



Groundwater Education Investment Fund Project Borehole Infrastructure Report


An Australian Government Initiative

Funding	SuperScience	Project	RM07768
Borehole Type	Monitoring BH	Location	Wellington Research Station
Unique Well ID	WRS20 (GW273226)	Installed By	NSW Office of Water
Completion Date	09.12.2010	Depth Installed [m]	65.62
Drilled By	NSW Office of Water	Depth Drilled [m]	66
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	161mm/Rotary hammer
Monument Diameter/Width [mm]	170	Screen Depth [m]	NA
Top of Monument from GL [m]	1.08	Screen Type	NA
PVC Casing to TOM [mm]	NA	Level of Bentonite [m]	NA
Elevation (AHD71)	341.239	Casing Size/Type	NA
Easting	685988.243	SWL After Development [m]	35.7
Northing	6394101.156	Development Details	Air lifted 1.2 hours




Comments

This borehole is situated along a specific transect on the edge of the upper groundwater investigation site, and is located outside the zone of influence from the extraction well.

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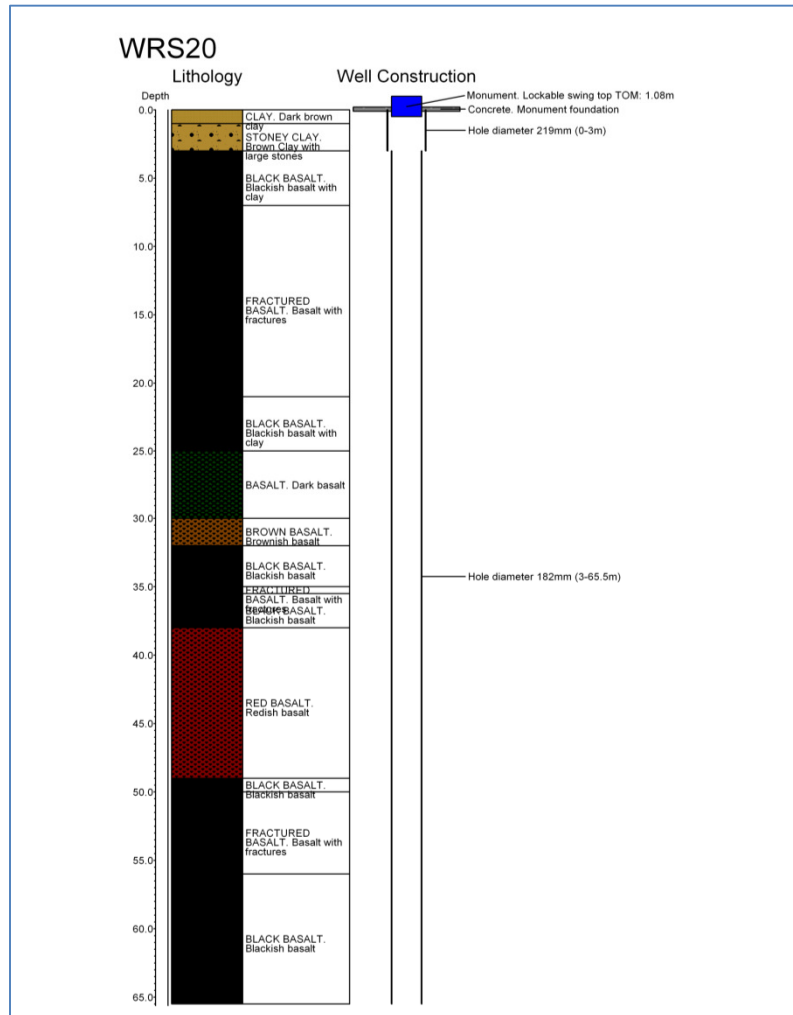


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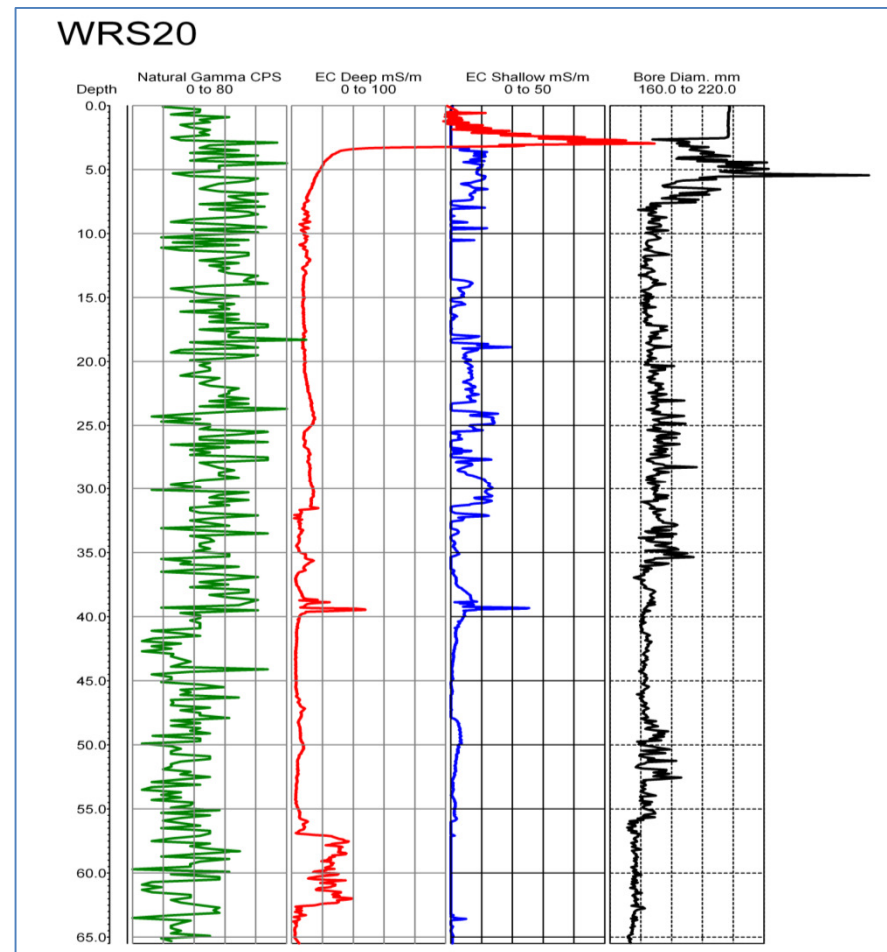
Stratigraphic Bore Log

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 65m 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.





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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 has not yet been completed. Future testing has been planned and will also included hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis is to be displayed in the table below.

Date	0/01/1900		Ca²⁺	0.00	[mg/L]
Time	0:00		K⁺	0.00	[mg/L]
SWL	0.00	[m]	Mg²⁺	0.00	[mg/L]
Field pH	0:00		Na⁺	0.00	[mg/L]
EC	0.00	[μS/cm]	Si	0.00	[mg/L]
Temp	0:00	[°C]	Cl⁻	0.00	[mg/L]
Alkalinity	0.00	[meq/L]	NO₃⁻	0.00	[mg/L]
O₂	0:00	[mg/L]	SO₄²⁻	0.00	[mg/L]