropriateness of	16			
		a calculation advised under sub-clause 18(2), the Commission				
		must arrange for the relevant volume referred to in sub-clause	18			
	(5)	18(1) to be re-calculated in consultation with the relevant State.	19			
	(5)	If a majority of the Commissioners is satisfied with the appropriateness of a calculation made under sub-clause 18(4),	20 21			
		the Commission must recommend to the Ministerial Council	22			
		that the relevant Long Term Diversion Cap be amended in	23			
		accordance with the calculation.	24			
	(6)	Despite paragraph 8(b) of Schedule F, the Ministerial Council	25			
		must amend a Long Term Diversion Cap in accordance with	26			
		any recommendation made by the Commission under	27			
		sub-clause 18(3) or 18(5).	28 29			
	PART V: RIVER MURRAY INCREASED FLOWS					
			30			
19.	Obl Flo	ligation Of Commission To Make River Murray Increased ws	32 33			
		Subject to this Part, the Commission must release River Murray Increased Flows.	34 35			

20.			ental Objectives And Strategy For River Murray Flows	1 2
	(1)		re the commencement of the second complete Water Year the Corporatisation Date, the Ministerial Council must mine:	3 4 5
		(a)	a strategy for retaining and releasing River Murray Increased Flows to be implemented by the Commission; and	6 7 8
		(b)	the environmental objectives for the River Murray Increased Flows,	9 10
		in acc	cordance with the provisions of this clause.	11
	(2)	The S	Strategy:	12
		(a)	must include a provision to the effect that River Murray Increased Flows have first priority from River Murray Above Target Releases;	13 14 15
		(b)	may provide that water credited to the River Murray Increased Flows in Commission Storages Account need not be released during the Water Year in which it is credited;	16 17 18 19
		(c)	unless the Ministerial Council otherwise determines, must not have a significant adverse impact upon the security of entitlements to water;	20 21 22
		(d)	must integrate the environmental objectives for the River Murray Increased Flows with other environmental initiatives on the River Murray;	23 24 25
		(e)	must include adaptive management principles to allow the ability to optimise environmental benefits; and	26 27
		(f)	must prescribe appropriate environmental reporting and monitoring conditions.	28 29
	(3)		Ministerial Council must determine the environmental tives and Strategy in accordance with the following iples:	30 31 32
		(a)	Natural diversity of habitats and biota within the river channel, riparian zone and the floodplain should be maintained or enhanced.	33 34 35

		(b) Natural linkages between the river and the floodplain should be maintained or enhanced.	1 2
		(c) Natural metabolic functioning of aquatic ecosystems should be maintained or enhanced.	3 4
		(d) Elements of the natural flow regime, in particular, seasonality should be retained or enhanced as far as possible, in the interests of conserving a niche for native rather than invasive exotic species and in maintaining the natural functions of the river.	5 6 7 8 9
		(e) Consistent and constant flow and water level regimes should be avoided where practical, as this is contrary to the naturally variable flow regime of the River Murray.	10 11 12
		(f) The general principles of ecosystem services should be recognised.	13 14
		(g) Environmental benefit should be optimised.	15
	(4)	The Ministerial Council may from time to time by resolution amend the environmental objectives and the Strategy.	16 17
	(5)	As soon as practicable after the end of each Water Year, the Commission must report to the Contracting Governments on the environmental outcomes of the River Murray Increased Flows during that Water Year, in the light of the objectives determined by the Ministerial Council for those Increased Flows.	18 19 20 21 22 23
21.		mmission To Maintain River Murray Increased Flows counts	24 25
	(1)	The Commission must maintain continuous water accounts of the River Murray Increased Flows to be known as:	26 27
		(a) the Initial River Murray Increased Flows Account; and	28
		(b) the River Murray Increased Flows in Commission Storages Account.	29 30
	(2)	The Commission must:	31
		 (a) credit the Initial River Murray Increased Flows Account with the River Murray Annual Allocation notified by New South Wales; 	32 33 34

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	(b)	transfer from the Initial River Murray Increased Flows Account to the River Murray Increased Flows in Commission Storages Account, River Murray Above Target Releases allocated to the River Murray Increased Flows in accordance with the Strategy;	1 2 3 4 5
	(c)	record in the River Murray Increased Flows in Commission Storages Account the transfer of water in that account between Commission storages; and	6 7 8
	(d)	record in the River Murray Increased Flows in Commission Storages Account the release of River Murray Increased Flows from Commission storages.	9 10 11
	inde	River Murray Increased Flows Accounts must be ependently audited unless the Commission by resolution ares otherwise.	12 13 14
	Con	soon as practicable after the completion of each audit, the nmission must send a copy of the audited River Murray eased Flows Accounts to the Contracting Governments.	15 16 17
22.	Impleme	nting the Strategy	18
		Commission must commence to implement the Strategy on later of:	19 20
	(1)	the beginning of the second complete Water Year occurring after the Corporatisation Date; and	21 22
	(2)	the receipt by Hume Reservoir from the Snowy Scheme of River Murray Above Target Releases allocated to the River Murray Increased Flows.	23 24 25
23.	Binding	Effect of Strategy	26
	Des mus	pite any other provision in this Agreement, the Commission at:	27 28
	(1)	allocate River Murray Above Target Releases to the River Murray Increased Flows Accounts; and	29 30
	(2)	manage the water in and releases of water from the River Murray Increased Flows in Commission Storages Account,	31 32 33
	in a	ccordance with the Strategy.	34 35

PAR	T VI	: NOT	IFICATION AND CONSULTATION PROVISIONS	1 2
24.	Con	nmissio	on To Be Informed Of New Proposals	3
			ontracting Government must inform the Commission of proposal:	4 5
		(1)	to achieve Water Savings or to purchase Water Entitlements for the purpose of transferring those Water Savings or Water Entitlements to the Environmental Entitlements; or	6 7 8 9
		(2)	to modify the reliability of a supply of water pursuant to an Environmental Entitlement,	10 11
		in acc	cordance with sub-clause 46(4) of the Agreement.	12
25.	Sno	wy Sch	heme Annual Water Operating Plan	13
	(1)	Snow New S the L Comr	parties acknowledge that as a result of provisions in the ry Water Licence and a deed between the Commonwealth, South Wales and Victoria as at the Corporatisation Date, icensee is bound to consult with others, including the mission, while developing each Annual Water Operating and any variation to each Plan.	14 15 16 17 18
	(2)	The C	Commonwealth, New South Wales and Victoria must:	20
		(a)	ensure the direct participation by the Commission in each consultation referred to in sub-clause 25(1) or held under any varied consultation arrangements; and	21 22 23
		(b)	consult with the Commission before varying existing consultation arrangements.	24 25
26.	Not	ificatio	ons Required	26
	(1)	the Co	Contracting Government must, at the time specified by ommission, notify the Commission of such water volumes stimates as are reasonably requested by the Commission able it to make calculations referred to in this Schedule.	27 28 29 30
	(2)	Wales	Commission must, at any time specified by New South s, notify New South Wales of such water volumes and ates calculated by the Commission by reference to the	31 32 33

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		Baseline Conditions as are reasonably requested by New South Wales, to enable New South Wales to calculate the Required Annual Release.	1 2 3
		PART VII: ANALYTICAL MODELS	4 5 6
27.	Dev	eloping Analytical Models	7
	(1)	The Commission must develop an analytical model for determining, in the case of the River Murray System:	8 9
		(a) storage volumes; and	10
		(b) total diversions,	11
		that would have occurred under Baseline Conditions.	12
	(2)	New South Wales must develop an analytical model for determining, in the case of the Murrumbidgee River System:	13 14
		(a) storage volumes; and	15
		(b) total diversions,	16
		that would have occurred under Baseline Conditions.	17
	(3)	An analytical model developed under this clause:	18
		(a) must be the best model available to the Commission or New South Wales, from time to time, for the purpose of calculating the timing and quantity of the Relaxation Volume under Baseline Conditions; and	19 20 21 22
		(b) must be tested against relevant historical data to determine the accuracy of the model.	23 24
	(4)	New South Wales may at its own cost engage an independent auditor to evaluate whether the model developed under sub-clause 27(1) of this Schedule is:	25 26 27
		(a) the best available to the Commission; and	28
		(b) accurate.	29 30

	PART VIII: OTHER PROVISIONS	1 2
28.	Inter-Valley Water Transfers	3
	(1) To facilitate water transfers, the Commission may request New South Wales to release:	4 5
	(a) Water Available to the Snowy-Murray Development to each or both of the Tumut River catchment and the Murrumbidgee River catchment; or	6 7 8
	(b) Water Available to the Snowy-Tumut Development to the River Murray catchment upstream of Hume Dam.	9 10
	(2) If New South Wales agrees with the request made under sub-clause 28(1) of this Schedule, any inter-valley transfer referred to in sub-clause 28(1) must be converted into an allocation to New South Wales of water in Hume Reservoir.	11 12 13 14