



An Australian Government Initiative

Groundwater Education Investment Fund Project

Borehole Infrastructure Report

Funding	SuperScience	Project	SuperScience
Borehole Type	Piezometer/Monitoring BH	Location	Upper Maule's creek
Unique Well ID	ELMC01 (GW273266)	Installed By	NSW Office of Water
Completion Date	20/06/2012	Depth Installed [m]	41.5
Drilled By	NSW Office of Water	Depth Drilled [m]	42
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	Rotary Hammer Tubex
Monument Diameter/Width [mm]	170	Screen Depth [m]	40-41m, 11-12m
Top of Monument from GL [m]	1.16	Screen Type	Slotted PVC
PVC Casing to TOM [mm]	-31	Level of Bentonite [m]	1-2, 20-23
Elevation (AHD71)	356.681	Casing Size/Type	50mm PVC Class 18/32mmPoly
Easting	228717.7413	SWL After Development [m]	5.85
Northing	6627763.757	Development Details	Air lifted 2 hrs



Comments

This borehole is situated within a multiple bore groundwater investigation site and located within a transect. This site is situated up stream from a major groundwater site and incorporates climate stations, video surveillance and auto sampling of flood events.

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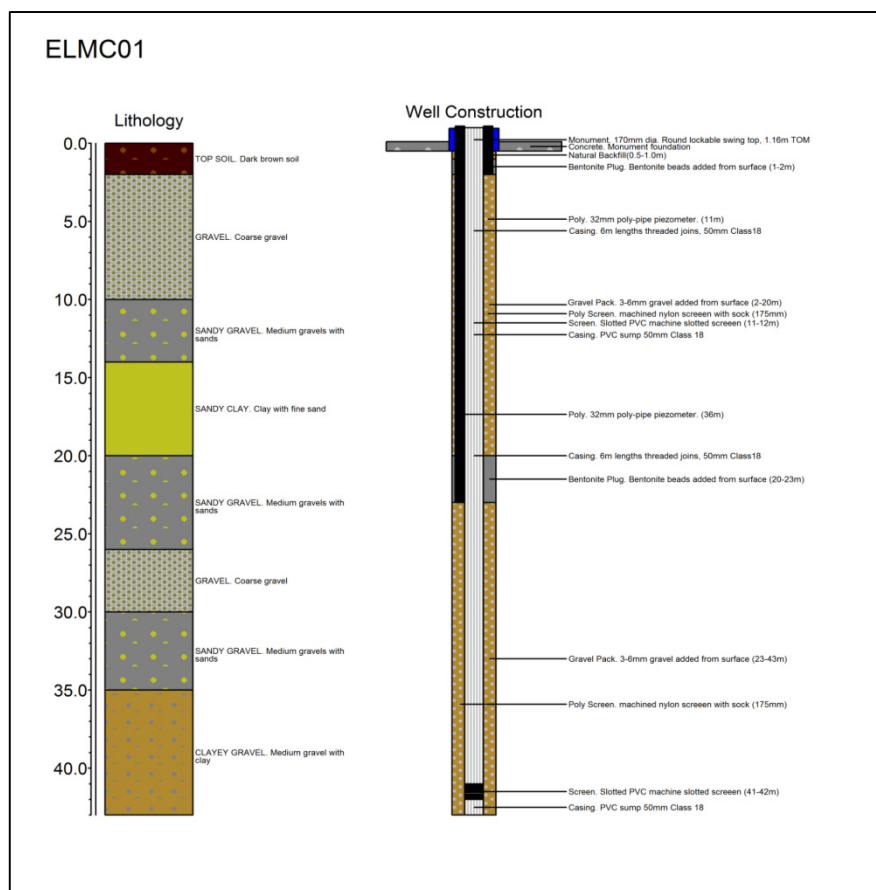
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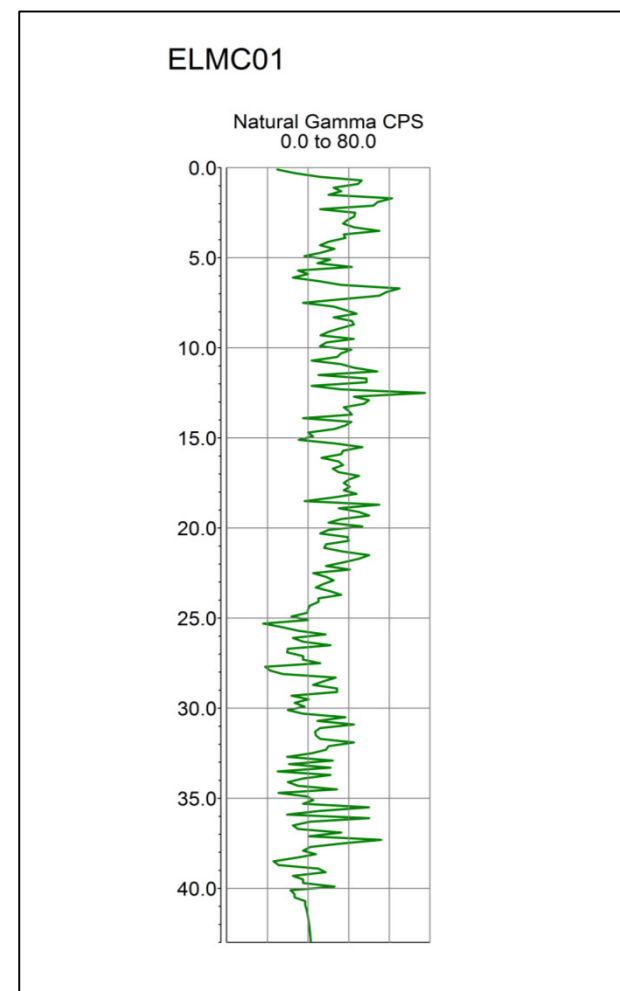
Stratigraphic Bore Log

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 41m to surface. 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 to be 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]