

Manypeaks

Location of the Lower Werrilup Aquifer



Manypeaks paleochannels

- Total approximate length is 45 km
- Lower Werrilup generally 20m thick and up to 3km wide
- Total volume of water estimated to be 540,000,000 m³ (540 GL)
- Of the 540 GL, Grange is proposing to abstract 2.5 GL per year for 28 years (70 GL) from the paleochannel aquifers, representing 13% of the total water available in the palaeochannel
- The pressure gradient created by abstraction will draw in water from further up the paleochannel and from the bedrock
- Overlying Middle Werrilup clays will isolate the shallow Pallinup aquifer from the paleochannel aquifers
- During the abstraction the Lower Werrilup aquifer will remain saturated. When abstraction ceases, the water levels and pressure will recover.

For comparison the capacity of Mundaring Weir east of Perth is 63.6 GL, and the volume of water in Swan/Canning Rivers is between 130 and 160GL.



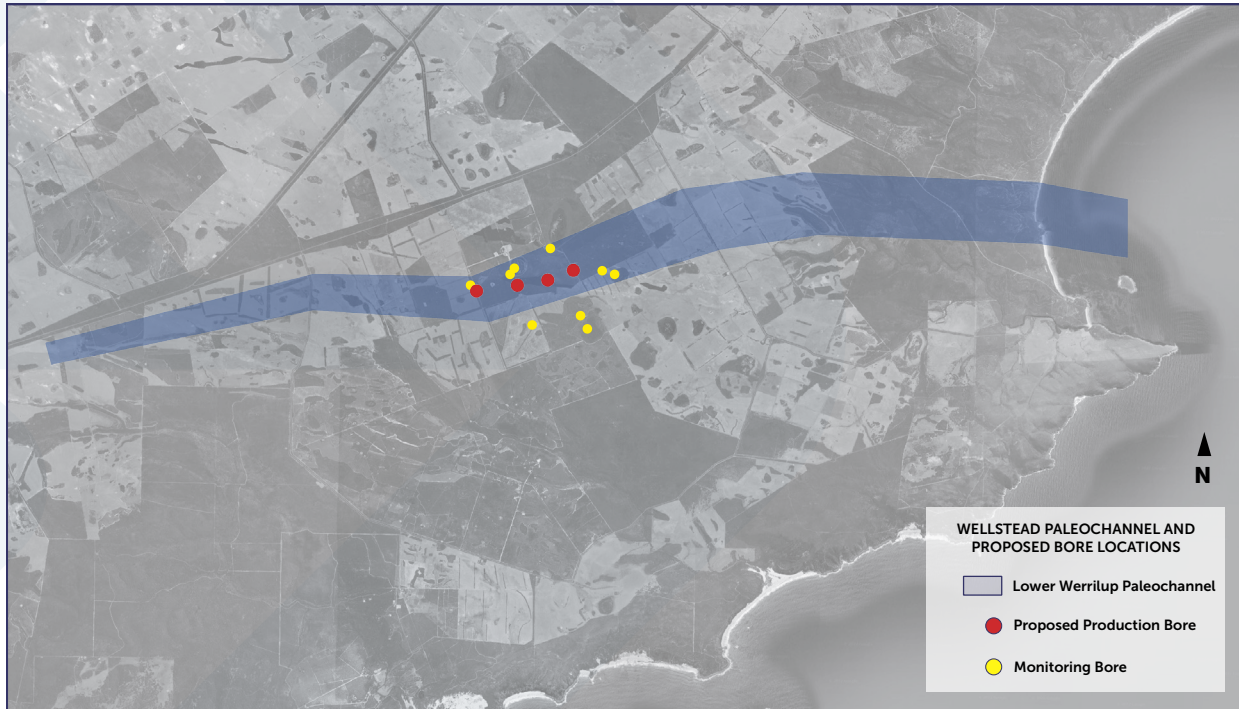
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Wellstead

Location of the Lower Werrilup Aquifer



Wellstead paleochannels

- Total approximate length is 20 km
- Confined Lower Werrilup generally 20m thick and up to 1.5km wide
- Total volume of water estimated to be 120,000,000 m³ (120 GL)
- Grange is proposing to abstract 28 GL over a period of 28 years from the paleochannel aquifers, representing 23% of the total water available in the palaeochannel
- The pressure gradient created by abstraction will draw in water from further up the paleochannel and from the bedrock
- Overlying Middle Werrilup clays will isolate the shallow Pallinup aquifer from the paleochannel aquifers
- During the abstraction the Lower Werrilup aquifer will remain saturated. When abstraction ceases, the water levels and pressure will recover.

For comparison the capacity of Mundaring Weir east of Perth is 63.6 GL, and the volume of water in Swan/Canning Rivers is between 130 and 160GL.



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