



Thomas Telford House
Sun Valley Business Park
Winnall Close
Winchester SO23 0LB

Crayfern Homes Ltd

By Email only: AlastairD@crayfernhomes.co.uk

Our ref: 17573/SL

24th April 2019

Dear Alastair,

RE: Land at Arundel Road, Fontwell, West Sussex BN18 0QP

We are writing regarding the infiltration test investigation undertaken at the above-named site.

Brief

The Soils Limited quotation (reference Q21279, dated 22nd March 2019) set the scope of the investigation. The investigation was to comprise machine excavated trial holes and infiltration tests in accordance with the principles of BRE DG365: 2016 Soakaway Design.

General

The site had an approximate area of 1.33ha and was located at Land at Arundel Road, Fontwell, West Sussex BN18 0QP at O.S Land Ranger Grid Reference of SU 960 068.

A site location plan has been included as Figure 1.

Anticipated Geology

The 1:50,000 BGS map showed the site to be located directly upon the bedrock of the Lambeth Group with overlying superficial deposits of Head.

Head

Head Deposit are drifts produced by solifluxion, the downslope movement of debris outwash during the periglacial period, and characteristically comprise poorly sorted sands gravels and chalk of local derivation.

Lambeth Group

The Lambeth Group, formerly known as the Woolwich and Reading Beds, occurs in the London and Hampshire Basins, where it directly overlies the Chalk or Thanet Sand Formation, and is succeeded by the Harwich and London Clay Formations.

Site Works

Site works were undertaken between the 27th March 2019 and 28th March 2019. The tests comprised the excavation of five trial pits (RSK1, RSK2 for shallow permeable pavement and SO1, SO2 and SO3 for conventional surface water soakaways) at locations selected by the client. Following the construction of the trial holes, infiltration tests in accordance with the principles of BRE DG365:2016 were carried out within the trial holes.

A trial hole location plan is included as Figure 2.

Upon completion of the trial hole logging and testing the trial holes were backfilled with arisings and mounded over to allow for future settlement.

Ground Conditions

The ground conditions encountered during the site investigation have been summarised in Table 1.

Topsoil (TS) River Terrace Deposits (Undifferentiated) (RTDU)

Table 1 – Summary of Ground Conditions

Strata	Depth Encountered (m bgl)		Typical Description
	Top	Base	
TS	0.00	0.30	Black to dark brown, sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse, sub angular to sub rounded, flint.
RTDU	0.30	0.70 ¹ – 2.40 ¹	Dark orange and brown, sandy clayey GRAVEL. Gravel is fine to coarse, sub angular to sub rounded, flint.

Notes: ¹ Encountered to base of trial hole

Soils of the River Terrace Deposits were encountered in all five of the trial holes, underlying the Topsoil.

Infiltration Testing

Infiltration tests were performed in order to provide guidance on the suitability of the ground for the adoption of a shallow surface water drainage system. The tests were undertaken within the River Terrace Deposits to the base of each trial hole. The tests comprised pumping water from a water tanker into the open trial hole, the drop-in water level over time was then recorded to give an indication of soakage potential.

BRE DG365:2016 states that for an accurate infiltration rate to be obtained a soakage pit needs to be filled three times in quick succession. Each test is completed once 75% of the water present has drained away, in order to determine whether or not the underlying ground conditions may be suitable for surface water drainage.

A functioning soakaway should discharge from full to half-volume within 24 hours in readiness for subsequent storm inflow. In the event that the fall in head during infiltration

testing is less than 50% of the total volume within a 24-hour period, the test is considered to have failed in accordance with BRE DG365:2016.

Table 2 presents the infiltration test results performed within all trial holes.

Table 2 - Infiltration Test Results

Trial Hole (Test No.)	Test Stratum	Trial Pit Depth (m bgl)	Water Level Start of Test (m bgl)	Infiltration Rate (m/sec)
RSK1	RTDU	0.75	0.51	4.705×10^{-4}
	RTDU	0.75	0.33	3.416×10^{-4}
	RTDU	0.75	0.27	3.266×10^{-4}
RSK2	RTDU	0.70	0.34	2.511×10^{-4}
	RTDU	0.70	0.21	1.417×10^{-4}
	RTDU	0.70	0.30	1.455×10^{-4}
SO1	RTDU	2.40	1.53	1.866×10^{-4}
	RTDU	2.30	0.58	8.499×10^{-5}
	RTDU	2.30	1.30	1.040×10^{-4}
SO2	RTDU	1.30	0.66	7.592×10^{-5}
	RTDU	1.20	0.47	8.898×10^{-5}
	RTDU	1.20	0.38	8.556×10^{-5}
SO3	RTDU	1.30	0.85	6.363×10^{-5}
	RTDU	1.30	0.79	1.118×10^{-4}
	RTDU	1.30	0.37	4.126×10^{-5}

Notes: RTDU = River Terrace Deposits

Rates of between 4.705×10^{-4} m/sec and 1.417×10^{-4} m/sec were calculated for the shallow permeable pavement locations (RSK1 and RSK2). Rates of between 1.866×10^{-4} m/sec and 4.126×10^{-5} m/sec were calculated based on the data from the tests within SO1 to SO3.

Full results are included within Appendix A.

Conclusions

Given the observed infiltration over the test period, it is considered that the site would be suitable for the adoption of a surface water soakaway system located within the soils of River Terrace Deposits based on the rates presented above for both the highways drainage (RSK1 and RSK2) and conventional surface water soakaway drainage (SO1 to SO3).

It should be noted that the Environment Agency must be consulted on any works which may impact groundwater sources.

The following attachments make up the remainder of this letter report.

Figure 1. Site Location Plan

Figure 2. Trial Hole Location Plan

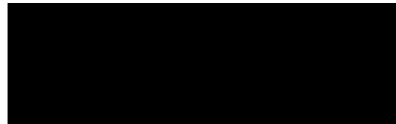
Appendix A. Field Data

Should you have any further questions please do not hesitate to contact the undersigned.

Yours sincerely



Craig Morrison BSc (Hons) FGS MEnvSc
Director



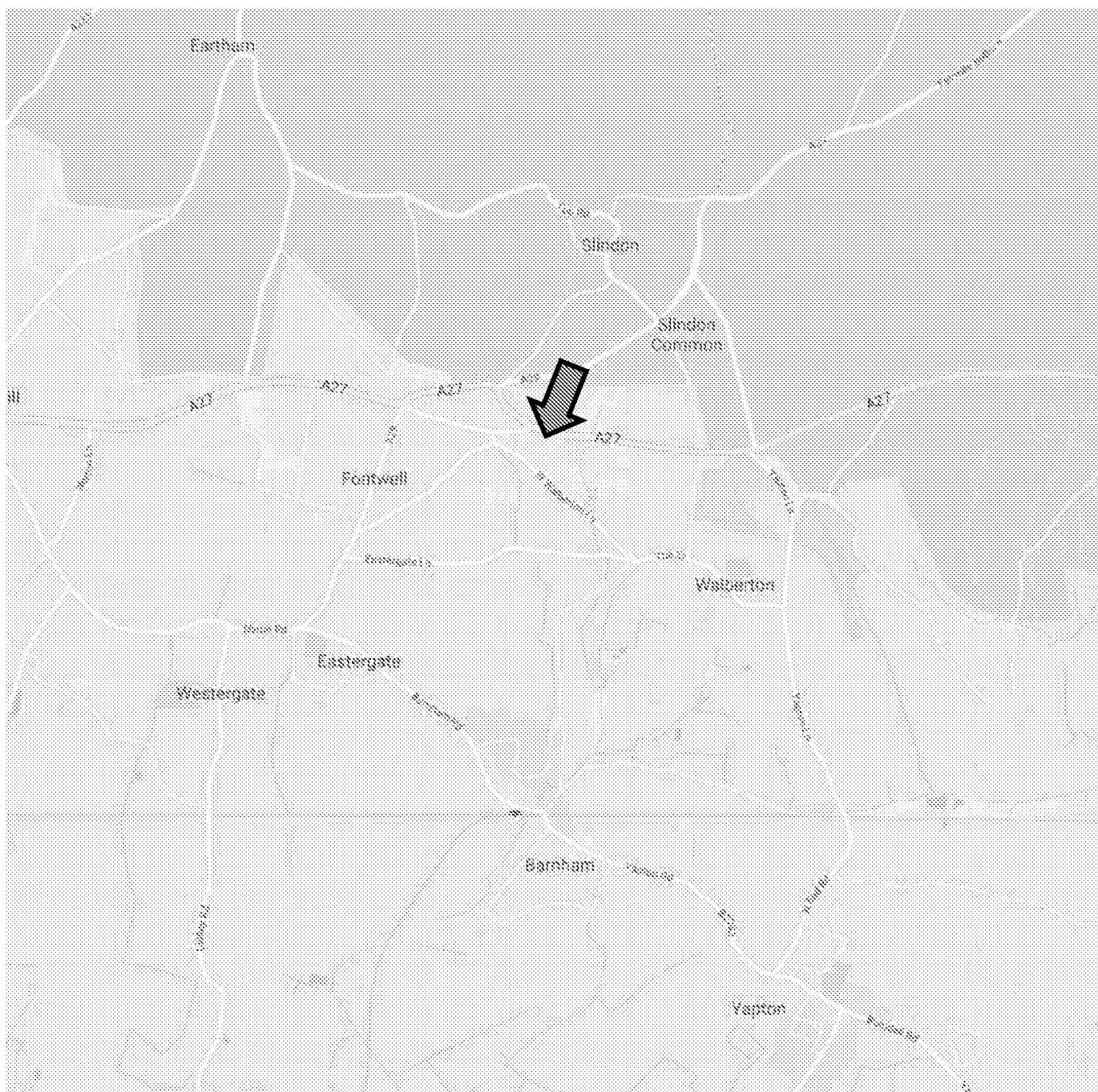
**Figure 1 – Site Location Plan**

Figure number

1

Title

Site Location Map

Project

Land at Arundel Road, Fontwell, West Sussex BN18 0QP

Date

April 2019

Client

Crayfern Homes

Reference

17573/SL

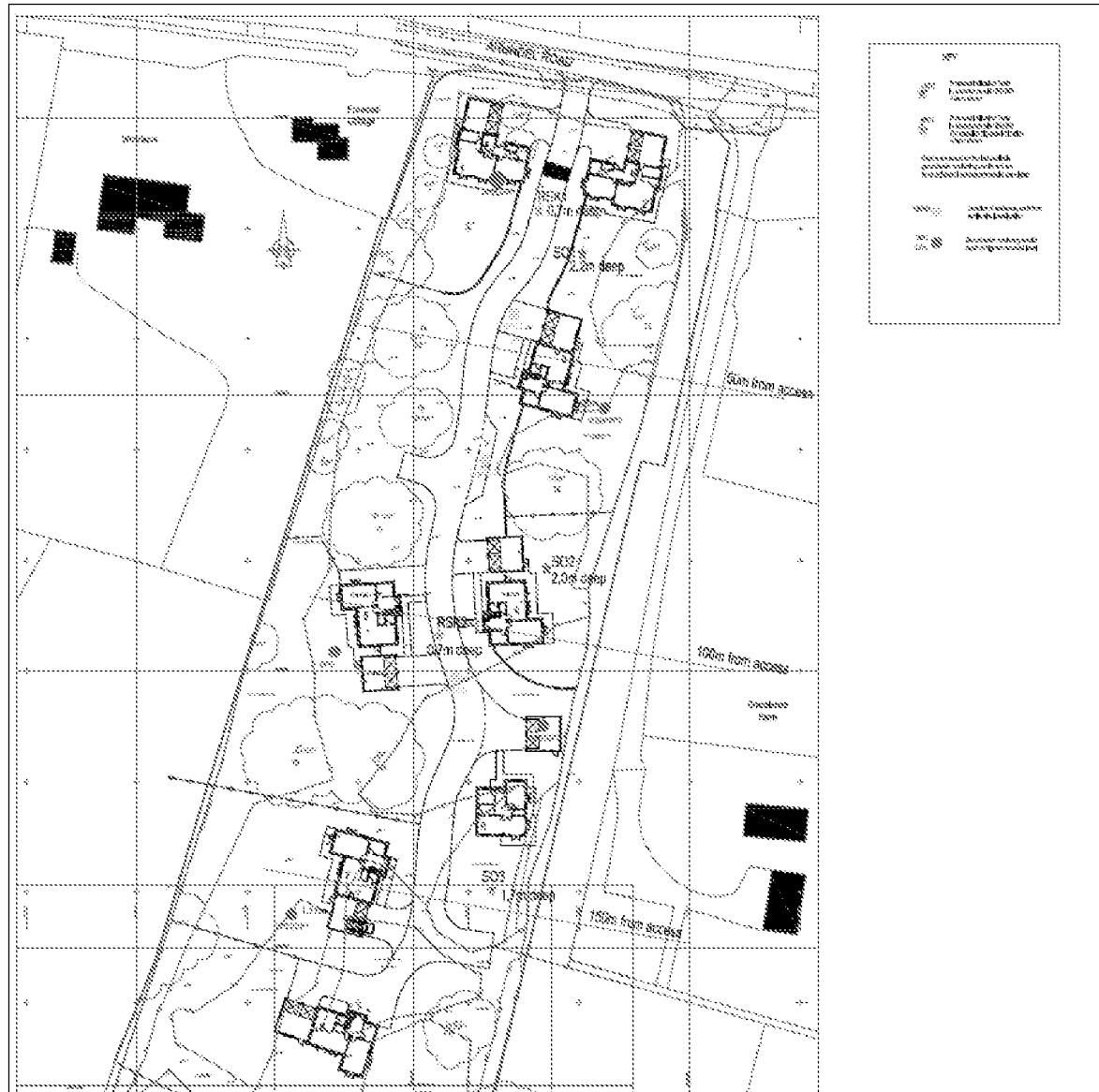


Figure 2 – Trial Hole Location Plan

Figure number	Title
2	Trial hole location plan
Project	Date
Land at Arundel Road, Fontwell, West Sussex BN18 0QP	April 2019
Client	Reference
Crayfern Homes	17573/SL

Appendix A. Field Data

		Soils Limited Newton House, Cross Road, Tadworth KT20 5SR 		Trial Pit Log		Trial Pit No. RSK1 Sheet 1 of 1	
Project Name: Land at Arundel Road, Fontwell		Project No.: 17573		Method:		Hole Type	
Location: Land at Arundel Road, Fontwell, West Sussex BN18 0QP				Plant:		TP	
Client: Crayfern Homes		Trial Pit Length: m		Trial Pit Width: m		Scale	
Dates: 27/03/2019		Level:		Co-ords:		1:25	
						Logged By	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (mAOD)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	D		0.30			Black to dark brown, sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse, sub angular to sub rounded, flint. Frequent rootlets. TOPSOIL
	0.50	D					
				0.75			End of Pit at 0.750m
							1
							2
							3
							4
							5
General Remarks: Roots observed to 0.40m bgl.							Sample Type D: Disturbed B: Bulk J: Jar W: Water
Groundwater Remarks:							

Soakaway Calculations

Soakaway Test No.	RSK1 Test 1
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

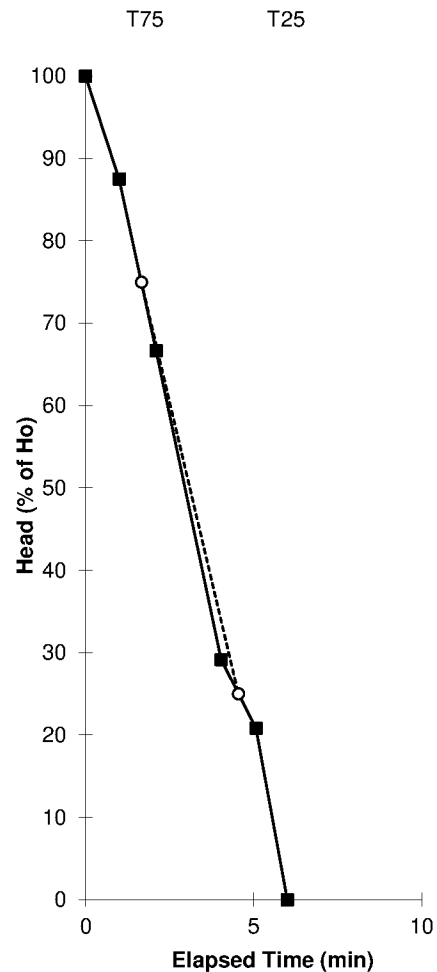
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	0.75 m
Width of Pit	0.95 m
Length of Pit	1.10 m
Depth of Pit Soaked	0.24 m
ap_{50}	1.537 m ²
V_{p75-25}	0.1254 m ³
t_{75-25}	2.9 min
water used	0.2508 m ³
f	4.705E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.51	0	100	0.24
0.54	1	88	0.21
0.59	2	67	0.16
0.68	4	29	0.07
0.7	5	21	0.05
0.75	6	0	0.00



T75	1.660	75
T25	4.550	25
T75-25	2.890	Derived from Best Fit

Comments

SOILS LIMITED

Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	RSK1 Test 2
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

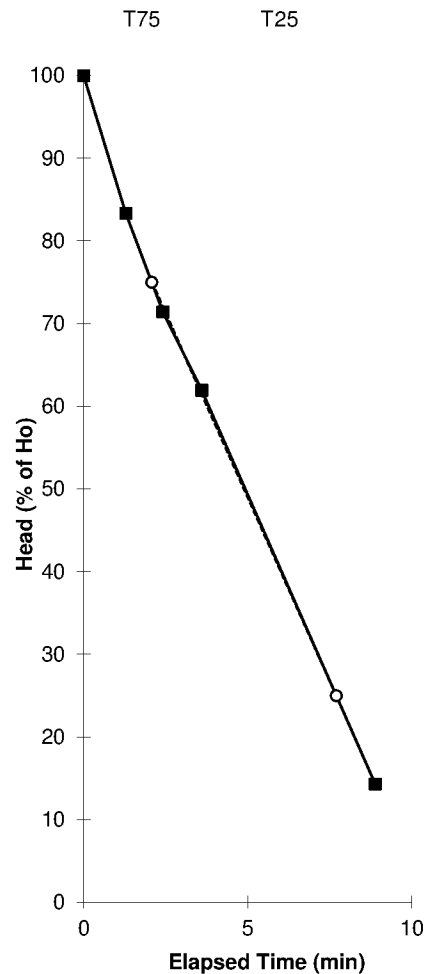
Trial Pit Log (include details of groundwater):
See trial Pit record

Depth of Pit	0.75 m
Width of Pit	0.95 m
Length of Pit	1.10 m
Depth of Pit Soaked	0.42 m
ap_{50}	1.906 m ²
V_{p75-25}	0.21945 m ³
t_{75-25}	5.6 min
water used	0.4389 m ³
f	3.416E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.33	0	100	0.42
0.4	1	83	0.35
0.45	2	71	0.30
0.49	4	62	0.26
0.69	9	14	0.06

T75	2.077	75
T25	7.695	25
T75-25	5.618	Derived from Best Fit



Comments

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Soakaway Calculations

Soakaway Test No.	RSK1 Test 3
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

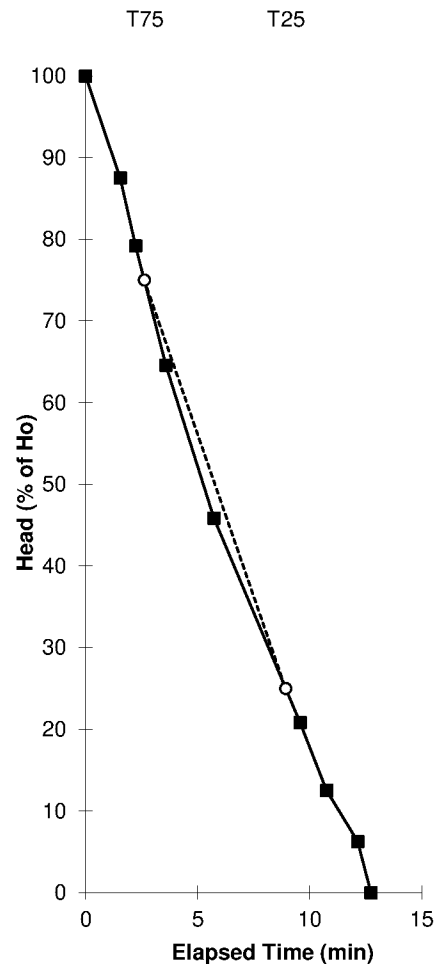
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	0.75 m
Width of Pit	0.95 m
Length of Pit	1.10 m
Depth of Pit Soaked	0.48 m
ap_{50}	2.029 m ²
V_{p75-25}	0.2508 m ³
t_{75-25}	6.3 min
water used	0.5016 m ³
f	3.266E-04 m/sec.

Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
0.27	0	100	0.48
0.33	2	88	0.42
0.37	2	79	0.38
0.44	4	65	0.31
0.53	6	46	0.22
0.65	10	21	0.10
0.69	11	13	0.06
0.72	12	6	0.03
0.75	13	0	0.00



T75	2.619	75
T25	8.928	25
T75-25	6.309	Derived from Best Fit

Comments

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Soakaway Calculations

Soakaway Test No.	RSK2 Test 1
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

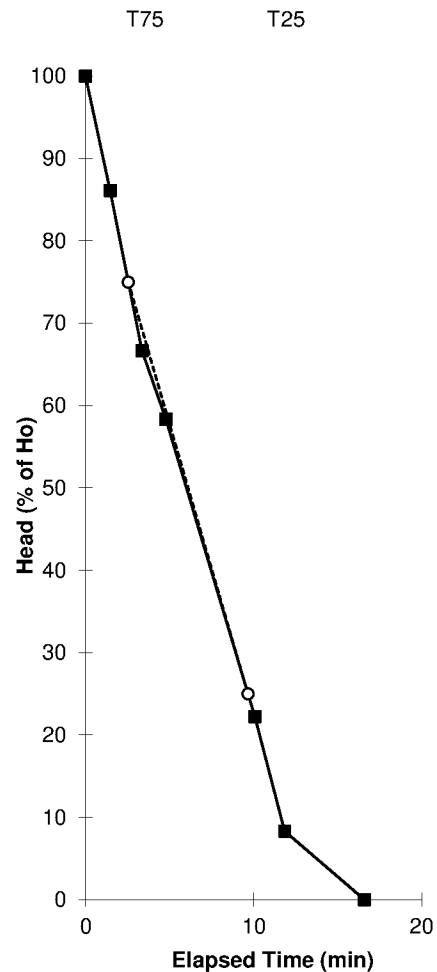
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	0.70 m
Width of Pit	0.95 m
Length of Pit	1.20 m
Depth of Pit Soaked	0.36 m
ap_{25}	1.914 m ²
Vp_{75-25}	0.2052 m ³
t_{75-25}	7.1 min
water used	0.4104 m ³
f	2.511E-04 m/sec.

Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
0.34	0	100	0.36
0.39	1	86	0.31
0.46	3	67	0.24
0.49	5	58	0.21
0.62	10	22	0.08
0.67	12	8	0.03
0.7	17	0	0.00



T75	2.543	75
T25	9.660	25
T75-25	7.117	Derived from Best Fit

Comments

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Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	RSK2 Test 2
Contract:	Fontwell, Arundel Road
Contract No.	17573

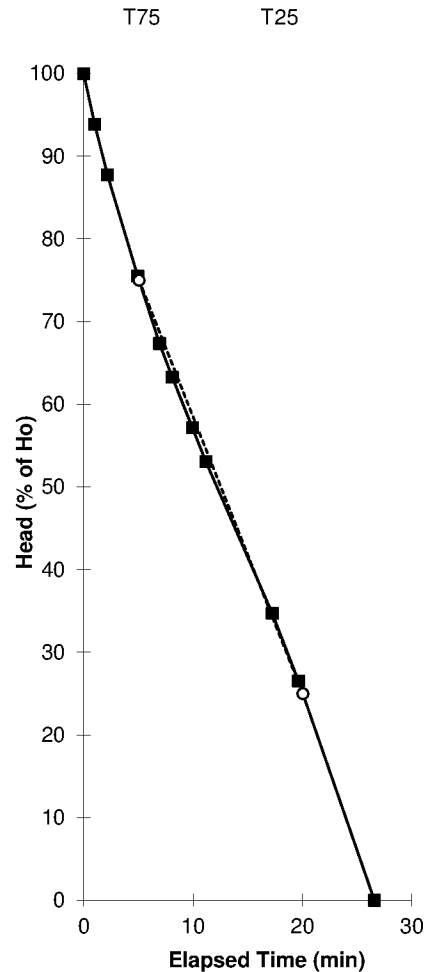
Field Test

Trial Pit Log (include details of groundwater):
See trial Pit record

Depth of Pit	0.70 m
Width of Pit	0.95 m
Length of Pit	1.20 m
Depth of Pit Soaked	0.49 m
ap_{50}	2.1935 m ²
V_{p75-25}	0.2793 m ³
t_{75-25}	15.0 min
water used	0.5586 m ³
f	1.417E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.21	0	100	0.49
0.24	1	94	0.46
0.27	2	88	0.43
0.33	5	76	0.37
0.37	7	67	0.33
0.39	8	63	0.31
0.42	10	57	0.28
0.44	11	53	0.26
0.53	17.23	35	0.17
0.57	19.63	27	0.13
0.7	26.57	0	0.00



T75	5.058	75
T25	20.033	25
T75-25	14.975	Derived from Best Fit

Comments

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Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	RSK2 Test 3
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

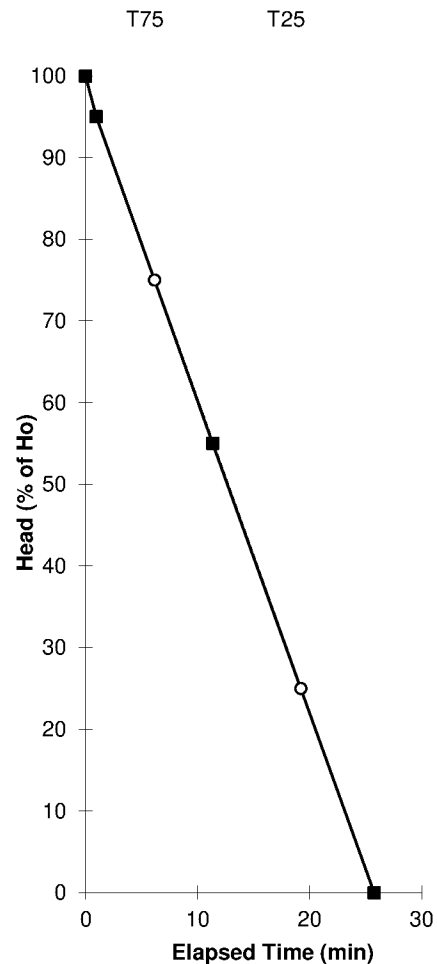
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	0.70 m
Width of Pit	0.95 m
Length of Pit	1.20 m
Depth of Pit Soaked	0.40 m
ap50	2 m2
Vp75-25	0.228 m3
t75-25	13.1 min
water used	0.4560 m3
f	1.455E-04 m/sec.

Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
0.3	0	100	0.40
0.32	1	95	0.38
0.48	11	55	0.22
0.7	26	0	0.00



T75	6.150	75
T25	19.205	25
T75-25	13.055	Derived from Best Fit

Comments

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Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

		Soils Limited Newton House, Cross Road, Tadworth KT20 5SR 			Trial Pit Log		Trial Pit No. SO1	
Project Name: Land at Arundel Road, Fontwell		Project No.: 17573		Method:		Sheet 1 of 1		
Location: Land at Arundel Road, Fontwell, West Sussex BN18 0QP				Plant:		Hole Type TP		
Client: Crayfern Homes		Trial Pit Length: m		Trial Pit Width: m		Scale 1:25		
Dates: 27/03/2019		Level:		Co-ords:		Logged By		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (mAOD)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.30			Dark brown gravelly sandy SILT. Sand is fine to coarse, gravel is fine to medium, sub angular to sub rounded, made up of flint. Frequent rootlets. TOPSOIL	
	0.50	D					Dark orange and greyish brown sandy clayey GRAVEL. Gravel is fine to coarse, angular to sub rounded, flint. RIVER TERRACE DEPOSITS.	
				2.40			End of Pit at 2.400m	
General Remarks: Roots observed to 0.30m bgl.							Sample Type D: Disturbed B: Bulk J: Jar W: Water	
Groundwater Remarks:								

Soakaway Calculations

Soakaway Test No.	SO1 Test 1
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

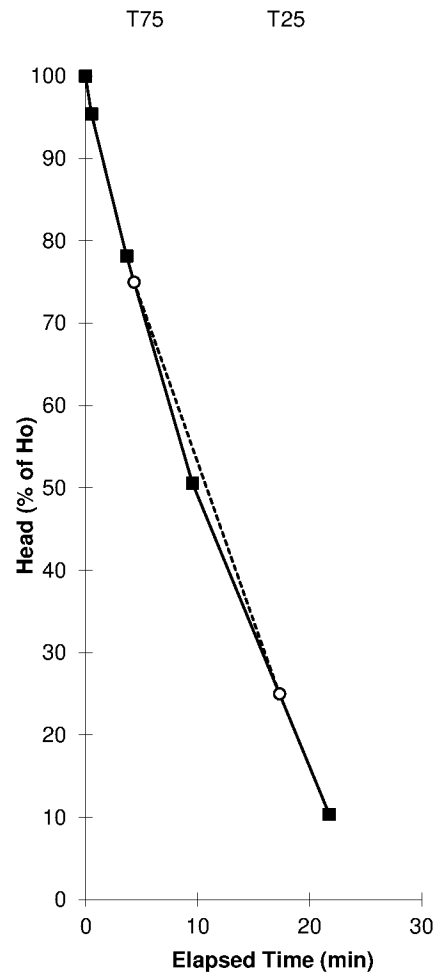
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	2.40 m
Width of Pit	0.60 m
Length of Pit	1.60 m
Depth of Pit Soaked	0.87 m
ap_{50}	2.874 m ²
V_{p75-25}	0.4176 m ³
t_{75-25}	13.0 min
water used	0.8352 m ³
f	1.866E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1.53	0	100	0.87
1.57	1	95	0.83
1.72	4	78	0.68
1.96	10	51	0.44
2.31	22	10	0.09



T75	4.326	75
T25	17.306	25
T75-25	12.980	Derived from Best Fit

Comments

SOILS LIMITED

Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	SO1 Test 2
Contract:	Fontwell, Arundel Road
Contract No.	17573

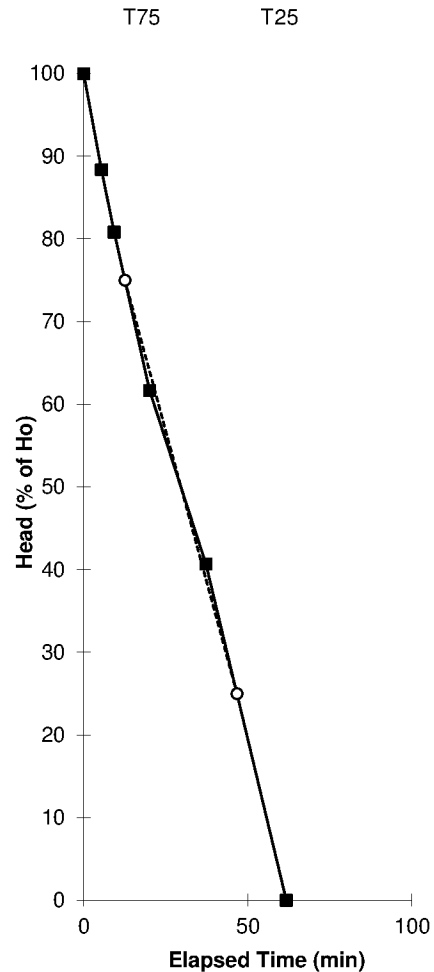
Field Test

Trial Pit Log (include details of groundwater):
See trial Pit record

Depth of Pit	2.30 m
Width of Pit	0.60 m
Length of Pit	1.60 m
Depth of Pit Soaked	1.72 m
ap_{50}	4.744 m ²
V_{p75-25}	0.8256 m ³
t_{75-25}	34.1 min
water used	1.6512 m ³
f	8.499E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.58	0	100	1.72
0.78	5	88	1.52
0.91	9	81	1.39
1.24	20	62	1.06
1.6	37	41	0.70
2.3	62	0	0.00



T75	12.566	75
T25	46.694	25
T75-25	34.127	Derived from Best Fit

Comments

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Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	SO1 Test 3
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

Trial Pit Log (include details of groundwater):

See trial Pit record

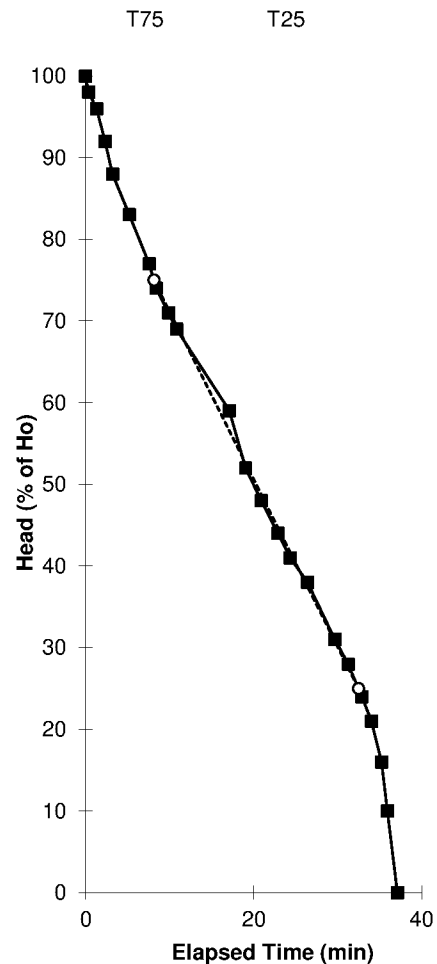
Depth of Pit	2.30 m
Width of Pit	0.60 m
Length of Pit	1.60 m
Depth of Pit Soaked	1.00 m
ap_{50}	3.16 m ²
V_{p75-25}	0.48 m ³
t_{75-25}	24.3 min
water used	0.9600 m ³
f	1.040E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1.3	0	100	1.00
1.32	0	98	0.98
1.34	1	96	0.96
1.38	2	92	0.92
1.42	3	88	0.88
1.47	5	83	0.83
1.53	8	77	0.77
1.56	8	74	0.74
1.59	10	71	0.71
1.61	10.83	69	0.69
1.71	17.12	59	0.59
1.78	19.03	52	0.52
1.82	20.90	48	0.48
1.86	22.90	44	0.44
1.89	24.33	41	0.41
1.92	26.40	38	0.38
1.99	29.66	31	0.31
2.02	31.23	28	0.28
2.06	32.88	24	0.24
2.09	34.00	21	0.21
2.14	35.22	16	0.16
2.2	35.92	10	0.10
2.3	37.10	0	0.00

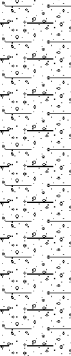
T75	8.122	75
T25	32.471	25
T75-25	24.349	Derived from Best Fit

Comments



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Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

		Soils Limited Newton House, Cross Road, Tadworth KT20 5SR 			Trial Pit Log		Trial Pit No. SO2 Sheet 1 of 1	
Project Name: Land at Arundel Road, Fontwell		Project No.: 17573		Method:		Hole Type		
Location: Land at Arundel Road, Fontwell, West Sussex BN18 0QP				Plant:		TP		
Client: Crayfern Homes		Trial Pit Length: m		Trial Pit Width: m		Scale		
Dates: 27/03/2019		Level:		Co-ords:		1:25		
Logged By								
Water Strike	Samples & In Situ Testing			Depth (m)	Level (mAOD)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.30			Dark black brown sandy gravelly SILT. Sand is fine to coarse, gravel is fine to coarse, sub angular to sub rounded, made up of flint. Frequent rootlets. TOPSOIL	
	0.50	D		1.50			Dark orange brown and grey, sandy clayey GRAVEL. Gravel is fine to coarse, sub angular to sub rounded, flint. RIVER TERRACE DEPOSITS.	
							End of Pit at 1.500m	
1 2 3 4 5								
General Remarks: Roots observed to 0.30m bgl.							Sample Type D: Disturbed B: Bulk J: Jar W: Water	
Groundwater Remarks:								

Soakaway Calculations

Soakaway Test No.	SO2 Test 1
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

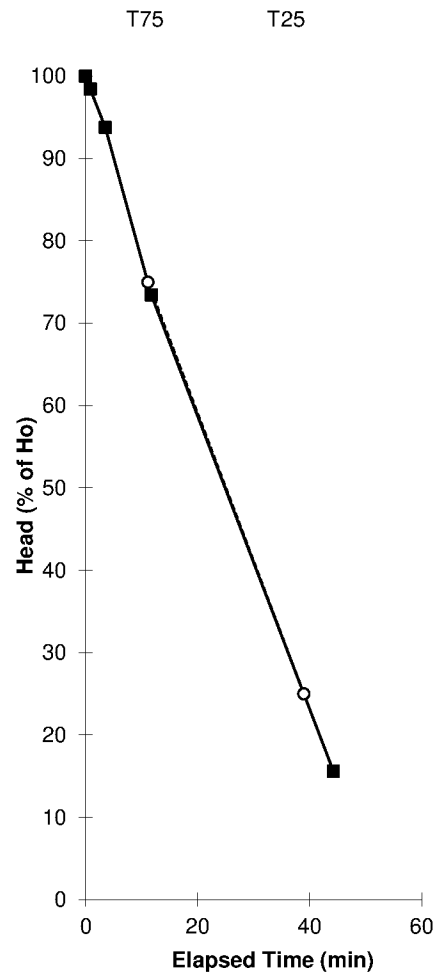
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	1.30 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.64 m
ap_{50}	2.12 m ²
V_{p75-25}	0.2688 m ³
t_{75-25}	27.8 min
water used	0.5376 m ³
f	7.592E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.66	0	100	0.64
0.67	1	98	0.63
0.7	4	94	0.60
0.83	12	73	0.47
1.2	44	16	0.10



T75	11.118	75
T25	38.952	25
T75-25	27.834	Derived from Best Fit

Comments

SOILS LIMITED

Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	SO2 Test 2
Contract:	Fontwell, Arundel Road
Contract No.	17573

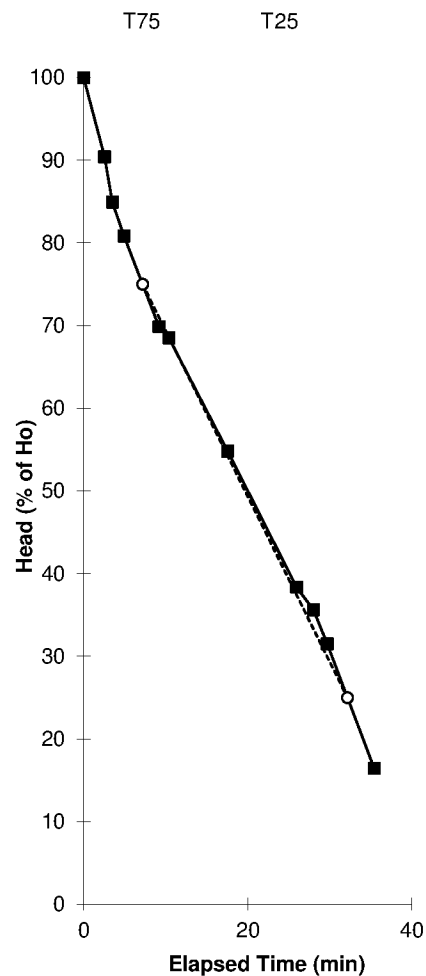
Field Test

Trial Pit Log (include details of groundwater):
See trial Pit record

Depth of Pit	1.20 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.73 m
ap50	2.3 m2
Vp75-25	0.3066 m3
t75-25	25.0 min
water used	0.6132 m3
f	8.898E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.47	0	100	0.73
0.54	3	90	0.66
0.58	3	85	0.62
0.61	5	81	0.59
0.69	9	70	0.51
0.7	10	68	0.50
0.8	18	55	0.40
0.92	26	38	0.28
0.94	28.00	36	0.26
0.97	29.68	32	0.23
1.08	35.40	16	0.12



Comments

SOILS LIMITED

Newton House, Cross Road, Tadworth
Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	SO2 Test 3
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

Trial Pit Log (include details of groundwater):

See trial Pit record

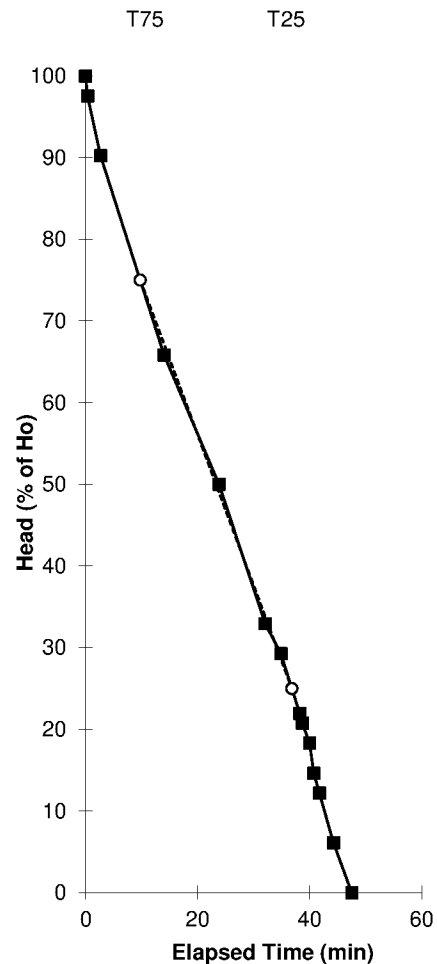
Depth of Pit	1.20 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.82 m
ap50	2.48 m2
Vp75-25	0.3444 m3
t75-25	27.1 min
water used	0.6888 m3
f	8.556E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.38	0	100	0.82
0.4	0	98	0.80
0.46	3	90	0.74
0.66	14	66	0.54
0.79	24	50	0.41
0.93	32	33	0.27
0.96	35	29	0.24
1.02	38	22	0.18
1.03	39	21	0.17
1.05	39.97	18	0.15
1.08	40.72	15	0.12
1.1	41.73	12	0.10
1.15	44.25	6	0.05
1.2	47.50	0	0.00

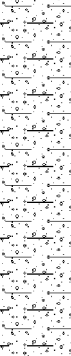
T75	9.763	75
T25	36.814	25
T75-25	27.051	Derived from Best Fit

Comments



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Surrey, KT20 5SR

		Soils Limited Newton House, Cross Road, Tadworth KT20 5SR 			Trial Pit Log		Trial Pit No. SO3 Sheet 1 of 1	
Project Name: Land at				Method:		Hole Type TP		
Location: Land at Arundel Road, Fontwell, West Sussex BN18 0QP				Plant:		Scale 1:25		
Client: Crayfern Homes				Trial Pit Length: m		Trial Pit Width: m		
Dates: 27/03/2019				Level:		Co-ords:		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (mAOD)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	D		0.30			Dark black brown sandy gravelly SILT. Sand is fine to coarse, gravel is fine to coarse, sub angular to sub rounded, made up of flint. Frequent rootlets. TOPSOIL	
	0.50	D		1.50			Dark orange brown sandy clayey GRAVEL. Gravel is fine to coarse, angular to sub rounded, flint. RIVER TERRACE DEPOSITS.	
							End of Pit at 1.500m	
1 2 3 4 5								
General Remarks: Roots observed to 0.30m bgl.							Sample Type D: Disturbed B: Bulk J: Jar W: Water	
Groundwater Remarks:								

Soakaway Calculations

Soakaway Test No.	SO3 Test 1
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

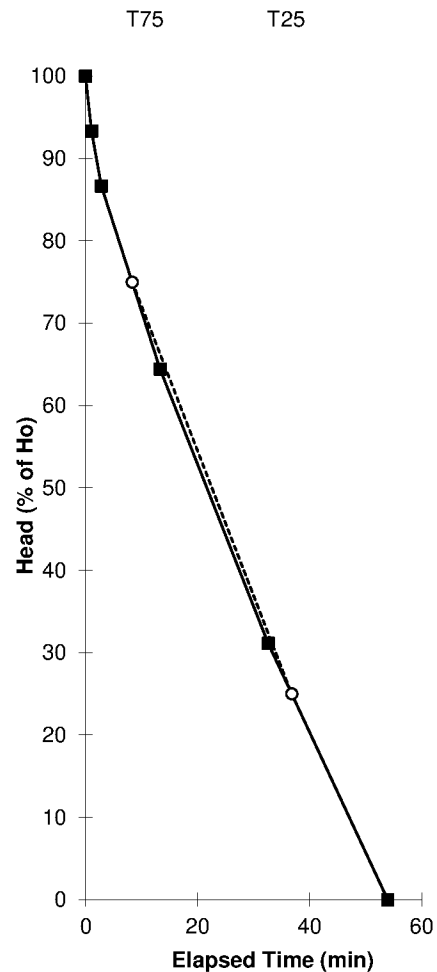
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	1.30 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.45 m
ap_{50}	1.74 m ²
V_{p75-25}	0.189 m ³
t_{75-25}	28.5 min
water used	0.3780 m ³
f	6.363E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.85	0	100	0.45
0.88	1	93	0.42
0.91	3	87	0.39
1.01	13	64	0.29
1.16	33	31	0.14
1.3	54	0	0.00



T75	8.337	75
T25	36.787	25
T75-25	28.450	Derived from Best Fit

Comments

SOILS LIMITED

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Surrey, KT20 5SR

Soakaway Calculations

Soakaway Test No.	SO3 Test 2
Contract:	Fontwell, Arundel Road
Contract No.	17573

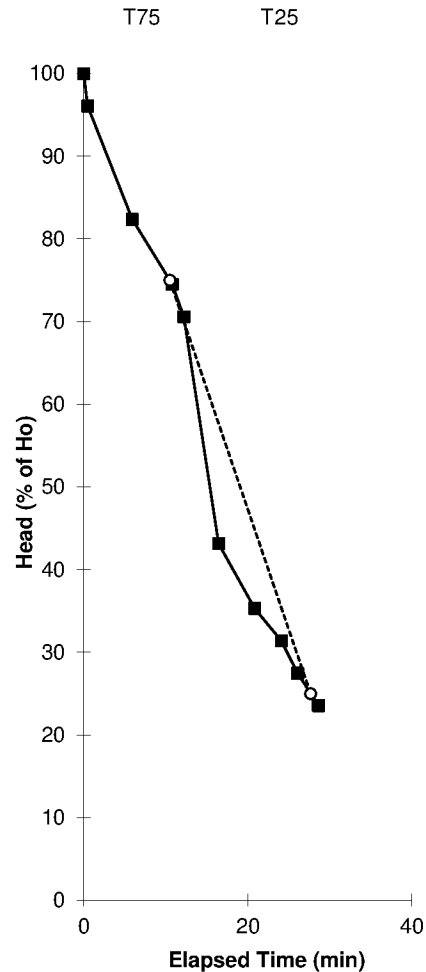
Field Test

Trial Pit Log (include details of groundwater):
See trial Pit record

Depth of Pit	1.30 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.51 m
$a_p b$	1.86 m ²
V_{p75-25}	0.2142 m ³
t_{75-25}	17.2 min
water used	0.4284 m ³
f	1.118E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.79	0	100	0.51
0.81	1	96	0.49
0.88	6	82	0.42
0.92	11	75	0.38
0.94	12	71	0.36
1.08	16	43	0.22
1.12	21	35	0.18
1.14	24	31	0.16
1.16	26.07	27	0.14
1.18	28.62	24	0.12



Comments

SOILS LIMITED

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Soakaway Calculations

Soakaway Test No.	SO3 Test 3
Contract:	Fontwell, Arundel Road
Contract No.	17573

Field Test

Trial Pit Log (include details of groundwater):

See trial Pit record

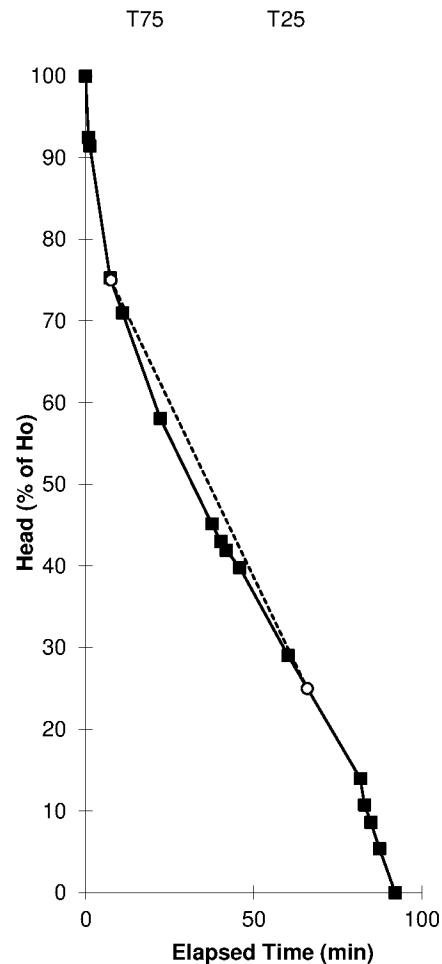
Depth of Pit	1.30 m
Width of Pit	0.60 m
Length of Pit	1.40 m
Depth of Pit Soaked	0.93 m
ap50	2.7 m2
Vp75-25	0.3906 m3
t75-25	58.4 min
water used	0.7812 m3
f	4.126E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.37	0	100	0.93
0.44	1	92	0.86
0.45	1	91	0.85
0.6	7	75	0.70
0.64	11	71	0.66
0.76	22	58	0.54
0.88	38	45	0.42
0.9	40	43	0.40
0.91	42	42	0.39
0.93	45.85	40	0.37
1.03	60.20	29	0.27
1.17	81.68	14	0.13
1.2	82.98	11	0.10
1.22	84.90	9	0.08
1.25	87.37	5	0.05
1.3	92.10	0	0.00

T75	7.519	75
T25	65.954	25
T75-25	58.436	Derived from Best Fit

Comments



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