

# **WATERCOURSE ASSESSMENT**

FOR

357, Bell's Line of Road, Kurmond, 2757

PREPARED FOR: Hardaker

OUR REFERENCE: 18 - 6729

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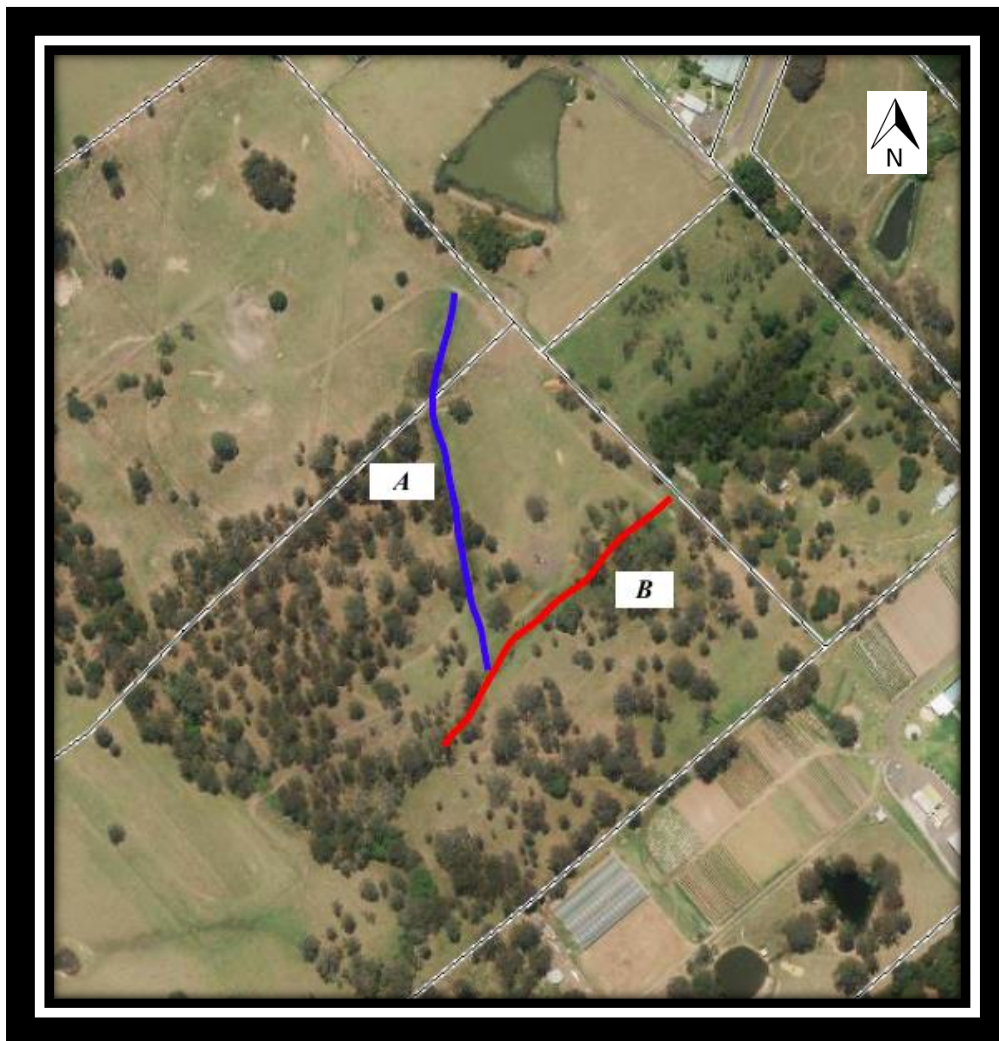
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## Introduction

Envirotech were invited to undertake an assessment of the category of two watercourses within the property located at 357 Bell's Line of Road Road Kurmond NSW (The site), (see Figure 1). A site inspection was undertaken on the 4<sup>th</sup> of September 2018 for approximately 2 hours, the two watercourses had no flow and were very dry underfoot on the day of inspection.



*Figure 1: Subject site – Watercourse A in blue and Watercourse B in Red (not to scale).*

"Watercourse" means any river, creek, stream or chain of ponds, whether artificially modified or not, in which water usually flows, either continuously or intermittently, in a defined bed or channel, but does not include a waterbody (artificial).

### Watercourse A (Blue on Figure 1)

This watercourse runs from a north west to a south west direction on the site (see Figure 1) with the topography downhill in the same direction. The watercourse appears as a depression in the landscape (see Photo 1 below).

From Figure 1 it is located below a dam on the property to the north (and above) and appears causal from the overflow from this dam.

The vegetation that is found within this depression has been cleared over a long period of time; there is very minimal vegetation along the length of this area that is associated with a watercourse, for example sedges.



*Photograph 1: Watercourse A – Looking north to the northern boundary.*

This is not a significant watercourse on the site, as there are no defined banks and there is a lack of any vegetation associated with a watercourse.



### Watercourse B (Red on Figure 1)

This watercourse runs from the north east corner of the site towards the south west (Figure 1), and running into the riparian corridor, which is to be retained on site.

From Figure 1 it is located below other properties to the north east that have dams on site.

The vegetation along this watercourse has sedges in situ within areas that appear to be very flat allowing this vegetation type to be found (See Photos 2, 3 and 4). Note that this is not along the length of the watercourse (for example Photo 2).



*Photograph 2: Watercourse B: Looking from north east boundary towards south west.*

The watercourse B in Photo 2 represents a depression in the landscape in the area shown; with a lack of any vegetation associated with a watercourse. The vegetation in Photo 3 shows sedges in the flat areas of this watercourse. The vegetation is then missing (Photo 4), as the watercourse moves from this area towards the riparian retained area on the left of the photograph. This area has been eroded and is approximately 1 metre wide and less than 1 metre deep, until it reaches the area where the riparian habitat is to be retained.



*Photograph 3: Watercourse B: Looking south west from the area in Photo 2.*



*Photograph 4: Watercourse B: Looking south west from the area in Photo 3.*

This watercourse has indications that it is not significant along its path for example defined banks, as well as the vegetation associated with a watercourse along the entire length.



## Watercourse C (Red on Figure 1)



*Figure 2: Subject site – Watercourse C in blue.*

This watercourse is located behind the houses along Inverary Drive (which are adjacent to Bell's Line of Road), see Figure 2. The watercourse appears to be overflow from the dam located directly behind the houses, with very minimal vegetation along its path that is associated with a watercourse. This is not a significant watercourse on the site, as there are no defined banks and there is a lack of any vegetation associated with a watercourse.



## Conclusion

The undertaking of this watercourse assessment has determined that:-

Watercourse A - This watercourse due to a lack of defined banks and associated vegetation type is not significant and is ephemeral depending on the amount of rainfall.

Watercourse B - This watercourse has areas along its length that do not have defined banks and associated vegetation type, and also has some areas that have a form of bank and associated vegetation type. Indicating that the watercourse is not significant along the entire course for the site. Due to the down slope of the site the upslope damming or other works undertaken have also attributed to the changes in this watercourse.

Watercourse C - This watercourse due to a lack of defined banks and associated vegetation type is not significant and is ephemeral depending on the amount of rainfall. This watercourse appears to be overflow from the dam.