



RSK Unit 28
Abbey Enterprise Centre
Primer Way
Ramsley
SO81 8AQ
UK

www.rsk.co.uk

Our Ref: 3050145 L01 (00)

19th March 2020

Barratt David Wilson Southern Counties
Walnut Tree Close
Guildford
GU1 4SW

For the attention of Sean Havis

Dear Sean,

RE: WATER LANE, ANGMERING, BN16 4EP, SOAKAWAY TESTING

1. INTRODUCTION

RSK Environment Limited (RSK) was commissioned by Barratt David Wilson (BDW) Southern Counties (the client) via email on 20th February 2020 to carry out soakaway testing at land off Water Lane, Angmering, West Sussex, BN16 4EP (the site). This letter report is subject to the service constraints laid out in **Appendix A**.

The site comprises approximately 9 hectares and is divided into two sections – a large field to the south of Water Lane and a small field to the west of the main field. A stream is located within the northern portion of the larger field. A site location plan is given in **Figure 1**.

2. SUMMARY OF SITE SETTING

The published BGS geological records of the area indicate that the site is underlain by Superficial Deposits comprising Alluvium, at the northernmost tip of the site only, Head Deposits across the north of the site and River Terrace Deposits within the south of the site. These are underlain by the bedrock London Clay Formation within the north of the site and the Lambeth Group within the south. These are underlain in turn by the bedrock White Chalk.

The site does not lie within an EA designated Source Protection Zone and there are no groundwater abstraction boreholes within 500m of the site.

The superficial geology at the site is classified as a Superficial Aquifer Undifferentiated with respect to the Head and Alluvium and a Secondary A Aquifer with respect to the River Terrace Deposits noted within the south of the site. The bedrock geology is noted as Unproductive Strata with respect to the London Clay Formation, Secondary A Aquifer with respect to the Lambeth Group and Principal Aquifer with respect to the bedrock White Chalk.



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3. SITE INVESTIGATION METHODOLOGY

RSK carried out intrusive investigation work on 3rd – 6th March 2020. The initial instructions comprised the excavation of 6 soakaway locations. Following assessment of how these were performing during the works, BDW added an additional 10 locations totalling 16 locations. Due to the recorded infiltration rates and site works logistics 3 fills were not achieved in all locations. During the works exceptionally heavy rainfall was experienced causing the fields to become soft and boggy, notably the northern half of the main field which prevented access to this area with the water filled bowser. A number of additional locations determined by RSK were undertaken within the southern portion of the site which was accessible during the wet weather. The tests were carried out in accordance with the method described in BRE Digest 365 (BRE, 2016), albeit for some locations it was not logistically possible to complete the 3 tests. A summary of the locations is presented in Error! Reference source not found. below:

Table 1: Exploratory location rationale

Location	Proposed depth (m bgl)	Actual Depth (m bgl)	Test attempted	Comments
SA1	2.0 – 3.0	2.0	Yes	Initial scope
SA2	2.0 – 3.0	2.2	Yes	Initial scope
SA3	2.0 – 3.0	2.4	Yes	Initial scope
SA4	2.0 – 3.0	2.3	Yes	Initial scope
SA5	2.0 – 3.0	2.3	Yes	Initial scope
SA6	2.0 – 3.0	2.3	Yes	Initial scope
SA7	1.0	2.0	Yes	Excavated before additional plan showing depths was received
SA8	1.0	2.3	Yes	Excavated before additional plan showing depths was received
SA9	0.5	-	No	Not undertaken due to logistical constraints
SA10	1.0	1.10	Yes	
SA11	1.0	1.0	Yes	
SA12	1.0	1.0	Yes	
SA13	1.0	1.0	Yes	
SA14	0.5	0.6	Yes	
SA15	0.5	-	No	No access to northern part of site due to wet conditions
SA16	0.5	-	No	No access to northern part of site due to wet conditions
SA17	2.0	2.0	Yes	RSK additional location
SA18	1.5	1.5	Yes	RSK additional location
SA19	0.5	0.5	Yes	RSK additional location

4. GROUND CONDITIONS

Ground conditions encountered during the investigation comprised Topsoil in all locations to a maximum depth of 0.2 m bgl overlying Superficial Deposits to a maximum depth of 2.3 m bgl. The Superficial Deposits varied in composition but generally comprised a variable combination of sand, gravel and silt. No groundwater was encountered during the investigation. Logs of the encountered ground conditions are presented within **Appendix B**.

5. SOAKAWAY TESTS

In-situ trial pit soakaway tests were undertaken in locations as detailed in Table 1 above. A summary of the calculated infiltration rate is given in **Table 2** below.

Table 2: Summary of calculated infiltration rate

Trial Pit	Test Number	Infiltration Rate (m/s)	Comment
SA1	1	4.67×10^{-5}	
	2	4.52×10^{-5}	
	3	4.93×10^{-5}	
SA2	1	8.51×10^{-5}	1 test completed due to time constraints
SA3	1	2.27×10^{-4}	
	2	1.93×10^{-4}	
	3	2.79×10^{-4}	
SA4	1	2.00×10^{-3}	
	2	1.17×10^{-3}	
	3	1.03×10^{-3}	
SA5	1	-	Test fail after >24 hours
SA6	1	-	Test fail after >24 hours
SA7	1	7.21×10^{-5}	
	2	5.78×10^{-5}	
	3	4.86×10^{-5}	
SA8	1	4.75×10^{-4}	1 test completed due to time constraints
SA10	1	1.02×10^{-5}	
	2	4.24×10^{-6}	Extrapolated result - pit left overnight
	3	Fail	Pit left for 6 hours 75-25% head of water not reached over this duration

SA11	1	5.59×10^{-6}	1 test completed due to time constraints
SA12	1	2.59×10^{-5}	
	2	2.09×10^{-5}	
	3	1.69×10^{-5}	
SA13	1	6.75×10^{-4}	
	2	6.24×10^{-4}	
	3	6.65×10^{-4}	
SA14	1	3.57×10^{-5}	
	2	4.20×10^{-5}	
	3	-	Insufficient time to complete test
SA17	1	2.18×10^{-5}	
	2	2.27×10^{-5}	
	3	2.46×10^{-5}	
SA18	1	-	Insufficient time to complete test
SA19	1	2.05×10^{-5}	1 test completed due to time constraints
Notes: m bgl – metres below ground level, m/s – metres per second.			

6. DISCUSSION AND CONCLUSION

As outlined in the table above infiltration rates varied across the site, with the greater infiltration occurring with the more granular soils and broadly in line with the underlying geology. Within pits where an infiltration rate has been calculated the infiltration rates recorded range between 2.0×10^{-3} m/s and 4.24×10^{-6} m/s.

It is noted that within the northern portion of the site SA5 and SA6 were left to run for over 24 hours and a negligible infiltration rate was recorded. In addition, ground conditions within the northern portion of the site precluded access to this area following prolonged rainfall. Given the proximity of the stream and the lack of infiltration recorded this area is unlikely to be suitable for soakaway drainage.

The data provided should allow the drainage engineer to select the appropriate infiltration rate for the areas of proposed soakaway drainage, where soakage has been shown to be feasible. It is considered that the conditions in which these tests were conducted (i.e. during heavy rain, and after the wettest February on record, and one of the wettest winters) provides a worst case scenario for the site in terms of likely infiltration rates.



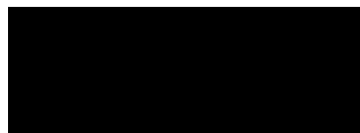
We trust that the information provided above meets your requirements. Should you have any queries or require additional information, please do not hesitate to contact the undersigned.

Yours sincerely,

For RSK Environment Limited



Kirsten Fairall
Principal Geo-environmental Consultant



Nigel Austin
Director – Geosciences

Enc.

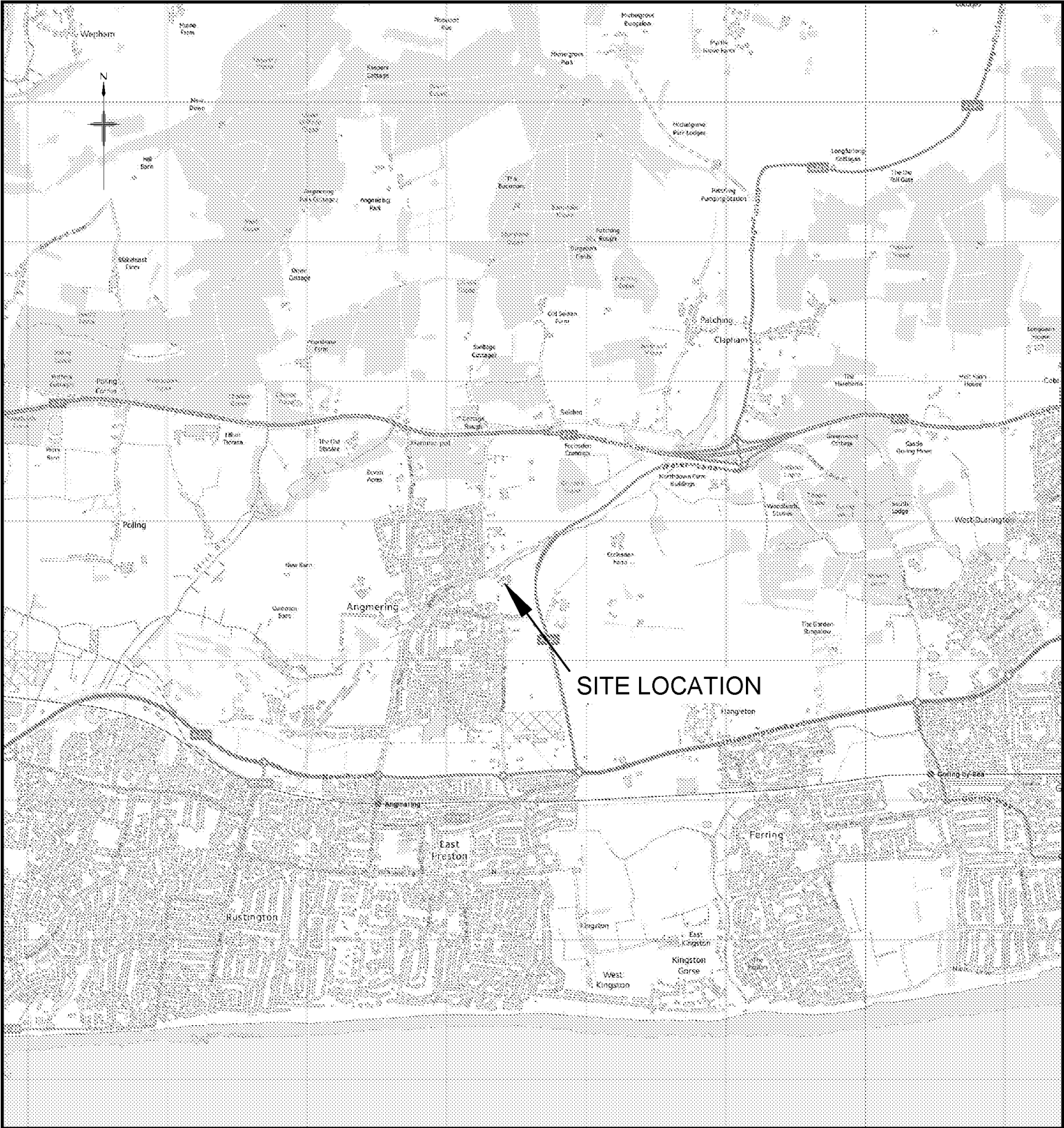
Figures:

- | | |
|----------|--------------------------------|
| Figure 1 | Site Location Plan |
| Figure 2 | Exploratory Hole Location Plan |

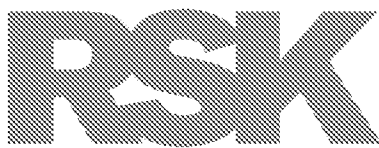
Appendices:

- | | |
|------------|------------------------------|
| Appendix A | Service Constraints |
| Appendix B | Exploratory Hole Logs |
| Appendix C | Trial Pit Soakaway Test Data |

FIGURES



Contains Ordnance Survey data © Crown copyright and database right 2013



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Client	BARRATT DAVID WILSON SOUTHERN COUNTIES	
Project Title	WATER LANE, ANGMERING	
Drawing Title	SITE LOCATION PLAN	

Drawn	Date	Checked	Date	Approved	Date	Project No.	Drawing File
HD	12.03.20	KF	12.03.20	KF	12.03.20	305145	305145-R01(00)D001A
Scale NTS	Orig Size A4		Dimensions —		Drawing No. FIGURE 1		Rev. A



LEGEND:

- Site boundary
- Soakaway locations



A	12.03.20	FIRST ISSUE	HD	KF	KF
REV	DATE	DESCRIPTION	BY	CHD	APR.
Dimensions		Projection	Scale	Orig Size	
m			1:2,000	A3	



Unit 36
Bosworth Abbey Industrial Estate
Preston Way
Abbey Park Industrial Estate
Ratney SO14 9AQ

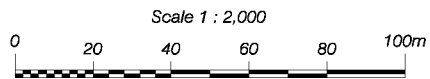
CLIENT
BARRATT DAVID WILSON SOUTHERN COUNTIES

PROJECT
WATER LANE, ANGMERING

TITLE
SOAKAWAY LOCATION PLAN

JOB No.: 305145
DRAWING FILE: 305145-R01(00)D002A

BY:	DATE:	CONTRACT NO.	REV:
HD	12.03.20	FIGURE 2	A



APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Barratt David Wilson Southern Counties (the "client") in accordance with the terms of a contract between RSK and the "client". The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date hereof, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services that were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walkover survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The phase II or intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information,] and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site.

APPENDIX B

EXPLORATORY HOLE LOGS



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA1	
Contract Ref: 305145		Start: 04.03.20 End: 04.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.15	
						Dark brown gravelly fine SAND / SILT. Gravel is fine to medium subrounded to subangular flint. (Superficial Deposits)	(1.85)	
						Trial pit terminated at 2.0	2.00	

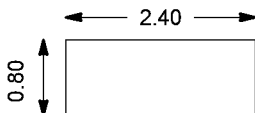
Plan (Not to Scale)		General Remarks	
		- Services cleared by GPR. - Trial pit backfilled with arisings. - Initial depth 2.00m. Trial pit collapsed to 1.70m during test. - No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA2	
Contract Ref: 305145		Start: 04.03.20 End: 04.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL	0.10	
						Dark brown sandy gravelly SILT. Sand is fine. Gravel is fine to medium subrounded to subangular flint.		
						(Superficial Deposits)	(2.10)	
							2.20	
						Trial pit terminated at 2.20m.		

Plan (Not to Scale)		General Remarks							
		- Services cleared by GPR. - Trial pit backfilled with arisings. - Initial depth 2.20m. Trial pit collapsed to 1.80m during test. - No groundwater encountered							
All dimensions in metres		Scale: 1:25							
Method Used: Inspection pit + Machine dug		Plant Used: JCB 8080		Logged By: GTsoutsis		Checked By: KF			



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA3	
Contract Ref: 305145	Start: 03.03.20 End: 03.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.20	
						Brown gravelly SAND / SILT. Sand is fine. Gravel is fine to coarse subrounded to subangular flint. Rare chalk fragments present. (Superficial Deposits)	(2.20)	
							2.40	
						Trial pit terminated at 2.40m.		

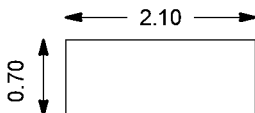
Plan (Not to Scale)		General Remarks	
		- Services cleared by GPR. - Trial pit backfilled with arisings. - Initial depth 2.40m. Trial pit collapsed to 2.05m during test. - No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA4	
Contract Ref: 305145	Start: 03.03.20 End: 03.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Brown gravelly SAND / SILT. Sand is fine. Gravel is fine to medium subrounded to subangular flint with rare chalk fragments (Superficial Deposits)	(2.20)	
						Trial pit terminated at 2.3m.	2.30	

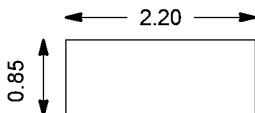
Plan (Not to Scale)		General Remarks	
		- Services cleared by GPR. - Trial pit backfilled with arisings. - Initial depth 2.30m. Trial pit collapsed to 2.10m during test. - No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF 



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA5	
Contract Ref: 305145		Start: 03.03.20 End: 04.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.15	
						Brown slightly silty CLAY. (Superficial Deposits)	(2.15)	
						Trial pit terminated at 2.30m.	2.30	

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF 



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA6	
Contract Ref: 305145	Start: 03.03.20 End: 04.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.20	
						Brown slightly silty CLAY. (Superficial Deposits)	(2.10)	
						Trial pit terminated at 2.30m.	2.30	

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA7	
Contract Ref: 305145	Start: 04.03.02 End: 04.03.02	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.20	
						Brown gravelly sandy SILT. Sand is fine. Gravel is fine to coarse subrounded to subangular flint. (Superficial Deposits)	(1.80)	
							2.00	
						Trial pit terminated at 2.0m.		

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. Initial depth 2.00m. Trial pit collapsed to 1.85m during test. 4. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA8	
Contract Ref: 305145	Start: 04.03.20 End: 04.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Brown gravelly sandy SILT. Sand is fine. Gravel is fine to coarse subrounded to subangular flint.		
						(Superficial Deposits)	(2.20)	
							2.30	
						Trial pit terminated at 2.30m.		

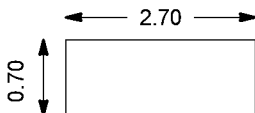
Plan (Not to Scale)		General Remarks	
		- Services cleared by GPR. - Trial pit backfilled with arisings. - Initial depth 2.30m. Trial pit collapsed to 2.10m during test. - No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA10	
Contract Ref: 305145		Start: 05.03.20 End: 05.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.20	
						Brown sandy gravelly SILT. Sand is fine, gravel comprises angular to sub angular flint. (Superficial Deposits)	(0.90)	
						Trial pit terminated at 1.10m	1.10	

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF

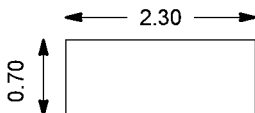




TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA11	
Contract Ref: 305145		Start: 05.03.20 End: 05.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Brown slightly sandy CLAY.		
						(Superficial Deposits)	(0.90)	
							1.00	
						Trial pit terminated at 1.00m.		

Plan (Not to Scale) 		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF





TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA12	
Contract Ref: 305145		Start: 05.03.20 End: 05.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Dark brown sandy gravelly SILT. Sand is fine. Gravel is fine to medium subrounded to subangular flint.		
						(Superficial Deposits)	(0.90)	
							1.00	
						Trial pit terminated at 1.00m.		

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF





TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA13	
Contract Ref: 305145	Start: 05.03.20 End: 05.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Dark brown sandy gravelly SILT Sand is fine. Gravel is fine to medium subrounded to subangular flint.		
						(Superficial Deposits)	(0.90)	
							1.00	
						Trial pit terminated at 1.00m.		

Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF





Contract: Angmering Water Lane			Client: BDW Southern Counties		Trial Pit: SA14	
Contract Ref: 305145		Start: 05.03.20 End: 05.03.20	Ground Level: ---	National Grid Co-ordinate: ---		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.15	
						Brown sandy gravelly SILT. Gravel is fine subrounded to subangular flint. (Superficial Deposits)	(0.45)	
						Trial pit terminated at 0.60m.	0.60	

Plan (Not to Scale) Diagram showing a rectangular pit with a width of 2.30 and a depth of 0.75.		General Remarks 1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
		All dimensions in metres Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA17	
Contract Ref: 305145	Start: 06.03.20 End: 06.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Brown sandy gravelly SILT. Gravel comprises medium to fine angular to sub rounded flint		
						(Superficial Deposits)	(1.90)	
							2.00	
						Trial pit terminated at 2.00m.		

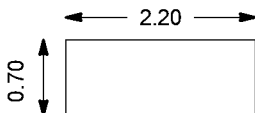
Plan (Not to Scale)		General Remarks	
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered	
All dimensions in metres		Scale: 1:25	
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA18	
Contract Ref: 305145		Start: 06.03.20 End: 06.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.20	
						Brown sandy SILT. Sand is fine. (Superficial Deposits)	(1.30)	
						Trial pit terminated at 1.50m	1.50	

Plan (Not to Scale)		General Remarks			
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered			
All dimensions in metres		Scale: 1:25			
Method Used: Inspection pit + Machine dug		Plant Used: JCB 8080		Logged By: GTsoutsis	
		Checked By: KF			



TRIAL PIT LOG

Contract: Angmering Water Lane		Client: BDW Southern Counties		Trial Pit: SA19
Contract Ref: 305145	Start: 06.03.20 End: 06.03.20	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Grass over TOPSOIL.	0.10	
						Brown sandy slightly gravelly SILT. Sand is fine. Gravel comprises subrounded to subangular flint	(0.40)	
						(Superficial Deposits)	0.50	
						Trial pit terminated at 0.50m.		

Plan (Not to Scale)		General Remarks		
		1. Services cleared by GPR. 2. Trial pit backfilled with arisings. 3. No groundwater encountered		
All dimensions in metres		Scale: 1:25		
Method Used: Inspection pit + Machine dug	Plant Used: JCB 8080	Logged By: GTsoutsis	Checked By: KF	

APPENDIX C

TRIAL PIT SOAKAWAY TEST DATA

Soakaway Calculations



Soakaway Test No.	SA1 test 2
Contract	Water Lane Angmering
Contract No.	305145

Field Test

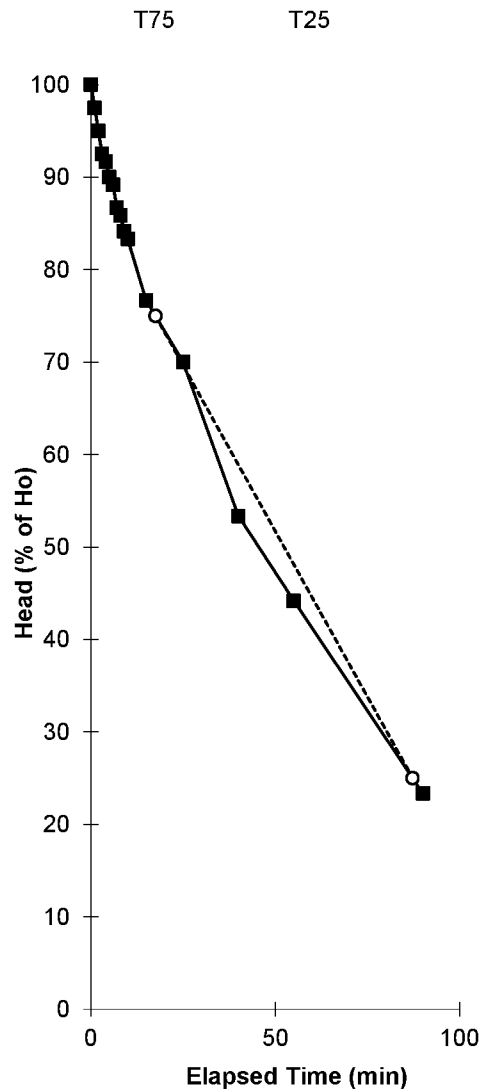
Trial Pit Log (include details of groundwater):
See trial Pit record.

Depth of Pit	1.80 m
Width of Pit	0.70 m
Length of Pit	2.60 m
Depth of Pit Soaked	1.20 m
ap50	5.78 m2
Vp75-25	1.092 m3
t75-25	69.7 min
water used	2.1840 m3
f	4.518E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.6	0	100	1.20
0.63	1	98	1.17
0.66	2	95	1.14
0.69	3	93	1.11
0.7	4	92	1.10
0.72	5	90	1.08
0.73	6	89	1.07
0.76	7	87	1.04
0.77	8.00	86	1.03
0.79	9.00	84	1.01
0.8	10.00	83	1.00
0.88	15.00	77	0.92
0.98	25.00	70	0.84
1.16	40.00	53	0.64
1.27	55.00	44	0.53
1.52	90.00	23	0.28

T75	17.500	75
T25	87.200	25
T75-25	69.700	Derived from Best Fit



Comments

Soakaway Calculations



Soakaway Test No.	SA1 test 3
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

Depth of Pit	1.70 m
Width of Pit	0.70 m
Length of Pit	2.60 m
Depth of Pit Soaked	1.23 m
ap_{50}	5.879 m ²
V_{p75-25}	1.1193 m ³
t_{75-25}	64.3 min
water used	2.2386 m ³
k	4.934E-05 m/sec.

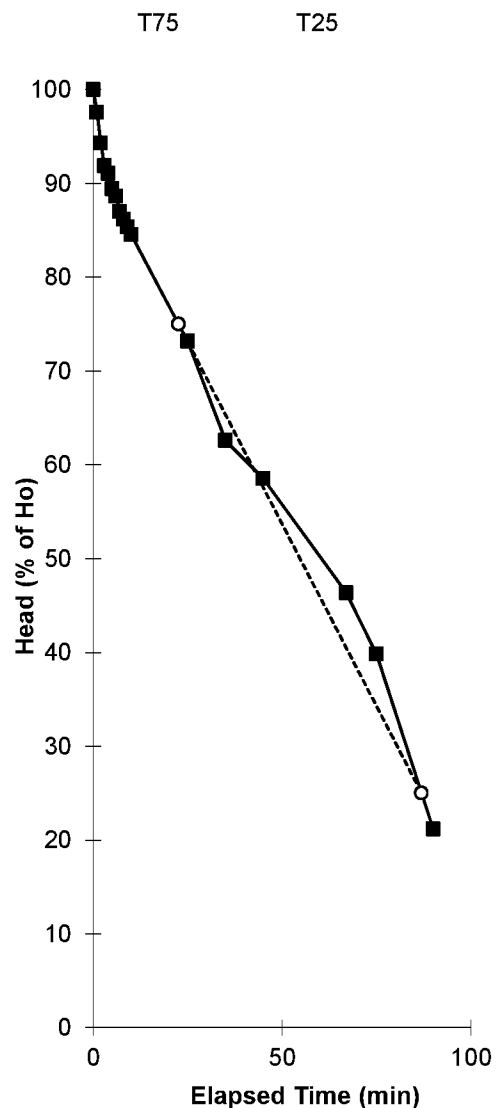
Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.47	0	100	1.23
0.5	1	98	1.20
0.54	2	94	1.16
0.57	3	92	1.13
0.58	4	91	1.12
0.6	5	89	1.10
0.61	6	89	1.09
0.63	7	87	1.07
0.64	8	86	1.06
0.65	9.00	85	1.05
0.66	10.00	85	1.04
0.8	25.00	73	0.90
0.93	35.00	63	0.77
0.98	45.00	59	0.72
1.13	67.00	46	0.57
1.21	75.00	40	0.49
1.44	90.00	21	0.26

T75	22.589	75
T25	86.902	25
T75-25	64.313	Derived from Best Fit

Comments

Trail pit collapse to 1.7m bgl



ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations



Soakaway Test No.	SA3 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

Depth of Pit	2.10 m
Width of Pit	0.60 m
Length of Pit	2.20 m
Depth of Pit Soaked	1.07 m
$ap50$	4.316 m ²
V_{p75-25}	0.7062 m ³
t_{75-25}	12.0 min
water used	1.4124 m ³
f	2.270E-04 m/sec.

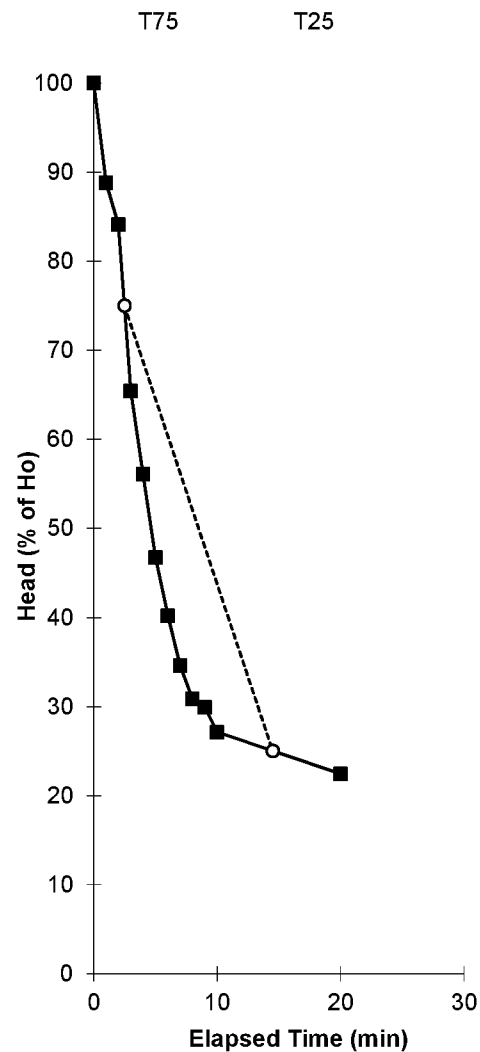
Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
1.03	0	100	1.07
1.15	1	89	0.95
1.2	2	84	0.90
1.4	3	65	0.70
1.5	4	56	0.60
1.6	5	47	0.50
1.67	6	40	0.43
1.73	7	35	0.37
1.77	8.00	31	0.33
1.78	9.00	30	0.32
1.81	10.00	27	0.29
1.86	20.00	22	0.24

T75	2.488	75
T25	14.500	25
T75-25	12.013	Derived from Best Fit

Comments

Initial depth 2.40m, collapse to 2.10m during test.



Soakaway Calculations



Soakaway Test No.	SA3 test 2
Contract	Water Lane Angmering
Contract No.	305145

Field Test

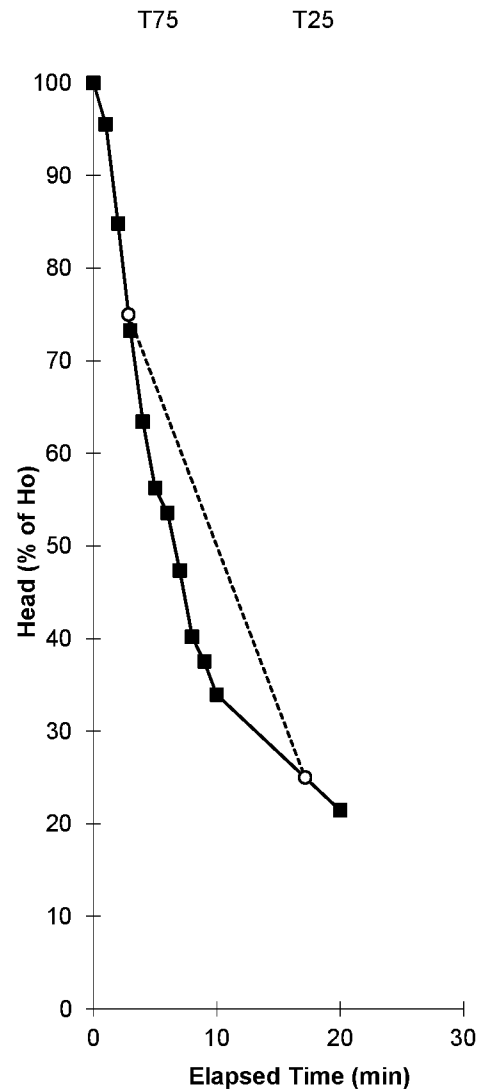
Trial Pit Log (include details of groundwater):
See trial Pit record.

Depth of Pit	2.10 m
Width of Pit	0.60 m
Length of Pit	2.20 m
Depth of Pit Soaked	1.12 m
$ap50$	4.456 m ²
$Vp75-25$	0.7392 m ³
$t75-25$	14.3 min
water used	1.4784 m ³
f	1.934E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.98	0	100	1.12
1.03	1	96	1.07
1.15	2	85	0.95
1.28	3	73	0.82
1.39	4	63	0.71
1.47	5	56	0.63
1.5	6	54	0.60
1.57	7	47	0.53
1.65	8.00	40	0.45
1.68	9.00	38	0.42
1.72	10.00	34	0.38
1.86	20.00	21	0.24

T75	2.846	75
T25	17.143	25
T75-25	14.297	Derived from Best Fit



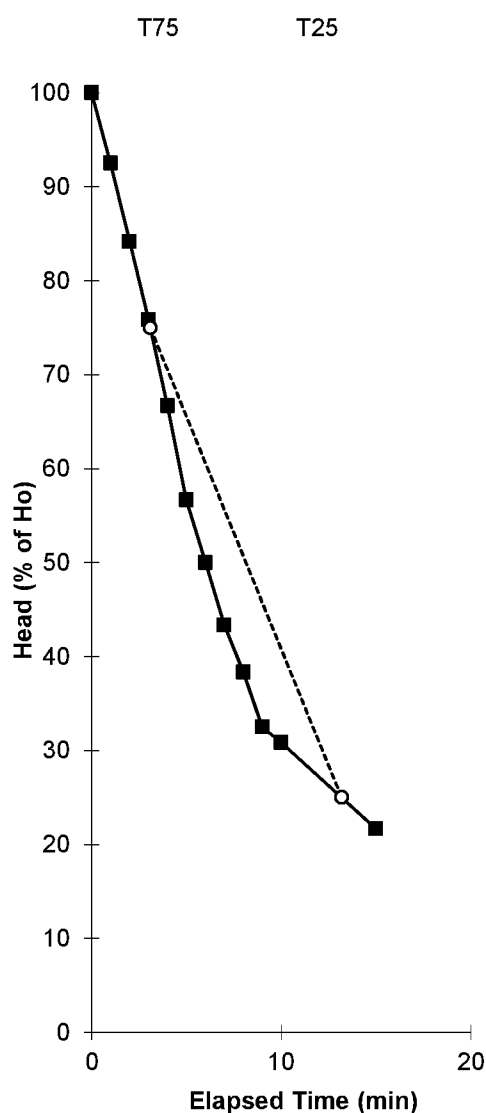
Comments

Field Test

See trial Pit record.

Field Data

T75	3.091	75
T25	13.182	25
T75-25	10.091	Derived from Best Fit



Comments

Soakaway Calculations



Soakaway Test No.	SA4 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

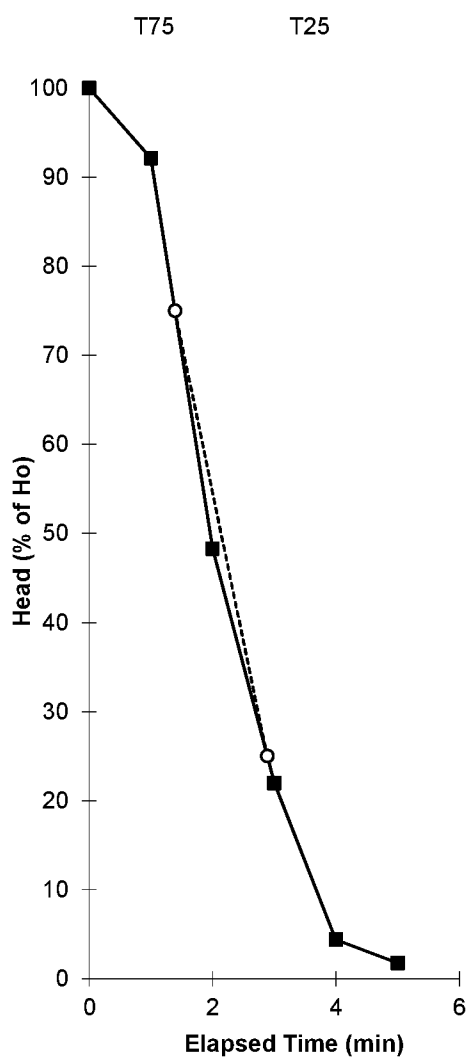
Depth of Pit	2.20 m
Width of Pit	0.70 m
Length of Pit	2.10 m
Depth of Pit Soaked	1.14 m
ap50	4.662 m2
Vp75-25	0.8379 m3
t75-25	1.5 min
water used	1.6758 m3
f	2.006E-03 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1.06	0	100	1.14
1.15	1	92	1.05
1.65	2	48	0.55
1.95	3	22	0.25
2.15	4	4	0.05
2.18	5	2	0.02

T75	1.390	75
T25	2.883	25
T75-25	1.493	Derived from Best Fit

Comments

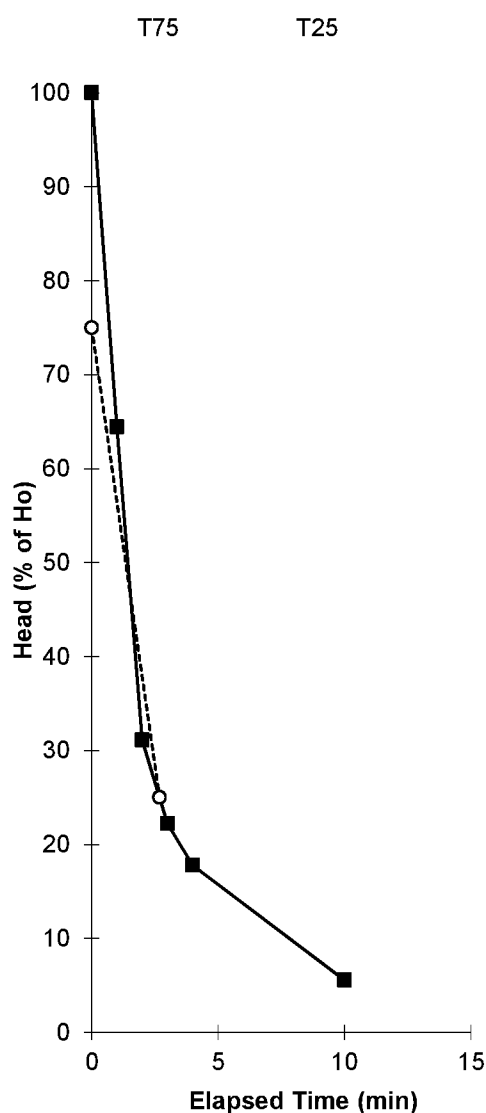


Field Test

See trial Pit record.

Field Data

T75	0.000	75
T25	2.688	25
T75-25	2.688	Derived from Best Fit



Comments

Soakaway Calculations



Soakaway Test No.	SA5 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

Depth of Pit	2.30 m
Width of Pit	0.85 m
Length of Pit	2.20 m
Depth of Pit Soaked	2.00 m
ap50	7.97 m2
Vp75-25	1.87 m3
t75-25	0.0 min
water used	3.7400 m3
f	m/sec.

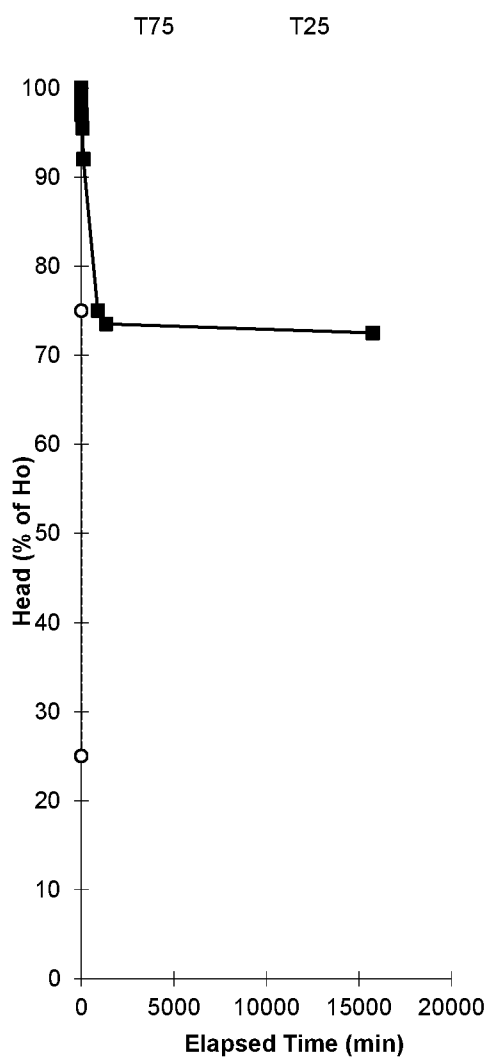
Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.3	0	100	2.00
0.3	1	100	2.00
0.31	1	100	1.99
0.32	2	99	1.98
0.35	4	98	1.95
0.36	25	97	1.94
0.39	69	96	1.91
0.46	120	92	1.84
0.8	900	75	1.50
0.83	1350.00	74	1.47
0.85	15750.00	73	1.45

T75	0.000	75
T25	0.000	25
T75-25	0.000	Derived from Best Fit

Comments

Test Fail



ARUN DISTRICT COUNCIL A/201/20/DOC

ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations



Soakaway Test No.	SA7 test 2
Contract	Water Lane Angmering
Contract No.	305145

Field Test

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

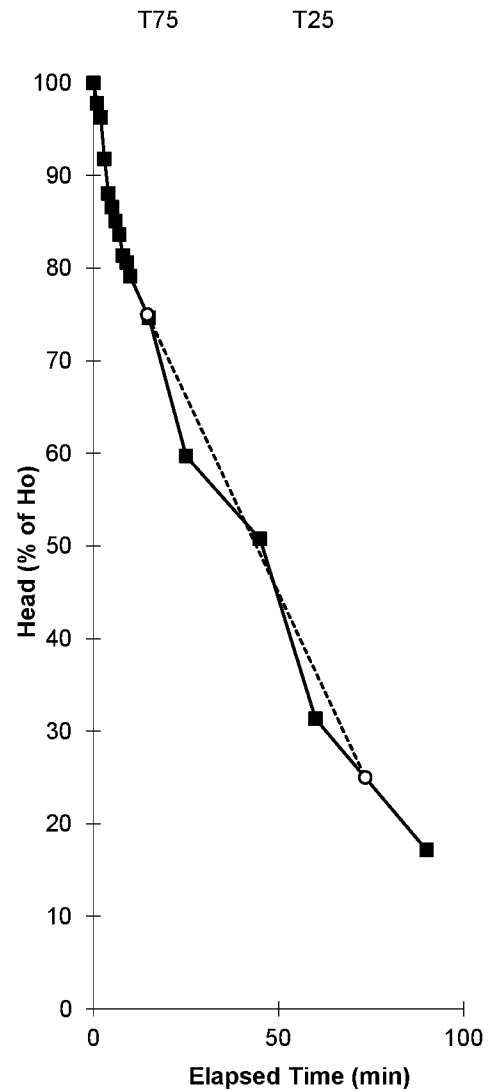
Depth of Pit	1.90 m
Width of Pit	0.75 m
Length of Pit	2.70 m
Depth of Pit Soaked	1.34 m
ap50	6.648 m2
Vp75-25	1.35675 m3
t75-25	58.8 min
water used	2.7135 m3
f	5.781E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.56	0	100	1.34
0.59	1	98	1.31
0.61	2	96	1.29
0.67	3	92	1.23
0.72	4	88	1.18
0.74	5	87	1.16
0.76	6	85	1.14
0.78	7	84	1.12
0.81	8.00	81	1.09
0.82	9.00	81	1.08
0.84	10.00	79	1.06
0.9	15.00	75	1.00
1.1	25.00	60	0.80
1.22	45.00	51	0.68
1.48	60.00	31	0.42
1.67	90.00	17	0.23

T75	14.583	75
T25	73.421	25
T75-25	58.838	Derived from Best Fit

Comments



Soakaway Calculations



Soakaway Test No.	SA7 test 3
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

Trial Pit Log (include details of groundwater):

See trial Pit record.

Depth of Pit	1.85 m
Width of Pit	0.75 m
Length of Pit	2.70 m
Depth of Pit Soaked	1.42 m
ap_{50}	6.924 m ²
V_{p75-25}	1.43775 m ³
t_{75-25}	71.3 min
water used	2.8755 m ³
k	4.857E-05 m/sec.

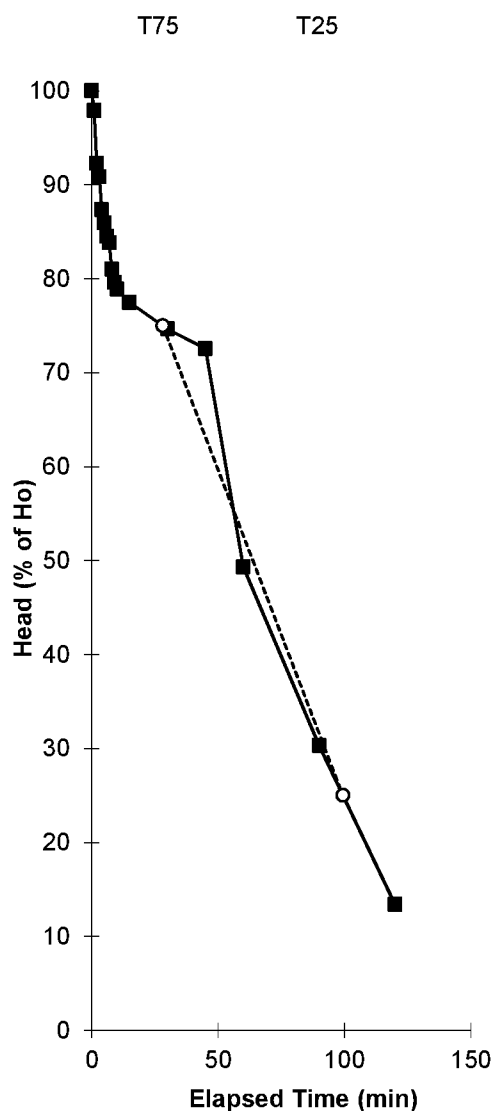
Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.43	0	100	1.42
0.46	1	98	1.39
0.54	2	92	1.31
0.56	3	91	1.29
0.61	4	87	1.24
0.63	5	86	1.22
0.65	6	85	1.20
0.66	7	84	1.19
0.7	8	81	1.15
0.72	9.00	80	1.13
0.73	10.00	79	1.12
0.75	15.00	77	1.10
0.79	30.00	75	1.06
0.82	45.00	73	1.03
1.15	60.00	49	0.70
1.42	90.00	30	0.43
1.66	120.00	13	0.19

T75	28.125	75
T25	99.375	25
T75-25	71.250	Derived from Best Fit

Comments

Trial pit collapse to 1.85m



Soakaway Calculations



Soakaway Test No.	SA8 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

Depth of Pit	2.10 m
Width of Pit	0.75 m
Length of Pit	2.40 m
Depth of Pit Soaked	1.10 m
ap_{50}	5.265 m ²
V_{p75-25}	0.99 m ³
t_{75-25}	6.6 min
water used	1.9800 m ³
f	4.750E-04 m/sec.

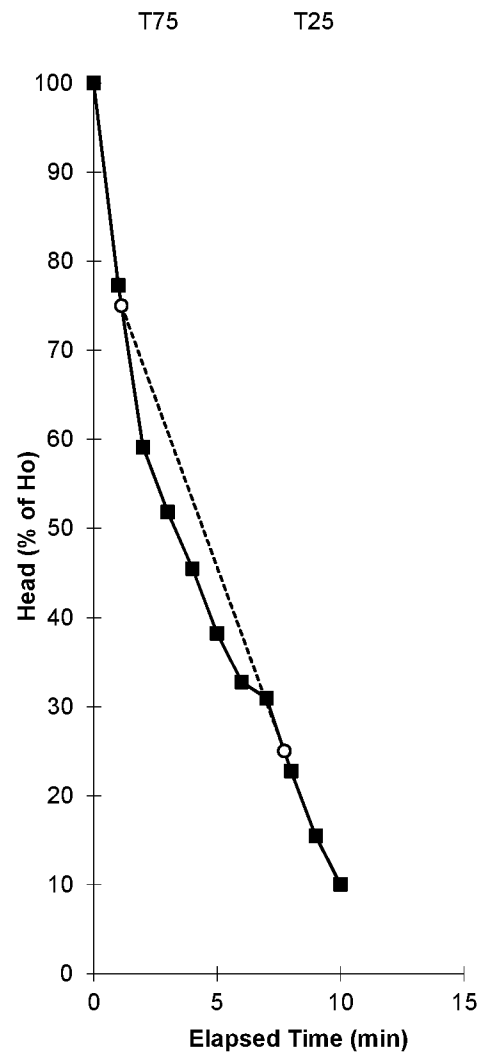
Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1	0	100	1.10
1.25	1	77	0.85
1.45	2	59	0.65
1.53	3	52	0.57
1.6	4	45	0.50
1.68	5	38	0.42
1.74	6	33	0.36
1.76	7	31	0.34
1.85	8.00	23	0.25
1.93	9.00	15	0.17
1.99	10.00	10	0.11

T75	1.125	75
T25	7.722	25
T75-25	6.597	Derived from Best Fit

Comments

Initial depth 2.3m pit collapse to 2.1m



Soakaway Calculations



Soakaway Test No.	SA10 test 1
Contract:	Water Lane Angmering
Contract No.	305145

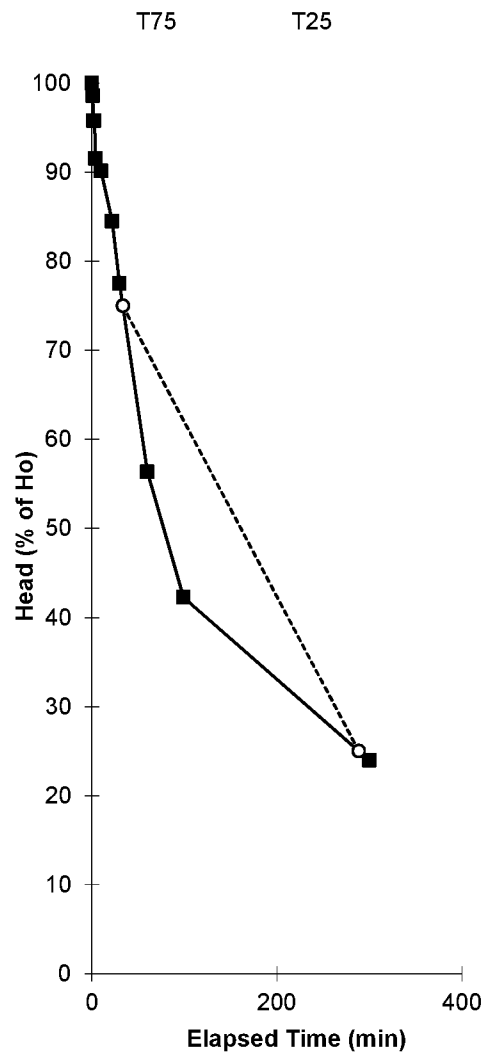
Field Test

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

Depth of Pit	1.00 m
Width of Pit	0.70 m
Length of Pit	2.70 m
Depth of Pit Soaked	0.71 m
ap50	4.304 m2
Yp75-25	0.67095 m3
t75-25	254.9 min
water used	1.3419 m3
f	1.019E-05 m/sec.

Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
0.29	0	100	0.71
0.3	1	99	0.70
0.32	2	96	0.68
0.32	3	96	0.68
0.35	4	92	0.65
0.36	10	90	0.64
0.4	22	85	0.60
0.45	30	77	0.55
0.6	60.00	56	0.40
0.7	99.00	42	0.30
0.83	300.00	24	0.17



T75	33.500	75
T25	288.404	25
T75-25	254.904	Derived from Best Fit

Comments

Soakaway Calculations

Soakaway Test No.	SA10 test 2
Contract	Water Lane Angmering
Contract No.	305145

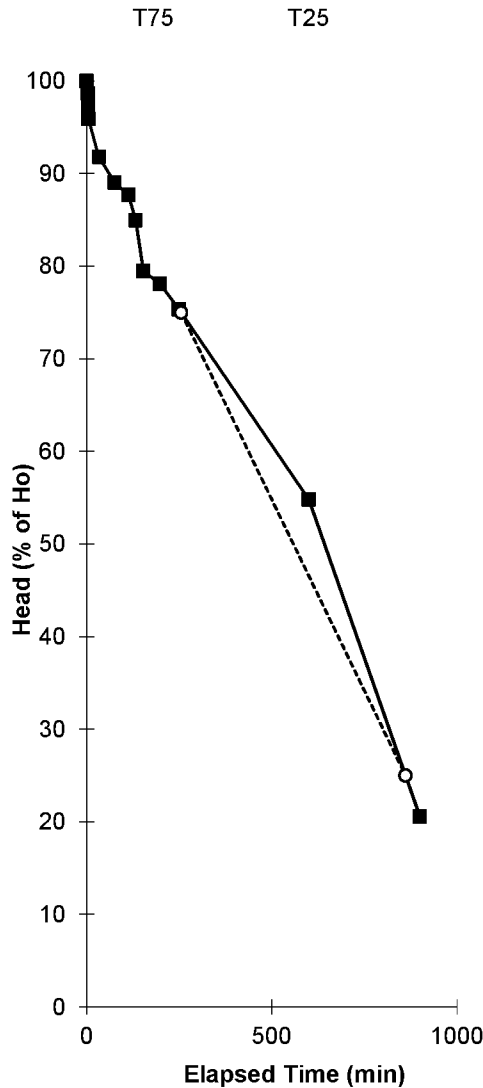
Field Test

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

Depth of Pit	1.00 m
Width of Pit	0.70 m
Length of Pit	2.70 m
Depth of Pit Soaked	0.73 m
sp50	4.372 m2
Vp75-25	0.68985 m3
t75-25	606.2 min
water used	1.3797 m3
f	4.339E-06 m/sec.

Field Data

<i>Depth to Water</i>	<i>Elapsed Time</i>	<i>Head of Water</i>	<i>Head of Water</i>
(m)	(min)	(% of Ho)	(m)
0.27	0	100	0.73
0.28	3	99	0.72
0.29	4	97	0.71
0.3	5	96	0.70
0.33	33	92	0.67
0.35	75	89	0.65
0.36	113	88	0.64
0.38	132	85	0.62
0.42	153.00	79	0.58
0.43	198.00	78	0.57
0.45	249.00	75	0.55
0.6	600.00	55	0.40
0.85	900.00	21	0.15
T75	254.850	75	
T25	861.000	25	
T75-25	606.150	Derived from Best Fit	



Comments

Extrapolated below 0.45m- pit was left overnight

Soakaway Calculations



Soakaway Test No.	SA10 test 3
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

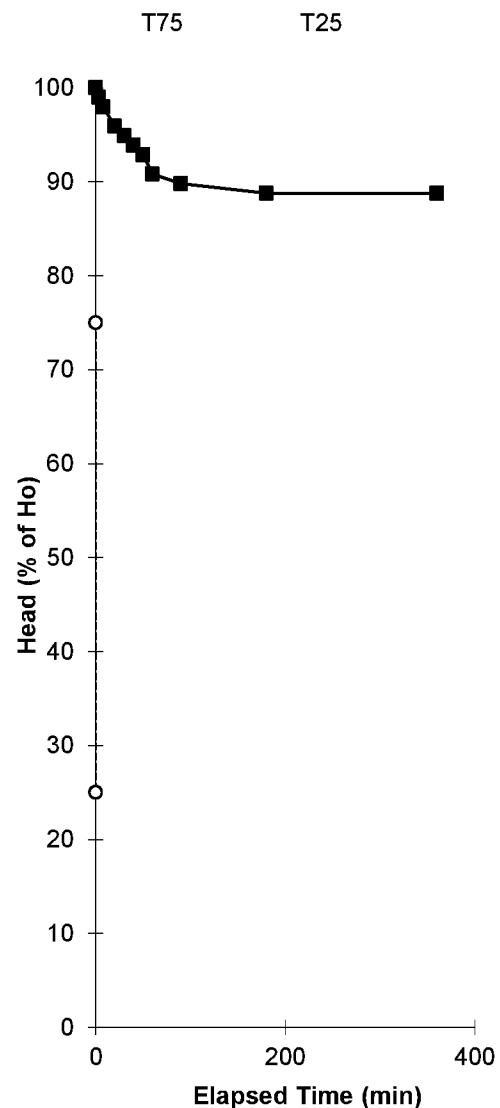
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	1.10 m
Width of Pit	0.70 m
Length of Pit	2.70 m
Depth of Pit Soaked	0.98 m
ap_{50}	5.222 m ²
V_{p75-25}	0.9261 m ³
t_{75-25}	0.0 min
water used	1.8522 m ³
k	#DIV/0! m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of H_0)	Head of Water (m)
0.12	0	100	0.98
0.13	3	99	0.97
0.14	8	98	0.96
0.16	20	96	0.94
0.17	30	95	0.93
0.18	40	94	0.92
0.19	50	93	0.91
0.21	60	91	0.89
0.22	90	90	0.88
0.23	180.00	89	0.87
0.23	360.00	89	0.87



Comments

Test failed

ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations

Soakaway Test No.	SA12 test 1
Contract:	Water Lane Angmering
Contract No.	305145

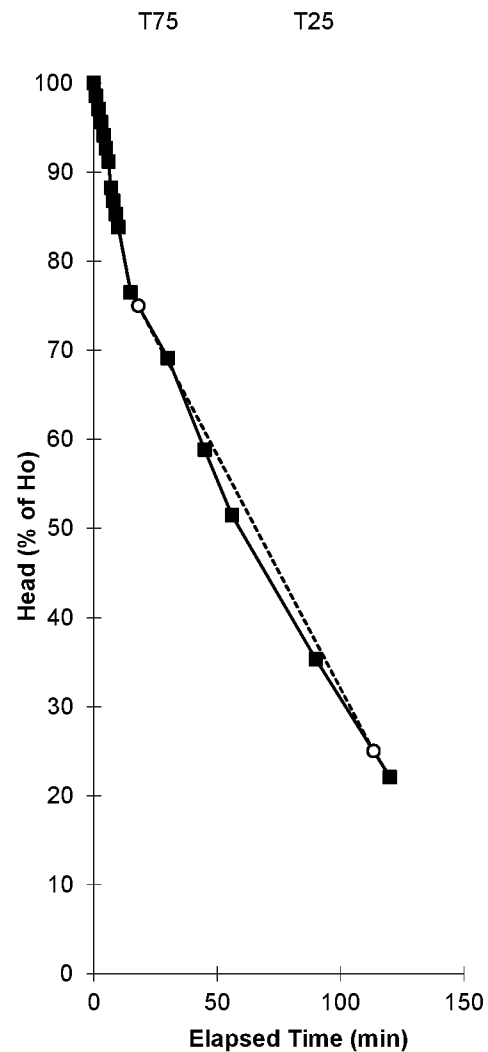
Field Test

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

Depth of Pit	1.00 m
Width of Pit	0.70 m
Length of Pit	2.10 m
Depth of Pit Soaked	0.68 m
ap50	3.374 m2
Vp75-25	0.4998 m3
t75-25	95.3 min
water used	0.9996 m3
f	2.590E-05 m/sec.

Field Data

Depth to	Elapsed	Head of	Head of
Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
0.32	0	100	0.68
0.33	1	99	0.67
0.34	2	97	0.66
0.35	3	96	0.65
0.36	4	94	0.64
0.37	5	93	0.63
0.38	6	91	0.62
0.4	7	88	0.60
0.41	8.00	87	0.59
0.42	9.00	85	0.58
0.43	10.00	84	0.57
0.48	15.00	76	0.52
0.53	30.00	69	0.47
0.6	45.00	59	0.40
0.65	55.00	51	0.35
0.76	90.00	35	0.24
0.85	120.00	22	0.15
T75	18.000	75	
T25	113.333	25	
T75-25	95.333	Derived from Best Fit	



Comments

Soakaway Calculations



Soakaway Test No.	SA12 test 2
Contract	Water Lane Angmering
Contract No.	305145

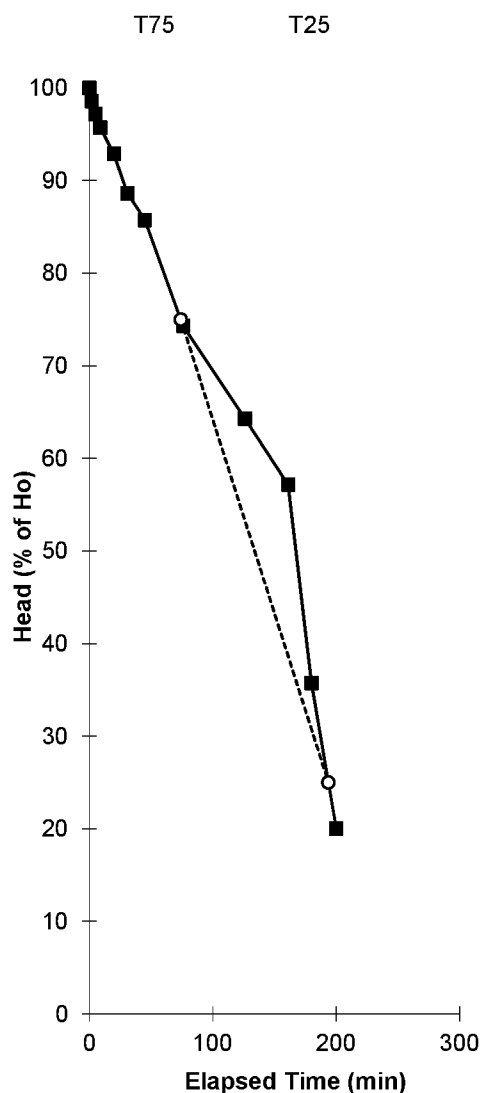
Field Test

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

Depth of Pit	1.00 m
Width of Pit	0.70 m
Length of Pit	2.10 m
Depth of Pit Soaked	0.70 m
$ap50$	3.43 m ²
$Vp75-25$	0.5145 m ³
$t75-25$	119.6 min
water used	1.0290 m ³
f	2.091E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.3	0	100	0.70
0.31	2	99	0.69
0.32	5	97	0.68
0.33	9	96	0.67
0.35	20	93	0.65
0.38	31	89	0.62
0.4	45	86	0.60
0.48	76	74	0.52
0.55	126.00	64	0.45
0.6	161.00	57	0.40
0.75	180.00	36	0.25
0.88	200.00	20	0.14



T75	74.063	75
T25	193.636	25
T75-25	119.574	Derived from Best Fit

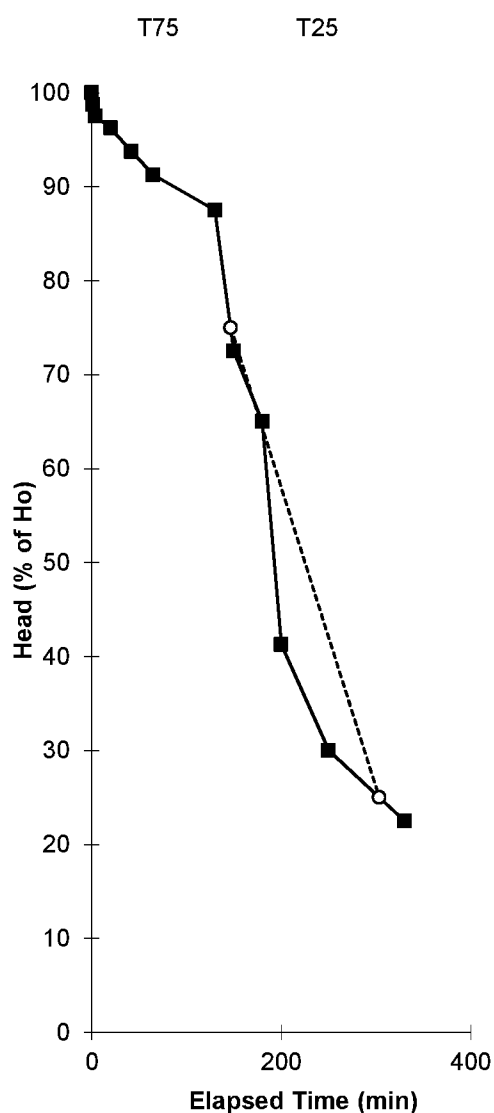
Comments

Field Test

See trial Pit record

Field Data

T75	146.667	75
T25	303.333	25
T75-25	156.667	Derived from Best Fit



Comments

ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations



Soakaway Test No.	SA13 test 2
Contract	Water Lane Angmering
Contract No.	305145

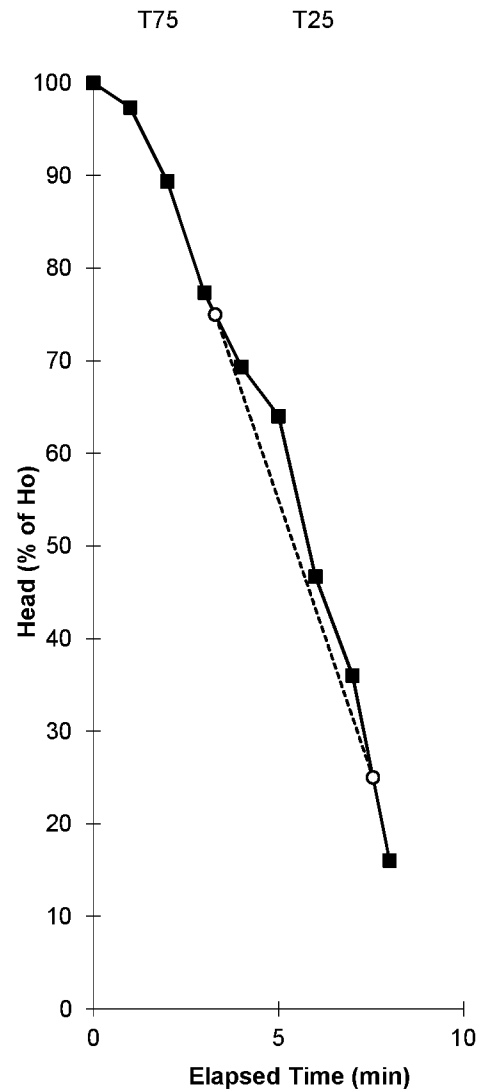
Field Test

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

Depth of Pit	1.00 m
Width of Pit	0.73 m
Length of Pit	2.30 m
Depth of Pit Soaked	0.75 m
$ap50$	3.9515 m ²
$Vp75-25$	0.629625 m ³
$t75-25$	4.3 min
water used	1.2593 m ³
f	6.236E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.25	0	100	0.75
0.27	1	97	0.73
0.33	2	89	0.67
0.42	3	77	0.58
0.48	4	69	0.52
0.52	5	64	0.48
0.65	6	47	0.35
0.73	7	36	0.27
0.88	8.00	16	0.12



T75	3.292	75
T25	7.550	25
T75-25	4.258	Derived from Best Fit

Comments

Soakaway Calculations



Soakaway Test No.	SA13 test 3
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

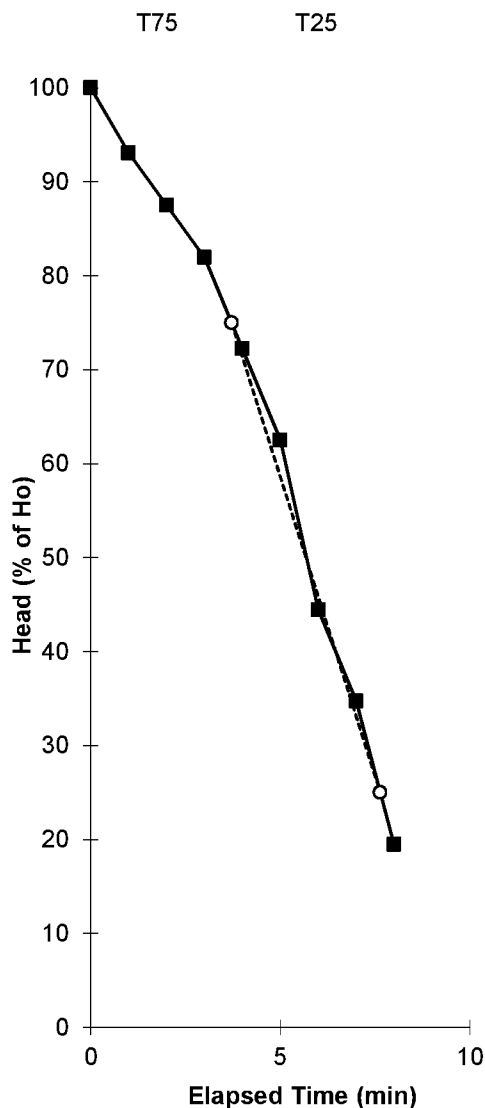
Trial Pit Log (include details of groundwater):

See trial Pit record

Depth of Pit	1.00 m
Width of Pit	0.73 m
Length of Pit	2.30 m
Depth of Pit Soaked	0.72 m
ap_{50}	3.8606 m ²
V_{p75-25}	0.60444 m ³
t_{75-25}	3.9 min
water used	1.2089 m ³
k	6.653E-04 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of H_0)	Head of Water (m)
0.28	0	100	0.72
0.33	1	93	0.67
0.37	2	88	0.63
0.41	3	82	0.59
0.48	4	72	0.52
0.55	5	63	0.45
0.68	6	44	0.32
0.75	7	35	0.25
0.86	8	19	0.14



T75	3.714	75
T25	7.636	25
T75-25	3.922	Derived from Best Fit

Comments

Partial pit collapse during test

ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations



Soakaway Test No.	SA14 test 2
Contract	Water Lane Angmering
Contract No.	305145

Field Test

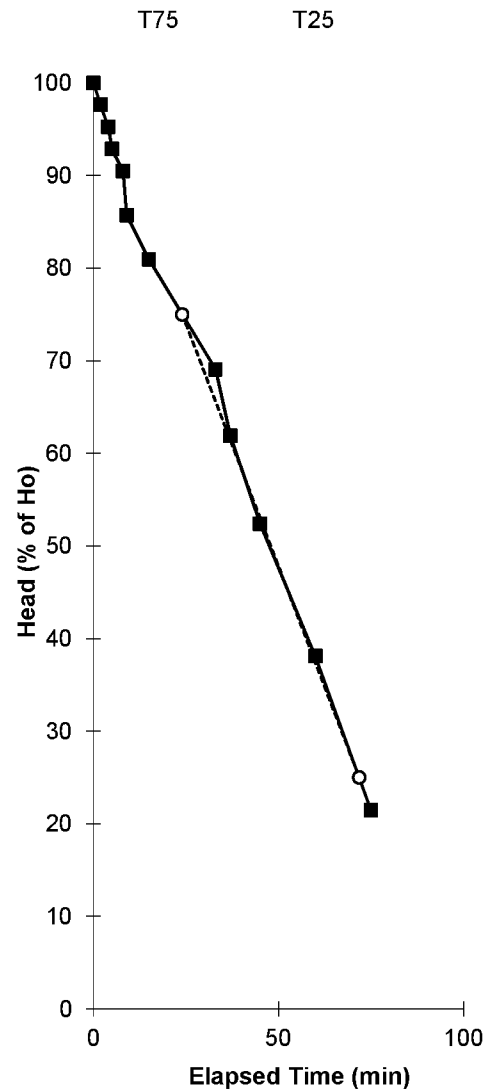
Trial Pit Log (include details of groundwater):
See trial Pit record.

Depth of Pit	0.50 m
Width of Pit	0.75 m
Length of Pit	2.30 m
Depth of Pit Soaked	0.42 m
$ap50$	3.006 m ²
$Vp75-25$	0.36225 m ³
$t75-25$	47.8 min
water used	0.7245 m ³
f	4.203E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.08	0	100	0.42
0.09	2	98	0.41
0.1	4	95	0.40
0.11	5	93	0.39
0.12	8	90	0.38
0.14	9	86	0.36
0.16	15	81	0.34
0.21	33	69	0.29
0.24	37.00	62	0.26
0.28	45.00	52	0.22
0.34	60.00	38	0.16
0.41	75.00	21	0.09

T75	24.000	75
T25	71.786	25
T75-25	47.786	Derived from Best Fit



Comments

Soakaway Test No.	SA14 test 3
Contract:	Water Lane Angmering
Contract No.	305145

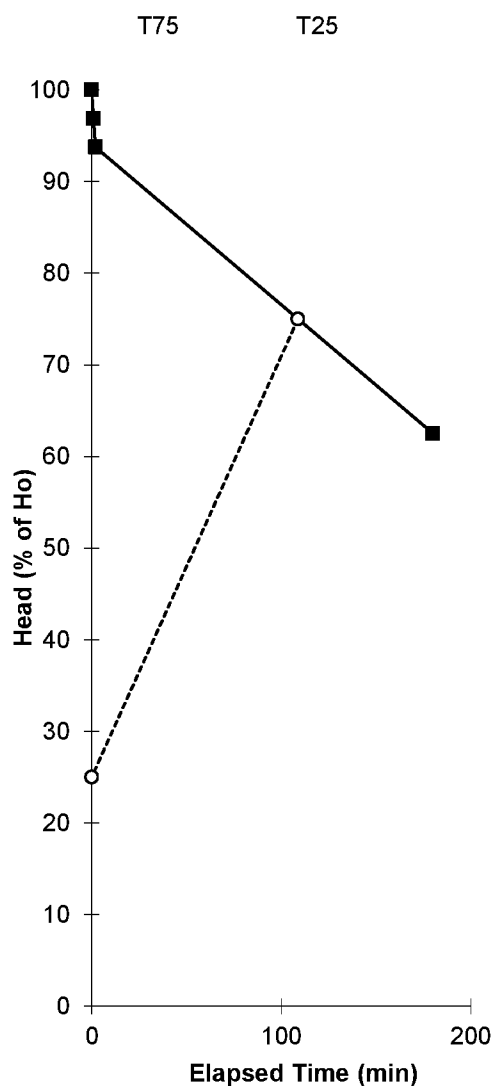
Field Test

Depth of Pit	0.60 m
Width of Pit	0.75 m
Length of Pit	2.30 m
Depth of Pit Soaked	0.32 m
ap50	2.701 m ²
Vp75-25	0.276 m ³
t75-25	-108.8 min
water used	0.5520 m ³
f	m/sec.

Trial Pit Log (include details of groundwater):

See trial Pit record

Field Data

[illegible]

Comments

test fail

Soakaway Calculations



Soakaway Test No.	SA17 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

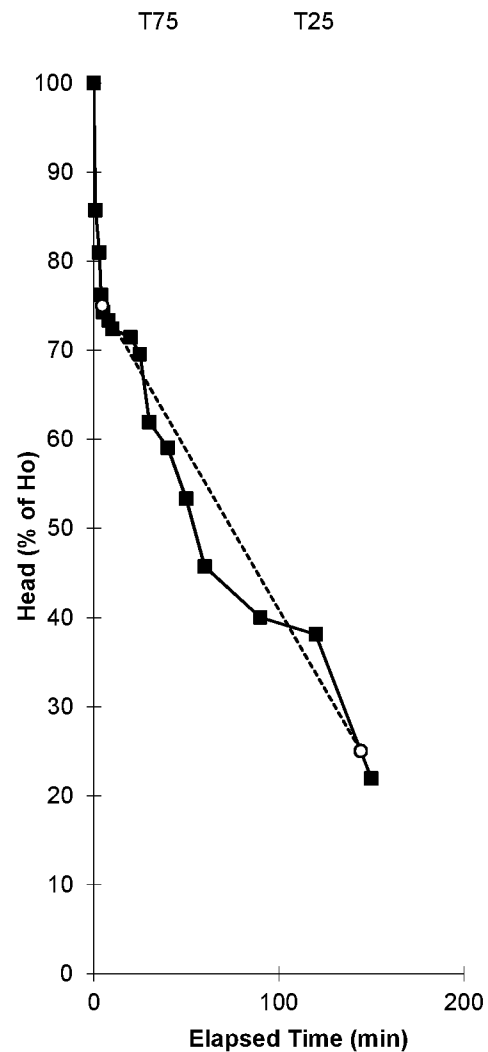
Depth of Pit	2.00 m
Width of Pit	0.73 m
Length of Pit	2.40 m
Depth of Pit Soaked	1.05 m
ap_{50}	5.0385 m ²
V_{p75-25}	0.9198 m ³
t_{75-25}	139.6 min
water used	1.8396 m ³
f	2.179E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.95	0	100	1.05
1.1	1	86	0.90
1.15	3	81	0.85
1.2	4	76	0.80
1.22	5	74	0.78
1.23	8	73	0.77
1.24	10	72	0.76
1.25	20	71	0.75
1.27	25.00	70	0.73
1.35	30.00	62	0.65
1.38	40.00	59	0.62
1.44	50.00	53	0.56
1.52	60.00	46	0.48
1.58	90.00	40	0.42
1.6	120.00	38	0.40
1.77	150.00	22	0.23

T75	4.625	75
T25	144.265	25
T75-25	139.640	Derived from Best Fit

Comments



Soakaway Calculations



Soakaway Test No.	SA17 test 2
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

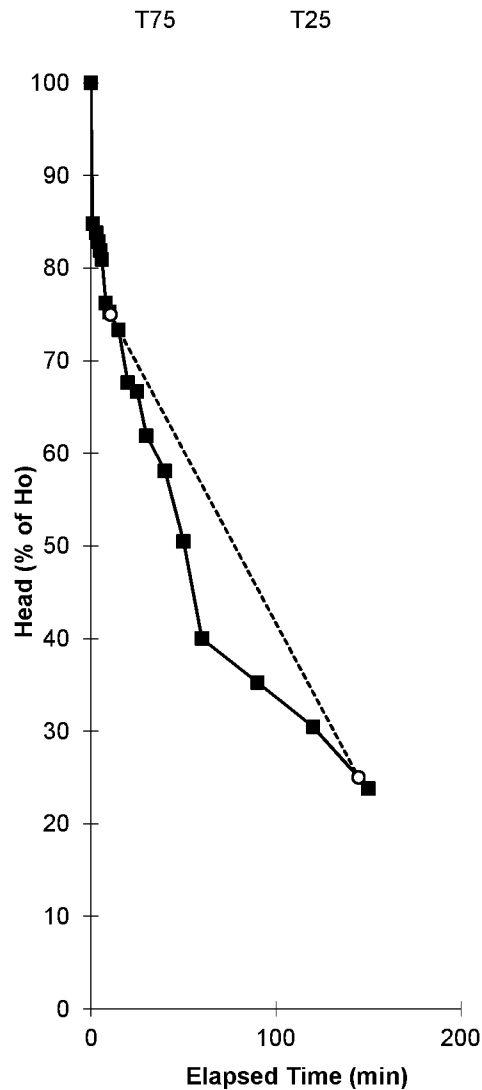
Depth of Pit	2.00 m
Width of Pit	0.73 m
Length of Pit	2.40 m
Depth of Pit Soaked	1.05 m
a_p50	5.0385 m ²
V_{p75-25}	0.9198 m ³
t_{75-25}	134.0 min
water used	1.8396 m ³
f	2.270E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.95	0	100	1.05
1.11	1	85	0.89
1.12	3	84	0.88
1.13	4	83	0.87
1.14	5	82	0.86
1.15	6	81	0.85
1.2	8	76	0.80
1.21	10	75	0.79
1.23	15.00	73	0.77
1.29	20.00	68	0.71
1.3	25.00	67	0.70
1.35	30.00	62	0.65
1.39	40.00	58	0.61
1.47	50.00	50	0.53
1.58	60.00	40	0.42
1.63	90.00	35	0.37
1.68	120.00	30	0.32
1.75	150.00	24	0.25

T75	10.625	75
T25	144.643	25
T75-25	134.018	Derived from Best Fit

Comments



Soakaway Calculations



Soakaway Test No.	SA17 test 3
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

Trial Pit Log (include details of groundwater):

See trial Pit record

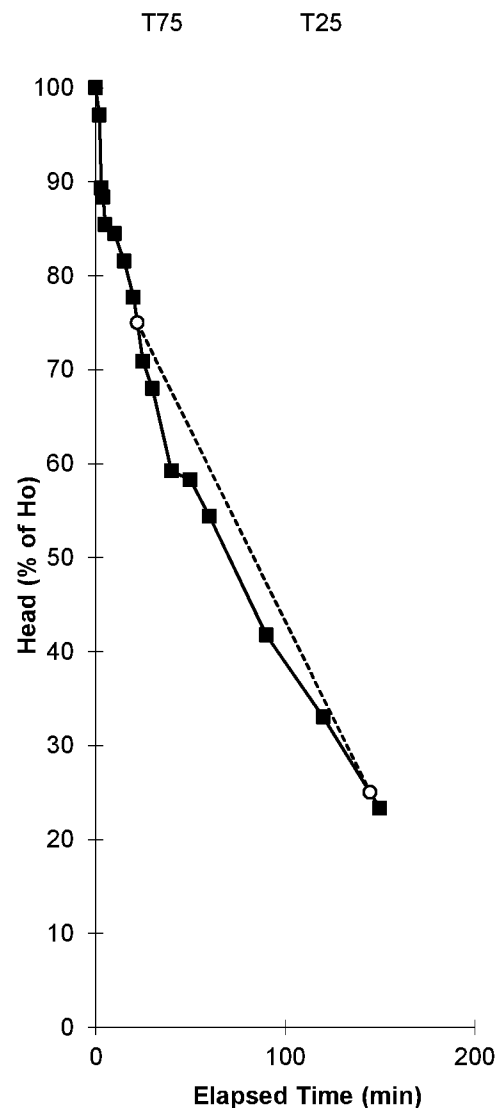
Depth of Pit	2.00 m
Width of Pit	0.73 m
Length of Pit	2.40 m
Depth of Pit Soaked	1.03 m
ap_{50}	4.9759 m ²
V_{p75-25}	0.90228 m ³
t_{75-25}	122.8 min
water used	1.8046 m ³
k	2.461E-05 m/sec.

Field Data

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
0.97	0	100	1.03
1	2	97	1.00
1.08	3	89	0.92
1.09	4	88	0.91
1.12	5	85	0.88
1.13	10	84	0.87
1.16	15	82	0.84
1.2	20	78	0.80
1.27	25	71	0.73
1.3	30.00	68	0.70
1.39	40.00	59	0.61
1.4	50.00	58	0.60
1.44	60.00	54	0.56
1.57	90.00	42	0.43
1.66	120.00	33	0.34
1.76	150.00	23	0.24

T75	21.964	75
T25	144.750	25
T75-25	122.786	Derived from Best Fit

Comments



ARUN DISTRICT COUNCIL A/201/20/DOC

Soakaway Calculations



Soakaway Test No.	SA19 test 1
Contract:	Water Lane Angmering
Contract No.	305145

Field Test

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

Depth of Pit	0.50 m
Width of Pit	0.75 m
Length of Pit	2.30 m
Depth of Pit Soaked	0.49 m
ap50	3.2195 m2
Yp75-25	0.422625 m3
t75-25	106.5 min
water used	0.8453 m3
f	2.054E-05 m/sec.

Field Data

Depth to Water	Elapsed Time	Head of Water	Head of Water
(m)	(min)	(% of Ho)	(m)
0.01	0	100	0.49
0.2	8	61	0.30
0.23	20	55	0.27
0.24	30	53	0.26
0.32	40	37	0.18
0.33	60	35	0.17
0.35	90	31	0.15
0.4	120	20	0.10
0.41	150.00	18	0.09

T75	0.000	75
T25	106.500	25
T75-25	106.500	Derived from Best Fit

Comments

