



An Australian Government Initiative

## Groundwater Education Investment Fund Project Borehole Infrastructure Report

<b>Funding</b>	Superscience	<b>Project</b>	Superscience	<b>Geophysics:</b>	
<b>Borehole Type</b>	Piezometer/Monitoring BH	<b>Location</b>	Bellevue Farm	HPT	Yes
<b>Unique Well ID</b>	BB11	<b>Installed By</b>	WRL UNSW	NGRS	No
<b>Completion Date</b>	40785	<b>Depth Installed</b>	16.7	EM39	No
<b>Drilled By</b>	WRL UNSW	<b>Depth Drilled</b>	16.7	SGAM	No
<b>Monument Type</b>	Square Metal Swing Top	<b>Drilled Diameter/Method</b>	Geoprobe Auger	VERT	No
<b>Monument Diameter/Width</b>	125	<b>Screen Depth</b>	5.3-6.3/15.2-16.2	DCAM	No
<b>Top of Monument from GL</b>	0.64	<b>Screen Type</b>	Slotted PVC	DLL3	No
<b>PVC Casing to TOM</b>	± 5.0	<b>Level of Bentonite</b>	7.2-7.5	HPFM	No
<b>Elevation (AHD71)</b>	258.501	<b>Casing Size/Type</b>	50mm PVC Class 18	TCME	No
<b>Easting</b>	6622511.219	<b>SWL After Development</b>	8.71	CALX	No
<b>Northing</b>	208330.636	<b>Development Details</b>	Air lifted for 2 hours	<b>WLL Data</b>	No

**Namoi River @ Bellevue Farm**



### Comments:

This bore has been constructed as a nested piezometer with screens located at shallow (5-7m average) and deep (15-17m average) depths. It is part of a transect composed by 15 bores between the Namoi River and the pump station at Bellevue Farm.

Infrastructure Report Prepared By:

**Mr. Samuel McCulloch**

*Samuel*

Contact Details:

Checked By:

**Prof. Ian Acworth**

*I. Acworth*

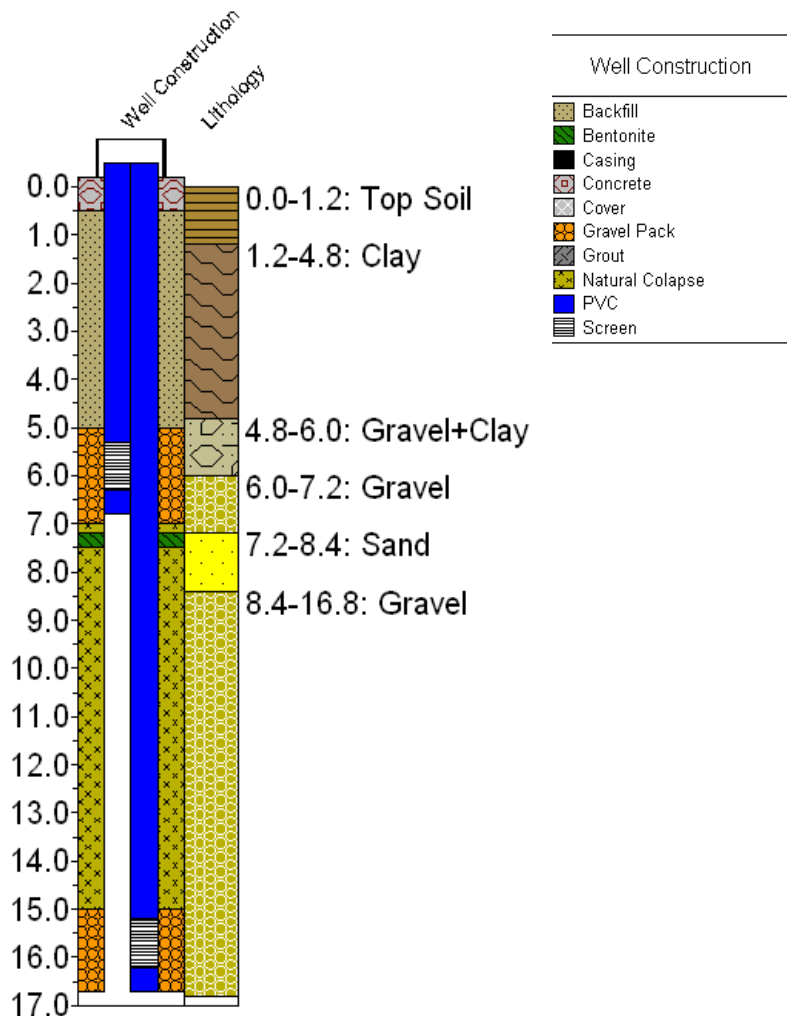


An Australian Government Initiative

## Groundwater Education Investment Fund Project Borehole Infrastructure Report

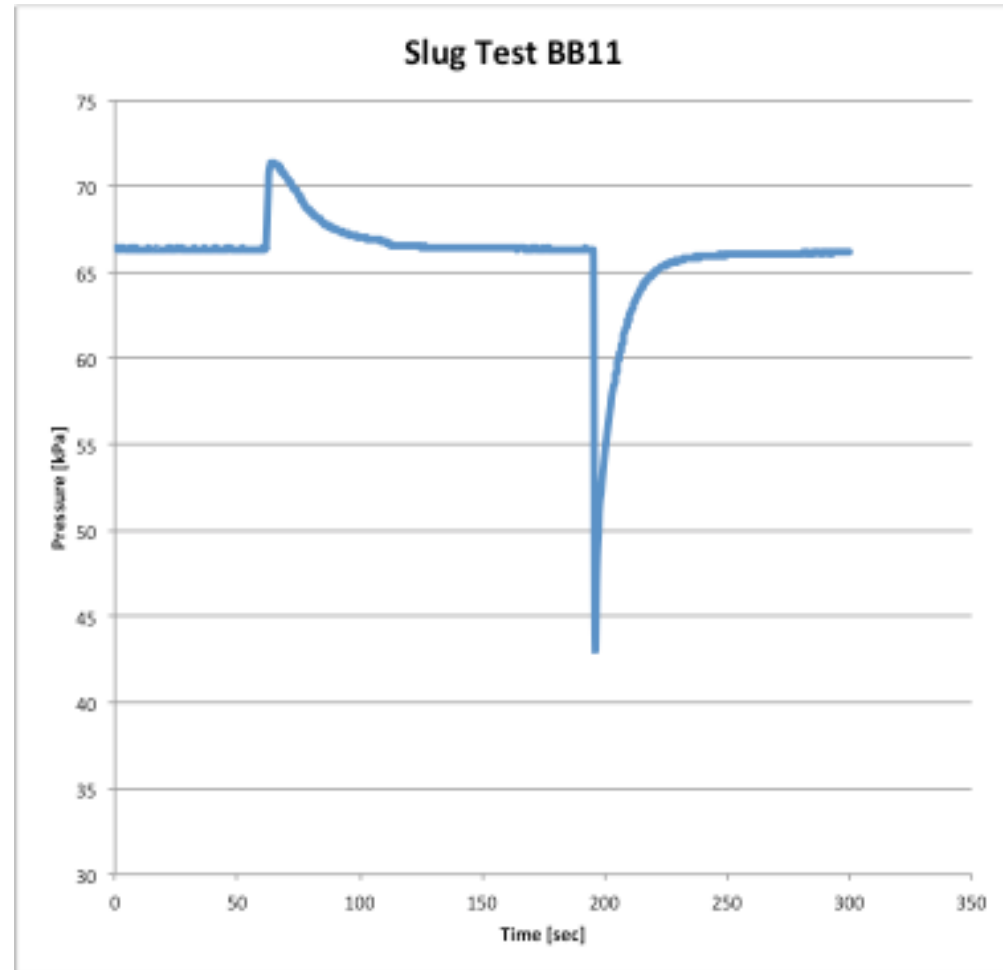
### Stratigraphic Bore Log

-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.



### 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 Education Investment Fund Project Borehole Infrastructure Report

## Direct-Push Hydrostratigraphic Profiling

The Hydraulic Profiling Tool (HPT) coupled to the Geoprobe drilling rig produces continuous, real-time profiles of soil hydraulic properties in both fine and coarse-grained material. The HPT uses a sensitive down hole transducer to measure the pressure response of the soil to injection of water, while automatically measuring the resulting formation pressure with depth. Static pressure measurements are made by stopping at discrete intervals. Integrated into the probe body is an EC dipole.

