

Rules summary sheet for the Botany Sands Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	11 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access rules	
Rules for the granting of access licences	
<p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
<p>Carryover</p>	<ul style="list-style-type: none"> • No carryover of account water from one year to the next. • Maximum amount of water permitted to be taken in any one water year is the water allocation accrued in the water licence access account for that water year, adjusted for allocation assignments out of or into individual accounts.

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 200m from an aquifer access licence bore on another landholding, or • 50m from a basic landholders rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 300m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact. ○ Replacement bores may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem. <p>The replacement bore must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>
<p>Rules for the use of water supply works approvals</p>	
<p>To manage bores near contaminated sites</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p> <p>Note: Existing works in the Management Zone 1 of this groundwater source are currently restricted by an order under section 323 of the <i>Water Management Act 2000</i>, which was gazetted on 1 September 2006 (Note section 323 has been amended and is now section 324 under the <i>WMA 2000</i>). This order essentially prohibits the extraction of water except for specified purposes, including industrial, monitoring and testing.</p>
<p>To manage the use of existing bores within restricted distances</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
<p>To manage the impacts of extraction</p>	<p>The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.</p>
<p>Limits to the availability of water</p>	
<p>Available Water Determinations (AWDs)</p>	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>

Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted only from Management Zone 1 into Management Zone 2 Permitted subject to local impact assessment
Conversion to another category of licence	Not permitted

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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NOW 11_069.s1

Rules summary for the Coxs River Fractured Rock Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access rules	
Rules for granting of access licences	
<p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
<p>Carryover</p>	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>

Rules for Managing Access Licences	
<p>Managing surface and groundwater connectivity</p>	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
<p>To minimise interference between neighbouring water supply works</p>	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore extracting greater than 20ML/yr on another landholding, or • 200m from an aquifer access licence bore extracting less than 20ML/yr on another landholding, or • 200m from a basic landholder rights bore on another landholding, or • 100m from a property boundary (unless written consent from neighbour), or • 500m from a local or major water utility bore, or • 400m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect bores located near contamination</p>	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>
<p>Rules for the use of water supply works approvals</p>	
<p>Management of water supply works near contaminated sites</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
<p>Management of water supply works within restricted distances</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
<p>Management of the impacts of extraction</p>	<p>The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.</p>
<p>Limits to the availability of water</p>	
<p>Available Water Determinations (AWDs)</p>	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
<p>Trading rules</p>	
<p>INTO water source</p>	<p>Not permitted.</p>
<p>WITHIN water source</p>	<p>Permitted, subject to local impact assessment</p>
<p>Conversion to another category of licence</p>	<p>Not permitted</p>

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Goulburn Fractured Rock Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access Rules	
Rules for granting of access licences.	
<p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
<p>Carryover</p>	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>
Rules for managing access licences	
<p>Managing surface and groundwater connectivity</p>	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.

Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 200m from a basic landholder rights bore on another landholding, or • 100m from a property boundary (unless written consent from neighbour), or • 500m from a local or major water utility bore, or • 400m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near sensitive environmental areas	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences, or <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>
<p>Rules for the use of water supply works approvals</p>	
<p>To manage bores located near contaminated sites</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
<p>To manage the use of bores within restricted distances</p>	<p>The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
<p>To manage the impacts of extraction</p>	<p>The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.</p>
<p>Limits to the availability of water</p>	
<p>Available Water Determinations (AWDs)</p>	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>

Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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NOW 11_069.s3

Rules summary sheet for the Hawkesbury Alluvium Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary

The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the NSW Office of Water in Penrith, phone (02) 4729 8122.

Access rules

Rules for granting of access licences.

Hawkesbury Alluvium Groundwater Source

Granting of access licences may be considered for the following:

- Local water utility, major water utility, domestic and stock, and town water supply
These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.
- Aquifer (Aboriginal cultural), up to 10ML/yr
- No controlled allocation provided for in this water source.
- To allow for possible changes in the understanding of this water source, should a review of recharge, environmental requirements and access requirements be undertaken and new information becomes evident, the proposed rules allow for controlled allocation to occur should unassigned water become available through an amendment provision.

Rules for managing water allocation accounts

Carryover

- No water allocation in water allocation accounts can be carried over from one water year to the next for any access licence in this water source.
- Total water that may be taken under an access licence water allocation account is not exceed 100% of the access licence share component where this is expressed as ML/yr or 1ML per share where the share component is expressed in share units, plus any water allocation assigned from another licence in that water year, minus any water allocation assigned to another licence in that water year.

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes: <ul style="list-style-type: none"> ○ will be subject to the relevant access rules applying to the unregulated river access licences of the Upper Hawkesbury (Grose River to South Creek) Management Zone in the Water Sharing Plan for the Greater Metropolitan Region Unregulated Water Sources. • For water supply works located at a distance greater than 40m from the top of the high back of a river or creek, except existing works for domestic and stock, local water utility, town water supply, food safety or essential dairy care purposes: <ul style="list-style-type: none"> ○ will be subject to the relevant access rules applying to the unregulated river access licences of the Upper Hawkesbury (Grose River to South Creek) Management Zone in the Water Sharing Plan for the Greater Metropolitan Region Unregulated Water Sources with a 30 day delay in commencement. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 200m from an aquifer access licence bore on another landholding, or • 200m from a basic landholders rights bore on another landholding, or • 100m from a property boundary (unless written consent from neighbour), or • 500m from a local or major water utility bore, or • 100m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences, or <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) are not to be located within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater then 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing work and to a depth specified by the Minister</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; OR • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high back of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Maroota Tertiary Sands Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the NSW Office of Water in Parramatta, phone (02) 8838 7531.</p>	
Access rules	
Rules for granting of access licences.	
<p>Maroota Tertiary Sands Groundwater Source</p> <p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> Aquifer (Aboriginal cultural), up to 10ML/yr
Rules for managing water allocation accounts	
Carryover	<ul style="list-style-type: none"> No water allocation in water allocation accounts can be carried over from one water year to the next for any access licence in this water source. Total water that may be taken under an access licence water allocation account is not exceed 100% of the access licence share component where this is expressed as ML/yr or 1ML per share where the share component is expressed in share units, plus any water allocation assigned from another licence in that water year, minus any water allocation assigned to another licence in that water year.

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting or amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 100m from an aquifer access licence bore on another landholding, or • 50m from a basic landholders rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 500m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences, or <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater then 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater water supply works</p> <p><i>These rules apply to all replacement water supply works</i></p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; OR • If the existing bore is located within 40 metres of the high bank of a river the replacement work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high back of the river or a distance greater if the Minister is satisfied that it will result in no greater impact ○ Replacement bores may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem. ○ The replacement bore must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Report Card for the Metropolitan Coastal Sands Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.	
Access rules	
Rules for granting of access licences.	
Granting of access licences may be considered for the following:	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
Carryover	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting or amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 200m from an aquifer access licence bore on another landholding, or • 50m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 300m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) are not to be located within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; OR • If the existing bore is located within 40 metres of the high bank of a river the replacement work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin Blue Mountains Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective groundwater sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the NSW Office of Water in Parramatta, phone (02) 8838 7531.</p>	
Access rules	
Rules for granting of access licences.	
<p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> Aquifer (Aboriginal cultural), up to 10ML/yr No controlled allocation provided for in this water source. To allow for possible changes in the understanding of this water source, should a review of recharge, environmental requirements and access requirements be undertaken and new information becomes evident, the proposed rules allow for controlled allocation to occur should unassigned water become available through an amendment provision.
Rules for managing water allocation accounts	
<p>Carryover</p>	<ul style="list-style-type: none"> Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect water quality	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement bore must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement groundwater work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing water supply work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement groundwater work must be no greater than 110% of the existing water supply work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin Central Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective groundwater sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access rules	
Rules for granting of access licences.	
Granting of access licences may be considered for the following:	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
Carryover	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect water quality	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement bore must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin Coxs River Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective groundwater sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary

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

Access rules

Rules for granting of access licences.

Granting of access licences may be considered for the following:

- Local water utility, major water utility, domestic and stock, and town water supply
These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.
- Aquifer (Aboriginal cultural), up to 10ML/yr
- Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.

Rules for managing water allocation accounts

Carryover

- Up to 10% entitlement allowed.
Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.

Rules for managing access licences

Managing surface and groundwater connectivity

- From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), **existing** works within 40 metres of the top of the high bank of a river or creek, **except existing** works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish:
 - the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or
 - in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river.
- These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated.
- For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.

Rules for granting and amending water supply works approvals	
<p>To minimise interference between neighbouring water supply works</p>	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect bores located near contamination</p>	<p>No water supply works (bores) are to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Protection of water quality</p>	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>
<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) are not to be located within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and</i></p>

	<i>exemptions from these rules.</i>
To protect groundwater dependent culturally significant sites	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
Rules for replacement groundwater works	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>
Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>

Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin Nepean Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access rules	
Rules for granting of access licences.	
<p>Management Zone 1 & Management Zone 2:</p> <p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source. • Note: If water is made available through controlled allocation in this water source it is unlikely to be made available for extraction in Management Zone 1.
Rules for managing water allocation accounts	
Carryover	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. • <i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect water quality	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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.), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for BLR, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted
WITHIN groundwater source	<ul style="list-style-type: none"> • Trading within groundwater source, from Management Zone 2 to Management Zone 1 is prohibited if the trade will increase the total licensed entitlement for the management zone from that at the commencement of the plan. • Trading within management zones permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin North Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
The following rules are a guide only. For more information please contact WaterNSW 1300 662 077.	
Access rules	
Rules for granting of access licences.	
Granting of access licences may be considered for the following:	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
Carryover	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect water quality	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement work must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	Maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin Richmond Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary	
<p>The following rules are a guide only. For more information please contact WaterNSW on 1300 662 077.</p>	
Access rules	
Rules for granting of access licences.	
<p>Granting of access licences may be considered for the following:</p>	<ul style="list-style-type: none"> • Local water utility, major water utility, domestic and stock, and town water supply <p><i>These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.</i></p> <ul style="list-style-type: none"> • Aquifer (Aboriginal cultural), up to 10ML/yr • Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.
Rules for managing water allocation accounts	
<p>Carryover</p>	<ul style="list-style-type: none"> • Up to 10% entitlement allowed. <p><i>Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.</i></p>

Rules for managing access licences	
Managing surface and groundwater connectivity	<ul style="list-style-type: none"> • From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), existing works within 40 metres of the top of the high bank of a river or creek, except existing works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish: <ul style="list-style-type: none"> ○ the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or ○ in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river. • These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated. • For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.
Rules for granting and amending water supply works approvals	
To minimise interference between neighbouring water supply works	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect bores located near contamination	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
To protect water quality	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to sealed off the shale aquifer as specified by the Minister.</p>

<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect groundwater dependent culturally significant sites</p>	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>Rules for replacement groundwater works</p>	<p>A replacement groundwater work must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement bore must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement bore must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement works may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement work must not have a greater internal diameter or excavation footprint than the existing work unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement work must be no greater than 110% of the existing work</p>

Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the use of bores within restricted distances	The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.
To manage the impacts of extraction	The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>
Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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Rules summary sheet for the Sydney Basin South Groundwater Source

Water sharing plan	
Plan	Greater Metropolitan Region groundwater sources
Plan commencement date	1 July 2011
Term of the plan	10 years
Water sharing rules	These rules apply to groundwater that is contained within aquifers beneath the respective water sources shown on the plan's map. The region is bounded by the Hawkesbury River catchment to the north and west and the Shoalhaven River catchment to the south and south west. The region also includes the groundwater of the Illawarra and metropolitan Sydney.

Rules Summary

The following rules are a guide only. For more information about your actual licence conditions, please contact licensing staff from the NSW Office of Water in Nowra, phone (02) 4429 4442

Access rules

Rules for granting of access licences.

Granting of access licences may be considered for the following:

- Local water utility, major water utility, domestic and stock, and town water supply
These are specific purpose access licences in clause 19 of the Water Management (General) Regulation 2004.
- Aquifer (Aboriginal cultural), up to 10ML/yr
- Commercial access licences under a controlled allocation order made in relation to any unassigned water in this water source.

Rules for managing water allocation accounts

Carryover

- Up to 10% entitlement allowed.
Carryover is not allowed for domestic and stock, major utility, local water utility or specific purpose access licences.

Rules for managing access licences

Managing surface and groundwater connectivity

- From year 7 of the plan, for areas adjoining unregulated water sources (i.e. rivers and creeks), **existing** works within 40 metres of the top of the high bank of a river or creek, **except existing** works for, local water utility, town water supply, food safety or essential dairy care purposes, will have conditions which establish:
 - the flow class of the river established under the water sharing plan for the corresponding unregulated water source, or
 - in the absence of a flow class, visible flow in the river at the closest point of the water supply works to the river.
- These distances and rules may be varied for an applicant if the work is drilled into the underlying parent material and the slotted intervals of the works commences deeper than 30 metres or no minimal impact on base flows in the stream can be demonstrated.
- For major utility and local water utility access licences these rules apply to new water supply works from plan commencement.

Rules for granting water supply works approvals	
<p>To minimise interference between neighbouring water supply works</p>	<p>No water supply works (bores) to be granted or amended within the following distances of existing bores:</p> <ul style="list-style-type: none"> • 400m from an aquifer access licence bore on another landholding, or • 100m from a basic landholder rights bore on another landholding, or • 50m from a property boundary (unless written consent from neighbour), or • 1,000m from a local or major water utility bore, or • 200m from a NSW Office of Water monitoring bore (unless written consent from NSW Office of Water). <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect bores located near contamination</p>	<p>No water supply works (bores) are not to be granted or amended within:</p> <ul style="list-style-type: none"> • 250m of contamination as identified within the plan, or • 250m to 500m of contamination as identified within the plan unless no drawdown of water will occur within 250m of the contamination source, • a distance greater than 500m of contamination as identified within the plan if necessary to protect the water source, the environment or public health and safety. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
<p>To protect water quality</p>	<p>To minimise the impact on water quality from saline interception in the shale aquifers overlying Sydney basin sandstone, the bore being used to take groundwater must be constructed with pressure cement to seal off the shale aquifer as specified by the Minister.</p>
<p>To protect bores located near sensitive environmental areas</p>	<p>No water supply works (bores) to be granted or amended within the following distances of high priority Groundwater Dependent Ecosystems (GDEs) (non Karst) as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used solely for extracting basic landholder rights, or • 200m for bores used for all other access licences. <p>The above distance restrictions for the location of works from high priority GDEs do not apply where the GDE is a high priority endangered ecological vegetation community and the work is constructed and maintained using an impermeable pressure cement plug from the surface of the land to a minimum depth of 30m.</p> <p>No water supply works (bores) to be granted or amended within the following distances from these identified features:</p> <ul style="list-style-type: none"> • 500m of high priority karst environment GDEs, or • a distance greater than 500m of a high priority karst environment GDE if the Minister is satisfied that the work is likely to cause drawdown at the perimeter of the high priority karst GDE, or • 40m of a river or stream or lagoon (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), or • 100m from the top of an escarpment. <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>

To protect groundwater dependent culturally significant sites	<p>No water supply works (bores) to be granted or amended within the following distances of groundwater dependent cultural significant sites as identified within the plan:</p> <ul style="list-style-type: none"> • 100m for bores used for extracting for basic landholder rights, or • 200m for bores used for all other aquifer access licences <p><i>The plan lists circumstances in which these distance rules may be varied and exemptions from these rules.</i></p>
Rules for replacement groundwater works	<p>A replacement groundwater work (bore) must be constructed to take water from the same water source as the existing bore and to a depth specified by the Minister.</p> <p>A replacement bore must be located within:</p> <ul style="list-style-type: none"> • 20 metres of the existing bore; or • If the existing bore is located within 40 metres of the high bank of a river the replacement groundwater work must be located within: <ul style="list-style-type: none"> ○ 20 metres of the existing bore but no closer to the high bank of the river or a distance greater if the Minister is satisfied that it will result in no greater impact <p>Replacement bores may be at a greater distance than 20 metres if the Minister is satisfied that doing so will result in no greater impact on the groundwater source and its dependent ecosystem.</p> <p>The replacement bore must not have a greater internal diameter or excavation footprint than the existing bore unless it is no longer manufactured. If no longer manufactured the internal diameter of the replacement groundwater work must be no greater than 110% of the existing bore.</p>
Rules for the use of water supply works approvals	
To manage bores located near contaminated sites	<p>The maximum amount of water that can be taken in any one year from an existing work within 500 metres of a contamination source is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
To manage the use of bores within restricted distances	<p>The maximum amount of water that can be taken in any one year from an existing work within the restricted distances to minimise interference between works, protect sensitive environmental areas and groundwater dependant culturally significant sites is equal to the sum of the share component of the access licence nominating that work at commencement of the plan.</p>
To manage the impacts of extraction	<p>The Minister may impose restrictions on the rate and timing of extraction of water from a water supply work to mitigate the impacts of extraction.</p>
Limits to the availability of water	
Available Water Determinations (AWDs)	<ul style="list-style-type: none"> • 100% stock and domestic, local and major utilities and specific purpose access licences • 1ML/unit of share aquifer access licences <p><i>AWD for aquifer access licences may be reduced in response to a growth in use.</i></p>

Trading rules	
INTO groundwater source	Not permitted.
WITHIN groundwater source	Permitted subject to local impact assessment.
Conversion to another category of access licence	Not permitted.

More information about the macro planning process for the Greater Metropolitan Region groundwater sources is available at: www.industry.nsw.gov.au/water

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