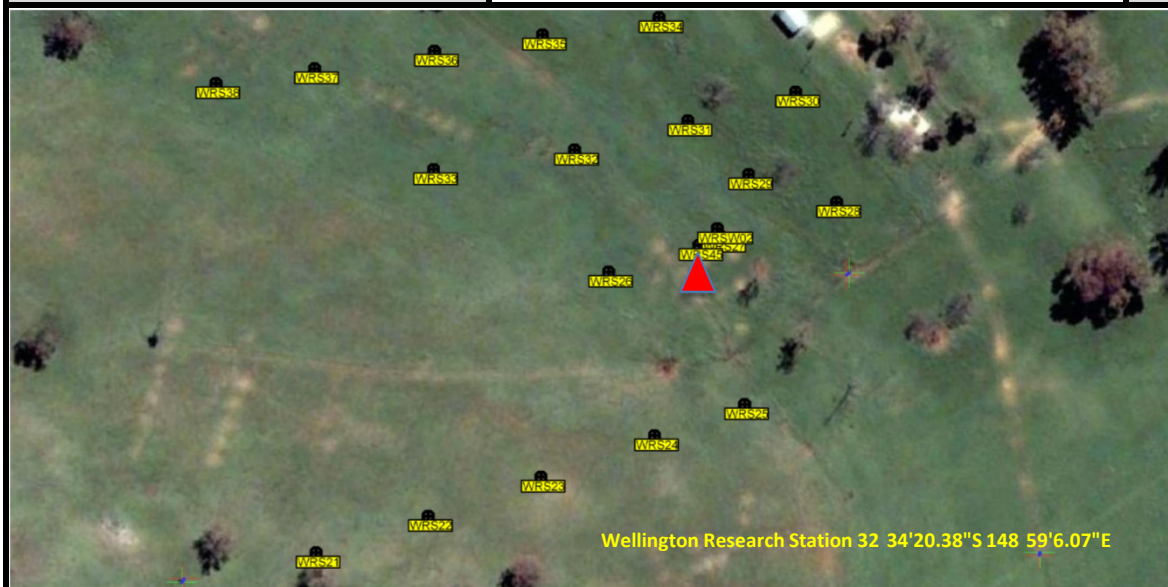




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Groundwater Education Investment Fund Project Borehole Infrastructure Report

Funding	SuperScience	Project	RM07768
Borehole Type	Monitoring Bore	Location	Wellington Research Station
Unique Well ID	WRS45 (GW273255)	Installed By	NSW Office of Water
Completion Date	27.02.2012	Depth Installed [m]	NA
Drilled By	NSW Office of Water	Depth Drilled [m]	31.65
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	172mm/Rotary Air
Monument Diameter/Width [mm]	170	Screen Depth [m]	NA
Top of Monument from GL [m]	1.03	Screen Type	NA
PVC Casing to TOM [mm]	NA	Level of Bentonite [m]	NA
Elevation (AHD71)	301.035	Casing Size/Type	NA
Easting	686289.449	SWL After Development [m]	17.2
Northing	6394281.583	Development Details	Air lifted 1 hour



Comments
This borehole is situated along a specific transect within the upper groundwater investigation site, and is located inside the zone of influence from the extraction well.

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Checked by:

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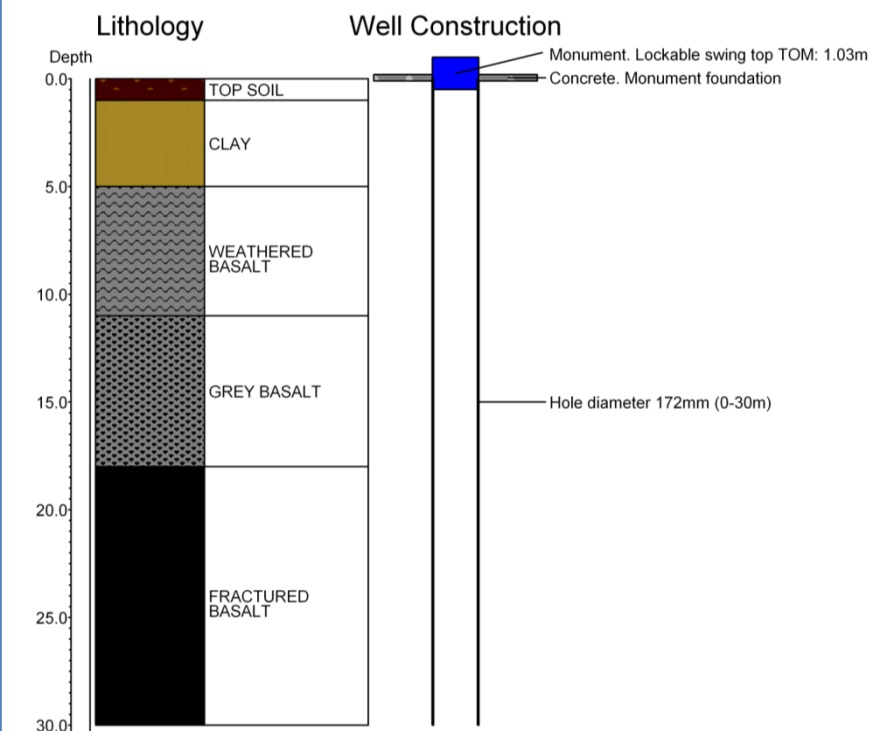
Groundwater Education Investment Fund Project

Borehole Infrastructure Report

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.

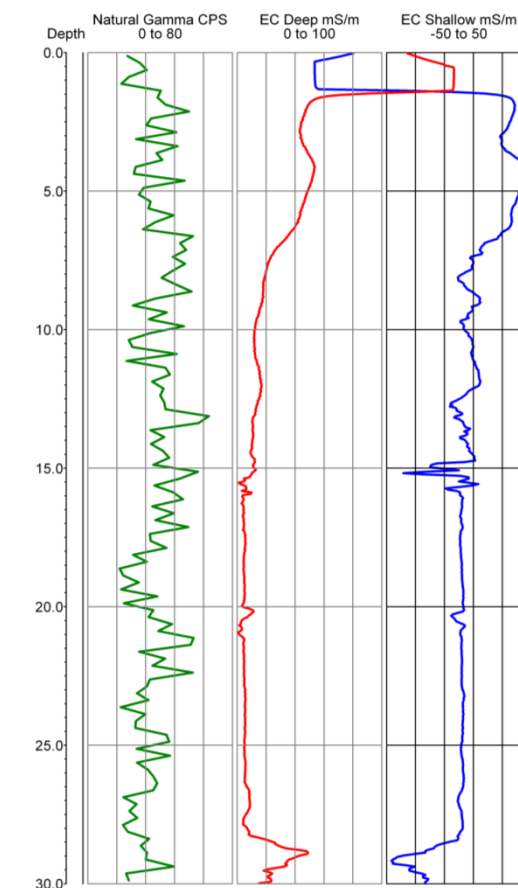
WRS45



Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 30m to surface. The Electrical Conductivity sonde (DILS) 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.

WRS45





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Groundwater Education Investment Fund Project Borehole Infrastructure Report

Slug Test

A standard slug test has not been performed on this monitoring bore. Future field work that incorporates fundamentals of the slug test on open boreholes has been planned.

Groundwater Quality

Basic chemical analysis of the dissolved solutes and concentration of ions in the borehole was performed. The testing also included hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis is shown below.

Date	17.04.2012		Ca ²⁺	77.70	[mg/L]
Time	12:05		K ⁺	0.73	[mg/L]
SWL	16.18	[m]	Mg ²⁺	50.40	[mg/L]
Field pH	7.0		Na ⁺	44.30	[mg/L]
EC	886	[μS/cm]	Si	23.00	[mg/L]
Temp	21.4	[°C]	Cl ⁻	48.00	[mg/L]
Alkalinity	7.21	[meq/L]	NO ₃ ⁻	40.00	[mg/L]
O ₂	8.19	[mg/L]	SO ₄ ²⁻	13.00	[mg/L]