

Water Sharing Rules Avon River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| 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 | |
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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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 draw down of groundwater within 100m 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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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

Water Sharing Rules

Bowman River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For years one to five of the plan existing licence conditions remain.</p> <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 27 ML/day (which corresponds to the estimated 98th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 40ML/day (which corresponds to the estimated 97th%ile flow). <p>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.</p> |
| Reference Point | Gloucester River at Doon Ayre Gauge |
| Amendment Provisions | The specified cease and commence to pump levels may be amended 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 | |
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| Trading INTO the water source | No net gain trading into the Water Source is permitted, subject to 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 water source | Trading permitted, subject to assessment within the 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 Flow Access Licence | Not permitted |

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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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 draw down of groundwater within 100m 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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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>All licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>All licence holders cannot commence to pump until there has been 24hrs of flow following exceedance of very low flow class</p> <p>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.</p> |
| Reference Point | Locketts Crossing for the Coolongolook River and other specific sites for each tributary as required. |
| Amendment Provisions | Further field verification or studies may inform a change to the reference point. |

| Trading rules | |
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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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 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 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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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied. |

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DWE 09_088

Water Sharing Rules

Cooplacurripa River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>From year six of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 61 ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 64ML/day (which corresponds to the estimated 94.5th%ile flow) <p>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.</p> |
| Reference Point | Nowendoc River at Rocks Crossing Gauge |
| Amendment Provisions | n/a |

| Trading rules | |
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| 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 |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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 draw down of groundwater within 100m 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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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • In order to protect water quality and maintain groundwater levels within this groundwater source, local restrictions may be applied. |

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Water Sharing Rules

Dingo Creek Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For years one to five of the plan existing licence conditions remain.</p> <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 98thile flow ML/day (which corresponds to an estimated 2.6 ML/day). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 97thile flow, or 2ML greater than the 98thile flow, whichever is the greater (the 97thile flow corresponds to an estimated 3 ML/day). <p>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.</p> |
| Reference Point | Dingo Creek at Munyaree Flat Gauge |
| Amendment Provisions | Cease and commence to pump conditions may be amended after year five of this Plan, based on sufficient data collection to enable determination of cease to pump and commence to pump levels, and review of B Class flows at the 50th percentile. |

| Trading rules | |
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| 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. |

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| Conversion to Aquifer Access Licence | Not permitted |
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| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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 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 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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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

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 about your actual licence conditions please call DPI Water, Newcastle on (02) 4904 2500

Access rules

Karuah Estuarine Management Zone

Access rules for surface waters

| | |
|-----------------------------------|---|
| Daily pumping restrictions | Nil. |
| Cease to pump | <p>Pumping is not permitted from natural pools when the water level in the pool is lower than its full capacity.</p> <p>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.</p> <p>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.</p> <p>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.</p> |
| Reference point | Individual natural pool. |

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*.

Access rules for aquifers

| | |
|----------------------|---|
| Cease to pump | <p>From year 6 of the plan, pumping is not permitted when flows are no longer visible into and out of the closest reference point.</p> <p>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.</p> <p>Any new groundwater users will be subject to the surface water access rules from year 1 of the plan.</p> |
|----------------------|---|

| Access rules | |
|--|-------------------------|
| Karuah Estuarine Management Zone | |
| Reference point | Individual natural pool |
| <p>Note: Existing <i>Water Act 1912</i> licence conditions that are more stringent than these access rules will be carried forward.</p> <p>Note: These access rules do not apply to:</p> <ol style="list-style-type: none"> 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 <i>Water Management Act 2000</i>. | |

| Access rules | |
|---|---|
| Karuah Upriver Management Zone | |
| Access rules for surface waters | |
| Daily pumping restrictions | Nil. |
| Cease to pump | <p>Pumping is not permitted when flows are equal to or less than 3.5 ML/day (approx = Nov 90th%ile) at the reference point.</p> <p>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.</p> |
| Commence to pump | On a rising river pumping is to be delayed for 24 hours. |
| Flow classes and Total daily extraction limits (TDELs) | <p>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,</p> <p>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</p> <p>Medium and high flows or B class: when flows are greater than 18 ML/day.</p> |
| Reference point | Karuah River at Booral, Gauge Station Number 209003. |
| Access rules for aquifers | |
| Cease to pump | <p>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.</p> <p>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.</p> <p>Any new groundwater users will be subject to the surface water access rules from year 1 of the plan.</p> |
| Reference point | Karuah River at Booral, Gauge Station Number 209003. |

| Access rules | |
|--|--|
| Karuah Upriver Management Zone | |
| 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: <ol style="list-style-type: none"> 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 <i>Water Management Act 2000</i>. | |

| Trading rules | |
|--|--|
| Karuah Estuarine Management Zone | |
| INTO management zone | Trades permitted only from the Karuah Upriver Management Zone. |
| WITHIN management zone | Trades permitted, subject to assessment. |
| Karuah Upriver Management Zone | |
| INTO 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 licence | Permitted. |

| 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. |

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.water.nsw.gov.au.

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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 | |
|---|--|
| <p>The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500.</p> | |
| Lower Barnard River Upper Reaches Management Zone | |
| Cease to Pump | <p>For the first five years of the plan all licence holders (excluding major utility access licences) must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders (excluding major utility access licences) must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 11 ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licences (excluding major utility access licences) must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 13 ML/day (which corresponds to the estimated 94.5th%ile flow). <p>Major utility access licences must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than the 80th percentile flow, <p>Major utility access licences must not commence to pump until:</p> <ul style="list-style-type: none"> (i) there is a visible flow immediately downstream of their pump site or into and out of the pumping pool, and (j) the flow at the reference point is equal to or greater than the 80th percentile flow, <p>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.</p> |
| Reference Point | Barnard River at the Measuring Weir gauge. |

| Lower Barnard River Management Zone | |
|--|---|
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 32 ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is 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 Provisions | n/a |

| Trading rules | |
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| 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 |

| Managing Alluvial Groundwater Bores | |
|--|--|
| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

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 about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Lower Barrington River Upper Reaches Management Zone | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 32ML/day (which corresponds to the estimated 98th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 39 ML/day (which corresponds to the estimated 97th%ile flow) <p>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.</p> |
| Reference Point | Barrington River at Forbesdale gauge (commonly known as Rocky Crossing). |
| 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 23 ML/day) and no more than the 95th percentile (which corresponds to 61 ML/day). |

| Lower Barrington River Management Zone/Lower Gloucester River Management Zone | |
|--|---|
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 27ML/day (which corresponds to the estimated 98th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 40 ML/day (which corresponds to the estimated 97th%ile flow) <p>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.</p> |
| Reference Point | Gloucester River at Doon Ayre Gauge |
| Amendment Provisions | <p>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.</p> |

| Trading rules | |
|---|---|
| Trading INTO the water source | <p>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.</p> |
| Trading WITHIN the water source | Permitted, subject to assessment |
| Conversion to High Flow Access Licence | <p>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).</p> |
| Conversion to Aquifer Access Licence | Permitted, subject to assessment |

| Managing Alluvial Groundwater Bores | |
|--|--|
| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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|---|--|
| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
|---|--|

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.dwe.nsw.gov.au

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DWE 09_088

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 | |
|---|---|
| <p>The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500.</p> | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 98ML/day (which corresponds to the estimated 98thth percentile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 137 ML/day (which corresponds to the estimated 97thth percentile flow). <p>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.</p> |
| Reference Point | 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). |

| Trading rules | |
|---|---|
| Trading INTO the water source | Trading into the Water Source is permitted, subject to assessment from 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 water source | Trading permitted, subject to assessment throughout the Water Source, except from downstream of, to upstream of identified high priority groundwater dependent ecosystems. |
| 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 1566 ML/day at the Manning River at Killawarra gauge. |
| Conversion to Aquifer Access Licence | Not permitted |

| Managing Alluvial Groundwater Bores | |
|--|--|
| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |

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| <p>Management of bores near contaminated sites. <i>These rules apply to new bores.</i> <i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |
| <p>Granting of bores near groundwater dependent ecosystems <i>These rules apply to new & replacement bores.</i> <i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |

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.dwe.nsw.gov.au

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DWE 09_088

Water Sharing Rules

Manning Estuary Tributaries Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| 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 Provisions | The cease to pump provisions may be amended after year five based on field verification and the review of relevant studies. |

| Trading rules | |
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| 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 Mid Manning River Water Source, the Lower Barnard 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 Bowman River Water Source, the Upper Gloucester River Management Zone of the Upper Gloucester River Water Source and the Avon River Water Source. |
| Trading WITHIN the water source | Within but not between management zones |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| 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 | |
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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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.dwe.nsw.gov.au

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DWE 09_088

Water Sharing Rules

Mid Manning River Water Source

| Water Sharing Plan | |
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| 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 | |
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| <p>The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500.</p> | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 98ML/day (which corresponds to the estimated 98th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 137 ML/day (which corresponds to the estimated 97th%ile flow) <p>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.</p> |
| Reference Point | 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). |

| Trading rules | |
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| 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 than 1566 ML/day at the Manning River at Killawarra gauge. |
| Conversion to Aquifer Access Licence | Not permitted |

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| | <ul style="list-style-type: none"> ▪ 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. |
| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 32ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 34 ML/day (which corresponds to the estimated 94.5th%ile flow). <p>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.</p> |
| Reference Point | Barnard River at Mackay Gauge |
| Amendment Provisions | N/a |

| Trading rules | |
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| 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 |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | No access rules specified. |
| Reference Point | N/a |
| Amendment Provisions | N/a |

| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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.dwe.nsw.gov.au

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DWE 09_088

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>All licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>All licence holders cannot commence to pump until there has been 24hrs of flow following exceedance of very low flow class.</p> <p>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.</p> |
| 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 the reference point. |

| Trading rules | |
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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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.dwe.nsw.gov.au

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DWE 09_088

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 | |
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| <p>The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500.</p> | |
| Cease to Pump | <p>For the first five years all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>From year six of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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) <p>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.</p> |
| Reference Point | Nowendoc River at Rocks Crossing Gauge |
| Amendment Provisions | N/a |

| 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 |

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |

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| <p>Management of bores near contaminated sites. <i>These rules apply to new bores.</i> <i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |
| <p>Granting of bores near groundwater dependent ecosystems <i>These rules apply to new & replacement bores.</i> <i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |

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DWE 09_088

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>From year six of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 61 ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 64ML/day (which corresponds to the estimated 94.5th%ile flow) <p>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.</p> |
| Reference Point | Nowendoc River at Rocks Crossing Gauge |
| Amendment Provisions | N/a |

| Trading rules | |
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| Trading INTO the water source | No net trade into the Rowleys River Management Zone from the Lower Manning River Water Source and the Nowendoc River downstream of Cooplacurripa River Confluence Management Zone is permitted, subject to assessment. Trading out of the Water Source is permitted to Nowendoc River downstream of Cooplacurripa and to Lower Manning River Water Source. |

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| 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 |

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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DWE 09_088

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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 11 ML/day (which corresponds to the estimated 95th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 13 ML/day (which corresponds to the estimated 94.5th%ile flow) <p>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.</p> |
| Reference Point | Barnard River at the Measuring Weir gauge. |
| Amendment Provisions | N/a |

| Trading rules | |
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| 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 |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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 | |
|---|---|
| <p>The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500.</p> | |
| Cease to Pump | <p>For the first five years of the plan all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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, <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 is equal to or less than 32ML/day (which corresponds to the estimated 98th%ile flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 is equal to or greater than 39 ML/day (which corresponds to the estimated 97th%ile flow) <p>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.</p> |
| Reference Point | Barrington River at Forbesdale (commonly known as Rocky Crossing) |
| 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 23 ML/day) and no more than the 95th percentile (which corresponds to 61 ML/day). |

| Trading rules | |
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| 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 |

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| | <ul style="list-style-type: none"> • 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. |
| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
| <p>Temporary local impact area rules for managing water quality and maintaining groundwater levels</p> <p><i>These rules apply to all bores.</i></p> | <ul style="list-style-type: none"> • 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: www.dwe.nsw.gov.au

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DWE 09_088

Water Sharing Rules

Upper Gloucester River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years of the plan existing licence conditions remain.</p> <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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. <p>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.</p> |
| Reference Point | Gloucester River at Gloucester 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 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 | |
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| 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 |

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| 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 | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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.water.nsw.gov.au

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DWE 09_088

Water Sharing Rules

Upper Manning River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>For the first five years of the plan existing licence conditions remain.</p> <p>From year six all licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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 98%ile flow (which is estimated to correspond to a 14 ML/day flow). <p>From year six all licence must not commence to pump until:</p> <ul style="list-style-type: none"> (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 39 the 97th%ile flow (which is estimated to correspond to a 17 ML/day flow). <p>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.</p> |
| Reference Point | Manning River at Leslies Bridge 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 visible flow and no more than the 95th percentile (which is currently estimated to correspond to 22 ML/day). |

| Trading rules | |
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| 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 |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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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.dwe.nsw.gov.au

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Water Sharing Rules

Wallamba River Water Source

| Water Sharing Plan | |
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| 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 | |
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| The following rules are a guide only. For more information about your actual license conditions, please contact licensing staff from the Department of Water and Energy in Newcastle, phone 4904 2500. | |
| Cease to Pump | <p>All licence holders must cease to pump when:</p> <ul style="list-style-type: none"> (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. <p>All licence holders cannot commence to pump until there has been 24hrs of flow following exceedance of very low flow class.</p> <p>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.</p> |
| Reference Point | Dargavilles Road Crossing for Wallamba River and other specific sites for each tributary as required. |
| Amendment Provisions | Further field verification or studies may inform a change to the reference point. |

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

| Managing Alluvial Groundwater Bores | |
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| <p>To minimise interference between neighbouring bores</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ New bores are not to be located within the following distances of existing bores: <ul style="list-style-type: none"> ○ 200m from an access licence bore ○ 200m from a BLR bore ○ 300m from the boundary (unless negotiated with neighbour). ○ 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. |
| <p>Management of bores near contaminated sites.</p> <p><i>These rules apply to new bores.</i></p> <p><i>These rules do not apply to replacement bores.</i></p> | <ul style="list-style-type: none"> ▪ 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. |

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| <p>Granting of bores near groundwater dependent ecosystems</p> <p><i>These rules apply to new & replacement bores.</i></p> <p><i>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.</i></p> | <ul style="list-style-type: none"> ▪ Bores are not to be located within the following distances of high priority GDEs (non Karst) as identified within the plan: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ 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. |
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