Infiltration Results

Factual Report

York Road, Royston

Kiafield Properties Limited

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We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at its own risk.

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1. BRIEF

The Nott Group have been instructed by Kiafield Properties Limited to undertake soil infiltration testing at the above site.

This report has been prepared for the exclusive use of the client for the purpose of assisting them in evaluating the potential soakaway design for the above site.

The information presented within this report is based on observations made on site and ground conditions encountered which can vary between test locations.

2. GROUND CONDITIONS SUMMARY

2.1 PUBLISHED GEOLOGY

The following table summarises the published geological information for the site.

TABLE 1: PUBLISHED SITE GEOLOGY

Data	Geological Information
Solid Geology	Holywell Nodular Chalk Formation - Chalk.
Superficial Geology	None mapped

2.2 GROUND CONDITIONS ENCOUNTERED

The following table summarises the ground conditions encountered during the site works for the infiltration testing. Full descriptions of the ground conditions encountered can be found in Appendix C.

TABLE 2: GROUND CONDITIONS ENCOUNTERED SUMMARY

Trial Pit Ref	Depth (m bgl)	Ground Conditions Encountered Summary
STP1	0.00 to 0.42	Gravelly fine grained sand with roots and rootlets - Topsoil.
	0.42 to 1.95	Structureless Chalk
STP2	0.00 to 0.41	Gravelly fine grained sand with roots and rootlets - Topsoil.
	0.41 to 0.62	Structureless Chalk
STP3	0.00 to 0.29	Gravelly fine grained sand with roots and rootlets - Topsoil.
	0.29 to 1.6	Structureless Chalk
	1.6 to 1.70	Chalk
STP4	0.00 to 0.31	Gravelly fine grained sand with roots and rootlets - Topsoil.
	0.31 to 0.62	Structureless Chalk

3. TESTING METHODOLOGY AND RESULTS

3.1 INFILTRATION TESTING AND RESULTS

The testing has been undertaken in general accordance of BRE Digest 365 2007 for Soakaway Design. The results of the testing are summarised in the following table. A full set of results are enclosed in Appendix B.

The test locations and trial pit logs are enclosed in Appendix A and C respectively.

TABLE 3: RESULTS SUMMARY

Trial Pit Location	Minimum Results (m/s)	Depth of Pit (m bgl)
STP1	2.3E-05	1.95m
STP2	3.7E-05	0.62m
STP3	1.4E-05	1.7m
STP4	1.4E-05	0.62m

3.1 ASSESSMENT OF RESULTS

Based upon the above results and ground conditions encountered (in accordance with BRE 365 2007) we recommend that an infiltration rate of 1.4E-05 m/s is adopted for deeper soakaway design and 1.4E-05 m/s for shallow soakaway design.

Appendix A Trial Pit Location Plan

Appendix B INFILTRATION TEST RESULTS

Appendix C Trial Pit Logs