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	MCBH16	**Installed By**	WRL UNSW
Completion Date	30/03/2011	**Depth Installed [m]**	36
Drilled By	NSW Office of Water	**Depth Drilled [m]**	36
Monument Type	Round Blue Swing Top	**Drilled Diameter/Method**	150mm, Rotary Air
Monument Diameter/Width [mm]	170	**Screen Depth [m]**	34-35
Top of Monument from GL [m]	0.95	**Screen Type**	Slotted PVC
PVC Casing to TOM [mm]	-345	**Level of Bentonite [m]**	3-4
Elevation (AHD71)	320.534	**Casing Size/Type**	50mm PVC Class 18
Easting	215259.29	**SWL After Development [m]**	12
Northing	6630890.13	**Development Details**	Not Developed

Comments

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

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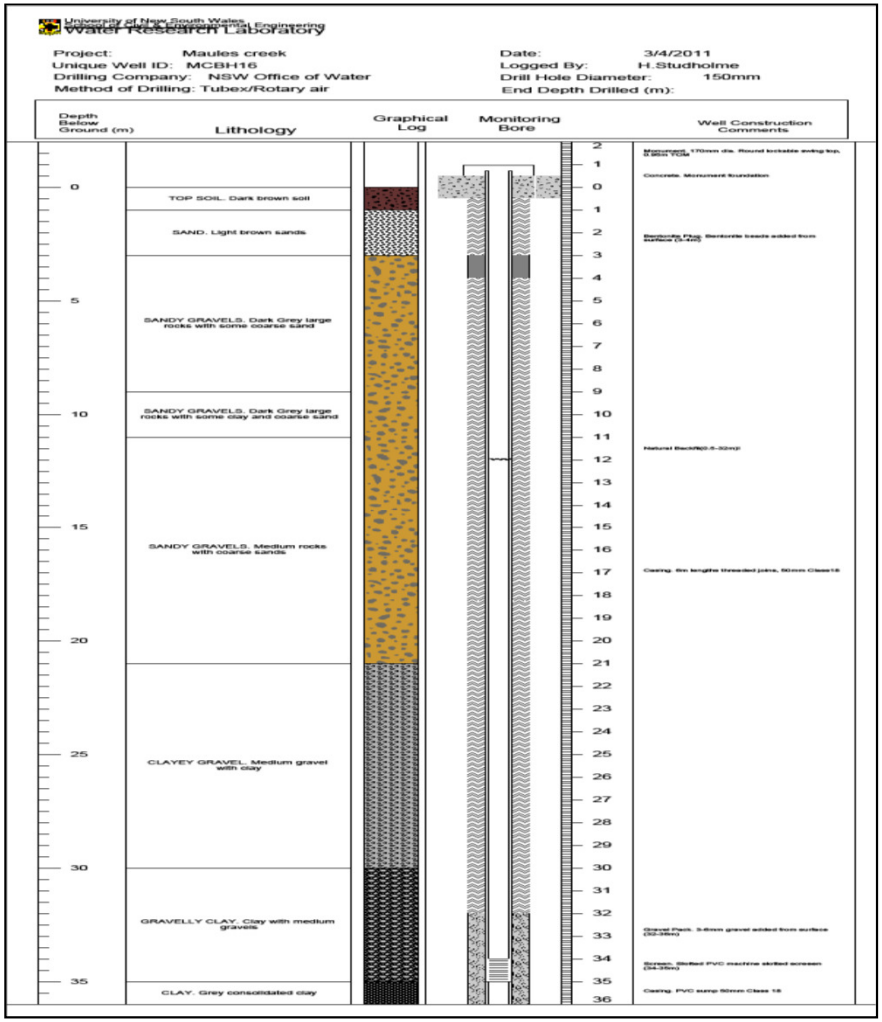
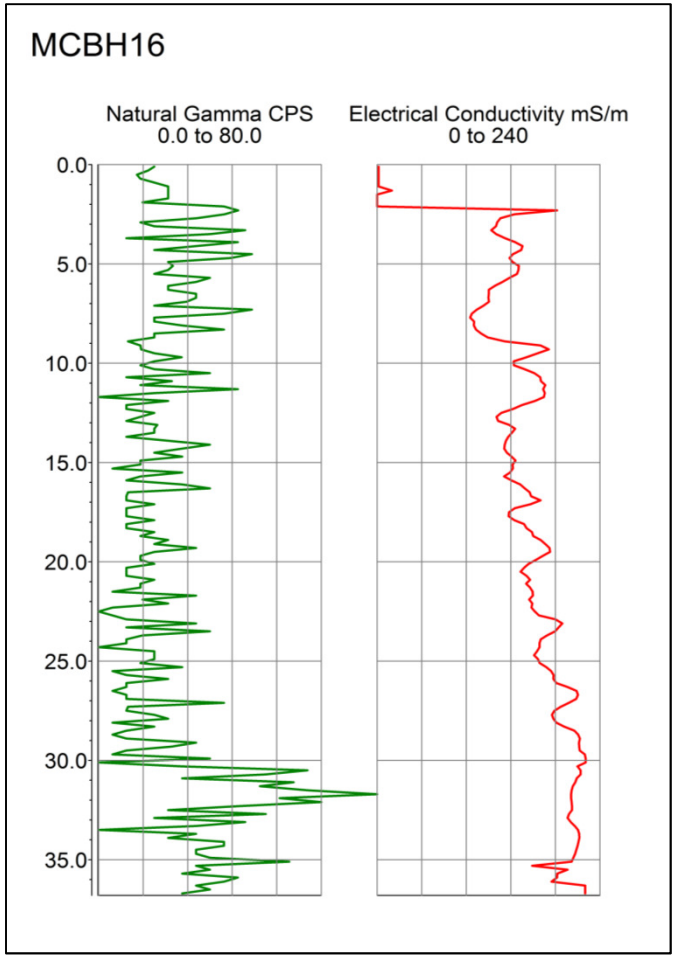
Stratigraphic Bore Log

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 36m 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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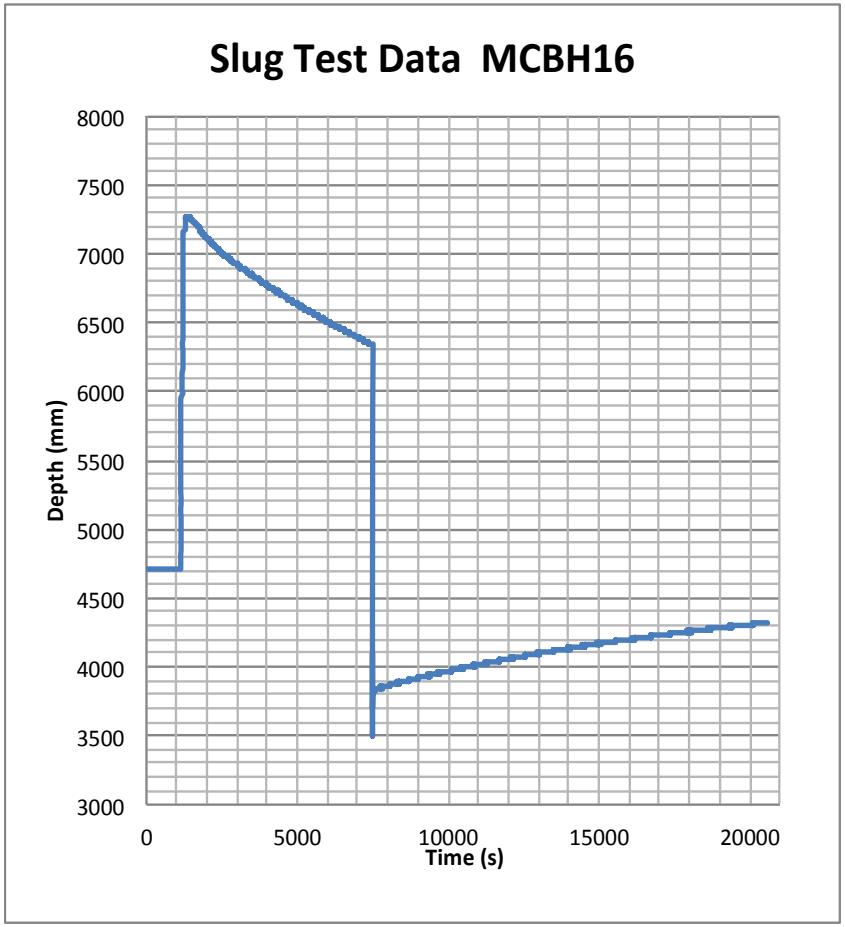
Slug Test

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	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]