



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	MCBH15	Installed By	WRL UNSW
Completion Date	29/03/2011	Depth Installed [m]	30
Drilled By	NSW Office of Water	Depth Drilled [m]	30
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	150mm, Rotary Air
Monument Diameter/Width [mm]	170	Screen Depth [m]	28-29
Top of Monument from GL [m]	0.98	Screen Type	Slotted PVC
PVC Casing to TOM [mm]	-370	Level of Bentonite [m]	2-3
Elevation (AHD71)	318.315	Casing Size/Type	50mm PVC Class 18
Easting	220352.25	SWL After Development [m]	17.09
Northing	6628269.68	Development Details	Not Developed



Comments
This borehole is situated between a major groundwater investigation site and a mountain front

Infrastructure Report Prepared By:

Mr. Samuel McCulloch

Contact Details:

Email: s.mcculloch@wrl.unsw.edu.au

Ph: 02 807 19871

Checked by:

Prof. Ian Acworth

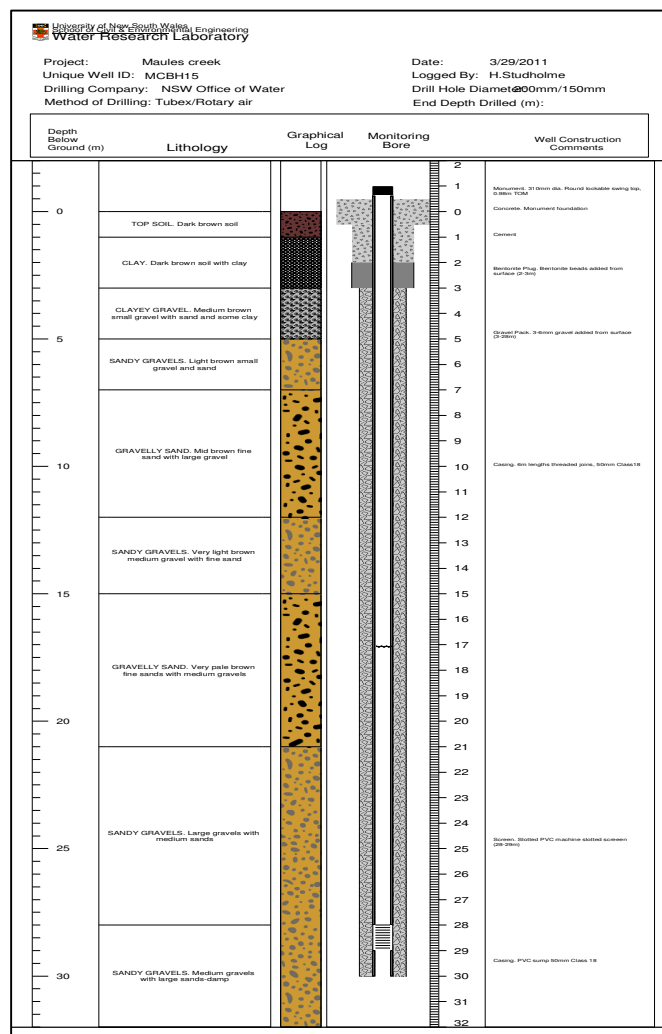


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Stratigraphic Bore Log

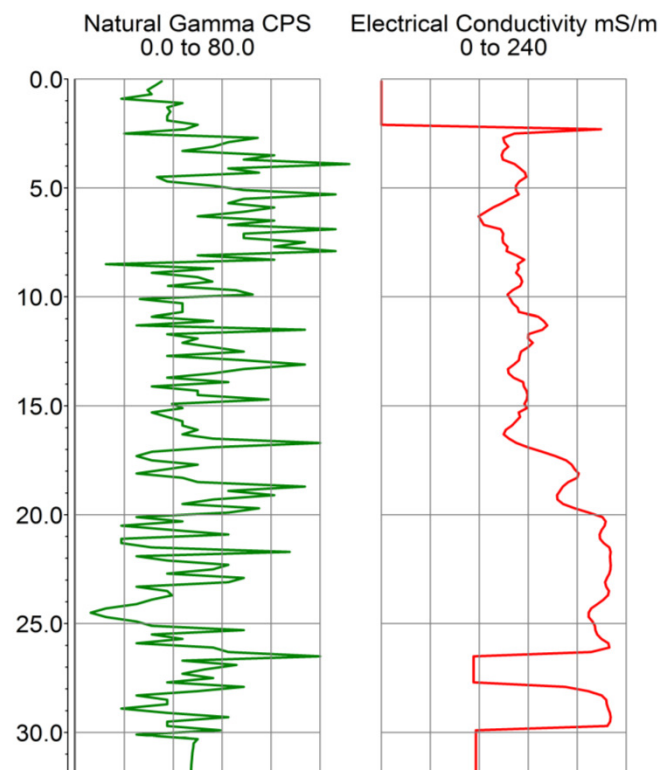
Samples of the drill cuttings were obtained during drilling of the borehole and stored for future reference. Standard borehole information is documented in the bore log below.



Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 30m 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 (NRGS) is predominantly used for qualitative evaluations of stratigraphic characteristics, argillaceous sediments and clay minerals.

MCBH15



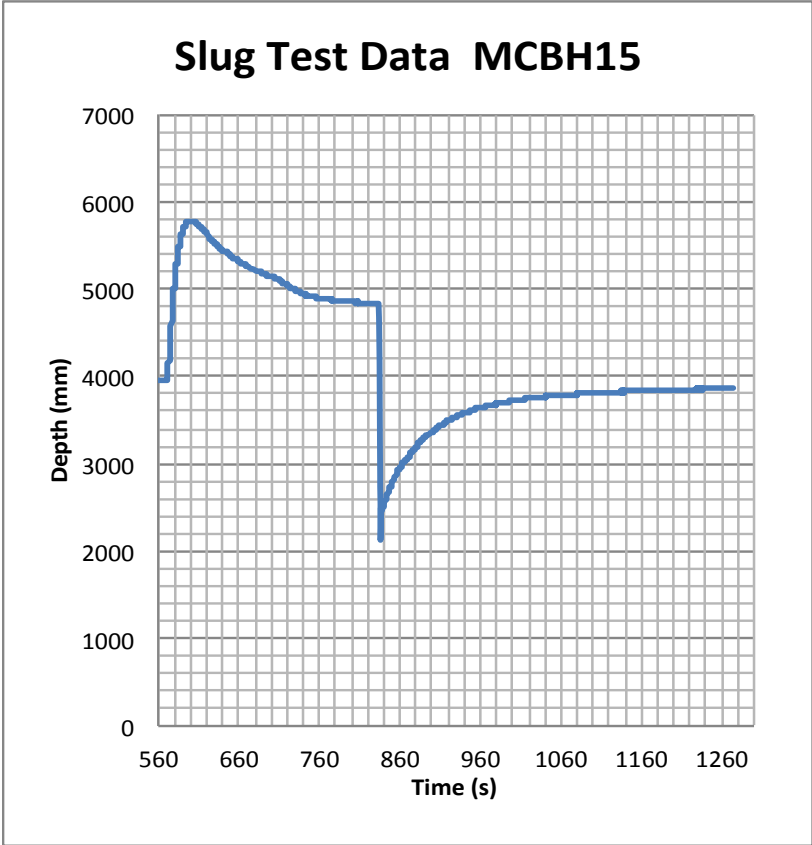


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Slug Test

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	0/01/1900		Ca ²⁺	0.00	[mg/L]
Time	0:00		K ⁺	0.00	[mg/L]
SWL	0.00	[m]	Mg ²⁺	0.00	[mg/L]
Field pH	0.0		Na ⁺	0.00	[mg/L]
EC	0	[μS/cm]	Si	0.00	[mg/L]
Temp	0.0	[°C]	Cl ⁻	0.00	[mg/L]
Alkalinity	0.00	[meq/L]	NO ₃ ⁻	0.00	[mg/L]
O ₂	0.00	[mg/L]	SO ₄ ²⁻	0.00	[mg/L]