

## Management Zone BU—rules and assessment criteria

Plan commenced: 7 June 2019

Term of the plan: 10 years

### Rules summary

The following rules are a guide only. For more information about the flood work application process please call 1300 662 077.

**Table 1. Rules for Zone BU**

Ref.	Rule
1.	<p><b>Advertising</b></p> <p>An application for a new or amended flood work approval in Management Zone (MZ) BU must be advertised unless, in the minister's opinion, the flood work is proposed to be used as a drain and is proposed to be constructed or modified to meet the all of the following criteria:</p> <ul style="list-style-type: none"><li>(a) at no more than 30 cm below the natural surface level except where the drain is in transition into another drain, natural depression or watercourse.</li><li>(b) to convey flow of no more than a 1 exceedances per year (1EY) event,</li><li>(c) at an orientation of approximately 90° to the direction of flow,</li><li>(d) with a longitudinal slope of less than 1 in 500 and a non-scouring velocity,</li><li>(e) so that the distance over which the drain is in transition is kept to a minimum,</li><li>(f) in a way that does not increase the capacity of the drain (where the drain is proposed to be modified) or impact flood behaviour.</li></ul>

### Assessment criteria summary

Flood work applications in MZ BU that do not require advertising, are not required to be assessed against criteria 5 to 10 unless required by the minister. All other flood work applications must be assessed against all of the following criteria.

**The assessment criteria are a guide only. For more information about the flood work application process please call 1300 662 077.**

Applicants may be required to submit technical studies or supporting information to demonstrate that a flood work or proposed flood work meets the criteria outlined in the plan.

**Table 2. Assessment criteria for Management Zone BU**

Ref.	Criterion
1.	<p><b>Ecological and cultural impacts</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU unless, in the minister’s opinion, the flood work can be constructed to maintain adequate flood connectivity to:</p> <ul style="list-style-type: none"> <li>(a) ecological assets, and</li> <li>(b) facilitate fish passage,</li> </ul> <p>under a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods.</p>
2.	<p><b>Ecological and cultural impacts continued</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU unless, in the minister’s opinion, the flood work can be constructed to maintain adequate flood connectivity to:</p> <ul style="list-style-type: none"> <li>(a) Aboriginal values, and</li> <li>(b) heritage sites,</li> </ul> <p>under a range of flood scenarios including, at a minimum, scenarios for the relevant large and small design floods.</p>
3.	<p><b>Ecological and cultural impacts continued</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU if, in the minister’s opinion, the construction or modification of the flood work is likely to disturb the ground surface of a heritage site or cause more than minimal erosion to a heritage site.</p>
4.	<p><b>Drainage impacts</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU unless, in the minister’s opinion, the construction or modification of the flood work will maintain drainage on adjacent landholdings and other landholdings that may be affected by the proposed flood work within 12 hours of existing drainage time when compared to drainage times under pre-development and existing development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods.</p>

Ref.	Criterion
5.	<p><b>Hydraulic local impacts</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU if, in the minister’s opinion, construction or modification of the flood work is likely to:</p> <p><b>Redistribution</b></p> <ul style="list-style-type: none"> <li>(a) redistribute the peak flood flow by more than 5% on adjacent landholdings and other landholdings that may be affected by the proposed flood work when compared to the peak flood flow under pre-development and existing development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods, or</li> </ul>
6.	<p><b>Hydraulic local impacts—flood levels</b></p> <ul style="list-style-type: none"> <li>(b) increase flood levels by more than 20 cm on adjacent landholdings and other landholdings that may be affected by the proposed flood work when compared to flood levels under pre-development and existing development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods, or</li> </ul>
7.	<p><b>Hydraulic local impacts—flood flow velocities</b></p> <ul style="list-style-type: none"> <li>(c) increase flow velocity by more than 50% on the landholding under application, adjacent landholdings and other landholdings that may be affected by the proposed flood work when compared to flow velocity under pre-development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods, unless: <ul style="list-style-type: none"> <li>(i) increases by more than 50% are in isolated areas where the landholder mitigates the impact on the flood wave so that the average impact across the landholding under application is no greater than 50%, and</li> <li>(ii) flow velocity is not increased by more than 50% at the boundary of the landholding under application, or</li> </ul> </li> </ul>
8.	<p><b>Hydraulic local impacts—flood levels and impact on high-value infrastructure</b></p> <ul style="list-style-type: none"> <li>(d) increase flood levels such that they impact high-value infrastructure when compared to flood levels under pre-development and existing development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods, or</li> </ul>
9.	<p><b>Hydraulic local impacts—flow velocities and soil erodibility</b></p> <ul style="list-style-type: none"> <li>(e) increase flow velocity by an amount that is likely to have more than a minimal impact on soil erodibility on the landholding under application, adjacent landholdings and other landholdings that may be affected by the proposed flood work, taking into account the ground cover on those landholdings.</li> </ul>

Ref.	Criterion
10.	<p><b>Hydraulic cumulative impacts</b></p> <p>A flood work approval must not be granted or amended to authorise the construction or modification of a flood work in MZ BU if, in the minister's opinion, construction of the flood work is likely to:</p> <ul style="list-style-type: none"><li>(a) redistribute the peak flood flow by more than 5% at any of the peak discharge calculation locations, as determined by the minister, when compared to redistribution under existing development conditions for a range of flood scenarios including, at a minimum, scenarios for the relevant small and large design floods, and</li><li>(b) redistribute the peak flood flow under existing development conditions by more than 5% at any location and under any other flood scenario considered relevant by the minister.</li></ul>

### More information

More information about the Upper Namoi Valley Floodplain Management Plan 2019 is available at the NSW Department of Planning, Industry and Environment's website [www.industry.nsw.gov.au/water](http://www.industry.nsw.gov.au/water)