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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	2/04/2012	Depth Installed [m]	30
Drilled By	NSW Office of Water	Depth Drilled [m]	30.5
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	300mm, Tubex/Rotary Air
Monument Diameter/Width [mm]	170	Screen Depth [m]	6-26m at 2m C's
Top of Monument from GL [m]	1.15	Screen Type	Multi port screen
PVC Casing to TOM [mm]	-135	Level of Bentonite [m]	3-4m
Elevation (AHD71)	290.433	Casing Size/Type	225mm PVC Class 18
Easting	6622694.276	SWL After Development [m]	5.85
Northing	219991.486	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 down stream from other groundwater sites that incorporate climate stations, video surveillance and auto sampling of flood events.</p>

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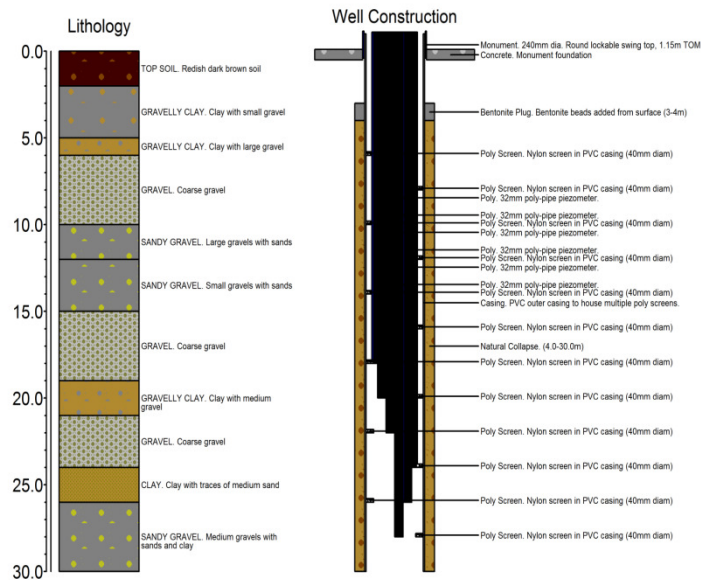
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Stratigraphic Bore Log

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.

MCBH13



Geophysics Log

The portable Geovista logging system could not be used to collect geophysical data from this multi-level bore. The smaller diameter prevents geophysical logging of such piezometers.



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Slug Test

A standard slug test has not been performed using a real-time water level logger and differential pressure using nitrogen to test the borehole permeability. Indicative monitoring of this multi-level bore suggest such slug tests to be in-accurate.

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]