

Sydney, Northern Beaches & beyond. Geotechnical Consultants

J0966. 7th September, 2016. Page 1.

INFILTRATION TESTING:

For proposed infiltration trench at 160 Allambie Road, Allambie Heights

1. Site Description

The site was inspected on the 7th September, 2016.

This residential property is on the low side of the road and has a NE aspect. The land surface surrounding the house and driveway is mostly lawn covered with a scattering of trees. Some rock exposures are visible above the house and near the lower boundary. There had been some showers on the previous Friday and Saturday but the weather was dry in the days prior to the inspection.

2. Geology

The Sydney 1:100 000 Geological sheet indicates the site is underlain by Hawkesbury Sandstone. It is described as a medium to coarse grained quartz sandstone with very minor shale and laminate lenses.

3. Subsurface Investigation

Dynamic Cone Penetrometer (DCP) testing was carried out across the site to determine the depth to bedrock. Seven DCP tests were recorded though double this number were carried out looking for areas of thicker soil on the site. The location of the recorded tests are shown on the site plan and the depth to rock at each test is shown below:

DCP	Depth to rock	DCP	Depth to rock
DCP1	0.4m	DCP5	0.1m
DCP2	0.3m	DCP6	0.3m
DCP3	0.2m	DCP7	0.6m
DCP4	0.1m		

4. Geological Interpretation

In the test locations a shallow sandy topsoil overlies medium strength sandstone encountered at shallow depths below the current surface. This site has a very shallow soil cover over the underlying bedrock.



Sydney, Northern Beaches & beyond. Geotechnical Consultants

J0966. 7th September, 2016. Page 2.

5. Conclusion

After it was determined from the ground testing that uniform very shallow soils underlie the site it became apparent the site is not considered suitable for infiltration following Warringah Council's stormwater disposal guidelines. As such to minimise cost to the client we did not proceed with infiltration testing.

Other methods for stormwater disposal can be considered by the stormwater engineer under the guidance of the Warringah Council stormwater disposal policy.

White Geotechnical Group Pty Ltd.

Ben White M.Sc. Geol., AusIMM., CP GEOL.

Bullion

No. 222757

Engineering Geologist.

