

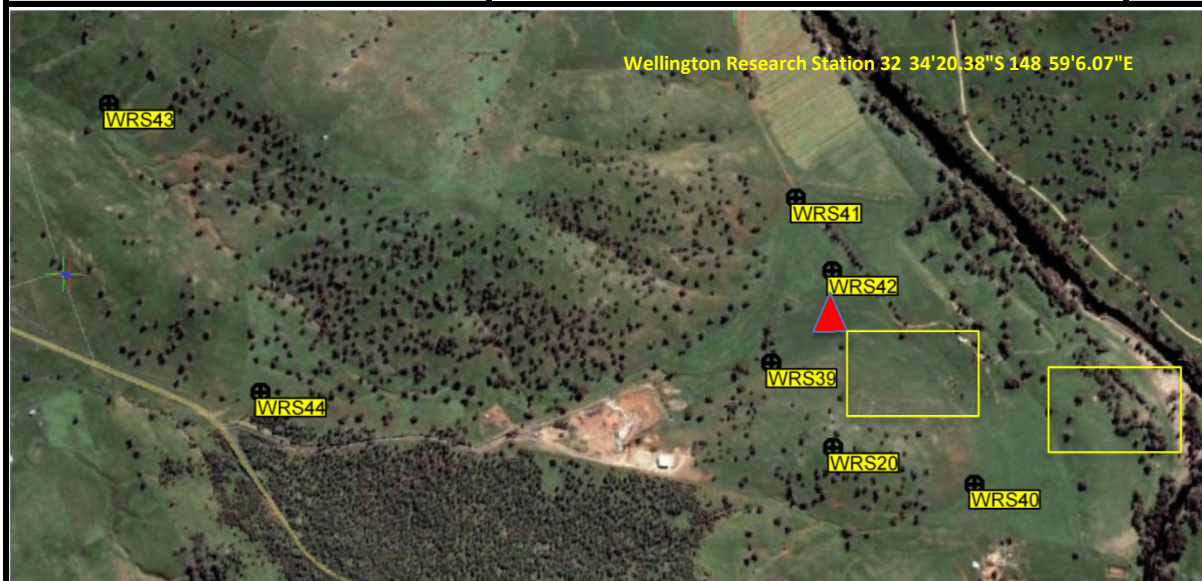


Groundwater Education Investment Fund Project

Borehole Infrastructure Report

An Australian Government Initiative

Funding	SuperScience	Project	RM07768
Borehole Type	Monitoring Bore	Location	Wellington Research Station
Unique Well ID	WRS42 (GW273254)	Installed By	NSW Office of Water
Completion Date	26.02.2012	Depth Installed [m]	35.5
Drilled By	NSW Office of Water	Depth Drilled [m]	35.5
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	219-172mm/Rotary Hammer
Monument Diameter/Width [mm]	170	Screen Depth [m]	6-9,31-34m
Top of Monument from GL [m]	1.02	Screen Type	machine slotted PVC
PVC Casing to TOM [mm]	-390	Level of Bentonite [m]	10-11
Elevation (AHD71)	301.981	Casing Size/Type	50mm
Easting	685986.224	SWL After Development [m]	18.2
Northing	6394563.646	Development Details	Air lifted 1 hr



Comments

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

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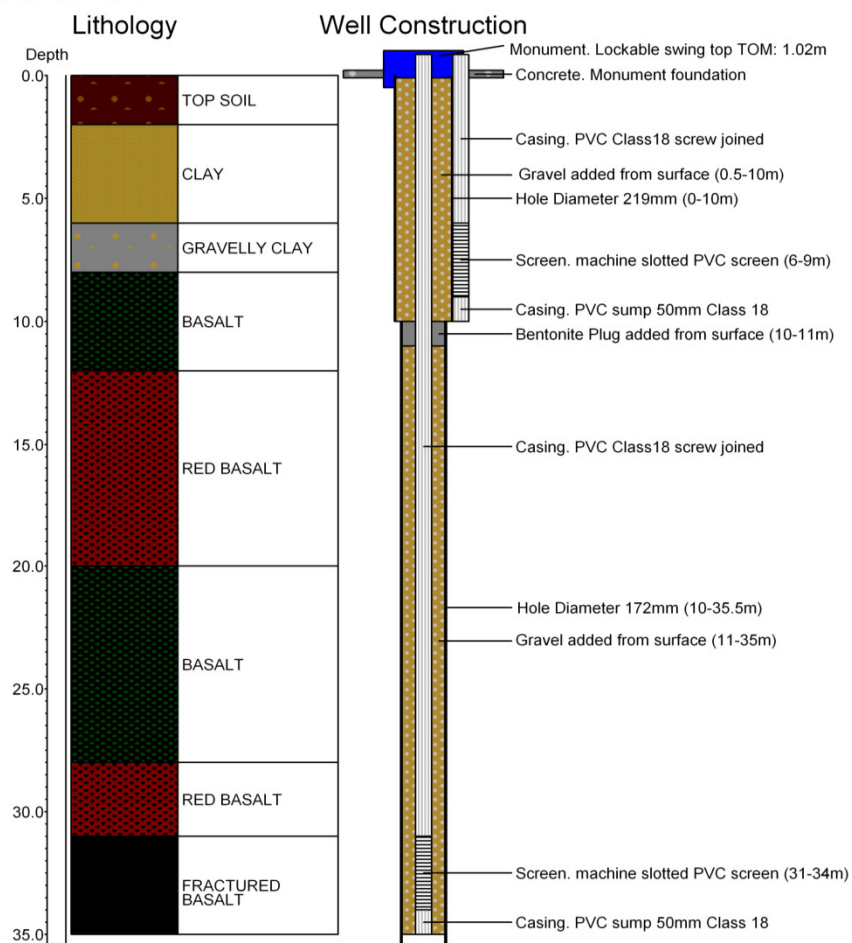
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Stratigraphic Bore Log

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.

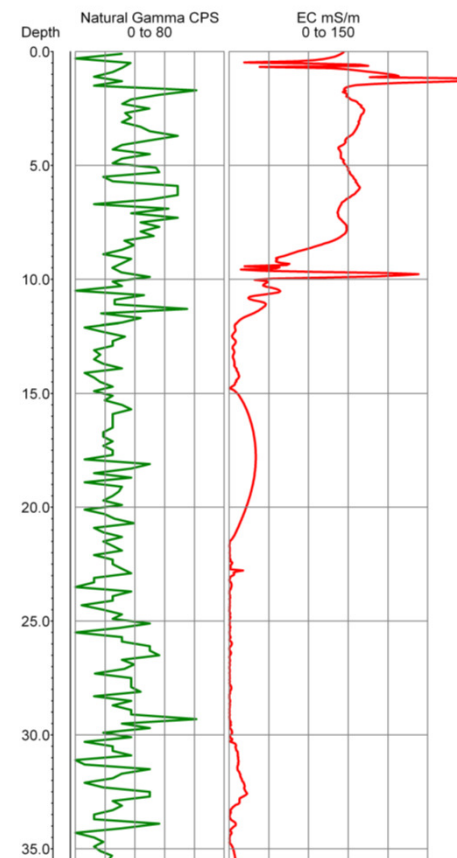
WRS42



Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 35.5m 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.

WRS42



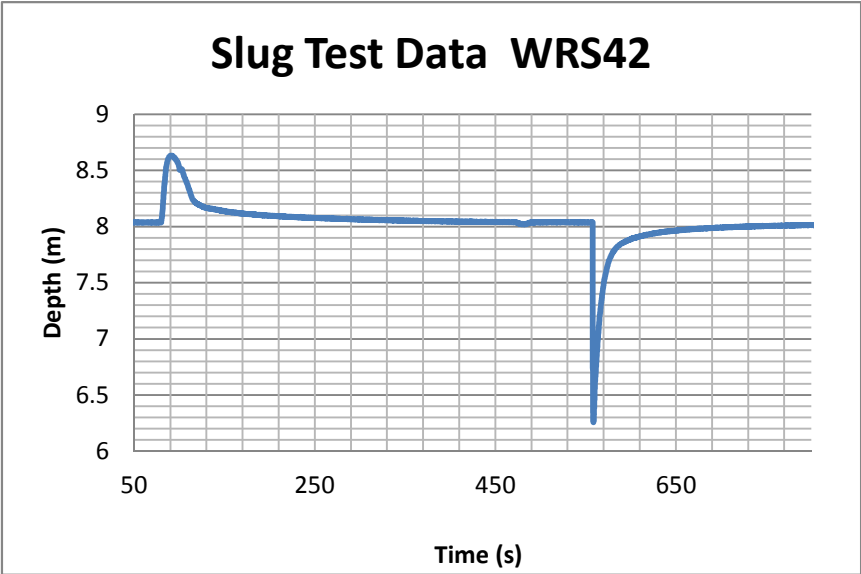


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Slug Test

A standard slug test was performed using a real-time water level logger and nitrogen to pressurize the borehole. 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 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		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]