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Infiltration Test Report

Test carried out by. Lindbro.

Location. Plot3 Hunger Hill Farm Hoyland Swaine Sheffield.

Test Date. 31/10/2016

For. Mr. A Lindley

Client Ref.

Our Ref. MAL004

1. Introduction

In accordance with your instruction Linbro Ltd. Carried out infiltration testing at the above location on 31st October 2016.

2. Scope of Investigation

A single a single hand excavated trial pit (TP1) was sunk to depths of 1.00m to carry out infiltration testing at the locations shown on the included site plan.

Information on the ground conditions revealed by the excavations is presented on the trial pit log which is included in Appendix 1 of this report.

Both excavations remained stable on completion. No standing water was encountered in the excavation.

Limestone gravel hardstanding was encountered to a depth of 0.10m at TP1 and topsoil was encountered to 0.40m, slightly silty natural sandy clay to 1.00m (TP1, terminated at this depth).

2.1 Infiltration Testing

Infiltration testing was carried out in TP1 was carried out according to the method described in BRE Digest 365 (though carried out in a smaller excavation to prevent excessive water consumption and destabilization of the site surface). The water infiltration testing was carried out with initial water levels (following filling) at 0.40m below ground level in TP1 and the rate of drop was measured against time.

Permeability values expressed in metres per second (and metres per hour) have been calculated for each of the tests according to the method described in BRE 365 (TP1) and are presented below:

Location	Infiltration rate (ms ⁻¹)	Infiltration rate (m/hour)
TP1	8.73×10^{-6} *	0.0314 m/hour*

*Recommended value for soakaway design.

3 Conclusions and Recommendations

The overlying clayey soils returned a reasonable infiltration rate.

Recommended Permeability Value for soakaway design: 4.48×10^{-7} ms⁻¹(0.00161 m/hour)

END OF REPORT

Test result Plot 3 Hunger Hill Farm 31/10/2016

GEOINVESTIGATE Ltd.

Your Ref:

Location: 41.1m 7 Avenue Dunfermline W11NW

Our Ref: G43LA

TP No: 2

Scale: 1:10

DATE: 31/10/2016

Depth (m)	Description of Strata	Thickness	Legend	Gas Well	Sample	Test Type Result	SPT N Value (Depth)	Depth to Water	Depth (m)
0.40	TURF and TOPSOIL. Firm / medium dense dark brown very sandy gravelly clay / clayey gravelly sand. Gravel is fine to coarse of brick, sandstone and coal.	400				Cv kN/m ²			0.25
1.00	Firm to stiff orangish brown mottled grey slightly silty sandy CLAY with occasional fine to coarse gravel of sandstone and mudstone.	600							0.50 0.75 1.00
	Trial pit Terminated at 1.00m Access with drilling rig impossible. Water infiltration test carried out in trial pit following completion after filling to 0.40m below ground level. i.e. permeability of natural slightly silty sandy clay investigated. See Infiltration Test results for details								

Remarks:

Hand excavated to 1.00m

Trial pit remained stable and dry on completion

Key:

Slotted Pipe
 Plain Pipe
 Bentonite
 Gravel Filter

O Disturbed sample
 Cv Shear vane
 W Water sample
 S Standard Penetration Test
 C Cone Penetration Test

TP1

