Water Sharing Rules Avon River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.		
Cease to Pump	For years one to five of the plan existing licence conditions remain.	
	From year six all licence holders must cease to pump when there is no visible flow immediately downstream of their pump site or into and out of the pumping pool.	
	NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences and Local Water Utilities Access licences.	
Reference Point	Riffles upstream and downstream of pump.	
Amendment Provisions	Further studies and field verification may inform a change to the cease to pump level after year five of the plan.	

	Trading rules
Trading INTO the water source	No net gain trades may be permitted into the Water Source from the Lower Manning River and Lower Barrington/Gloucester Rivers Water Sources. Trading out of the Water Source is permitted, subject to assessment to Lower Barrington/Gloucester River and Lower Manning River Water Sources.
Trading WITHIN the water source	Permitted, subject to assessment.
Conversion to High Flow Access Licence	Permitted, subject to assessment with conversion rate of 1:2.5 for share components from unregulated river to high flow access licences. Access when flows at or greater than 23 ML/day at the Gloucester River at Gloucester gauge.
Conversion to Aquifer Access Licence	Not permitted

Managing Alluvial Groundwater Bores		
To minimise interference between	 New bores are not to be located within the following distances of existing bores: 	
neighbouring bores	 200m from an access licence bore 	
These rules apply to new	 200m from a BLR bore 	
bores.	\circ 300m from the boundary (unless negotiated with neighbour).	
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wise assessed) 	
	 400m from departmental monitoring bore (unless negot iated with the department) 	
	 These dista nces may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by th e Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 	
	 These specified distances may also be varied after year f ive of th e plan by the Minister. 	
Management of bores near contaminated sites.	 New bores are not to be located within the 1 00m of contaminated sites as identified within the plan. 	
<i>These rules apply to new</i> <i>bores.</i> <i>These rules do not apply to</i> <i>replacement bores.</i>	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 	
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no draw down of groundwater within 100 m of the contamination source will occur. 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 These rule s may also be applied to contaminated sources not identified within the plan, based on t he results of a site insp ection or other relevant information provided to the Minister. 	
	• Contaminated sites identified wit hin the Pla n may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.	

Avon River water source – Rules Summary 1 of 21

		Avoir river water source – rules Summary 1 of 21		
Granting of bores near groundwater		res are not to be located within the following distance s of high ority GDEs (non Karst) as identified within the plan:		
dependent ecosystems	0	100m for bores used for extracting for BLR,		
These rules apply to new &	0	200m for bores used for all other aquifer access licences,		
replacement bores. These rules do not apply to		res are not to be located within the following distances from these entified features:		
replacement bores that are	0	500m of karsts,		
part of a Local or Major Water Utility or Town	0	40m of a river or stream (3rd order or above),		
Water Supply bore field or network.	0	40m of a 1st or 2nd ord er stream, unless dr illed into underlying parent mat erial and slotted intervals commence deeper than 30m. (30m may be amended if de monstrate minimal imp act on base flows in the stream.)		
		These rules do not apply to works for monitoring, environmental management purposes or remedial work.		
	hy dra	e distances from GDEs ma y be varied for an applicant if a drogeological study is undertaken which demonst rates no awdown of the groundwater at the outside edge of the GDE listed in e Plan.		
	ide stu	ese specified distances may be amended, or high priority GDEs entified within the Plan may be added or removed, based on further idies of groundwater ecosystem dependency undertake n by the nister.		
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.		In order to protect wa ter quality and maintain groundwa ter levels within this groundwater source, local restrictions may be applied.		

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Bowman River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following rule	The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.		
Cease to Pump	For years one to five of the plan existing licence conditions remain.		
	From year six all licence holders must cease to pump when:		
	(a) there is no visible flow immediately downstream of their pump		
	site or into and out of the pumping pool, and		
	(b) the flow at the reference point in equal to or less than 27 ML/day		
	(which corresponds to the estimated 98th%ile flow).		
	From year six all licence must not commence to pump until:		
	(c) there is a visible flow immediately downstream of their pump site		
	or into and out of the pumping pool, and		
	(d) the flow at the reference point in equal to or greater than		
	40ML/day (which corresponds to the estimated 97th%ile flow).		
	NB: From year six of the plan the cease to pump condition will apply to		
	aquifer access licences extracting from all alluvial aquifers within 40m of		
	an unregulated river, except for existing Domestic and Stock access		
	licences and Local Water Utilities Access licences.		
Reference Point	Gloucester River at Doon Ayre Gauge		
Amendment	The specified cease and commence to pump levels may be amended		
Provisions	after year five through further studies to a level no less than visible flow		
	and no more than the 95th percentile (which corresponds to 68 ML/day).		

	Trading rules
Trading INTO the	No net gain trading into the Water Source is permitted, subject to
water source	assessment from the Lower Manning River and Lower
	Barrington/Gloucester Rivers Water Sources. Trading out of the Water
	Source is permitted, subject to assessment to Lower
	Barrington/Gloucester River and Lower Manning River Water Sources.
Trading WITHIN the	Trading permitted, subject to assessment within the Water Source,
water source	within management zones, but not between the Bowman River above
	Craven Creek Junction Management Zone and the Craven Creek
	management zone, or from the Lower Bowman Management Zone to
	either the Craven Creek management zone or the Bowman River
	above Craven Creek management zone.
Conversion to High	Not permitted
Flow Access Licence	

Conversion to Aquifer Access Licence	Not Permitted
Amendment Provisions	The specified trading rules for within the water source may be amended to permit no net dealings between specific management zones within the Bowman Creek Water Source following further studies and/or field verification.

	Managing Alluvial Groundwater Bores
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores:
	 200m from an access licence bore
These rules apply to new bores.	 200m from a BLR bore
bores.	\circ 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wise assessed)
	 400m from departmental monitoring bore (unless negot iated with the department)
	 These distances may be varied by the Minister if the applican undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	 These specified distances may also be varied after year f ive of the plan by the Minister.
Management of bores near contaminated sites.	 New bores are not to be located within the 1 00m of contaminated sites as identified within the plan.
sites. These rules apply to new bores. These rules do not apply to replacement bores.	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no draw down of groundwater within 100 m of the contamination source will occur.
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 These rule s may also be applied to contaminated sources not identified within the plan, based on t he results of a site insp ection of other relevant information provided to the Minister.
	 Contaminated sites identified wit hin the Pla n may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.

Bowman River water source – Rules Summary 2 of 21

Granting of bores near groundwater		ot to be located within the following distance s of high s (non Karst) as identified within the plan:	
dependent ecosystems	o 100m f	or bores used for extracting for BLR,	
These rules apply to new &	o 200m f	or bores used for all other aquifer access licences,	
replacement bores.	Bores are no identified fea	ot to be located within the following distances from these itures:	
These rules do not apply to replacement bores that are	o 500m c	of karsts,	
part of a Local or Major Water Utility or Town	o 40m of	a river or stream (3rd order or above),	
Water Supply bore field or network.	parent 30m. (3	a 1st or 2nd ord er stream, unless dr illed into underlying mat erial and slotted intervals commence deeper than 30m may be amended if de monstrate minimal imp act on bws in the stream.)	
	These rules do not apply to works for monitoring, environmental management purposes or remedial work.		
	hydrogeolog	es from GDEs ma y be varied for an applicant if a ical study is undertaken which demonst rates no f the groundwater at the outside edge of the GDE listed in	
	identified wit	fied distances may be amended, or high priority GDEs hin the Plan may be ad ded or removed, based on further oundwater ecosystem dependency undertake n by the	
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	In order to protect wa ter quality and maintain groundwa ter levels within this groundwater source, local restrictions may be applied.		

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Coolongolook River water source - Rules Summary 3 of 21

Water Sharing Rules Coolongolook River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following ru	The following rules are a guide only. For more information please contact WaterNSW	
	on 1300 662 077.	
Cease to Pump	All licence holders must cease to pump when:	
	(a) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(b) there is no visible flow at the reference point.	
	All licence holders cannot commence to pump until there has been	
	24hrs of flow following exceedance of very low flow class	
	NB: From year six of the plan the cease to pump condition will apply to	
	aquifer access licences extracting from all alluvial aquifers within 40m of	
	an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point	Locketts Crossing for the Coolongolook River and other specific sites for	
	each tributary as required.	
Amendment	Further field verification or studies may inform a change to the reference	
Provisions	point.	

Trading rules	
Trading INTO the water source	No trading into or out of the Water Source.
Trading WITHIN the water source	Permitted, subject to assessment
Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not Permitted

Coolongolook River water source - Rules Summary 3 of 21

Managing Alluvial Groundwater Bores	
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores:
neighbournig bores	 200m from an access licence bore
These rules apply to new	 200m from a BLR bore
bores.	\circ 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wise assessed)
	 400m from departmental monitoring bore (unless negot iated with the department)
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	 These specified distances may also be varied after year f ive of th e plan by the Minister.
Management of bores near contaminated sites.	 New bores are not to be located within the 1 00m of contaminated sites as identified within the plan.
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no draw down of groundwater within 100 m of the contamination source will occur.
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 These rule s may also be applied to contaminated sources not identified within the plan, based on t he results of a site insp ection or other relevant information provided to the Minister.
	• Contaminated sites identified wit hin the Pla n may be added or removed by the Minister based on results of a site inspection or other relevant information provided to th e Minister on that contamination source.

Coolongolook River water source – Rules Summary 3 of 21

Granting of bores near groundwater	 Bores are not to be located within the following distance s of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems	 100m for bores used for extracting for BLR,
These rules apply to new &	 200m for bores used for all other aquifer access licences,
replacement bores.	 Bores are not to be located within the following distances from these identified features:
These rules do not apply to replacement bores that are	o 500m of karsts,
part of a Local or Major Water Utility or Town	 40m of a river or stream (3rd order or above),
Water Supply bore field or network.	 40m of a 1st or 2nd ord er stream, unless dr illed into underlying parent mat erial and slotted intervals commence deeper than 30m. (30m may be amended if de monstrate minimal imp act on base flows in the stream.)
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 The distances from GDEs ma y be varied for an applicant if a hydrogeological study is undertaken which demonst rates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	 These specified distances may be amended, or high priority GDEs identified within the Plan may be ad ded or removed, based on further studies of groundwater ecosystem dependency undertake n by the Minister.
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	 In order to protect wa ter quality and maintain groundwa ter levels within this groundwater source, local restrictions may be applied.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Cooplacurripa River water source - Rules Summary 4 of 21

Water Sharing Rules Cooplacurripa River Water Source

Water Sharing Plan	
Plan	Lower North Coast Unregulated and Alluvial
Plan Commencement Date	1 August 2009
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.

	Access Rules	
The following rule	The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.	
Cease to Pump	 For the first five years all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point. From year six of the plan all licence holders must cease to pump when: (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or less than 61 ML/day (which corresponds to the estimated 95th%ile flow). From year six all licence must not commence to pump until: (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (f) the flow at the reference point in equal to or greater than 64ML/day (which corresponds to the estimated 94.5th%ile flow) NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences and Local Water Utilities Access licences. 	
Reference Point	Nowendoc River at Rocks Crossing Gauge	
Amendment Provisions	n/a	

Trading rules	
Trading INTO the water source	No net gain trading into the Cooplacurripa River Management Zone is permitted from the Nowendoc River downstream of Cooplacurripa River Confluence Management Zone and the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment to Nowendoc River Downstream of Cooplacurripa River Confluence Management Zone and to Lower Manning River Water Source.
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source and within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone

Cooplacurripa River water source - Rules Summary 4 of 21

Conversion to High	Not permitted
Flow Access Licence	
Conversion to	Not permitted
Aquifer Access	
Licence	

Managing Alluvial Groundwater Bores	
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores:
	 200m from an access licence bore
These rules apply to new bores.	 200m from a BLR bore
bores.	 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wis assessed)
	 400m from departmental monitoring bore (unless negot iate with the department)
	 These dista nces may be varied by the Minister if the applicar undertakes a hydrogeological study, assessed as adequate by th Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	 These specified distances may also be varied after year f ive of th plan by the Minister.
Management of bores near contaminated sites.	 New bores are not to be located within the 1 00m of contaminated sites as identified within the plan.
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no draw down of groundwater within 100 m of the contamination source will occur.
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 These rule s may also be applied to contaminated sources not identified within the plan, based on t he results of a site insp ection of other relevant information provided to the Minister.
	 Contaminated sites identified wit hin the Pla n may be added or removed by the Minister based on results of a site inspection or othe relevant information provided to the Minister on that contamination source.

Cooplacurripa River water source – Rules Summary 4 of 21

Granting of bores near groundwater	 Bores are not to be located within the following distance s of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems	 100m for bores used for extracting for BLR,
These rules apply to new &	 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	 Bores are not to be located within the following distances from these identified features:
replacement bores that are	o 500m of karsts,
part of a Local or Major Water Utility or Town	 40m of a river or stream (3rd order or above),
Water Supply bore field or network.	 40m of a 1st or 2nd ord er stream, unless dr illed into underlying parent mat erial and slotted intervals commence deeper than 30m. (30m may be amended if de monstrate minimal imp act on base flows in the stream.)
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 The distances from GDEs ma y be varied for an applicant if a hydrogeological study is undertaken which demonst rates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	 These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertake n by the Minister.
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	 In order to protect wa ter quality and maintain groundwa ter levels within this groundwater source, local restrictions may be applied.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Dingo Creek Water Source

Water Sharing Plan	
Plan	Lower North Coast Unregulated and Alluvial
Plan Commencement Date	1 August 2009
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.

	Access Rules
The following rules are a guide only. For more information please contact WaterNSW	
	on 1300 662 077.
Cease to Pump	 For years one to five of the plan existing licence conditions remain. From year six all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) the flow at the reference point in equal to or less than the 98%ile flow ML/day (which corresponds to an estimated 2.6 ML/day). From year six all licence must not commence to pump until: (c) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or greater than the 97%ile flow, or 2ML greater than the 98%ile flow, whichever is the greater (the 97%ile flow corresponds to an estimated 3 ML/day). NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access
	licences and Local Water Utilities Access licences.
Reference Point	Dingo Creek at Munyaree Flat Gauge
Amendment	Cease and commence to pump conditions may be amended after year
Provisions	five of this Plan, based on sufficient data collection to enable
FIOVISIONS	determination of cease to pump and commence to pump levels, and review of B Class flows at the 50th percentile.

Trading rules	
Trading INTO the water source	No net gain trades permitted into the Water Source from the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment to Lower Manning River Water Source.
Trading WITHIN the water source	Permitted, subject to assessment
Conversion to High Flow Access Licence	Permitted, subject to assessment with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences. Access when flows at or greater than 92 ML/day at the Dingo Creek at Munyaree Flat gauge.

Dingo Creek water source - Rules Summary 5 of 21

Conversion to	Not permitted
Aquifer Access	
Licence	

Managing Alluvial Groundwater Bores	
To minimise interference between	 New bores are not to be located within the following distances of existing bores:
neighbouring bores	 200m from an access licence bore
These rules apply to new	 200m from a BLR bore
bores.	 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wise assessed)
	 400m from departmental monitoring bore (unless negot iated with the department)
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed Minister, which demonstrates minimal potential on existing authorised extraction.
	 These specified distances may also be varied after year f ive of th e plan by the Minister.
Management of bores near contaminated sites.	 New bores are not to be located within the 1 00m of contaminated sites as identified within the plan.
These rules apply to new bores. These rules do not apply to	 This distan ce may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no draw down of groundwater within 100 m of the contamination source will occur.
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 These rule s may also be applied to contaminated sources not identified within the plan, based on t he results of a site insp ection or other relevant information provided to the Minister.
	• Contaminated sites identified wit hin the Pla n may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.

Dingo Creek water source – Rules Summary 5 of 21

Granting of bores near groundwater	 Bores are not to be located within the following distance s of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems	 100m for bores used for extracting for BLR,
These rules apply to new &	 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	 Bores are not to be located within the following distances from these identified features:
replacement bores that are	o 500m of karsts,
part of a Local or Major Water Utility or Town	 40m of a river or stream (3rd order or above),
Water Supply bore field or network.	 40m of a 1st or 2nd ord er stream, unless dr illed into underlying parent mat erial and slotted intervals commence deeper than 30m. (30m may be amended if de monstrate minimal imp act on base flows in the stream.)
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 The distances from GDEs ma y be varied for an applicant if a hydrogeological study is undertaken which demonst rates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	 These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertake n by the Minister.
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	In order to protect wa ter quality and maintain groundwa ter levels within this groundwater source, local restrictions may be applied.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>



Karuah River water source - Rules summary sheet

Water sharing rules Karuah River Water Source

Water sharing plan	Lower North Coast Unregulated and Alluvial 2016
Plan commencement	1 July 2016
Term of the plan	10 years

Rules summary

The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.

	Access rules	
Karuah Estuarine Management Zone		
	Access rules for surface waters	
Daily pumping restrictions	Nil.	
Cease to pump	Pumping is not permitted from natural pools when the water level in the pool is lower than its full capacity.	
	Note: 'Full capacity' can be approximated by the pool water level at the point where there is no visible flow into and out of that pool.	
	Note: Natural pools include in-river pools found within the channels of rivers and creeks and off-river pools located on flood runners, floodplains and effluents e.g. lakes, lagoons and billabongs.	
	Note: For the minority of pump sites not within a natural pool, these licences will be required to cease to pump when there is no visible flow at that pump site.	
Reference point	Individual natural pool.	
Note: Existing <i>Water Ac</i> carried forward.	t 1912 licence conditions that are more stringent than these access rules will be	
Note: These access rule	es do not apply to:	

Note: These access rules do not apply to:

- 1. Local water utility access licences
- 2. Town water supply access licences
- 3. Water taken from existing dams. Any existing licence conditions associated with a dam will be carried over when the licence is converted under the *Water Management Act 2000*.

Access rules for aquifers	
Cease to pump	From year 6 of the plan, pumping is not permitted when flows are no longer visible into and out of the closest reference point.
	Note: For years $1 - 5$ of the plan, groundwater users are exempt from the surface water access rules. From year 6, this rule will apply to all aquifer access licences.
	Any new groundwater users will be subject to the surface water access rules from year 1 of the plan.

Karuah River water source - Rules summary sheet

Access rules	
Karuah Estuarine Management Zone	
Reference point	Individual natural pool
Note: Existing <i>Water Act 1912</i> licence conditions that are more stringent than these access rules will be carried forward.	
Note: These access rules do not apply to:	

Note: These access rules do not apply to:

- 1. Local water utility access licences
- 2. Town water supply access licences
- 3. Water taken from existing dams. Any existing licence conditions associated with a dam will be carried over when the licence is converted under the Water Management Act 2000.

Access rules		
Karuah Upriver Man	Karuah Upriver Management Zone	
	Access rules for surface waters	
Daily pumping restrictions	Nil.	
Cease to pump	Pumping is not permitted when flows are equal to or less than 3.5 ML/day (approx = Nov 90th%ile) at the reference point.	
	Note: This rule applies to all extraction from rivers and creeks in this water source including natural in-river pools within the channels of rivers and creeks.	
Commence to pump	On a rising river pumping is to be delayed for 24 hours.	
Flow classes and Total daily extraction limits (TDELs)	Very low flow class: when flows are less than 5 ML/day on a rising river or less than 3.5 ML/day on a falling river,	
	Low flows or A class: when flows are between 5 and 18 ML/day on a rising river, and 3.5 and 18 ML/day on a falling river, and	
	Medium and high flows or B class: when flows are greater than 18 ML/day.	
Reference point	Karuah River at Booral, Gauge Station Number 209003.	
	Access rules for aquifers	
Cease to pump	From year 6 of the plan, pumping is not permitted when flows are equal to or less than 3.5 ML/day (approx = Nov 90th%ile) at the reference point.	
	Note: For years 1 – 5 of the plan, groundwater users are exempt from the surface water access rules. From year 6, this rule will apply to all aquifer access licences.	
	Any new groundwater users will be subject to the surface water access rules from year 1 of the plan.	
Reference point	Karuah River at Booral, Gauge Station Number 209003.	

Karuah River water source - Rules summary sheet

Access rules

Karuah Upriver Management Zone

Note: Existing *Water Act 1912* licence conditions that are more stringent than these access rules will be carried forward.

Note: These access rules do not apply to:

- 1. Local water utility access licences
- 2. Town water supply access licences
- 3. Water taken from existing dams. Any existing licence conditions associated with a dam will be carried over when the licence is converted under the Water Management Act 2000.

Trading rules		
Karuah Estuarine Ma	anagement Zone	
ΙΝΤΟ	Trades permitted only from the Karuah Upriver Management Zone.	
management zone	Trades permitted only norm the Kardan ophyer Management 20ne.	
WITHIN		
management zone	Trades permitted, subject to assessment.	
Karuah Upriver Management Zone		
INTO	Not permitted	
management zone	Not permitted.	
WITHIN		
management zone	Trades permitted, subject to assessment.	
Karuah River Water	Source	
Conversion to High Flow Access licence	Permitted, up to a maximum of 2530 ML.	
Conversion to Alluvial Access	Permitted.	
licence		

Rules for granting access licences	
In-river dams	Not permitted due to high conservation values. Note: Dams require a licence if they are located on a permanent (spring fed) first or second order stream, a third order (or greater) stream, or if they exceed the maximum harvestable right dam capacity for the property.
Aboriginal Cultural Access licence	Permitted where the share component does not exceed 10 ML/yr per application.
Aboriginal Community Development licence	Permitted, up to 500 ML surface water and up to 500 ML groundwater.

Karuah River water source - Rules summary sheet

More information about the planning process for the Water Sharing Plan for the Lower North Coast Unregulated and Alluvial Water Sources 2009 and is available at the NSW Department of Primary Industries, Water website: www.industry.nsw.gov.au/water

Lower Barnard River water source - Rules Summary 6 of 21

Water Sharing Rules Lower Barnard River Water Source

Water Sharing Plan	
Plan	Lower North Coast Unregulated and Alluvial
Plan Commencement Date	1 August 2009
Term of the Plan	10 years
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.

	Access Rules	
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.		
Lower Barnard River U	pper Reaches Management Zone	
Lower Barnard River U Cease to Pump	 pper Reaches Management Zone For the first five years of the plan all licence holders (excluding major utility access licences) must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point, From year six all licence holders (excluding major utility access licences) must cease to pump when: (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or less than 11 ML/day (which corresponds to the estimated 95th%ile flow). From year six all licences (excluding major utility access licences) must not commence to pump until: (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (f) the flow at the reference point in equal to or greater than 13 ML/day (which corresponds to the estimated 94.5th%ile flow). Major utility access licences must cease to pump when: (g) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (h) the flow at the reference point in equal to or greater than 13 ML/day (which corresponds to the estimated 94.5th%ile flow). 	
	site or into and out of the pumping pool, and (j) the flow at the reference point is equal to or greater than the 80 th percentile flow,	
	NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences and Local Water Utilities Access licences.	
Reference Point	Barnard River at the Measuring Weir gauge.	

Lower Barnard River Management Zone	
Cease to Pump	For the first five years of the plan all licence holders must cease to
	pump when:
	(a) there is no visible flow immediately downstream of their pump
	site or into and out of the pumping pool, and
	(b) there is no visible flow at the reference point.
	From year six all licence holders must cease to pump when:
	(c) there is no visible flow immediately downstream of their pump
	site or into and out of the pumping pool, and
	(d) the flow at the reference point in equal to or less than 32
	ML/day (which corresponds to the estimated 95th%ile flow).
	From year six all licence must not commence to pump until:
	(e) there is a visible flow immediately downstream of their pump
	site or into and out of the pumping pool, and
	(f) the flow at the reference point in equal to or greater than 34
	ML/day (which corresponds to the estimated 94.5th%ile flow)
Reference Point	Barnard River at Mackay gauge
Amendment	n/a
Provisions	

	Trading rules
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from Upper Barnard River and Myall Creek Water Sources. No net gain trades may be permitted into the Water Source from the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment downstream to Mid Manning River, Lower Manning River and upstream to Upper Barnard and Myall Creek Water Sources. Transfers to the Upper Barnard and Myall Creek Water Sources must not result in more than 10ML of entitlement in these water sources.
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source and within management zones, but not into the Upper Reaches Zone if it results in more than 10ML of entitlement (excluding Major Water Utility share component) in this zone
Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

Lower Barnard River water source - Rules Summary 6 of 21

Managing Alluvial Groundwater Bores		
To minimise interference between	 New bores are not to be located within the following distances of existing bores: 	
neighbouring bores	 200m from an access licence bore 	
These rules apply to new	 200m from a BLR bore 	
bores.	 300m from the boundary (unless negotiated with neighbour). 	
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as other wise assessed) 	
	 400m from departmental monitoring bore (unless negot iated with the department) 	
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 	
	 These specified distances may also be varied after year f ive of th e plan by the Minister. 	
Management of bores near contaminated	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 	
sites. These rules apply to new bores. These rules do not apply to replacement bores.	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 	
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 	
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.	

Lower Barnard River water source –	Rules Summary 6 of 21
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Granting of bores near groundwater	 Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: 	
dependent ecosystems	 100m for bores used for extracting for BLR, 	
These rules apply to new &	 200m for bores used for all other aquifer access licences, 	
replacement bores.	 Bores are not to be located within the following distances from these identified features: 	
These rules do not apply to replacement bores that are	o 500m of karsts,	
part of a Local or Major Water Utility or Town	 40m of a river or stream (3rd order or above), 	
Water Supply bore field or network.	 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.) 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan. 	
	 These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister. 	
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied.	

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Lower Barrington/Gloucester Rivers Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 July 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.		
Lower Barrington River	Upper Reaches Management Zone	
Cease to Pump	For the first five years of the plan all licence holders must cease to	
	pump when:	
	(a) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(b) there is no visible flow at the reference point,	
	From year six all licence holders must cease to pump when:	
	(c) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(d) the flow at the reference point in equal to or less than 32ML/day	
	(which corresponds to the estimated 98th%ile flow).	
	From year six all licence must not commence to pump until:	
	(e) there is a visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(a) the flow at the reference point in equal to or greater than 39	
	ML/day (which corresponds to the estimated 97th%ile flow)	
	NB: From year six of the plan the cease to pump condition (b) will apply	
	to aquifer access licences extracting from all alluvial aquifers within 40m	
	of an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point	Barrington River at Forbesdale gauge (commonly known as Rocky	
	Crossing).	
Amendment	The specified cease and commence to pump levels may be amended	
Provisions	through further studies after year five. The cease to pump may be	
	amended to a level no less than the 99th percentile (which corresponds	
	to 23 ML/day) and no more than the 95th percentile (which corresponds	
	to 61 ML/day).	

Lower Barrington Ri	ver Management Zone/Lower Gloucester River Management Zone
Cease to Pump	 For the first five years of the plan all licence holders must cease to pump when: (f) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (g) there is no visible flow at the reference point, From year six all licence holders must cease to pump when: (h) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (i) the flow at the reference point in equal to or less than 27ML/day (which corresponds to the estimated 98th%ile flow). From year six all licence must not commence to pump until: (j) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) the flow at the reference point in equal to or greater than 40 ML/day (which corresponds to the estimated 97th%ile flow) NB: From year six of the plan the cease to pump condition (b) will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences.
Reference Point	Gloucester River at Doon Ayre Gauge
Amendment Provisions	The specified cease and commence to pump levels may be amended through further studies after year five. The cease to pump may be amended to a level no less than the 99th percentile (which corresponds to 13 ML/day) and no more than the 95th percentile (which corresponds to 68 ML/day). In addition, in the Lower Barrington River Management Zone an equivalent percentile flow level may be established if a new gauge is installed in this water source.

	Trading rules	
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from Avon River, Bowman River, Upper Barrington River and Upper Gloucester River Water Sources. No net gain trades may be permitted into the Water Source from the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment to the Lower Manning River Water Source. No net gain trades are permitted out of the Water Source to the Avon River or Bowman River Water Sources or Upper Gloucester River, Upper Barrington River Management Zones.	
Trading WITHIN the water source	Permitted, subject to assessment	
Conversion to High Flow Access Licence	Permitted, subject to assessment with conversion rate of 1:2.5 for share component from unregulated river to unregulated high flow access licence. Access when flows at or greater than 373 ML/day at the Barrington River at Forbesdale gauge (Lower Barrington Upper Reaches Mgt Zone) or Gloucester River at Doon Ayre gauge (Lower Barrington/Lower Gloucester Mgt Zones).	
Conversion to Aquifer Access Licence	Permitted, subject to assessment	

Managing Alluvial Groundwater Bores		
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 	
	 200m from an access licence bore 	
These rules apply to new	 200m from a BLR bore 	
bores.	\circ 300m from the boundary (unless negotiated with neighbour).	
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 	
	 400m from departmental monitoring bore (unless negotiated with the department) 	
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 	
	 These specified distances may also be varied after year five of the plan by the Minister. 	
Management of bores near contaminated	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 	
sites. These rules apply to new bores. These rules do not apply to replacement bores.	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 	
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 	
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.	

Lower Barrington/Gloucester Rivers water source -	Rules Summary 7 of 21
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Granting of bores near groundwater	•		es are not to be located within the following distances of high rity GDEs (non Karst) as identified within the plan:
dependent ecosystems		0	100m for bores used for extracting for BLR,
These rules apply to new &	•	0	200m for bores used for all other aquifer access licences,
replacement bores. These rules do not apply to			es are not to be located within the following distances from these tified features:
replacement bores that are		0	500m of karsts,
part of a Local or Major Water Utility or Town		0	40m of a river or stream (3rd order or above),
Water Supply bore field or network.		0	40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•		se rules do not apply to works for monitoring, environmental agement purposes or remedial work.
		hydi drav	distances from GDEs may be varied for an applicant if a ogeological study is undertaken which demonstrates no vdown of the groundwater at the outside edge of the GDE listed in Plan.
		iden stud	se specified distances may be amended, or high priority GDEs tified within the Plan may be added or removed, based on further ies of groundwater ecosystem dependency undertaken by the ster.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: www.industry.nsw.gov.au/water

Lower Manning River water source - Rules Summary 8 of 21

Water Sharing Rules Lower Manning River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following ru	The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.		
Cease to Pump	 For the first five years of the plan all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point, From year six all licence holders must cease to pump when: (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or less than 98ML/day (which corresponds to the estimated 98th%ile flow). From year six all licence must not commence to pump until: (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (a) the flow at the reference point in equal to or greater than 137 ML/day (which corresponds to the estimated 97th%ile flow). NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access 		
Reference Point	licences and Local Water Utilities Access licences. Manning River at Killawarra gauge		
Amendment Provisions	The specified cease and commence to pump levels may be amended through further studies after year five. The cease to pump may be amended to a level no less than the 99th percentile (which corresponds to 54 ML/day) and no more than the 95th percentile (which corresponds to 225 ML/day).		

Lower Manning River water source - Rules Summary 8 of 21

	Trading rules		
Trading INTO the	Trading into the Water Source is permitted, subject to assessment from		
water source	all water sources in Extraction Management Unit. Trading out of the		
	Water Source is permitted, subject to assessment to the Manning River		
	Tidal Pool Water Source. No net gain trades may be permitted out of		
	the Water Source to the Lower Barrington/Gloucester Rivers, Mid		
	Manning River, Lower Barnard River, Dingo Creek, the Bowman River,		
	Avon River Water Sources or the Rowleys River, Upper Barrington		
	River, Upper Manning River, Nowendoc River downstream of		
	Cooplacurripa River Confluence, Cooplacurripa River, or Upper		
	Gloucester River Management Zones.		
Trading WITHIN the	Trading permitted, subject to assessment throughout the Water Source,		
water source	except from downstream of, to upstream of identified high priority		
	groundwater dependent ecosystems.		
Conversion to High	Permitted, subject to assessment with conversion rate of 1:2.5 for share		
Flow Access Licence	components from unregulated river to high flow access licences. Access		
	when flows at or greater than1566 ML/day at the Manning River at		
	Killawarra gauge.		
Conversion to	Not permitted		
Aquifer Access			
Licence			

Managing Alluvial Groundwater Bores		
To minimise interference between neighbouring bores	•	New bores are not to be located within the following distances of existing bores:
neighbournig bores		 200m from an access licence bore
These rules apply to new		 200m from a BLR bore
bores.		 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		 100m from a local or major water utility bore (or as otherwise assessed)
		 400m from departmental monitoring bore (unless negotiated with the department)
	•	These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	•	These specified distances may also be varied after year five of the plan by the Minister.

Lower Manning River water source – Rules Summary 8 of 21

		Lower Manning River water source – Rules Summary 8 of 21
Management of bores near contaminated sites. These rules apply to new bores. These rules do not apply to	-	New bores are not to be located within the 100m of contaminated sites as identified within the plan.
	•	This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
replacement bores.	•	New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.
	•	Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.
Granting of bores near groundwater	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
replacement bores. These rules do not apply to	-	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	-	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	-	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Manning Estuary Tributaries water source - Rules Summary 9 of 21

Water Sharing Rules Manning Estuary Tributaries Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following rul	The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.		
Cease to Pump	 For years one to five of the plan existing licence conditions remain. From year six all licence holders must cease to pump when there is no visible flow immediately downstream of their pump site or into and out of the pumping pool. NB: From year six of the plan the cease to pump condition (b) will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access 		
	licences and Local Water Utilities Access licences.		
Reference Point	The bridge on Cundle Road, 1km south of Lansdowne for Lansdowne River management zone, adjacent the racecourse north of Wingham for the Cedar Party Creek management zone, and other specific sites for each tributary as required.		
Amendment	The cease to pump provisions may be amended after year five based		
Provisions	on field verification and the review of relevant studies.		

Trading rules		
Trading INTO the water source	No trading into the Water Source. No net trades may be permitted out the water source to the Lower Manning River, the Lower Barrington/Gloucester Rivers Water Source, the Rowleys River Management Zone of the Rowleys River Water Source, the Upper Barrington River Management Zone of the Upper Barrington River Water Source, the Upper Manning River Management Zone of the Upper Manning River Water Source, the Dingo Creek Water Source, Nowendoc River downstream of Cooplacurripa River Confluence Management Zone of the Nowendoc River Water Source, the Cooplacurripa River Management Zone of the Cooplacurripa River Water Source, the Management Zone of the Cooplacurripa River Management Zone of the Nowendoc River Water Source, the Avanagement Zone of the Upper Gloucester River Management Zone Source.	
Trading WITHIN the water source	Within but not between management zones	

Manning Estuary Tributaries water source - Rules Summary 9 of 21

Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

Managing Alluvial Groundwater Bores		
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 	
	 200m from an access licence bore 	
These rules apply to new	 200m from a BLR bore 	
bores.	\circ 300m from the boundary (unless negotiated with neighbour).	
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 	
	 400m from departmental monitoring bore (unless negotiated with the department) 	
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 	
	 These specified distances may also be varied after year five of the plan by the Minister. 	
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 	
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 	
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 	
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.	

Granting of bores near groundwater dependent ecosystems These rules apply to new & replacement bores. These rules do not apply to replacement bores that are part of a Local or Major Water Utility or Town Water Supply bore field or	 Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: 100m for bores used for extracting for BLR, 200m for bores used for all other aquifer access licences, Bores are not to be located within the following distances from these identified features: 500m of karsts, 40m of a river or stream (3rd order or above), 40m of a 1st or 2nd order stream, unless drilled into underlying
network.	 parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.) These rules do not apply to works for monitoring, environmental management purposes or remedial work. The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan. These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	 studies of groundwater ecosystem dependency undertaken by the Minister. In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Manning River Tidal Pool water source - Rules Summary 10 of 21

Water Sharing Rules Manning River Tidal Pool Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface	
	waters.	

Access Rules				
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.				
Cease to Pump	It is proposed that during the term of the Plan, extraction of water from the tidal pool will only be permitted, subject to assessment based on defined flow and/or salinity conditions. NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences and Local Water Utilities Access licences.			
Reference Point	To be determined during the term of the plan.			
Amendment Provisions	Cease to pump conditions will be developed in consultation with irrigators and other stakeholders during the term of the Plan.			

Trading rules				
Trading INTO the water source	Trading between the Lower Manning River Water Source and the Manning River Tidal Pool Water Source is permitted, subject to assessment. Note trading rules will be further developed as rules are developed. No net trades may be permitted into the water source during the term of the plan.			
Trading WITHIN the water source	Permitted, subject to assessment			
Conversion to High Flow Access Licence	Not permitted			
Conversion to Aquifer Access Licence	Not permitted			
Amendment Provisions	The dealing rules may be amended within the Manning River Tidal Pool Water Source in association with the development of access rules for this water source.			

	Managing Alluvial Groundwater Bores		
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 		
	 200m from an access licence bore 		
These rules apply to new	 200m from a BLR bore 		
bores.	\circ 300m from the boundary (unless negotiated with neighbour).		
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 		
	 400m from departmental monitoring bore (unless negotiated with the department) 		
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 		
	 These specified distances may also be varied after year five of the plan by the Minister. 		
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 		
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 		
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 		
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 		
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 		
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.		

Manning River Tidal Pool water source -	- Rules Summary 10 of 21
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Granting of bores near groundwater dependent ecosystems	-	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town Water Supply bore field or network.		 40m of a river or stream (3rd order or above),
		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
		These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Mid Manning River water source – Rules Summary 11 of 21

Water Sharing Rules Mid Manning River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

	Access Rules		
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.			
Cease to Pump	 For the first five years of the plan all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point, From year six all licence holders must cease to pump when: (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or less than 98ML/day (which corresponds to the estimated 98th%ile flow). From year six all licence must not commence to pump until: (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (f) the flow at the reference point in equal to or greater than 137 ML/day (which corresponds to the estimated 97th%ile flow) NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access 		
Reference Point	licences and Local Water Utilities Access licences. Manning River at Killawarra gauge		
Amendment Provisions	The specified cease and commence to pump levels may be amended through further studies. The cease to pump may be amended to a level no less than the 99th percentile (which corresponds to 54 ML/day) and no more than the 95th percentile (which corresponds to 225 ML/day).		

Mid Manning River water source - Rules Summary 11 of 21

Trading rules			
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from Upper Barnard River, Upper Manning River, Lower Barnard River and Myall Creek. No net gain trades allowed into the Water Source from the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment to Lower Manning River Water Source. No net gain trading out of the Water Source is permitted to the Upper Manning River Management Zone and the Lower Barnard Water Source.		
Trading WITHIN the water source	Permitted, subject to assessment		
Conversion to High Flow Access Licence	Permitted, subject to assessment with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences. Access when flows at or greater than1566 ML/day at the Manning River at Killawarra gauge.		
Conversion to Aquifer Access Licence	Not permitted		

	Μ	anag	ing Alluvial Groundwater Bores
To minimise interference between	•		bores are not to be located within the following distances of ing bores:
neighbouring bores		0	200m from an access licence bore
These rules apply to new		0	200m from a BLR bore
bores.		0	300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		0	100m from a local or major water utility bore (or as otherwise assessed)
		0	400m from departmental monitoring bore (unless negotiated with the department)
	•	unde Mini	se distances may be varied by the Minister if the applicant ertakes a hydrogeological study, assessed as adequate by the ster, which demonstrates minimal potential for adverse impacts xisting authorised extraction.
	•		se specified distances may also be varied after year five of the by the Minister.
Management of bores near contaminated sites. These rules apply to new bores. These rules do not apply to replacement bores.		-	bores are not to be located within the 100m of contaminated as identified within the plan.
	•	dem	distance may be varied for an applicant if the applicant can onstrate no more than minimal harm to the groundwater source there is no impact on the environment or threat to public health.
	•	iden evid	bores located within 100m–500m of contaminated sites as tified within the plan will require Ministerial approval and have ence that no drawdown of groundwater within 100 m of the amination source will occur.
	•		se rules do not apply to works for monitoring, environmental agement purposes or remedial work.

	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other		
		relevant information provided to the Minister on that contamination source.		
Granting of bores near groundwater dependent ecosystems	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:		
dependent ecosystems		 100m for bores used for extracting for BLR, 		
These rules apply to new &		 200m for bores used for all other aquifer access licences, 		
<i>replacement</i> bores. <i>These rules do not apply to</i>	•	Bores are not to be located within the following distances from these identified features:		
replacement bores that are		o 500m of karsts,		
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above), 		
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.) 		
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.		
		The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.		
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.		
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	•	In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied.		

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

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Water Sharing Rules Myall Creek Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

	Access Rules		
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.			
Cease to Pump	 For the first five years of the plan all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point, From year six all licence holders must cease to pump when: (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (d) the flow at the reference point in equal to or less than 32ML/day (which corresponds to the estimated 95th%ile flow). From year six all licence must not commence to pump until: (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (f) the flow at the reference point in equal to or greater than 34 ML/day (which corresponds to the estimated 94.5th%ile flow). NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences. 		
Reference Point	Barnard River at Mackay Gauge		
Amendment Provisions	N/a		

Trading rules		
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from Lower Barnard River Water Source but not if the total share component in the Water Source exceeds 10 ML. Trading out of the Water Source is permitted, subject to assessment to Lower Barnard River, Mid Manning River and Lower Manning River Water Sources.	
Trading WITHIN the water source	Permitted, subject to assessment	

Myall Creek water source - Rules Summary 12 of 21

Conversion to High Flow Access Licence	Not permitted.
Conversion to Aquifer Access Licence	Not permitted

	Managing Alluvial Groundwater Bores
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores:
neighbouring bores	 200m from an access licence bore
These rules apply to new	 200m from a BLR bore
bores.	\circ 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed)
	 400m from departmental monitoring bore (unless negotiated with the department)
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	 These specified distances may also be varied after year five of the plan by the Minister.
Management of bores near contaminated	 New bores are not to be located within the 100m of contaminated sites as identified within the plan.
sites. These rules apply to new bores. These rules do not apply to replacement bores.	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.

Granting of bores near groundwater dependent ecosystems	•	Bores are not to be located within the following distance priority GDEs (non Karst) as identified within the plan:s of higho100m for bores used for extracting for BLR,
These rules apply to new & replacement bores.	•	• 200m for bores used for all other aquifer access licences,
These rules do not apply to		Bores are not to be located within the following distances from these identified features:
<i>replacement</i> bores that are part of a Local or Major		o 500m of karsts,
Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd ord er stream, unless dr illed into underlying parent mat erial and slotted intervals commence deeper than 30m. (30m may be amended if de monstrate minimal imp act on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs ma y be varied for an applicant if a hydrogeological study is undertaken which demonst rates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertake n by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Myall Lakes Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following rules are a guide only. For more information please contact WaterNSW			
on 1300 662 077.			
Cease to Pump No access rules specified.			
Reference Point N/a			
Amendment	nt N/a		
Provisions	1 1/ 0		

Trading rules		
Trading INTO the	No trading into or out of the Water Source.	
water source		
Trading WITHIN the	Permitted, subject to assessment	
water source		
Conversion to High	Not permitted	
Flow Access Licence		
Conversion to	Not permitted	
Aquifer Access		
Licence		

Managing Alluvial Groundwater Bores			
To minimise interference between	 New bores are not to be located within the following distances of existing bores: 		
neighbouring bores	 200m from an access licence bore 		
These rules apply to new	 200m from a BLR bore 		
bores.	\circ 300m from the boundary (unless negotiated with neighbour).		
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 		
	 400m from departmental monitoring bore (unless negotiated with the department) 		
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 		
	 These specified distances may also be varied after year five of the plan by the Minister. 		
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 		
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 		
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 		
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 		
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 		
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.		

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Granting of bores near groundwater dependent ecosystems	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Myall River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules				
The following rule	The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.			
Cease to Pump	 All licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and (b) there is no visible flow at the reference point. All licence holders cannot commence to pump until there has been 24hrs of flow following exceedance of very low flow class. NB: From year six of the plan the cease to pump condition will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access licences and Local Water Utilities Access licences. 			
Reference Point	Bridge on Markwell Road, 2.5km north of Bulahdelah for the Myall River, at a site to be determined upstream of the Crawford River Weir for the Crawford River, and other specific sites for each tributary as required.			
Amendment Provisions	Further field verification or studies may inform a change to t he reference point.			

Trading rules		
Trading INTO the water source	No trading into or out of the Water Source.	
Trading WITHIN the water source	Permitted, subject to assessment	
Conversion to High Flow Access Licence	Not permitted	
Conversion to Aquifer Access Licence	Not permitted	

Managing Alluvial Groundwater Bores			
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 		
neighbournig bores	 200m from an access licence bore 		
These rules apply to new	 200m from a BLR bore 		
bores.	 300m from the boundary (unless negotiated with neighbour). 		
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 		
	 400m from departmental monitoring bore (unless negotiated with the department) 		
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 		
	 These specified distances may also be varied after year five of the plan by the Minister. 		
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 		
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 		
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 		
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 		
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 		
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.		

Myall River water source – Rules Summary 14 of 21

Granting of bores near groundwater dependent ecosystems	•		s are not to be located within the following distances of high ty GDEs (non Karst) as identified within the plan:
dependent ecosystems		0	100m for bores used for extracting for BLR,
These rules apply to new &		0	200m for bores used for all other aquifer access licences,
replacement bores. These rules do not apply to	•		s are not to be located within the following distances from these ified features:
replacement bores that are		0	500m of karsts,
part of a Local or Major Water Utility or Town		0	40m of a river or stream (3rd order or above),
Water Supply bore field or network.		0	40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•		e rules do not apply to works for monitoring, environmental agement purposes or remedial work.
	•	hydro	distances from GDEs may be varied for an applicant if a ogeological study is undertaken which demonstrates no down of the groundwater at the outside edge of the GDE listed in lan.
	•	ident	e specified distances may be amended, or high priority GDEs ified within the Plan may be added or removed, based on further es of groundwater ecosystem dependency undertaken by the ter.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Nowendoc River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.	
Cease to Pump	For the first five years all licence holders must cease to pump when:	
	(a) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(b) there is no visible flow at the reference point.	
	From year six of the plan all licence holders must cease to pump when:	
	(c) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(c) the flow at the reference point in equal to or less than 61 ML/day	
	(which corresponds to the estimated 95th%ile flow).	
	From year six all licence must not commence to pump until:	
	(d) there is a visible flow immediately downstream of their pump site	
	or into and out of the pumping pool, and	
	(e) the flow at the reference point in equal to or greater than	
	64ML/day (which corresponds to the estimated 94.5th%ile flow)	
	NB: From year six of the plan the cease to pump condition will apply to	
	aquifer access licences extracting from all alluvial aquifers within 40m of	
	an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point	Nowendoc River at Rocks Crossing Gauge	
Amendment	N/a	
Provisions		

Nowendoc River water source - Rules Summary 15 of 21

	Trading rules
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from Rowleys River and Cooplicurripa River downstream of Cooplicurripa River Confluence Management Zone. No net gain trades are allowed into the Nowendoc River downstream of Cooplacurripa River Confluence Management Zone from the Lower Manning River Water Source. Trading out of the Water Source is permitted, subject to assessment to Lower Manning River Water Source. No net gain trades is permitted out of the Nowendoc River downstream of Cooplacurripa River Confluence Management Zone into the Rowleys River Management Zone and the Cooplacurripa River Management Zone.
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source and within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone.
Conversion to High Flow Access Licence	Not permitted.
Conversion to Aquifer Access Licence	Not permitted

	N	lanag	ging Alluvial Groundwater Bores
To minimise interference between			v bores are not to be located within the following distances of ting bores:
neighbouring bores		0	200m from an access licence bore
These rules apply to new		0	200m from a BLR bore
bores.		0	300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		0	100m from a local or major water utility bore (or as otherwise assessed)
		0	400m from departmental monitoring bore (unless negotiated with the department)
	•	und Mini	se distances may be varied by the Minister if the applicant ertakes a hydrogeological study, assessed as adequate by the ster, which demonstrates minimal potential for adverse impacts existing authorised extraction.
	•		se specified distances may also be varied after year five of the by the Minister.

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		Nowendoc River water source – Rules Summary 15 of 21
Management of bores near contaminated sites.	•	New bores are not to be located within the 100m of contaminated sites as identified within the plan.
These rules apply to new bores. These rules do not apply to	•	This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
replacement bores.	•	New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.
	•	Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.
Granting of bores near groundwater	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
replacement bores. These rules do not apply to	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Rowleys River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.	
Cease to Pump	For the first five years all licence holders must cease to pump when:	
	(a) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(b) there is no visible flow at the reference point.	
	From year six of the plan all licence holders must cease to pump when:	
	(c) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(c) the flow at the reference point in equal to or less than 61 ML/day	
	(which corresponds to the estimated 95th%ile flow).	
	From year six all licence must not commence to pump until:	
	(d) there is a visible flow immediately downstream of their pump site	
	or into and out of the pumping pool, and	
	(e) the flow at the reference point in equal to or greater than	
	64ML/day (which corresponds to the estimated 94.5th%ile flow)	
	NB: From year six of the plan the cease to pump condition will apply to	
	aquifer access licences extracting from all alluvial aquifers within 40m of	
	an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point		
	Nowendoc River at Rocks Crossing Gauge	
Amendment	N/a	
Provisions		

Trading rules		
Trading INTO the water source	No net trad e into the Rowleys River Management Zone fr om the Lower Manning River Water Source and the Nowendoc River downstream o f Cooplacurripa River Confluence Management Z one is permitted, subject to asse ssment. Tradin g out of t he Water Source is permitted to Nowendoc River down stream of Cooplacurripa and to Lower Man ning River Water Source.	

Rowleys River water source - Rules Summary 16 of 21

Trading WITHIN the water source	Trading permitted, subject to asse ssment within the Water Source an d within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone.
Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

Managing Alluvial Groundwater Bores			
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 		
neighbouring bores	 200m from an access licence bore 		
These rules apply to new	 200m from a BLR bore 		
bores.	 300m from the boundary (unless negotiated with neighbour). 		
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 		
	 400m from departmental monitoring bore (unless negotiated with the department) 		
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 		
	 These specified distances may also be varied after year five of the plan by the Minister. 		
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 		
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 		
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 		
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 		
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 		
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.		

Rowleys River water source – Rules Summary 16 of 21

Granting of bores near groundwater	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Upper Barnard River water source - Rules Summary 17 of 21

Water Sharing Rules Upper Barnard River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.	
Cease to Pump	For the first five years of the plan all licence holders must cease to pump when: (a) there is no visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(b) there is no visible flow at the reference point,	
	From year six all licence holders must cease to pump when:	
	 (c) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and 	
	(d) the flow at the reference point in equal to or less than	
	11 ML/day (which corresponds to the estimated 95th%ile flow).	
	From year six all licence must not commence to pump until:	
	 (e) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and 	
	(f) the flow at the reference point in equal to or greater than 13 ML/day (which corresponds to the estimated 94.5th%ile flow	
	NB: From year six of the plan the cease to pump condition will apply to	
	aquifer access licences extracting from all alluvial aquifers within 40m of	
	an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point	Barnard River at the Measuring Weir gauge.	
Amendment	N/a	
Provisions		

	Trading rules
Trading INTO the water source	Trading into the Water Source is permitted, subject to assessment from the Lower Barnard River Water Source but not if share component exceeds 10 ML in the Upper Barnard Water Source. Trading out of the Water Source is permitted, subject to assessment to Lower Barnard River, Mid Manning River and Lower Manning River Water Sources.
Trading WITHIN the water source	Permitted, subject to assessment

Upper Barnard River water source - Rules Summary 17 of 21

Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

	N	anaging Alluvial Groundwater Bores
To minimise interference between neighbouring bores		New bores are not to be located within the following distances of existing bores:
		 200m from an access licence bore
These rules apply to new bores.		 200m from a BLR bore
bores.		 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		 100m from a local or major water utility bore (or as otherwise assessed)
		 400m from departmental monitoring bore (unless negotiated with the department)
	•	These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	•	These specified distances may also be varied after year five of the plan by the Minister.
Management of bores near contaminated sites. These rules apply to new bores. These rules do not apply to replacement bores.	•	New bores are not to be located within the 100m of contaminated sites as identified within the plan.
	•	This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
	•	New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.
	•	Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.

Upper Barnard River water source - Rules Summary 17 of 21

Granting of bores near groundwater	-		es are not to be located within the following distances of high ity GDEs (non Karst) as identified within the plan:
dependent ecosystems		0	100m for bores used for extracting for BLR,
These rules apply to new &		0	200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	•		es are not to be located within the following distances from these tified features:
replacement bores that are		0	500m of karsts,
part of a Local or Major Water Utility or Town		0	40m of a river or stream (3rd order or above),
Water Supply bore field or network.		0	40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•		se rules do not apply to works for monitoring, environmental agement purposes or remedial work.
	•	hydr	distances from GDEs may be varied for an applicant if a ogeological study is undertaken which demonstrates no /down of the groundwater at the outside edge of the GDE listed in Plan.
		iden	se specified distances may be amended, or high priority GDEs tified within the Plan may be added or removed, based on further ies of groundwater ecosystem dependency undertaken by the ster.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Upper Barrington River water source - Rules Summary 18 of 21

Water Sharing Rules Upper Barrington River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

	Access Rules			
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.				
Cease to Pump	For the first five years of the plan all licence holders must cease to			
	pump when:			
	(a) there is no visible flow immediately downstream of their pump			
	site or into and out of the pumping pool, and			
	(b) there is no visible flow at the reference point,			
	From year six all licence holders must cease to pump when:			
	(c) there is no visible flow immediately downstream of their pump			
	site or into and out of the pumping pool, and			
	(d) the flow at the reference point in equal to or less than 32ML/day			
	(which corresponds to the estimated 98th%ile flow).			
	From year six all licence must not commence to pump until:			
	(e) there is a visible flow immediately downstream of their pump			
	site or into and out of the pumping pool, and			
	(a) the flow at the reference point in equal to or greater than 39			
	ML/day (which corresponds to the estimated 97th%ile flow)			
	NB: From year six of the plan the cease to pump condition (b) will apply			
	to aquifer access licences extracting from all alluvial aquifers within 40m			
	of an unregulated river, except for existing Domestic and Stock access			
	licences and Local Water Utilities Access licences.			
Reference Point	Barrington River at Forbesdale (commonly known as Rocky Crossing)			
Amendment	The specified cease and commence to pump levels may be amended			
Provisions	through further studies after year five. The cease to pump may be			
	amended to a level no less than the 99th percentile (which corresponds			
	to 23 ML/day) and no more than the 95th percentile (which corresponds to 61 ML/day).			
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Upper Barrington River water source - Rules Summary 18 of 21

	Trading rules
Trading INTO the water source	No net gain trading permitted into the Upper Barrington River Management Zone from the Lower Manning River and Lower Barrington/Gloucester Rivers Water Sources. Trading out of the Water Source is permitted, subject to assessment to Lower Barrington/Gloucester River and Lower Manning River
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source with limitations; within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone
Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

	Μ	anaging Alluvial Groundwater Bores
To minimise interference between	•	New bores are not to be located within the following distances of existing bores:
neighbouring bores		 200m from an access licence bore
These rules apply to new		o 200m from a BLR bore
bores.		 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		 100m from a local or major water utility bore (or as otherwise assessed)
		 400m from departmental monitoring bore (unless negotiated with the department)
	•	These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	•	These specified distances may also be varied after year five of the plan by the Minister.
Management of bores near contaminated	•	New bores are not to be located within the 100m of contaminated sites as identified within the plan.
sites. These rules apply to new bores. These rules do not apply to replacement bores.	•	This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
	•	New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.

	•	Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.
Granting of bores near groundwater dependent ecosystems These rules apply to new &	•	 Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: 100m for bores used for extracting for BLR, 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i> <i>replacement</i> bores that are <i>part of a Local or Major</i> <i>Water Utility or Town</i> <i>Water Supply bore field or</i> <i>network.</i>	•	Bores are not to be located within the following distances from these identified features: • 500m of karsts,
		 40m of a river or stream (3rd order or above), 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	-	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.
Temporary local impact area rules for managing water quality and maintaining groundwater levels These rules apply to all bores.	•	In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

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Upper Gloucester River water source - Rules Summary 19 of 21

Water Sharing Rules Upper Gloucester River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 July 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following rules are a guide only. For more information please contact WaterNSW			
	on 1300 662 077.		
Cease to Pump	For the first five years of the plan existing licence conditions remain.		
	From year six all licence holders must cease to pump when:		
	 (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and 		
	(b) the flow at the reference point is equal to or less than the		
	98th percentile flow (which is estimated to correspond to a 1 ML/day flow).		
	From year six all licence must not commence to pump until:		
	(c) there is a visible flow immediately downstream of their pump		
	site or into and out of the pumping pool, and		
	(d) the flow at the reference point is equal to or greater than the		
	97th percentile flow.		
	NB: From year six of the plan the cease to pump condition (b) will apply to aquifer access licences extracting from all alluvial aquifers within 40m of an unregulated river, except for existing Domestic and Stock access		
	licences and Local Water Utilities Access licences.		
Reference Point	Gloucester River at Gloucester gauge		
Amendment	The specified cease and commence to pump levels may be amended		
Provisions	through further studies. The cease to pump may be amended to a level		
	no less than visible flow and no more than the 95th percentile (which is		
	currently estimated to corresponds to 6 ML/day). A review of the 50th		
	percentile at year five of this Plan may provide a revised B Class flow.		

	Trading rules
Trading INTO the water source	No net gain trades permitted into the Upper Gloucester River Management Zone from the Lower Manning River and Lower Barrington/Gloucester Rivers Water Sources. Trading out of the Water Source is permitted, subject to assessment to Lower Barrington/Gloucester River and Lower Manning River Water Sources.
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source and within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone

Upper Gloucester River water source - Rules Summary 19 of 21

Conversion to High Flow Access Licence	Permitted, subject to assessment with conversion rate of 1:2.5 for share components from unregulated river to unregulated high flow access licences. Access when flows at or greater than 73 ML/day at the Gloucester River at Gloucester gauge.
Conversion to Aquifer Access Licence	Not permitted

Managing Alluvial Groundwater Bores		
To minimise interference between	 New bores are not to be located within the following distances of existing bores: 	
neighbouring bores	 200m from an access licence bore 	
These rules apply to new	 200m from a BLR bore 	
bores.	\circ 300m from the boundary (unless negotiated with neighbour).	
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 	
	 400m from departmental monitoring bore (unless negotiated with the department) 	
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 	
	 These specified distances may also be varied after year five of the plan by the Minister. 	
Management of bores near contaminated sites.	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 	
These rules apply to new bores. These rules do not apply to	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 	
replacement bores.	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 	
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 	
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 	
	 Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source. 	

Upper Gloucester River water source - Rules S	Summary 19 of 21
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Granting of bores near groundwater	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. These rules do not apply to	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: www.industry.nsw.gov.au/water

Upper Manning River water source - Rules Summary 20 of 21

Water Sharing Rules Upper Manning River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules		
The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.	
Cease to Pump	For the first five years of the plan existing licence conditions remain.	
	From year six all licence holders must cease to pump when:	
	 (a) there is no visible flow immediately downstream of their pump site or into and out of the pumping pool, and 	
	(b) the flow at the reference point in equal to or less than the	
	98%ile flow (which is estimated to correspond to a 14 ML/day flow).	
	From year six all licence must not commence to pump until:	
	(c) there is a visible flow immediately downstream of their pump	
	site or into and out of the pumping pool, and	
	(d) the flow at the reference point in equal to or greater than 39 the	
	97th%ile flow (which is estimated to correspond to a 17 ML/day flow).	
	NB: From year six of the plan the cease to pump condition (b) will apply	
	to aquifer access licences extracting from all alluvial aquifers within 40m	
	of an unregulated river, except for existing Domestic and Stock access	
	licences and Local Water Utilities Access licences.	
Reference Point	Manning River at Leslies Bridge Gauge	
Amendment	The specified cease and commence to pump levels may be amended	
Provisions	through further studies after year five. The cease to pump may be	
	amended to a level no less than visible flow and no more than the 95th	
	percentile (which is currently estimated to correspond to 22 ML/day).	

Trading rules		
Trading INTO the water source	No net gain trades permitted into the Upper Manning River Management Zone from the Lower Manning River and Mid Manning River Water Sources. Trading out of the Water Source is permitted, subject to assessment to Mid Manning River and Lower Manning River Water Sources.	
Trading WITHIN the water source	Trading permitted, subject to assessment within the Water Source and within management zones, but not into the Headwater Zone if it results in more than 10ML of entitlement in this zone	

1 Department of Water and Energy, August 2009

Upper Manning River water source - Rules Summary 20 of 21

Conversion to High Flow Access Licence	Not permitted
Conversion to Aquifer Access Licence	Not permitted

Managing Alluvial Groundwater Bores		
To minimise interference between neighbouring bores	-	New bores are not to be located within the following distances of existing bores:
		 200m from an access licence bore
These rules apply to new		 200m from a BLR bore
bores.		 300m from the boundary (unless negotiated with neighbour).
These rules do not apply to replacement bores.		 100m from a local or major water utility bore (or as otherwise assessed)
		 400m from departmental monitoring bore (unless negotiated with the department)
	•	These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction.
	•	These specified distances may also be varied after year five of the plan by the Minister.
Management of bores near contaminated sites. These rules apply to new bores. These rules do not apply to replacement bores.	•	New bores are not to be located within the 100m of contaminated sites as identified within the plan.
	•	This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health.
	•	New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur.
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister.
	•	Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.

Upper Manning River water source - Rules Summary 20 of 21

Granting of bores near groundwater	•	Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan:
dependent ecosystems		 100m for bores used for extracting for BLR,
These rules apply to new &		 200m for bores used for all other aquifer access licences,
<i>replacement</i> bores. <i>These rules do not apply to</i>	•	Bores are not to be located within the following distances from these identified features:
replacement bores that are		o 500m of karsts,
part of a Local or Major Water Utility or Town		\circ 40m of a river or stream (3rd order or above),
Water Supply bore field or network.		 40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)
	•	These rules do not apply to works for monitoring, environmental management purposes or remedial work.
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.
	•	These specified distances may be amended, or high priority GDEs identified within the Plan may be added or removed, based on further studies of groundwater ecosystem dependency undertaken by the Minister.

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>

Water Sharing Rules Wallamba River Water Source

Water Sharing Plan		
Plan	Lower North Coast Unregulated and Alluvial	
Plan Commencement Date	1 August 2009	
Term of the Plan	10 years	
Water Sharing Rules	These rules apply to all surface waters in the water source, as well	
	as the alluvial groundwater that is highly connected to the surface waters.	

Access Rules			
The following ru	The following rules are a guide only. For more information please contact WaterNSW		
	on 1300 662 077.		
Cease to Pump	All licence holders must cease to pump when:		
	(a) there is no visible flow immediately downstream of their pump		
	site or into and out of the pumping pool, and		
	(b) there is no visible flow at the reference point.		
	All licence holders cannot commence to pump until there has been		
	24hrs of flow following exceedance of very low flow class.		
	NB: From year six of the plan the cease to pump condition will apply to		
	aquifer access licences extracting from all alluvial aquifers within 40m of		
	an unregulated river, except for existing Domestic and Stock access		
	licences and Local Water Utilities Access licences.		
Reference Point	Dargavilles Road Crossing for Wallamba River and other specific sites		
	for each tributary as required.		
Amendment	Further field verification or studies may inform a change to the reference		
Provisions	point.		

Trading rules				
Trading INTO the	No trading into or out of the Water Source.			
water source				
Trading WITHIN the	Trading permitted, subject to assessment within the Water Source			
water source	within and between management zones, but not from the Upper			
	Wallamba River Management Zone or the Tidal Wallamba River			
	Management Zone into the Khappinghat Management Zone.			
Conversion to High	Not permitted			
Flow Access Licence				
Conversion to	Not permitted			
Aquifer Access				
Licence				

Managing Alluvial Groundwater Bores						
To minimise interference between neighbouring bores	 New bores are not to be located within the following distances of existing bores: 					
	 200m from an access licence bore 					
These rules apply to new bores.	 200m from a BLR bore 					
	 300m from the boundary (unless negotiated with neighbour). 					
These rules do not apply to replacement bores.	 100m from a local or major water utility bore (or as otherwise assessed) 					
	 400m from departmental monitoring bore (unless negotiated with the department) 					
	 These distances may be varied by the Minister if the applicant undertakes a hydrogeological study, assessed as adequate by the Minister, which demonstrates minimal potential for adverse impacts on existing authorised extraction. 					
	 These specified distances may also be varied after year five of the plan by the Minister. 					
Management of bores near contaminated	 New bores are not to be located within the 100m of contaminated sites as identified within the plan. 					
sites. These rules apply to new bores. These rules do not apply to replacement bores.	 This distance may be varied for an applicant if the applicant can demonstrate no more than minimal harm to the groundwater source and there is no impact on the environment or threat to public health. 					
	 New bores located within 100m–500m of contaminated sites as identified within the plan will require Ministerial approval and have evidence that no drawdown of groundwater within 100 m of the contamination source will occur. 					
	 These rules do not apply to works for monitoring, environmental management purposes or remedial work. 					
	 These rules may also be applied to contaminated sources not identified within the plan, based on the results of a site inspection or other relevant information provided to the Minister. 					
	• Contaminated sites identified within the Plan may be added or removed by the Minister based on results of a site inspection or other relevant information provided to the Minister on that contamination source.					

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Granting of bores near groundwater dependent ecosystems	 Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: 				
		0	100m for bores used for extracting for BLR,		
These rules apply to new & replacement bores. These rules do not apply to replacement bores that are part of a Local or Major Water Utility or Town Water Supply bore field or network.	•	0	200m for bores used for all other aquifer access licences,		
			es are not to be located within the following distances from these tified features:		
		0	500m of karsts,		
		0	40m of a river or stream (3rd order or above),		
		0	40m of a 1st or 2nd order stream, unless drilled into underlying parent material and slotted intervals commence deeper than 30m. (30m may be amended if demonstrate minimal impact on base flows in the stream.)		
	•		e rules do not apply to works for monitoring, environmental agement purposes or remedial work.		
	•	The distances from GDEs may be varied for an applicant if a hydrogeological study is undertaken which demonstrates no drawdown of the groundwater at the outside edge of the GDE listed in the Plan.			
	•	iden	se specified distances may be amended, or high priority GDEs tified within the Plan may be added or removed, based on further les of groundwater ecosystem dependency undertaken by the ster.		

For more information about the Water Sharing Plan for the Lower North Coast unregulated and alluvial water sources refer to on the department's website: <u>www.industry.nsw.gov.au/water</u>