







An Australian Government Initiative

Groundwater Education Investment Fund Project

Borehole Infrastructure Report

Funding	SuperScience	Project	SuperScience
Borehole Type	Piezometer/Monitoring BH	Location	Maules Creek
Unique Well ID	MCBH12 (GW273200)	Installed By	NSW Office of Water
Completion Date	40631	Depth Installed [m]	39.5
Drilled By	NSW Office of Water	Depth Drilled [m]	59.5
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	300mm, Tubex/Rotary Air
Monument Diameter/Width [mm]	170	Screen Depth [m]	37.5-38.5/25/30/35
Top of Monument from GL [m]	1.07	Screen Type	Slotted PVC/machined nylon
PVC Casing to TOM [mm]	-255	Level of Bentonite [m]	23-24/28-29/33-34
Elevation (AHD71)	290.591	Casing Size/Type	50mm PVC Class 18
Easting	219987.91	SWL After Development [m]	5.23
Northing	6622697.9	Development Details	Not Developed
		Comments	
		 <p>This borehole is situated within a multiple bore groundwater investigation site and located within a transect. This site is situated downstream from other groundwater sites that incorporate climate stations, video surveillance and auto sampling of flood events.</p>	
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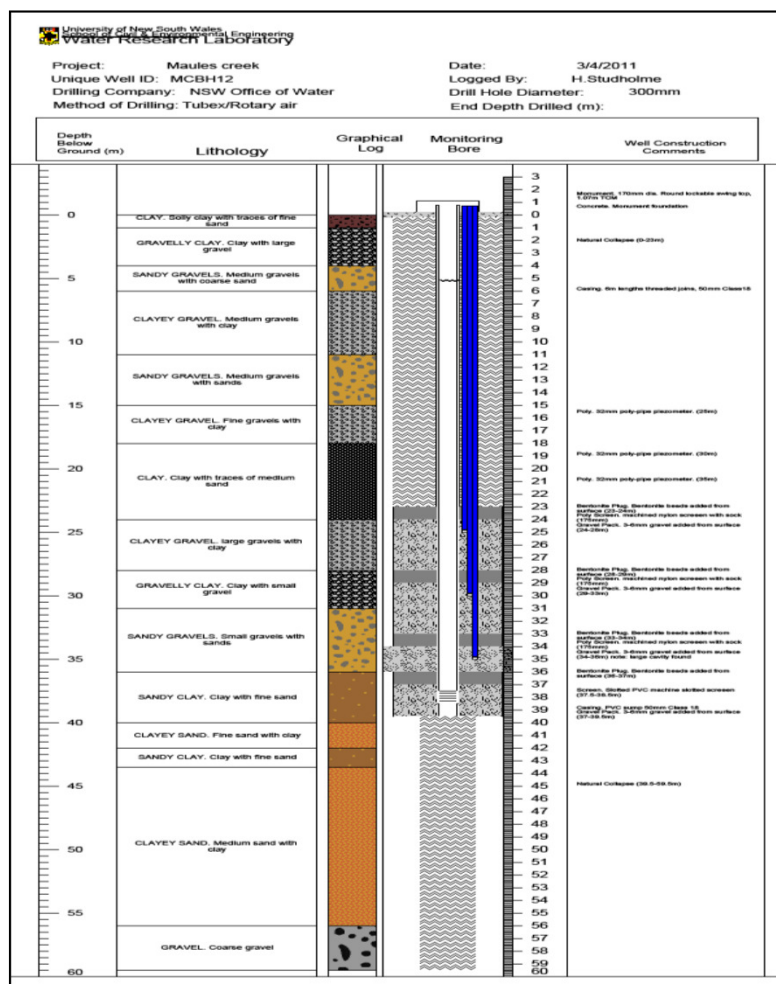


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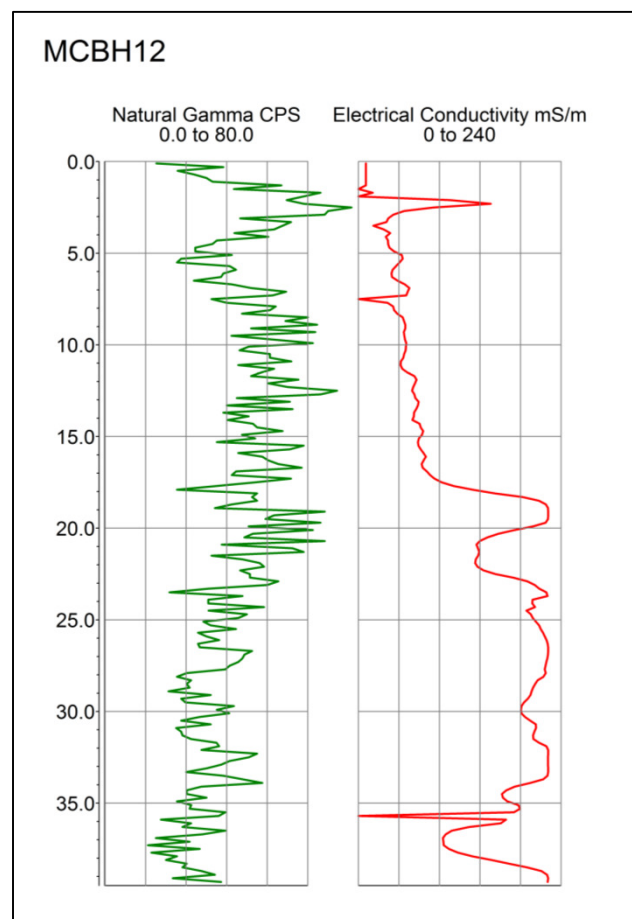
Stratigraphic Bore Log

Samples of the drill cuttings were obtained during drilling of the borehole and stored for future reference. Standard borehole information is documented in the bore log below.



Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 41m to surface. The Electrical Conductivity sonde (EM39) is used to obtain quantitative information on dissolved salts and apparent bulk conductivity information. The natural gamma sonde (NGRS) is predominantly used for qualitative evaluations of stratigraphic characteristics, argillaceous sediments and clay minerals.



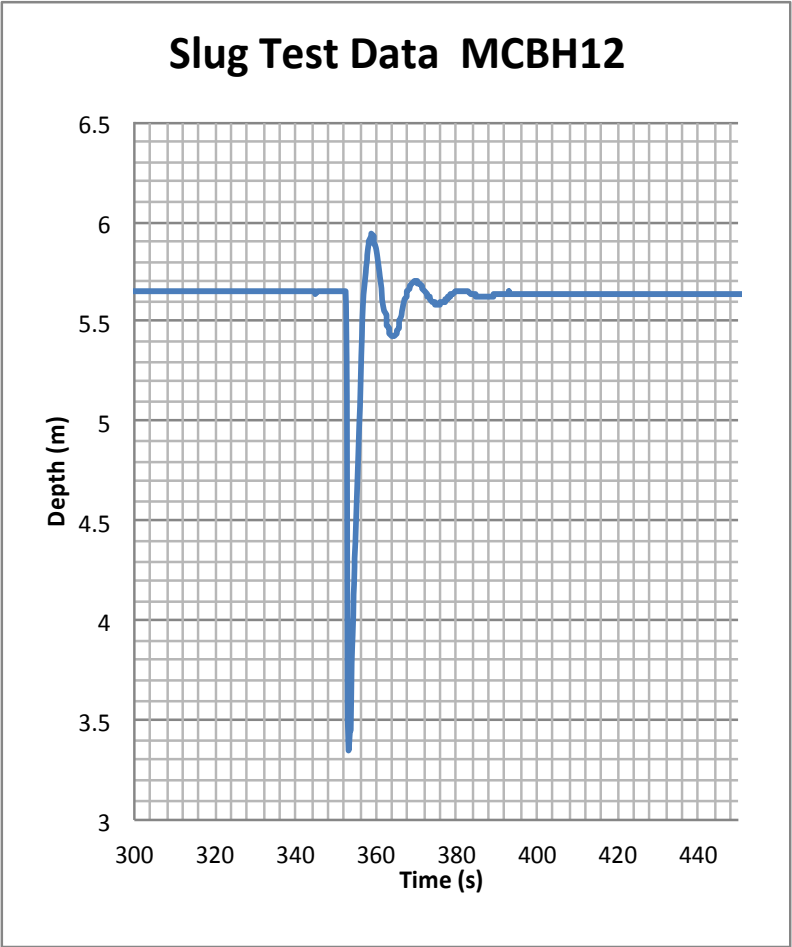


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Slug Test

A standard slug test was performed using a real-time water level logger and differential pressure using nitrogen to test the borehole permeability. The results of the slug test are shown graphically below. Full data sets are available from the report author.



Groundwater Quality

Basic chemical analysis of the dissolved solutes and concentration of ions in the borehole have not yet been performed. The testing will include hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis will be shown below.

Date	NA		Ca ²⁺	NA	[mg/L]
Time	NA		K ⁺	NA	[mg/L]
SWL	NA	[m]	Mg ²⁺	NA	[mg/L]
Field pH	NA		Na ⁺	NA	[mg/L]
EC	NA	[μS/cm]	Si	NA	[mg/L]
Temp	NA	[°C]	Cl ⁻	NA	[mg/L]
Alkalinity	NA	[meq/L]	NO ₃ ⁻	NA	[mg/L]
O ₂	NA	[mg/L]	SO ₄ ²⁻	NA	[mg/L]