



**IAN FARMER
ASSOCIATES**

DALLAS BURSTON PROPERTY LIMITED

**BRIXWORTH PERCOLATION TESTING
NORTHAMPTON ROAD, BRIXWORTH**

FACTUAL GROUND INVESTIGATION REPORT

Contract: 2221120

Date: October 2023

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FACTUAL GROUND INVESTIGATION REPORT

Carried out at

**BRIXWORTH PERCOLATION TESTING
NORTHAMPTON ROAD, BRIXWORTH**

Prepared for

**DALLAS BURSTON PROPERTY LIMITED
c/o Dallas Burston Polo Club
Stoneythorpe Estate
Southam
CV47 2DL**

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EXECUTIVE SUMMARY

On the instructions of Dallas Burston Property Limited (DBP), an investigation was undertaken to determine ground and groundwater conditions to enable a drainage assessment. It is understood that a mixed development is proposed at the site, with associated infrastructure, roadways and parking.

The site is situated within three parcels of land within Hill Farm, off the Northampton Road on the south-eastern outskirts of the village of Brixworth, and may be located by Landranger Grid Reference SP747693. Published geology indicates the site to be underlain by the Northampton Sand Formation.

Site work comprised the machine excavation of fifteen trial pits, with percolation testing carried out in a hand-dug extension to each pit.

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1.0 INTRODUCTION

- 1.1 On the instructions of Dallas Burston Property Limited (DBP), an investigation was undertaken to determine ground and groundwater conditions to enable a drainage assessment.
- 1.2 It is understood that a mixed development is proposed at the site, with associated infrastructure, roadways and parking.
- 1.3 It is recommended that a copy of this report be submitted to the relevant authorities to enable them to carry out their own site assessments and provide any comments.
- 1.4 This report has been prepared for the sole use of the Client for the purpose described and no extended duty of care to any third party is implied or offered. Third parties using any information contained within this report do so at their own risk.
- 1.5 The comments given in this report and the opinions expressed herein are based on the information received, the conditions encountered during site works, and on the results of tests made in the field and laboratory. However, there may be conditions prevailing at the site which have not been disclosed by the investigation and which have not been taken into account in the report.
- 1.6 The comments on groundwater conditions are based on observations made at the time the site work was carried out. It should be noted that groundwater levels vary owing to seasonal or other effects.

2.0 SITE SETTING

2.1 Site Location

- 2.1.1 The site is situated within three parcels of land within Hill Farm, off the Northampton Road on the south-eastern outskirts of the village of Brixworth, and may be located by Landranger Grid Reference SP747693.
- 2.1.2 A site location plan is included in Appendix 1, Figure A1.1.

2.2 Site Description

- 2.2.1 The area investigated was irregular in shape covering an area of approximately 3.5 hectares to the north and west of Brixworth cricket and tennis club and comprised three separate grassed fields with surrounding hedges and trees in part.
- 2.2.2 The existing Brixworth Cricket and Tennis club to the east which is located to the west of the intersection of Harborough Road (A508) and Northampton Road. The land to the north and west was generally agricultural land.
- 2.2.3 The site was a relatively flat grassed field at the time of the investigation.
- 2.2.4 An exploratory hole location plan is given in Appendix 1, Figure A1.2.

2.3 Geological Setting

- 2.3.1 Details of the geology underlying the site have been obtained from BGS Sheet 185, ref. 4.1.
- 2.3.2 The geological map indicates superficial deposits to be absent, with the site directly underlain by the Northampton Sand Formation, described as “ferruginous ironstones and sandy limestones”.
- 2.3.3 Made Ground was not anticipated to be present, but there is always the potential that localised areas may exist on the site.

3.0 SITE WORK

- 3.1 The site work was carried out between the 24th and 26th October 2023. The locations of the exploratory holes have been stipulated by DBP.
- 3.2 The site work has been carried out on the basis of the practices set out in BS 5930:2015 ref. 4.3 and BS EN 1997-2:2007, ref 4.4. Additional references are noted within the table.

Exploratory Hole Type	Quantity	Hole Reference	Depths	Notes
Trial pits – machine excavated	15	TP01 to TP15	1.0m	
Percolation test pits – hand excavated	15	TP01 to TP15	1.3m	0.3m deep extension at base of each machine-excavated pit
Percolation tests, ref.4.8 / 4.9	15	TP01 to TP15	1.3m	Each test repeated up to 3 times

- 3.3 The positions of the above are shown on the exploratory hole location plan, Appendix 1, Figure A1.2.
- 3.4 The depths of the exploratory holes, descriptions of strata encountered and comments on groundwater conditions are given in the site work records in Appendix 2.
- 3.5 Photographic records of the trial pits are also given in Appendix 2.
- 3.6 Calculated percolation test records are also given in Appendix 2.
- 3.7 The ground levels at the exploratory hole locations were not determined. Approximate coordinates were determined by the use of the 'What Three Words' system and are presented on the logs.

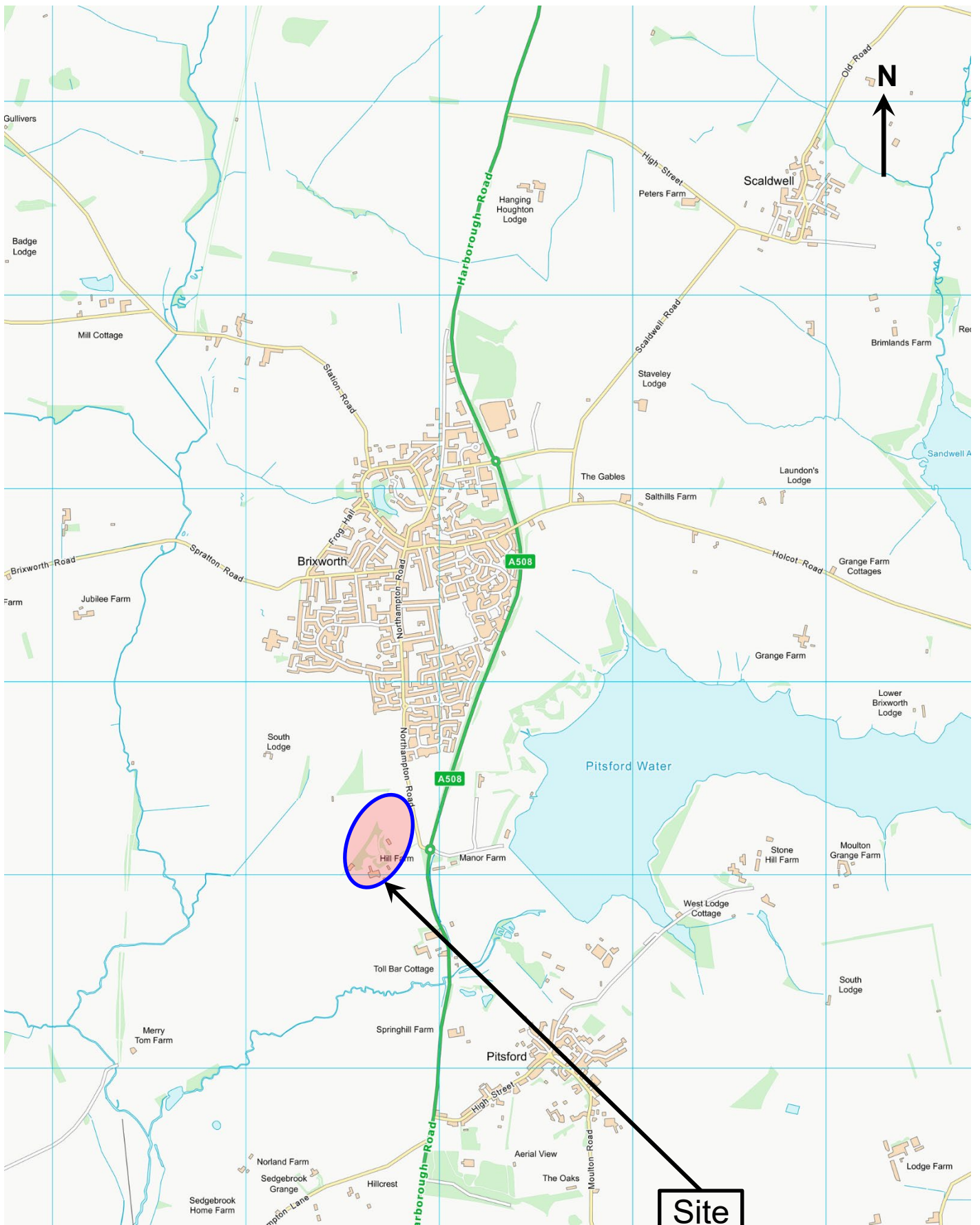
4.0 REFERENCES

- 4.1 BGS Sheet No.185, 'Northampton', solid and drift edition, 1:50000 scale. British Geological Survey, 1990.
- 4.2 BS 10175: 2011 '*Investigation of potentially contaminated sites. Code of practice*', British Standards Institute, 2011
- 4.3 BS 5930: 2015+A1: 2020 '*Code of practice for ground investigations*', British Standards Institute, 2015
- 4.4 BS EN 1997, Part 2:2007, '*Eurocode 7 – Geotechnical Design – Part 2, Ground Investigation and Design*' British Standards Institute, 2007
- 4.5 BS EN ISO 22475-1:2006, '*Geotechnical Investigation and Testing – Sampling Methods and Groundwater Measurements*' Part 1: *Technical Principles for Execution*', British Standards Institute, 2006
- 4.6 BS EN ISO 14688 Part 1:2018 and Part 2:2018, '*Geotechnical Investigation and Testing – Identification and Classification of Soil*', British Standards Institute, 2018
- 4.7 BS EN ISO 14689-1:2018, '*Geotechnical investigation and testing – Identification and classification of rock. Part 1: Identification and description*' British Standards Institute, 2018
- 4.8 BS6297:2007. '*Code of practice for the design and installation of drainage fields for use in wastewater treatment*'. British Standard Institute, 2007
- 4.9 Building Regulations 2000: Approved Document H, '*Drainage and Waste Disposal*'.
- 4.10 BRE Digest 365, '*Soakaway Design*', Building Research Establishment, 2016
- 4.11 HSG 185, '*Health and Safety in Excavations*', Health and Safety Executive, 1999

APPENDIX 1

DRAWINGS

2221120: Brixworth Percolation Testing



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Site Location Plan

Scale: NTS

Figure A1.1





Legend Key

■ Locations By Type - TP

Project:
Brixworth Percolation Testing

Client:
Dallas Burston Property Limited

Title:
Exploratory Hole Location Plan

Project ID: 2221120	Scale (at A3): 1:1500
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Figure Number: Fig. A1.2	Revision: (00)
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APPENDIX 2

SITE WORK

APPENDIX 2

GENERAL NOTES ON SITE WORKS

A2.1 SITE WORK

A2.1.1 General

Site work is carried out in general accordance with the guidelines given in BS EN 1997, 4.4 and BS 5930, ref 4.3, and BS 10175, ref.4.2.

A2.1.2 Trial Pits

Shallow trial pits are generally dug by mechanical excavator, however, in difficult access locations or adjacent to structures, such pits may be hand dug. Pits are best used where the ground will stand unsupported and generally, the maximum depth of machine dug pits is 4m to 5m. Where personnel are required to enter pits, it is essential that side support is provided. Entry by personnel into unsupported pits deeper than 1.2m is not allowed for health and safety reasons.

Trial pits allow the in-situ condition of the ground to be examined both laterally and vertically and also allow discontinuities to be recorded. The field record should give the orientation of the pit with details of which face was logged, assessment of stability of sides of pit and groundwater as well as the strata encountered. Photographs of the pit may also be taken.

In-situ testing, such as hand penetrometer, hand vane, or similar, can be undertaken in the sides or base of pits while both disturbed and undisturbed samples may be recovered.

It is generally advisable to backfill the pits as soon as possible, open pits should not be left unattended.

A2.2 DESCRIPTION OF SOILS

A2.2.1 General

The procedures and principles given in BS EN ISO 14688 Parts 1 and 2, ref 4.6, supplemented by section 6 of BS 5930, ref. 4.3 have been used in the soil descriptions contained within this report.

A2.3 DESCRIPTION OF ROCK

A2.3.1 General

The procedures and principles given in BS EN ISO 14689, ref 4.7, supplemented by section 6 of BS 5930, ref. 4.3 have been used in the rock descriptions contained within this report.



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP01			
	Dates: 24/10/2023	Client: Dallas Burston Property Limited				
Trial Pit Log	Location: 474694.00E 269253.00N	Ground level:	Logged by: RC	Vertical scale: 1:25	Sheet 1 of 1	Contract ID: 2221120

Samples & In Situ Testing			Strata Details					Scale	Water Strike	Backfill/ Installation
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend				
				(0.40)	Brown gravelly, silty fine to medium SAND with occasional rootlets. Gravel is angular to subrounded, fine to coarse of weathered ironstone and quartz. (Topsoil) <i>Below 0.20m: Low cobble content of angular to subrounded ironstone.</i>		1			
				0.40	Light yellowish brown, occasionally brown, sandy, very gravelly COBBLES. Cobbles are angular to subangular, weathered very weak to weak ironstone. Sand is fine to medium. Gravel is angular to sub-rounded, fine to coarse extremely weak to weak ironstone. (Northampton Sand Formation) <i>Below 0.70m: Medium boulder content of angular to subangular ironstone.</i>					
				(0.90)						
				1.30	End of Trial Pit at 1.30m					
							2			
							3			
							4			
							5			

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.20 x 1.90								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 355° from north		
			Checked by:		DWB		IFA TP v01.01	
			Status:		FINAL			



Plant used: JCB 3XC	Project: Brixworth Percolation Testing		Location ID: TP02
	Client: Dallas Burston Property Limited		
Dates: 24/10/2023		Ground level:	Logged by: RC
Location: 474723.00E 269323.00N		Vertical scale: 1:25	
Trial Pit Log		Contract ID: 2221120	

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/Installation
				0.40	Brown, slightly gravelly, fine to medium SAND, with occasional rootlets. Gravel is angular to rounded, fine to coarse, ironstone and quartz. (Topsoil)				
				0.40	Light brown and brown, very sandy, silty, angular to sub-rounded, fine to coarse GRAVEL of ironstone. Medium cobble content of angular to subrounded, very weak to weak ironstone. (Northampton Sand Formation) <i>From 0.70: Medium boulder content of angular to subangular very weak to weak ironstone. Occasional boulder sized pockets of ironstone cobbles and boulders.</i>		1		
				0.90					
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.60 x 1.80								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 310° from north		
			Checked by:		DWB		IFA TP v01.01	
			Status:		FINAL			



Plant used: JCB 3XC	Project: Brixworth Percolation Testing		Location ID: TP03
	Client: Dallas Burston Property Limited		
Dates: 24/10/2023		Ground level:	Logged by: RC
Location: 474746.00E 269380.00N		Vertical scale: 1:25	
Trial Pit Log		Contract ID: 2221120	

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.20	Brown slightly gravelly, silty, fine to medium SAND with occasional rootlets. Gravel is angular to rounded, fine to coarse of ironstone, quartz and flint. (Topsoil)				
				(1.10)	Light pinkish brown, occasionally light brown, slightly sandy, slightly gravelly SILT. Gravel is angular to subangular fine to coarse of extremely weak to very weak ironstone. Sand is fine to medium. (Northampton Sand Formation)		1		
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.70 x 1.60								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 130° from north		
			Checked by: DWB		IFA TP v01.01			
			Status: FINAL					



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP04
Dates: 24/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Trial Pit Log	Location: 474775.00E 269446.00N	Ground level: Logged by: Vertical scale: RC 1:25
		Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.25	Brown, slightly gravelly, silty fine to medium SAND with occasional rootlets. Gravel is angular to rounded, fine of quartz, flint and ironstone. (Topsoil)				
				(0.55)	Light brown and brown, very sandy, silty GRAVEL, with high cobble content and medium boulder content. Sand is fine to medium. Gravel is angular to sub-rounded, fine to coarse (mostly medium to coarse) extremely to very weak of ironstone. Cobbles are angular to sub-angular very weak to weak ironstone. Boulders are angular to sub-angular, very weak to weak ironstone. (Northampton Sand Formation)				
				0.80	Light brown sandy gravelly angular to subangular COBBLES with medium boulder content. Cobbles are very weak to weak ironstone. Boulders are very weak ironstone. Gravel is angular to sub-rounded (mostly coarse) extremely to very weak ironstone. Sand is fine to medium (Northampton Sand Formation)		1		
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.70 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 120° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP05
Dates: 24/10/2023	Client: Dallas Burston Property Limited		Sheet 1 of 1
Trial Pit Log	Location: 474805.00E 269501.00N	Ground level:	Logged by: RC
			Vertical scale: 1:25
			Contract ID: 2221120

Samples & In Situ Testing			Strata Details					Scale	Water Strike	Backfill/ Installation
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend				
				0.20	Brown gravelly silty fine to medium SAND with frequent rootlets. Gravel is angular to rounded, fine to coarse, ironstone, flint and quartz. (Topsoil)					
				(1.10)	Light brown and brown gravelly silty fine to medium SAND. Gravel is angular to subrounded fine to coarse (mostly coarse) extremely weak to very weak of ironstone. (Northampton Sand Formation)		1			
				1.30	End of Trial Pit at 1.30m					
							2			
							3			
							4			
							5			

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.40 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 190° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP06
Dates: 25/10/2023	Client: Dallas Burston Property Limited		Sheet 1 of 1
Trial Pit Log	Location: 474791.00E 269399.00N	Ground level:	Logged by: RC Vertical scale: 1:25 Contract ID: 2221120

Samples & In Situ Testing			Strata Details					Scale	Water Strike	Backfill/ Installation
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend				
				0.20	Brown gravelly, silty fine to medium SAND with occasional rootlets. Gravel is angular to rounded, fine to coarse of limestone and quartz. Low cobble content of angular to sub-angular ironstone. (Topsoil)		1			
				(1.10)	Light brown to occasionally brown sandy, very gravelly. COBBLES. Cobbles are angular to sub-angular, very weak to weak ironstone. Gravel is angular to sub-angular very weak to weak ironstone. Sand is fine to medium. (Northampton Sand Formation) 0.40-0.60m: Subangular boulder of limestone. Below 0.90m: Light brown to yellowish brown.					
				1.30	End of Trial Pit at 1.30m					
							2			
							3			
							4			
							5			

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.	
Dimensions (Length m x Width m): 2.90 x 1.60			
Water Strikes			
Strike (m)	Time (mins)		Rose to (m)
		Orientation: 355° from north	
		Checked by: DWB	
		Status: FINAL	
IFA TP v01.01			



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP07
Dates: 25/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Location: 474817.00E 269438.00N	Ground level:	Logged by: RC
		Vertical scale: 1:25
Trial Pit Log		Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.25	Brown, slightly gravelly, silty fine to medium, SAND with occasional rootlets. Gravel is angular to rounded, fine to coarse of quartz and ironstone. (Topsoil)				
				0.40	Brown and light brown gravelly, silty fine to medium SAND. Gravel is angular to rounded, fine to coarse of ironstone. (Northampton Sand Formation)				
				(0.30)	Brown and light brown, with occasional light yellowish brown SAND and GRAVEL with medium cobble content of angular to sub-angular, very weak to weak ironstone. Sand is fine to medium. Gravel is angular to sub-rounded, fine to coarse of very weak ironstone. (Northampton Sand Formation)				
				0.70					
				(0.60)	Light brown to yellowish brown, occasionally brown sandy GRAVEL with high cobble content and low boulder content. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of very weak ironstone. Cobbles are angular to subangular of very weak to weak ironstone. Cobbles are angular to subangular of very weak to weak ironstone. Boulders are angular to subangular weak ironstone. (Northampton Sand Formation)		1		
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.90 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 255° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX Dates: 25/10/2023	Project: Brixworth Percolation Testing		Location ID: TP08 Sheet 1 of 1		
	Client: Dallas Burston Property Limited				
Trial Pit Log	Location: 474824.00E 269375.00N	Ground level:	Logged by: RC	Vertical scale: 1:25	Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.30	Brown, gravelly silty fine to medium SAND with occasional rootlets. Gravel is angular to rounded fine to coarse of ironstone and quartz. Occasional gravel to boulder sized pockets of soft to firm sandy silt. (Topsoil)		1		
				0.30					
				(1.00)	Light yellowish brown to light brown slightly sandy, slight gravelly SILT with low cobble content of angular to subangular very weak to weak ironstone. Gravel is angular to subangular fine to coarse very weak ironstone. (Northampton Sand Formation)		1		
				1.30					
					End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.50 x 1.60								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 340° from north		
						Checked by: DWB	IFA TP v01.01	
						Status: FINAL		



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP09
	Client: Dallas Burston Property Limited		
Dates: 25/10/2023		Ground level:	Logged by: RC
Location: 474771.00E 269359.00N		Vertical scale: 1:25	
Trial Pit Log		Contract ID: 2221120	

Samples & In Situ Testing			Strata Details					Scale	Water Strike	Backfill/ Installation
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend				
				0.30	Firm brown, slightly gravelly sandy SILT with occasional rootlets and roots. Gravel is angular to rounded, fine to coarse quartz and ironstone. Low cobble content of angular to sub-angular of very weak to weak ironstone.		1			
				0.30 (Topsoil)	Soft to firm light brown, occasionally brown, slightly gravelly, sandy SILT with occasional roots and low cobble content. Sand is fine to medium. Gravel is angular to subrounded fine to coarse of very weak ironstone and rare siliceous gravel. Cobbles are angular to subangular very weak to weak ironstone. (Northampton Sand Formation)					
				1.00	<i>Below 0.90m: Low boulder content of angular to subangular weak ironstone.</i>					
				1.30	End of Trial Pit at 1.30m					
							2			
							3			
							4			
							5			

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.20 x 1.70								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 60° from north		
			Checked by:		DWB		IFA TP v01.01	
			Status:		FINAL			



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP10
	Client: Dallas Burston Property Limited		
Dates: 25/10/2023	Ground level:	Logged by: RC	Vertical scale: 1:25
Location: 474721.00E 269272.00N		Contract ID: 2221120	

Trial Pit Log

Sheet 1 of 1

Samples & In Situ Testing			Strata Details							
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation	
				0.30	Firm brown slightly gravelly sandy silt with occasional rootlets and roots. Gravel is angular to fine to coarse of quartz and ironstone. Low cobble content of angular to sub-angular very weak to weak ironstone.					
				0.30 (Topsoil)	Light brown and light yellowish brown, very gravelly silty fine to medium SAND with low cobble content and occasional roots.					
				0.50	Gravel is angular to subrounded, fine to coarse of very weak ironstone. Cobbles are angular to subangular of very weak to weak ironstone. (Northampton Sand Formation)					
				0.80	Light brown and light yellowish brown, very sandy, silty GRAVEL with medium cobble content. Sand is fine to medium. Gravel is angular to subrounded, very weak ironstone. Cobbles are angular to subangular very weak to weak ironstone. (Northampton Sand Formation)		1			
				1.30	End of Trial Pit at 1.30m					
							2			
							3			
							4			
							5			

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.60 x 1.60								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 200° from north		
						Checked by:	DWB	
						Status:	FINAL	
						IFA TP v01.01		



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP11
Dates: 26/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Location: 474633.00E 269111.00N	Ground level:	Logged by: RC
		Vertical scale: 1:25
Trial Pit Log		Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.35	Brown gravelly silty fine to medium SAND with occasional rootlets and roots. Gravel is angular to rounded, fine to coarse of quartz and ironstone. (Topsoil)				
				0.35	Light brown COBBLES with much sandy gravel. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of very weak ironstone. Cobbles are angular to subangular of very weak to weak ironstone. (Northampton Sand Formation)				
				0.95	0.35-1.30m: Eastern end of the pit is light brown gravelly silty sand with medium cobble content. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of very weak ironstone. Cobbles are angular to subangular of very weak to weak ironstone.		1		
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.40 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 65° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP12
Dates: 26/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Location: 474663.00E 269112.00N	Ground level:	Logged by: RC
		Vertical scale: 1:25
Trial Pit Log		Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.30	Brown gravelly silty, fine to medium SAND with occasional rootlets and roots. Gravel is angular to sub-rounded, fine to coarse of ironstone a quartz. (Topsoil)				
				0.30	Light brown very gravelly silty fine to medium SAND with high cobble content and occasional roots. Gravel is angular to subrounded, fine to coarse of very weak ironstone. Cobbles are angular to subangular very weak to weak ironstone. (Northampton Sand Formation)				
				1.00	0.30-1.30m: Significantly higher proportion of cobbles on western half. Relict bedding visible. Below 0.80m: Western end of pit medium boulder content of angular to subangular of very weak to weak ironstone.		1		
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.10 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 325° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP13
Dates: 26/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Location: 474762.00E 269299.00N	Ground level:	Logged by: RC
		Vertical scale: 1:25
Trial Pit Log		Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.10	MADE GROUND: Dark blueish, grey, gravelly fine to coarse sand with frequent rootlets. Gravel is angular to rounded, fine to medium of coal, clinker and ironstone. MADE GROUND: Light brown, occasionally grey, sandy silty angular to subrounded fine to coarse gravel. Sand is fine to medium. Gravel of ironstone, rare clinker and wood fragments. Light brown, slightly gravelly, silty fine to medium SAND with occasional roots and low cobble content. Gravel is angular to sub-rounded, fine to coarse of ironstone. Cobble content of angular to subangular very weak to weak ironstone. (Northampton Sand Formation) <i>Below 0.80m: Medium boulder content of angular to subangular, weak to medium ironstone.</i>		1		
			0.25						
			(1.05)						
				1.30	End of Trial Pit at 1.30m				
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.20 x 1.70		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 50° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing	Location ID: TP14
Dates: 26/10/2023	Client: Dallas Burston Property Limited	Sheet 1 of 1
Trial Pit Log	Location: 474792.00E 269306.00N	Ground level: Logged by: RC Vertical scale: 1:25 Contract ID: 2221120

Samples & In Situ Testing			Strata Details						
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend	Scale	Water Strike	Backfill/ Installation
				0.20	MADE GROUND: Greyish brown sandy silty angular to rounded, fine to coarse gravel of flint, quartz ironstone and rare asphalt and clinker. 80% gravel is subangular to rounded. Frequent rootlets and medium cobble content of angular to sub-angular ironstone. Light brown and occasionally light yellowish brown gravelly silty fine to medium SAND, with low cobble content of angular to subrounded very weak to weak ironstone and rare flint. (Northampton Sand Formation) <i>0.20-0.30m: Reworked in places with overlaying made ground. Below 0.50m: Slightly gravelly</i> <i>Below 0.80m: Light brown occasionally yellowish brown and brown.</i>		1		
			(1.10)						
			1.30	End of Trial Pit at 1.30m					
							2		
							3		
							4		
							5		

Termination: Scheduled depth	Stability: Stable during excavation.	Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.
Dimensions (Length m x Width m): 2.30 x 1.60		
Water Strikes		
Strike (m)	Time (mins)	Rose to (m)
Remarks		
Orientation: 255° from north		
Checked by:	DWB	IFA TP v01.01
Status:	FINAL	



Plant used: JCB 3CX	Project: Brixworth Percolation Testing		Location ID: TP15
	Client: Dallas Burston Property Limited		
Dates: 26/10/2023		Ground level:	Logged by: RC
Location: 474828.00E 269327.00N		Vertical scale: 1:25	
Trial Pit Log		Contract ID: 2221120	

Samples & In Situ Testing			Strata Details					Scale	Water Strike	Backfill/ Installation	
Depth	Sample ID	Test Result	Level (mOD)	Depth (m) (Thickness)	Strata Description	Legend					
				0.25	Brown gravelly silty, fine to medium sand with frequent rootlets. Gravel is angular to sub-rounded, fine to coarse ironstone and quartz. (Topsoil)						
				(0.45)	Brown to light brown, gravelly, silty fine to medium SAND with medium cobble content of angular to subangular very weak to weak ironstone. Gravel is angular to subrounded, fine to coarse of very weak ironstone. (Northampton Sand Formation)						
				0.70	Light brown and light yellowish brown, gravelly, silty, fine to medium SAND with medium cobble content and medium boulder content. Gravel is angular to sub-rounded, fine to coarse of very weak ironstone. Cobbles are angular to sub-angular of very weak to weak ironstone. Boulders are angular to sub-angular weak ironstone, typically 30mm to 50mm in thickness. (Northampton Sand Formation)		1				
				(0.60)							
				1.30	End of Trial Pit at 1.30m						
							2				
							3				
							4				
							5				

Termination: Scheduled depth			Stability: Stable during excavation.			Remarks: No groundwater ingress observed during excavation. Infiltration test undertaken 1.00 to 1.30m.		
Dimensions (Length m x Width m): 2.70 x 1.50								
Water Strikes								
Strike (m)	Time (mins)	Rose to (m)	Remarks					
						Orientation: 355° from north		
			Checked by:		DWB		IFA TP v01.01	
			Status:		FINAL			

2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP01



2221120: Brixworth Percolation Testing



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP03



2221120: Brixworth Percolation Testing



2221120: Brixworth Percolation Testing



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP06



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP07



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP08



2221120: Brixworth Percolation Testing



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP10



2221120: Brixworth Percolation Testing



Trial Pit Photographs

TP11



2221120: Brixworth Percolation Testing



2221120: Brixworth Percolation Testing



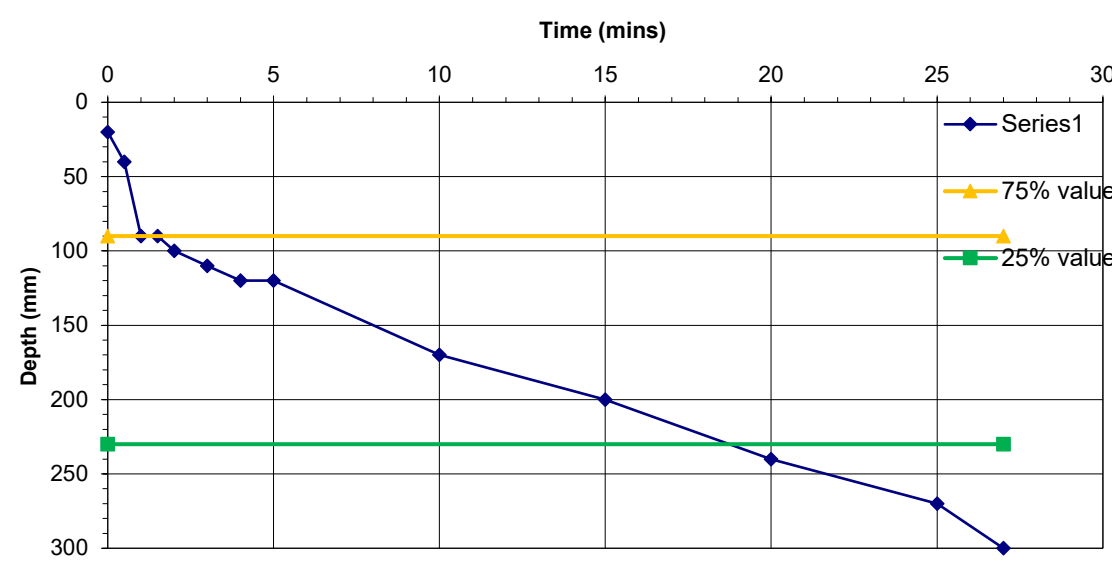
2221120: Brixworth Percolation Testing

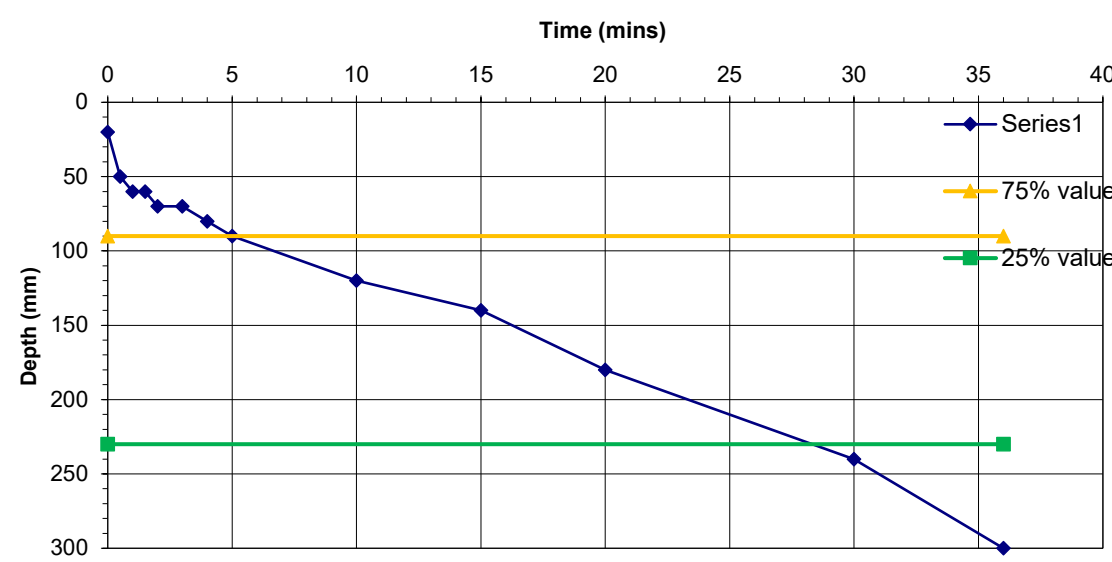


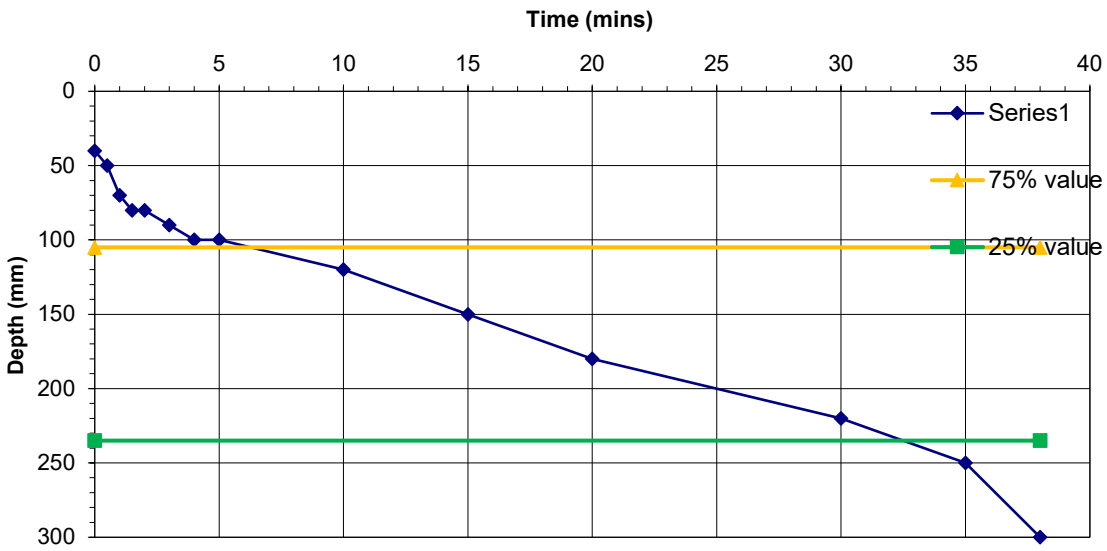
2221120: Brixworth Percolation Testing

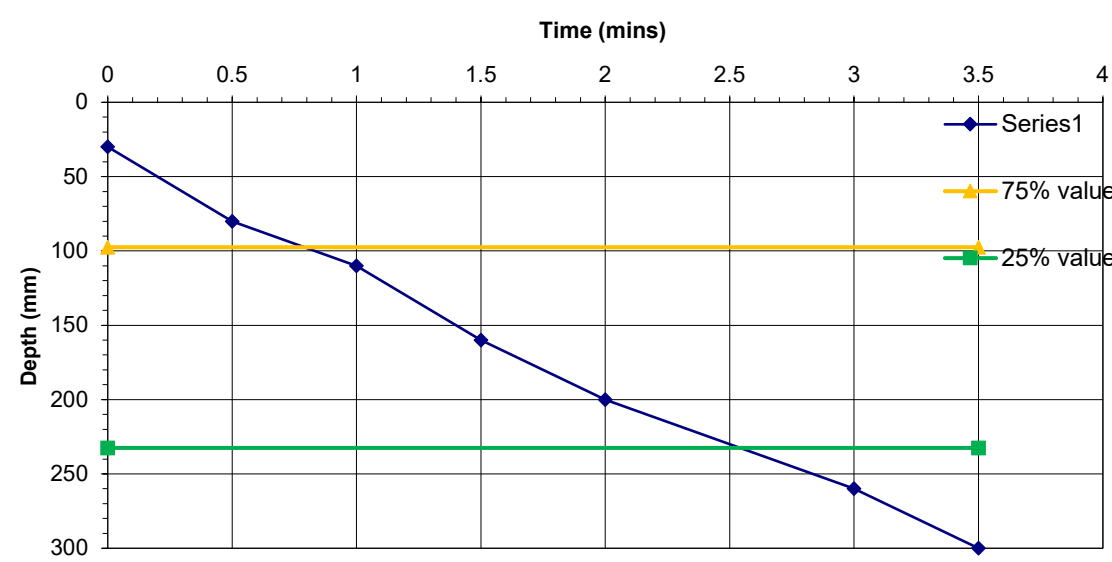


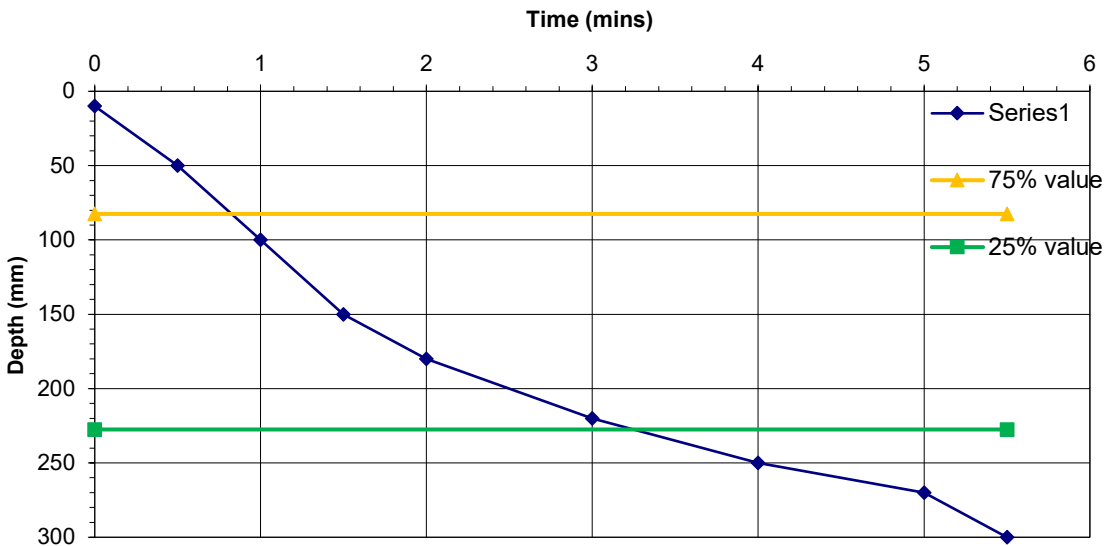
SOIL PERCOLATION TEST to BS6297+A1: 2008							
Client:	Dallas Burston Property Limited						
Site:	Brixworth Percolation Testing						
Job No:	2221120	Date	30/10/2023				
TP No	Test No	Time (sec.)		Fall from 75% to 25% (sec.)	75% Depth mm	25% Depth mm	Percolation Value Vp (sec/mm)
		75% Full	25% Full				
TP01	1	60.0	1110.0	1050.0	90	230	7.50
	2	300.0	1680.0	1380.0	90	230	9.86
	3	360.0	1950.0	1590.0	105	235	12.23
							Average
TP02	1	48.0	153.0	105.0	97.5	232.5	0.78
	2	48.0	198.0	150.0	82.5	227.5	1.03
	3	42.0	204.0	162.0	82.5	227.5	1.12
							Average
TP03	1	480.0	4320.0	3840.0	75	225	25.60
						Average	25.60
TP04	1	24.0	210.0	186.0	97.5	232.5	1.38
	2	24.0	330.0	306.0	90	230	2.19
	2	30.0	540.0	510.0	112.5	237.5	4.08
							Average
TP05	1	54.0	1140.0	1086.0	82.5	227.5	7.49
	2	66.0	1710.0	1644.0	97.5	232.5	12.18
	3	54.0	2220.0	2166.0	97.5	232.5	16.04
							Average
TP06	1	9.0	27.0	18.0	127.5	242.5	0.16
	2	12.0	30.0	18.0	150	250	0.18
	3	12.0	30.0	18.0	150	250	0.18
							Average
TP07	1	72.0	432.0	360.0	127.5	242.5	3.13
	2	48.0	336.0	288.0	75	225	1.92
	3	36.0	600.0	564.0	120	240	4.70
							Average
TP08	1	18.0	48.0	30.0	105	235	0.23
	2	24.0	132.0	108.0	187.5	262.5	1.44
	3	15.0	180.0	165.0	150	250	1.65
							Average
TP09	1	18.0	66.0	48.0	127.5	242.5	0.42
	2	24.0	120.0	96.0	112.5	237.5	0.77
	3	90.0	1320.0	1230.0	97.5	232.5	9.11
							Average
TP10	1	12.0	72.0	60.0	127.5	242.5	0.52
	2	12.0	90.0	78.0	150	250	0.78
	3	15.0	96.0	81.0	135	245	0.74
							Average
TP11	1	7.2	22.8	15.6	187.5	262.5	0.21
	2	10.8	33.6	22.8	225	275	0.46
	3	18.0	90.0	72.0	210	270	1.20
							Average
TP12	1	45.0	438.0	393.0	157.5	252.5	4.14
	2	120.0	1140.0	1020.0	142.5	247.5	9.71
	3	135.0	1620.0	1485.0	157.5	252.5	15.63
							Average
TP13	1	96.0	4620.0	4524.0	75	225	30.16
						Average	30.16
TP14	1	39.0	153.0	114.0	112.5	237.5	0.91
	2	66.0	1020.0	954.0	75	225	6.36
	3	186.0	1500.0	1314.0	75	225	8.76
							Average
TP15	1	60.0	768.0	708.0	135	245	6.44
	2	54.0	1140.0	1086.0	116.25	238.75	8.87
	3	66.0	1080.0	1014.0	112.5	237.5	8.11
							Average

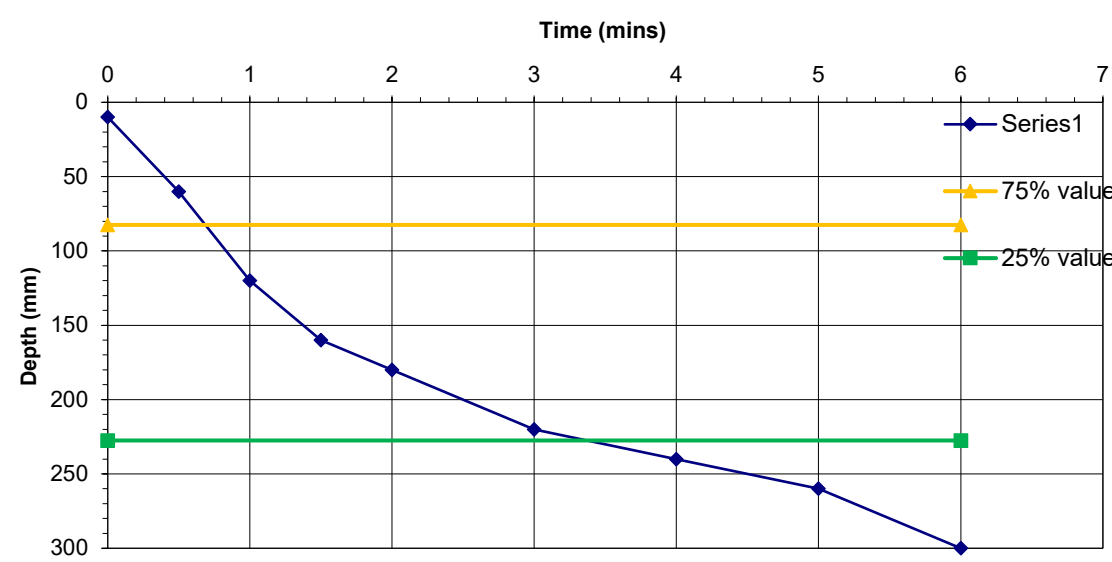
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP01: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	20		Width (m) = 0.30
0.5	40		Depth (m) = 0.30
1	90		
1.5	90	Depth to water at start of test =	20.0
2	100	Depth to base of pit =	300.0
3	110	Depth to water at 75% level =	90.0
4	120	Depth to water at 50% level =	160.0
5	120	Depth to water at 25% level =	230.0
10	170		
15	200	Base area of pit (m ²) =	0.090
20	240	Eff area of loss 75 - 25% (m ²) =	0.258
25	270	Volume outflow 75 - 25% (m ³) =	0.013
27	300		
		From the graph:	
		tp 75 (min) =	1
		tp 25 (min) =	18.5
		Soil infiltration rate, f, (m/s) =	4.65E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: GK	Date: 25/10/2023
		Checked by: PB	Date: 25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 30). Series1 (blue diamonds) shows the water level depth over time. Horizontal lines indicate the 75% value (yellow triangles) at 90 mm depth and the 25% value (green squares) at 230 mm depth. The 75% value is reached at 1 minute, and the 25% value is reached at 18.5 minutes.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

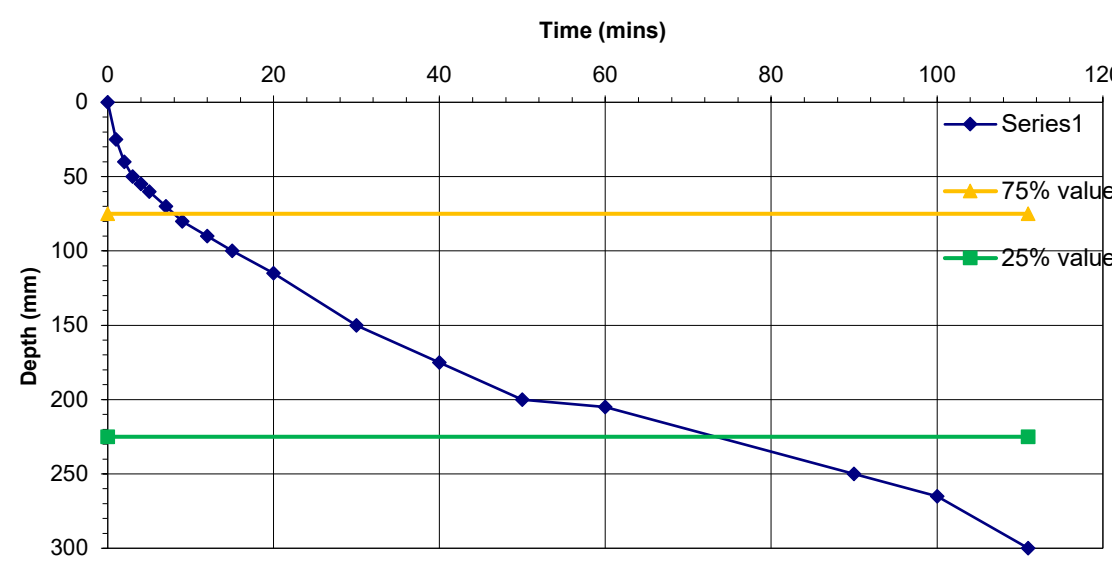
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP01: Test 2
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	20		Width (m) = 0.30
0.5	50		Depth (m) = 0.30
1	60		
1.5	60	Depth to water at start of test =	20.0
2	70	Depth to base of pit =	300.0
3	70	Depth to water at 75% level =	90.0
4	80	Depth to water at 50% level =	160.0
5	90	Depth to water at 25% level =	230.0
10	120		
15	140	Base area of pit (m ²) =	0.090
20	180	Eff area of loss 75 - 25% (m ²) =	0.258
30	240	Volume outflow 75 - 25% (m ³) =	0.013
36	300		
		From the graph:	
		tp 75 (min) =	5
		tp 25 (min) =	28
		Soil infiltration rate, f, (m/s) =	3.54E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by:	GK Date: 25/10/2023
		Checked by:	PB Date: 25/10/2023
			
Notes			
Test pit from 1.00m to 1.30mbgl.			

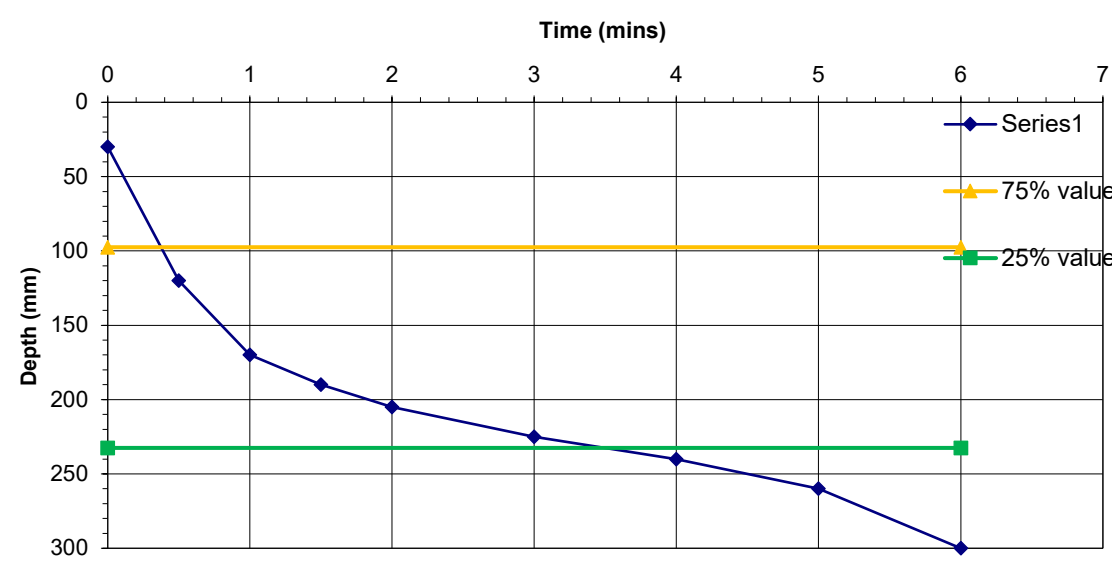
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP01: Test 3
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	40		Width (m) = 0.30
0.5	50		Depth (m) = 0.30
1	70		
1.5	80	Depth to water at start of test =	40.0
2	80	Depth to base of pit =	300.0
3	90	Depth to water at 75% level =	105.0
4	100	Depth to water at 50% level =	170.0
5	100	Depth to water at 25% level =	235.0
10	120		
15	150	Base area of pit (m ²) =	0.090
20	180	Eff area of loss 75 - 25% (m ²) =	0.246
30	220	Volume outflow 75 - 25% (m ³) =	0.012
35	250		
38	300		
		From the graph:	
		tp 75 (min) =	6
		tp 25 (min) =	32.5
		Soil infiltration rate, f, (m/s) =	2.99E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by:	GK Date: 25/10/2023
		Checked by:	PB Date: 25/10/2023
			
Notes			
Test pit from 1.00m to 1.30mbgl.			

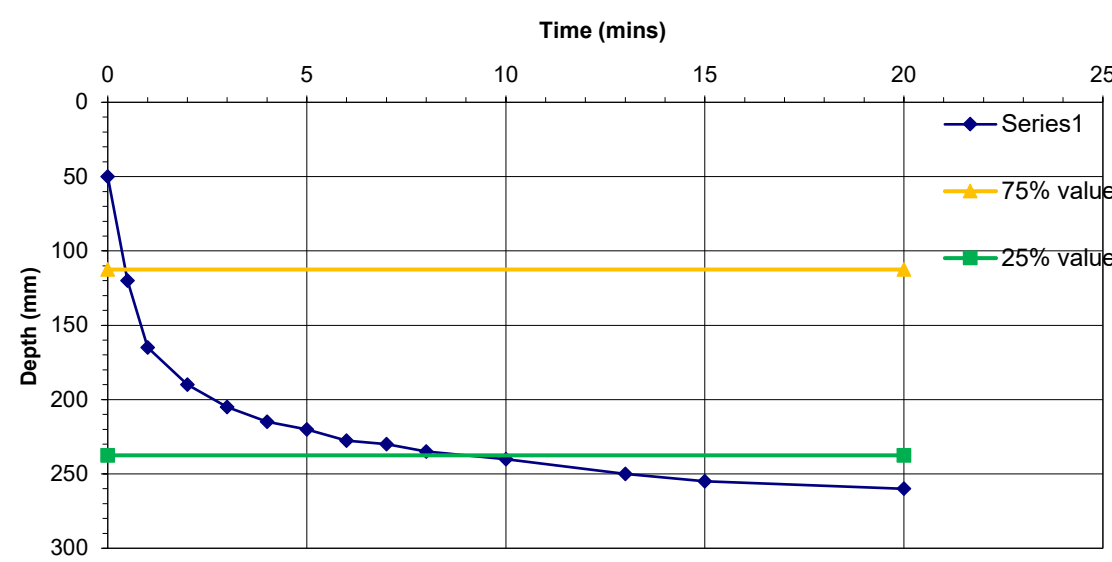
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP02: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	30		Width (m) = 0.30
0.50	80		Depth (m) = 0.30
1	110		
1.5	160	Depth to water at start of test =	30.0
2	200	Depth to base of pit =	300.0
3	260	Depth to water at 75% level =	97.5
3.5	300	Depth to water at 50% level =	165.0
		Depth to water at 25% level =	232.5
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.252
		Volume outflow 75 - 25% (m ³) =	0.012
		From the graph:	
		tp 75 (min) =	0.8
		tp 25 (min) =	2.55
		Soil infiltration rate, f, (m/s) =	4.59E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: GK	Date: 25/10/2023
		Checked by: PB	Date: 25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 4). Series1 (blue diamonds) shows a curve starting at (0, 30) and ending at (3.5, 300). A horizontal yellow line at 97.5 mm depth intersects Series1 at 0.8 minutes (tp 75). A horizontal green line at 232.5 mm depth intersects Series1 at 2.55 minutes (tp 25).</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

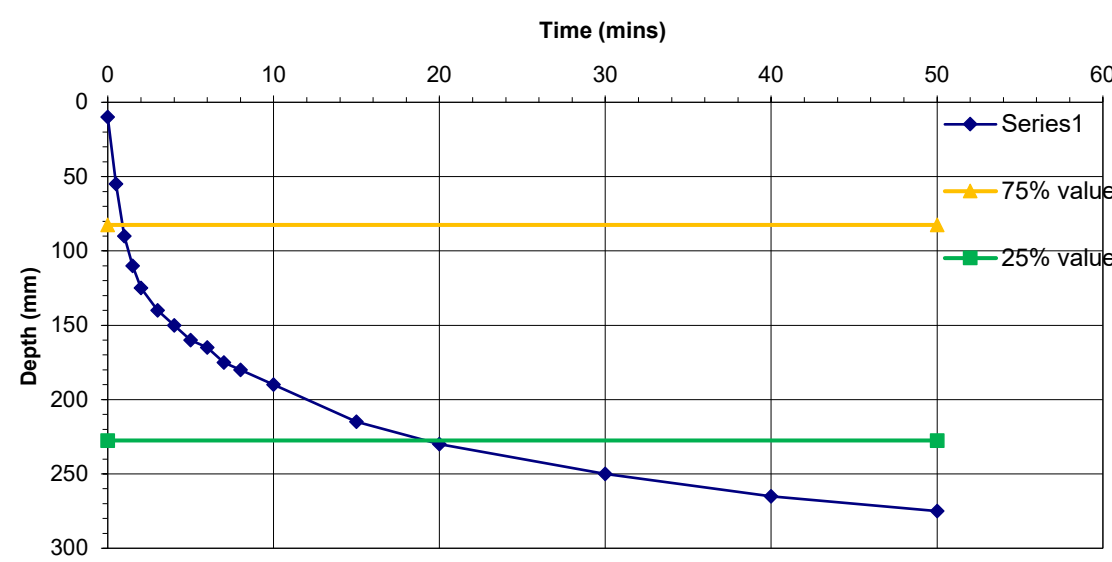
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP02: Test 2		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30	
0	10		Width (m) =	0.30	
0.5	50		Depth (m) =	0.30	
1	100	Depth to water at start of test =		10.0	
1.5	150	Depth to base of pit =		300.0	
2	180	Depth to water at 75% level =		82.5	
3	220	Depth to water at 50% level =		155.0	
4	250	Depth to water at 25% level =		227.5	
5	270	Base area of pit (m ²) =		0.090	
5.5	300	Eff area of loss 75 - 25% (m ²) =		0.264	
		Volume outflow 75 - 25% (m ³) =		0.013	
		From the graph:			
		tp 75 (min) =		0.8	
		tp 25 (min) =		3.3	
		Soil infiltration rate, f, (m/s) =	3.30E-04	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	GK	Date:	25/10/2023
		Checked by:	PB	Date:	25/10/2023
					
Notes					
Test pit from 1.00m to 1.30mbgl.					

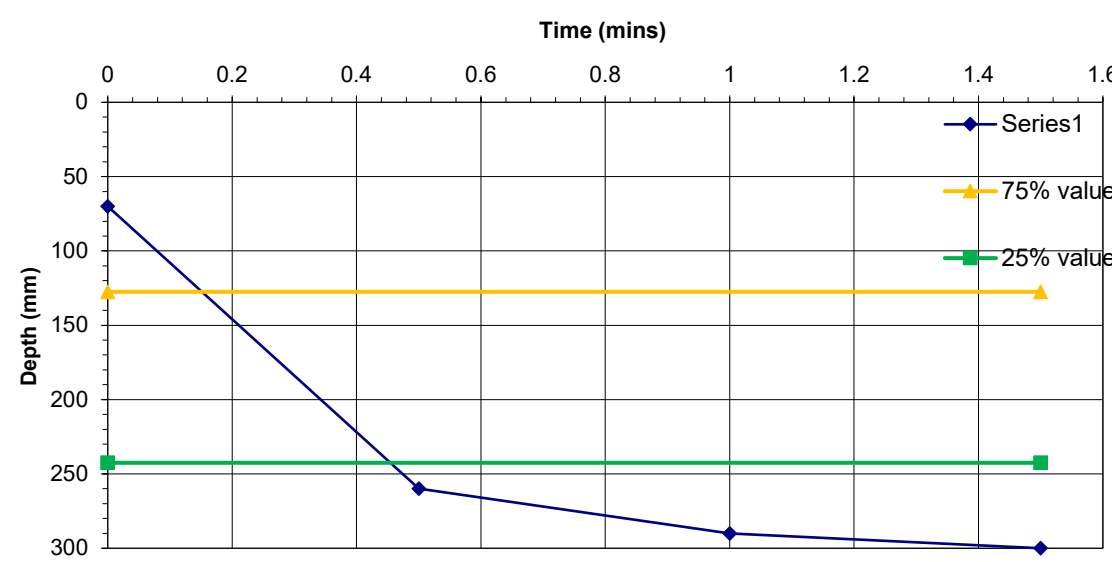
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP02: Test 3		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30	
0	10		Width (m) =	0.30	
0.5	60		Depth (m) =	0.30	
1	120	Depth to water at start of test =			10.0
1.5	160	Depth to base of pit =			300.0
2	180	Depth to water at 75% level =			82.5
3	220	Depth to water at 50% level =			155.0
4	240	Depth to water at 25% level =			227.5
5	260	Base area of pit (m ²) =			0.090
6	300	Eff area of loss 75 - 25% (m ²) =			0.264
		Volume outflow 75 - 25% (m ³) =			0.013
		From the graph:			
		tp 75 (min) =			0.7
		tp 25 (min) =			3.4
		Soil infiltration rate, f, (m/s) =	3.05E-04	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	GK	Date:	25/10/2023
		Checked by:	PB	Date:	25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 7). Series1 (blue diamonds) shows the water table depth over time. The 75% value (yellow triangles) is at 82.5 mm depth, and the 25% value (green squares) is at 227.5 mm depth. Horizontal lines indicate these specific depths.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

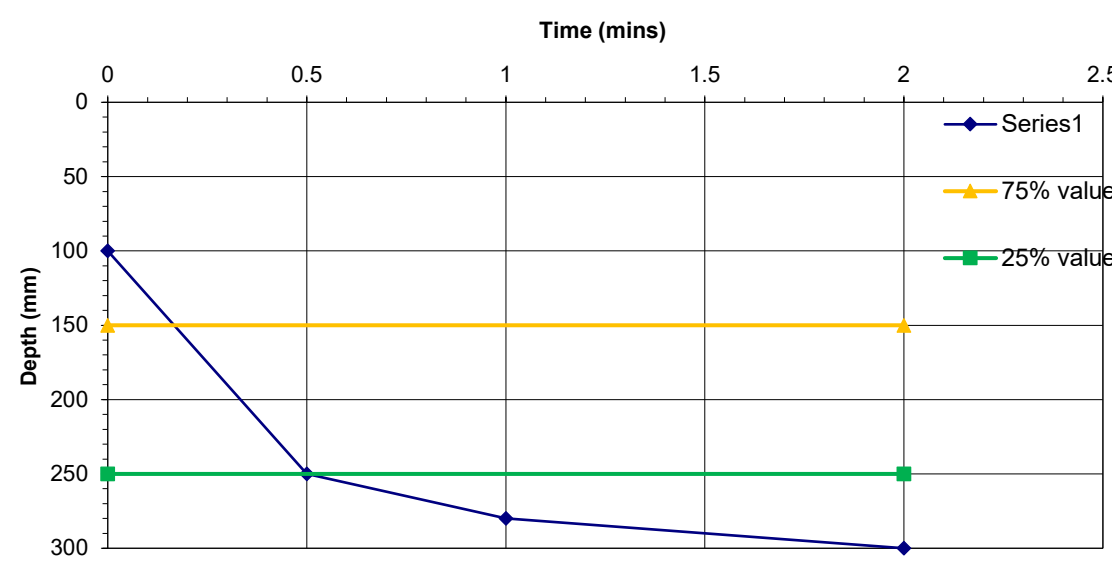
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP03: Test 1		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30	
0	0		Width (m) =	0.30	
1	25		Depth (m) =	0.30	
2	40	Depth to water at start of test =		0.0	
3	50	Depth to base of pit =		300.0	
4	55	Depth to water at 75% level =		75.0	
5	60	Depth to water at 50% level =		150.0	
7	70	Depth to water at 25% level =		225.0	
9	80				
12	90				
15	100	Base area of pit (m ²) =		0.090	
20	115	Eff area of loss 75 - 25% (m ²) =		0.270	
30	150	Volume outflow 75 - 25% (m ³) =		0.014	
40	175				
50	200	From the graph:			
60	205	tp 75 (min) =		8	
90	250	tp 25 (min) =		72	
100	265				
111	300				
		Soil infiltration rate, f, (m/s) =	1.30E-05	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	RC	Date:	25/10/2023
		Checked by:	PB	Date:	25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 120). Series1 (blue diamonds) shows the water table depth over time. The 75% value (yellow triangles) is at approximately 75 mm depth, and the 25% value (green squares) is at approximately 225 mm depth. Horizontal lines indicate these specific depths.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

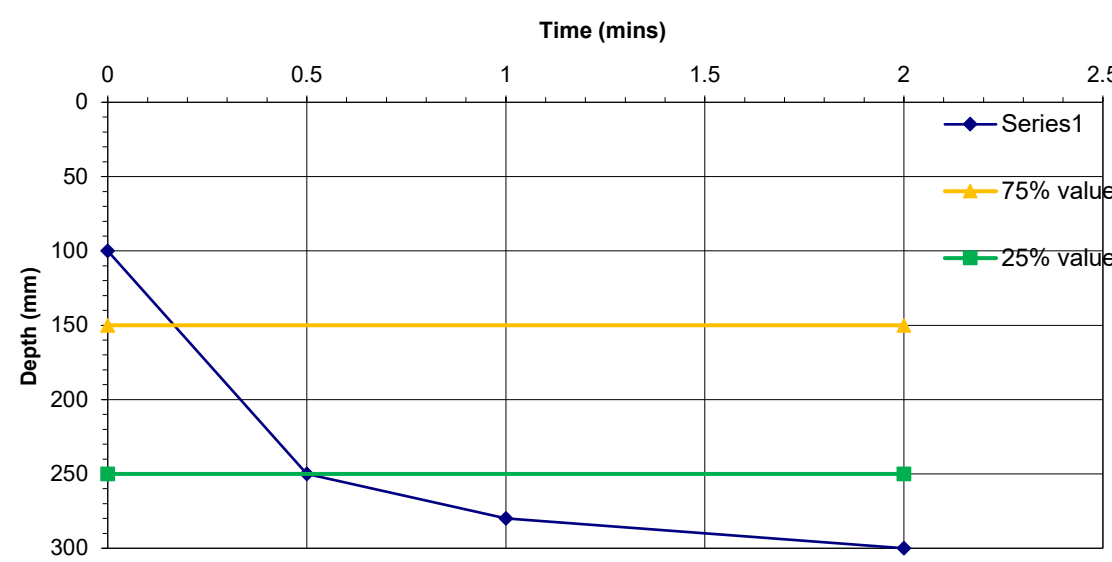
SOIL PERCOLATION TEST																																												
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008																																												
Client:	Dallas Burston Property Limited																																											
Site:	Brixworth Percolation Testing																																											
Job No:	2221120	Test No:	TP04: Test 1																																									
CALCULATION OF SOIL INFILTRATION RATE																																												
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30																																								
0	30		Width (m) =	0.30																																								
0.5	120		Depth (m) =	0.30																																								
1	170	Depth to water at start of test =			30.0																																							
1.5	190	Depth to base of pit =			300.0																																							
2	205	Depth to water at 75% level =			97.5																																							
3	225	Depth to water at 50% level =			165.0																																							
4	240	Depth to water at 25% level =			232.5																																							
5	260	Base area of pit (m ²) =			0.090																																							
6	300	Eff area of loss 75 - 25% (m ²) =			0.252																																							
		Volume outflow 75 - 25% (m ³) =			0.012																																							
		From the graph:																																										
		tp 75 (min) =			0.4																																							
		tp 25 (min) =			3.5																																							
		Soil infiltration rate, f, (m/s) =	2.59E-04	normal test																																								
		Time for 1mm (Vp) =		Seconds																																								
		Input by:	RC	Date:	25/10/2023																																							
		Checked by:	PB	Date:	25/10/2023																																							
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 7). Series1 (blue diamonds) shows the water table depth over time. The 75% value (yellow triangles) is constant at 100 mm. The 25% value (green squares) is constant at 232.5 mm.</p> <table border="1"> <caption>Graph Data Points</caption> <thead> <tr> <th>Time (mins)</th> <th>Series1 (mm)</th> <th>75% value (mm)</th> <th>25% value (mm)</th> </tr> </thead> <tbody> <tr><td>0</td><td>30</td><td>100</td><td>232.5</td></tr> <tr><td>0.5</td><td>120</td><td>100</td><td>232.5</td></tr> <tr><td>1</td><td>170</td><td>100</td><td>232.5</td></tr> <tr><td>1.5</td><td>190</td><td>100</td><td>232.5</td></tr> <tr><td>2</td><td>205</td><td>100</td><td>232.5</td></tr> <tr><td>3</td><td>225</td><td>100</td><td>232.5</td></tr> <tr><td>4</td><td>240</td><td>100</td><td>232.5</td></tr> <tr><td>5</td><td>260</td><td>100</td><td>232.5</td></tr> <tr><td>6</td><td>300</td><td>100</td><td>232.5</td></tr> </tbody> </table>					Time (mins)	Series1 (mm)	75% value (mm)	25% value (mm)	0	30	100	232.5	0.5	120	100	232.5	1	170	100	232.5	1.5	190	100	232.5	2	205	100	232.5	3	225	100	232.5	4	240	100	232.5	5	260	100	232.5	6	300	100	232.5
Time (mins)	Series1 (mm)	75% value (mm)	25% value (mm)																																									
0	30	100	232.5																																									
0.5	120	100	232.5																																									
1	170	100	232.5																																									
1.5	190	100	232.5																																									
2	205	100	232.5																																									
3	225	100	232.5																																									
4	240	100	232.5																																									
5	260	100	232.5																																									
6	300	100	232.5																																									
Notes																																												
Test pit from 1.00m to 1.30mbgl.																																												

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP04: Test 3
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	50		Width (m) = 0.30
0.5	120		Depth (m) = 0.30
1	165		
2	190	Depth to water at start of test =	50.0
3	205	Depth to base of pit =	300.0
4	215	Depth to water at 75% level =	112.5
5	220	Depth to water at 50% level =	175.0
6	227.5	Depth to water at 25% level =	237.5
7	230		
8	235	Base area of pit (m ²) =	0.090
10	240	Eff area of loss 75 - 25% (m ²) =	0.240
13	250	Volume outflow 75 - 25% (m ³) =	0.011
15	255		
20	260		
		From the graph:	
		tp 75 (min) =	0.5
		tp 25 (min) =	9
		Soil infiltration rate, f, (m/s) =	9.19E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: RC	Date: 25/10/2023
		Checked by: PB	Date: 25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 25). Series1 (blue diamonds) shows the water table depth over time, starting at 50mm at 0 minutes and reaching approximately 260mm at 20 minutes. The 75% value (yellow triangles) is constant at 112.5mm. The 25% value (green squares) is constant at 237.5mm.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

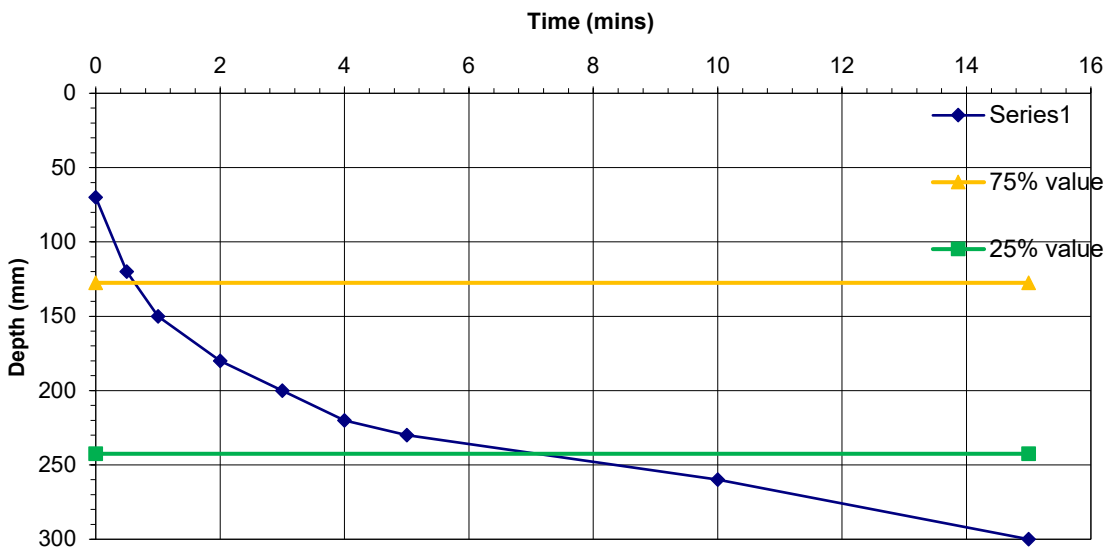
SOIL PERCOLATION TEST				
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008				
Client:	Dallas Burston Property Limited			
Site:	Brixworth Percolation Testing			
Job No:	2221120	Test No:	TP05: Test 1	
CALCULATION OF SOIL INFILTRATION RATE				
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30
0	10		Width (m) =	0.25
0.50	55		Depth (m) =	0.30
1.0	90	Depth to water at start of test = 10.0		
1.5	110	Depth to base of pit = 300.0		
2	125	Depth to water at 75% level = 82.5		
3	140	Depth to water at 50% level = 155.0		
4	150	Depth to water at 25% level = 227.5		
5	160			
6	165			
7	175	Base area of pit (m ²) = 0.075		
8	180	Eff area of loss 75 - 25% (m ²) = 0.235		
10	190	Volume outflow 75 - 25% (m ³) = 0.011		
15	215			
20	230	From the graph:		
30	250	tp 75 (min) = 0.9		
40	265	tp 25 (min) = 19		
50	275			
		Soil infiltration rate, f, (m/s) =	4.27E-05	normal test
		Time for 1mm (Vp) =		Seconds
		Input by:	RC	Date: 25/10/2023
		Checked by:	PB	Date: 25/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 60). Series1 (blue diamonds) shows the water table depth over time, starting at 10mm at 0.5 minutes and reaching approximately 275mm at 50 minutes. The 75% value (yellow triangles) is constant at 82.5mm. The 25% value (green squares) is constant at 227.5mm.</p>				
Notes				
Test pit from 1.00m to 1.30mbgl.				

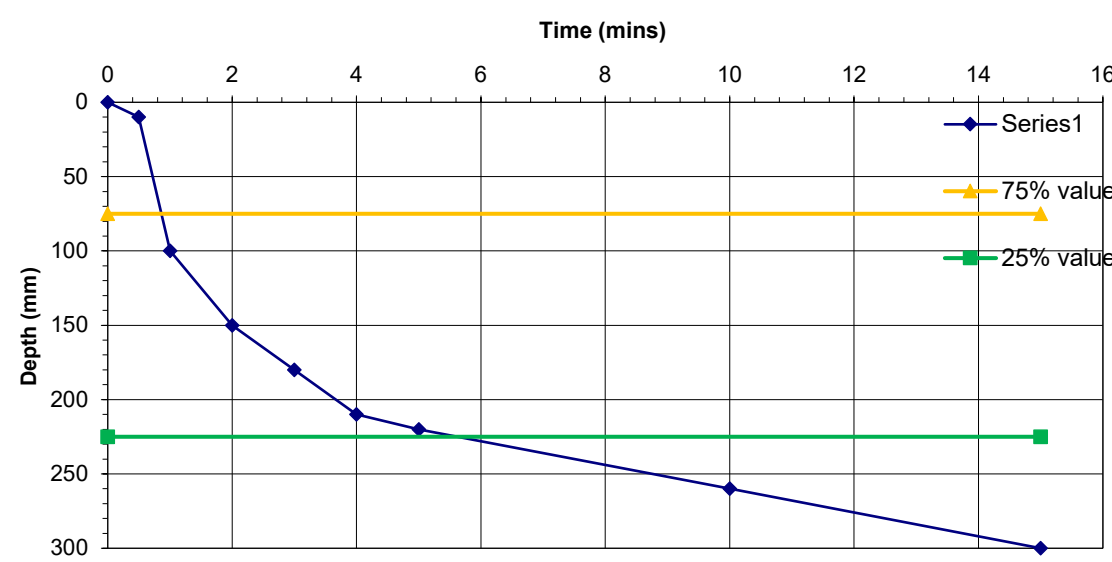
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP06: Test 1		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50	
0	70		Width (m) =	0.40	
0.5	260		Depth (m) =	0.30	
1	290				
1.5	300				
		Depth to water at start of test =	70.0		
		Depth to base of pit =	300.0		
		Depth to water at 75% level =	127.5		
		Depth to water at 50% level =	185.0		
		Depth to water at 25% level =	242.5		
		Base area of pit (m ²) =	0.200		
		Eff area of loss 75 - 25% (m ²) =	0.407		
		Volume outflow 75 - 25% (m ³) =	0.023		
		From the graph:			
		tp 75 (min) =	0.15		
		tp 25 (min) =	0.45		
		Soil infiltration rate, f, (m/s) =	3.14E-03	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	RC	Date:	26/10/2023
		Checked by:	PB	Date:	30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 1.6). Series1 (blue diamonds) shows a curve starting at (0, 70) and ending at (1.5, 300). The 75% value (yellow triangles) is a horizontal line at 127.5 mm. The 25% value (green squares) is a horizontal line at 242.5 mm.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

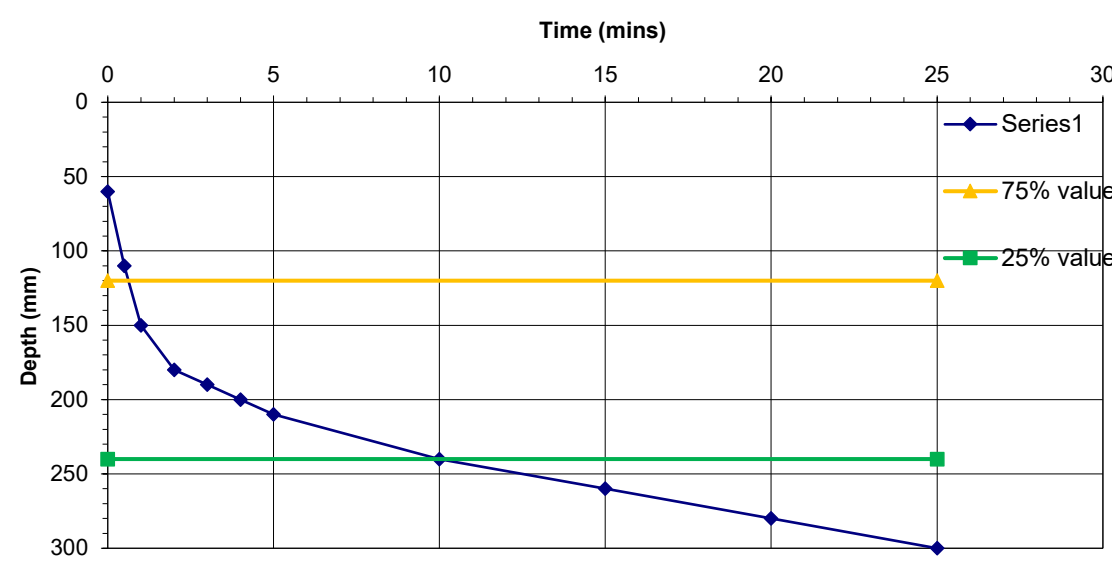
SOIL PERCOLATION TEST						
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008						
Client:	Dallas Burston Property Limited					
Site:	Brixworth Percolation Testing					
Job No:	2221120	Test No:	TP06: Test 2			
CALCULATION OF SOIL INFILTRATION RATE						
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50		
0	100		Width (m) =	0.40		
0.5	250		Depth (m) =	0.30		
1	280		Depth to water at start of test = 100.0			
2	300		Depth to base of pit = 300.0			
			Depth to water at 75% level = 150.0			
			Depth to water at 50% level = 200.0			
			Depth to water at 25% level = 250.0			
			Base area of pit (m ²) = 0.200			
			Eff area of loss 75 - 25% (m ²) = 0.380			
			Volume outflow 75 - 25% (m ³) = 0.020			
			From the graph:			
			tp 75 (min) = 0.2			
			tp 25 (min) = 0.5			
			Soil infiltration rate, f, (m/s) = 2.92E-03 normal test			
			Time for 1mm (Vp) = Seconds			
		Input by:	DS	Date:	26/10/2023	
		Checked by:	PB	Date:	30/10/2023	
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 2.5). Series1 (blue diamonds) shows the water table depth over time, starting at 100 mm at 0 minutes and reaching 300 mm at 2.0 minutes. The 75% value (yellow triangles) is constant at 150 mm. The 25% value (green squares) is constant at 250 mm.</p>						
Notes						
Test pit from 1.00m to 1.30mbgl.						

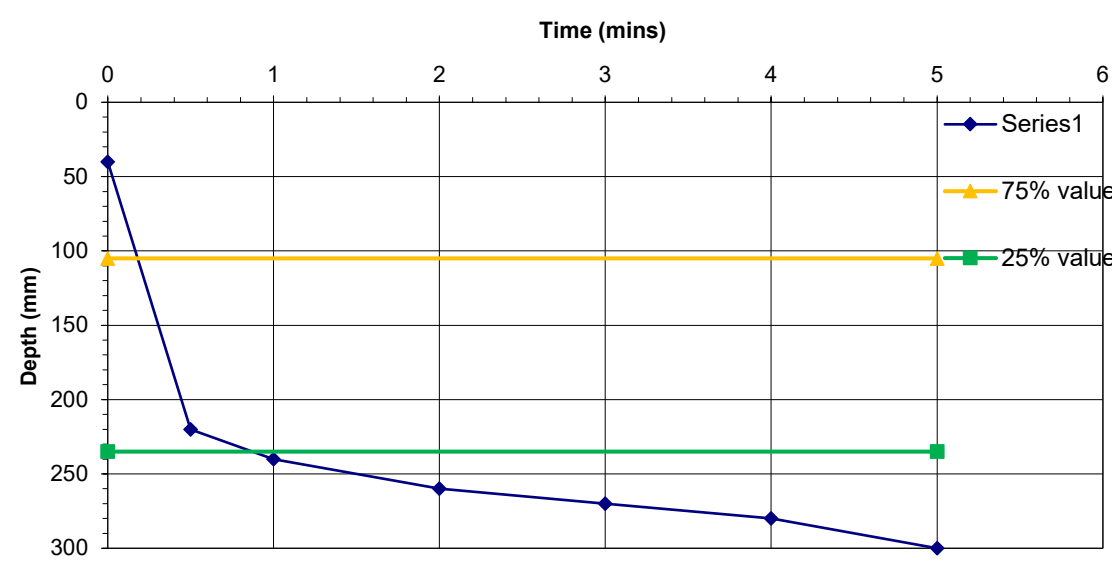
SOIL PERCOLATION TEST						
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008						
Client:	Dallas Burston Property Limited					
Site:	Brixworth Percolation Testing					
Job No:	2221120	Test No:	TP06: Test 3			
CALCULATION OF SOIL INFILTRATION RATE						
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50		
0	100		Width (m) =	0.40		
0.5	250		Depth (m) =	0.30		
1	280		Depth to water at start of test = 100.0			
2	300		Depth to base of pit = 300.0			
			Depth to water at 75% level = 150.0			
			Depth to water at 50% level = 200.0			
			Depth to water at 25% level = 250.0			
			Base area of pit (m ²) = 0.200			
			Eff area of loss 75 - 25% (m ²) = 0.380			
			Volume outflow 75 - 25% (m ³) = 0.020			
			From the graph:			
			tp 75 (min) = 0.2			
			tp 25 (min) = 0.5			
			Soil infiltration rate, f, (m/s) = 2.92E-03 normal test			
			Time for 1mm (Vp) = Seconds			
		Input by:	DS	Date:	26/10/2023	
		Checked by:	PB	Date:	30/10/2023	
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 2.5). Series1 (blue diamonds) shows the water table depth over time, starting at 100 mm at 0 minutes and reaching 300 mm at 2 minutes. The 75% value (yellow triangles) is constant at 150 mm. The 25% value (green squares) is constant at 250 mm.</p>						
Notes						
Test pit from 1.00m to 1.30mbgl.						

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP07: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	70		Width (m) = 0.30
0.5	120		Depth (m) = 0.30
1	150		
2	180	Depth to water at start of test =	70.0
3	200	Depth to base of pit =	300.0
4	220	Depth to water at 75% level =	127.5
5	230	Depth to water at 50% level =	185.0
10	260	Depth to water at 25% level =	242.5
15	300		
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.228
		Volume outflow 75 - 25% (m ³) =	0.010
		From the graph:	
		tp 75 (min) =	1.2
		tp 25 (min) =	7.2
		Soil infiltration rate, f, (m/s) =	1.26E-04
		Time for 1mm (Vp) =	normal test
		Input by:	DS
		Date:	26/10/2023
		Checked by:	PB
		Date:	30/10/2023
Notes			
Test pit from 1.00m to 1.30mbgl.			

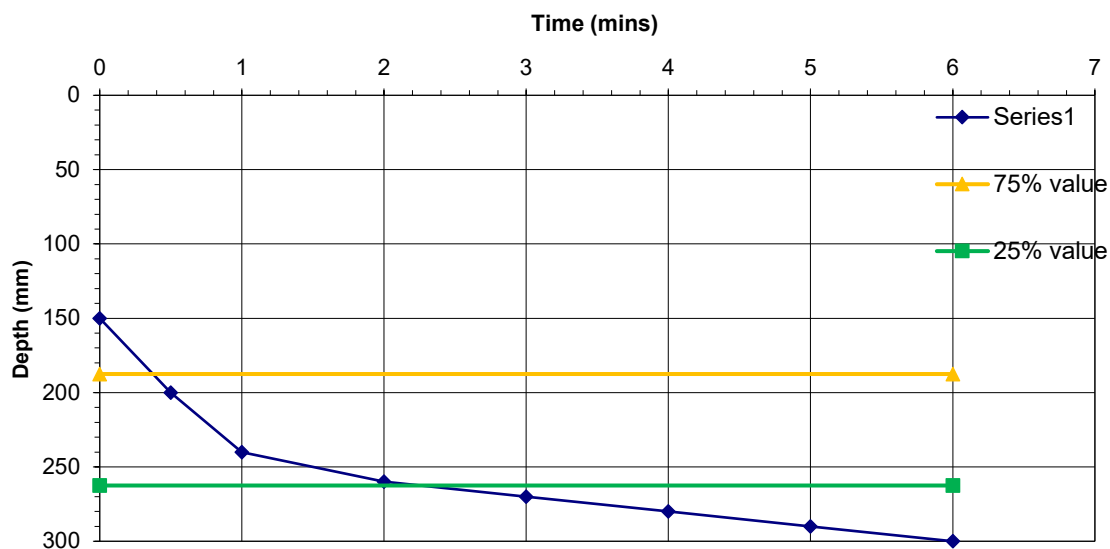


SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP07: Test 2
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	0		Width (m) = 0.30
0.5	10		Depth (m) = 0.30
1	100		
2	150	Depth to water at start of test =	0.0
3	180	Depth to base of pit =	300.0
4	210	Depth to water at 75% level =	75.0
5	220	Depth to water at 50% level =	150.0
10	260	Depth to water at 25% level =	225.0
15	300		
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.270
		Volume outflow 75 - 25% (m ³) =	0.014
		From the graph:	
		tp 75 (min) =	0.8
		tp 25 (min) =	5.6
		Soil infiltration rate, f, (m/s) =	1.74E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 16). Series1 (blue diamonds) shows the water table depth over time. Two horizontal lines represent the 75% value (yellow triangles at 75 mm) and the 25% value (green squares at 225 mm). The 75% value is reached at approximately 0.8 minutes, and the 25% value is reached at approximately 5.6 minutes.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP07: Test 3
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	60		Width (m) = 0.30
0.5	110		Depth (m) = 0.30
1	150		
2	180	Depth to water at start of test =	60.0
3	190	Depth to base of pit =	300.0
4	200	Depth to water at 75% level =	120.0
5	210	Depth to water at 50% level =	180.0
10	240	Depth to water at 25% level =	240.0
15	260		
20	280	Base area of pit (m ²) =	0.090
25	300	Eff area of loss 75 - 25% (m ²) =	0.234
		Volume outflow 75 - 25% (m ³) =	0.011
		From the graph:	
		tp 75 (min) =	0.6
		tp 25 (min) =	10
		Soil infiltration rate, f, (m/s) =	8.18E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 30). Series1 (blue diamonds) shows the water table depth over time, starting at 60mm at 0 minutes and reaching 300mm at 25 minutes. The 75% value (yellow triangles) is a horizontal line at 120mm depth. The 25% value (green squares) is a horizontal line at 240mm depth.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

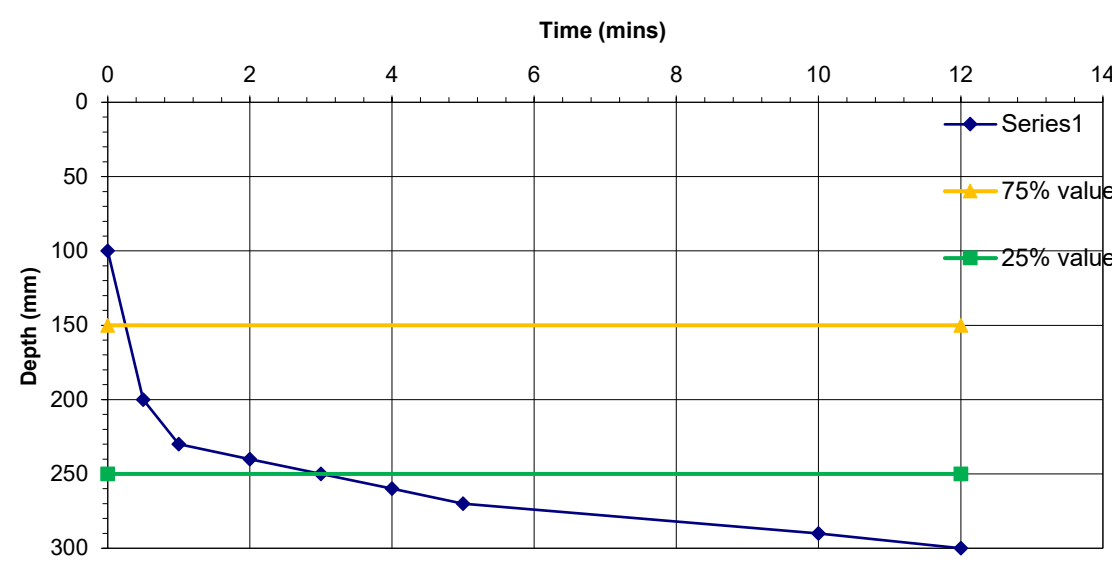
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP08: Test 1		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30	
0	40		Width (m) =	0.30	
0.5	220		Depth (m) =	0.30	
1	240	Depth to water at start of test =		40.0	
2	260	Depth to base of pit =		300.0	
3	270	Depth to water at 75% level =		105.0	
4	280	Depth to water at 50% level =		170.0	
5	300	Depth to water at 25% level =		235.0	
			Base area of pit (m ²) =	0.090	
			Eff area of loss 75 - 25% (m ²) =	0.246	
			Volume outflow 75 - 25% (m ³) =	0.012	
			From the graph:		
			tp 75 (min) =	0.3	
			tp 25 (min) =	0.8	
			Soil infiltration rate, f, (m/s) =	1.59E-03	normal test
			Time for 1mm (Vp) =		Seconds
		Input by:	DS	Date:	26/10/2023
		Checked by:	PB	Date:	30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 6). Series1 (blue diamonds) shows the water table depth over time, starting at 40mm at 0 minutes and reaching 300mm at 5 minutes. The 75% value (yellow triangles) is constant at 105mm. The 25% value (green squares) is constant at 235mm.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

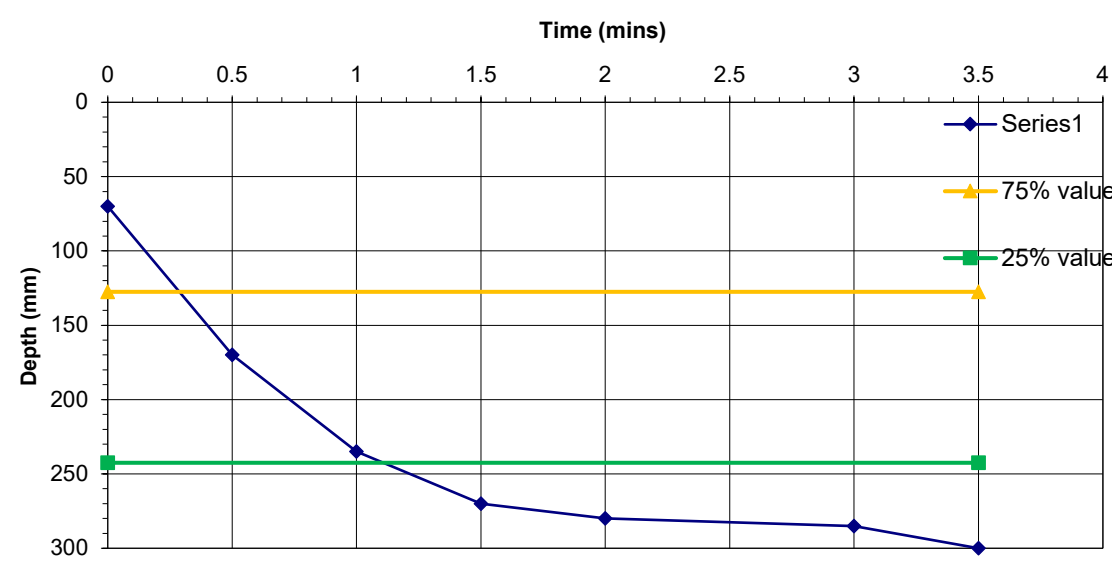
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP08: Test 2
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	150		Width (m) = 0.30
0.5	200		Depth (m) = 0.30
1	240		
2	260	Depth to water at start of test =	150.0
3	270	Depth to base of pit =	300.0
4	280	Depth to water at 75% level =	187.5
5	290	Depth to water at 50% level =	225.0
6	300	Depth to water at 25% level =	262.5
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.180
		Volume outflow 75 - 25% (m ³) =	0.007
		From the graph:	
		tp 75 (min) =	0.4
		tp 25 (min) =	2.2
		Soil infiltration rate, f, (m/s) =	3.47E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023

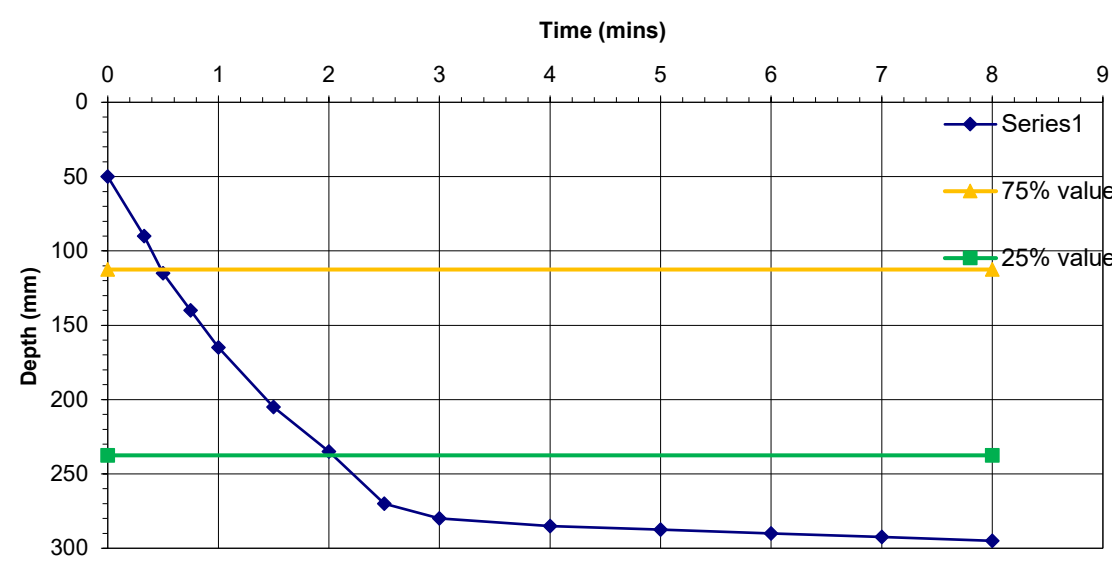


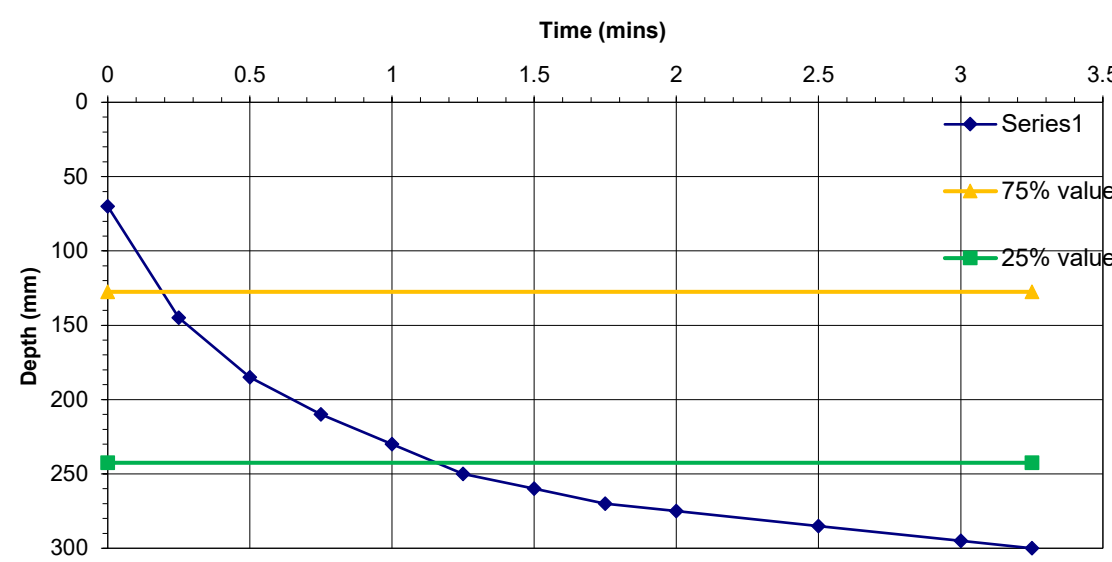
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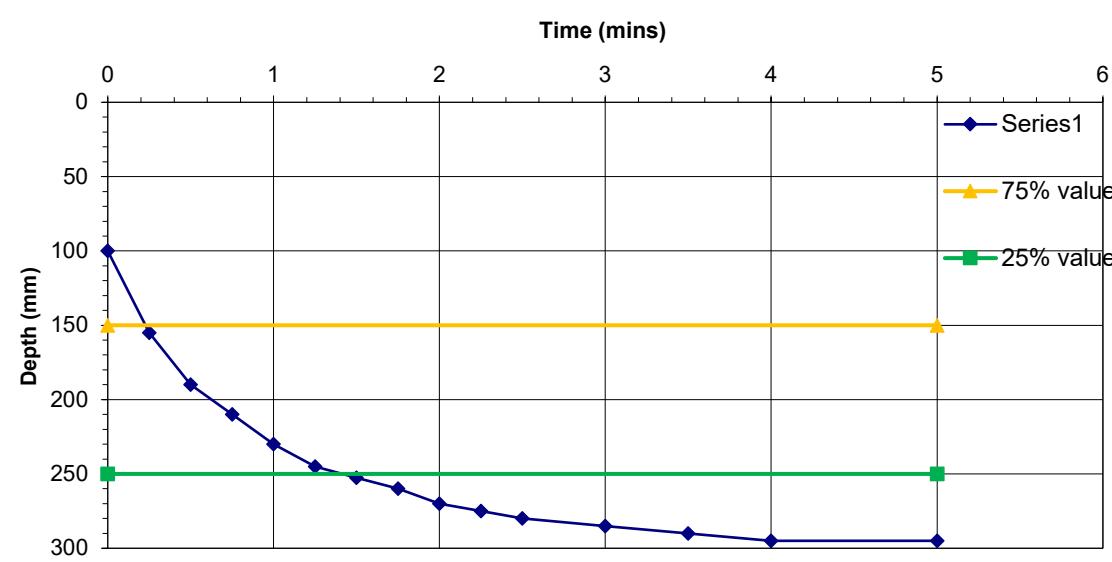
Test pit from 1.00m to 1.30mbgl.

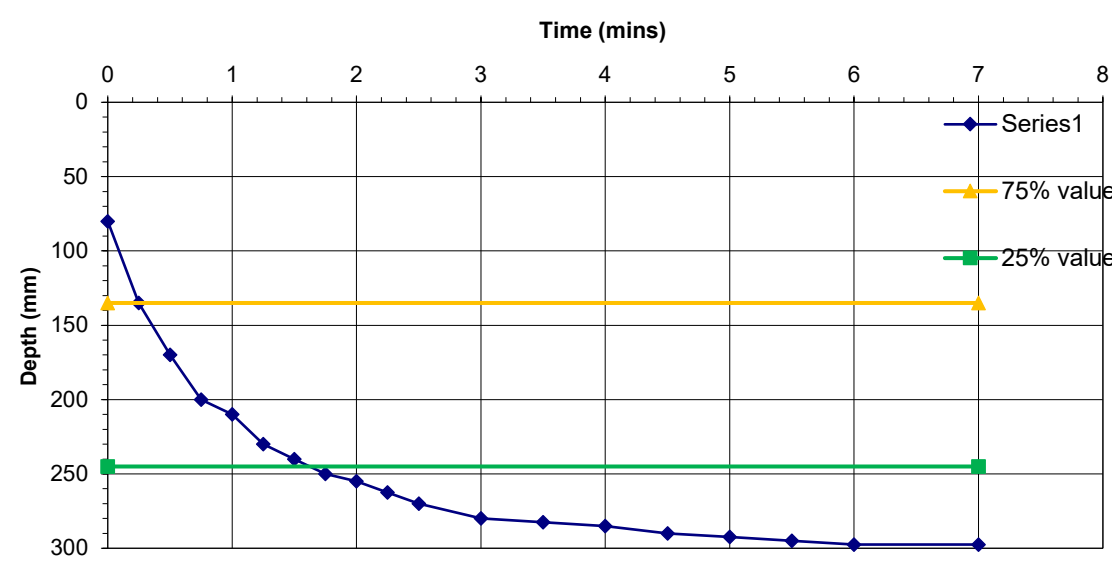
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP08: Test 3
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	100		Width (m) = 0.30
0.5	200		Depth (m) = 0.30
1	230		
2	240	Depth to water at start of test =	100.0
3	250	Depth to base of pit =	300.0
4	260	Depth to water at 75% level =	150.0
5	270	Depth to water at 50% level =	200.0
10	290	Depth to water at 25% level =	250.0
12	300		
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.210
		Volume outflow 75 - 25% (m ³) =	0.009
		From the graph:	
		tp 75 (min) =	0.25
		tp 25 (min) =	3
		Soil infiltration rate, f, (m/s) =	2.60E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 14). Series1 (blue diamonds) shows the water table depth over time, starting at 100mm at 0 minutes and reaching 300mm at 12 minutes. The 75% value (yellow triangles) is a horizontal line at 150mm depth. The 25% value (green squares) is a horizontal line at 250mm depth.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

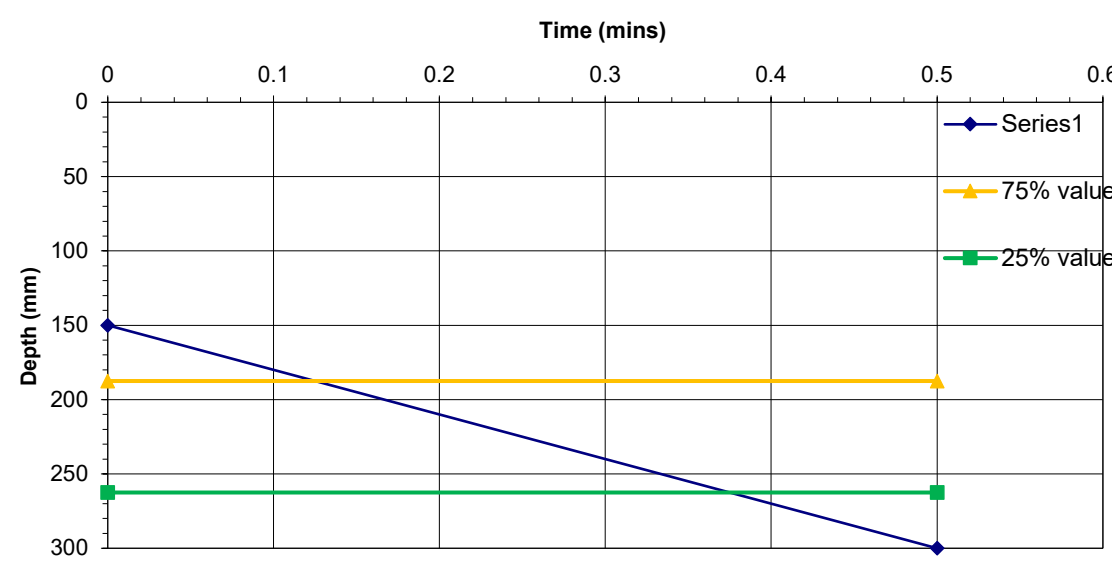
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP09: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	70		Width (m) = 0.30
0.5	170		Depth (m) = 0.30
1	235		
1.5	270	Depth to water at start of test =	70.0
2	280	Depth to base of pit =	300.0
3	285	Depth to water at 75% level =	127.5
3.5	300	Depth to water at 50% level =	185.0
		Depth to water at 25% level =	242.5
		Base area of pit (m ²) =	0.090
		Eff area of loss 75 - 25% (m ²) =	0.228
		Volume outflow 75 - 25% (m ³) =	0.010
		From the graph:	
		tp 75 (min) =	0.3
		tp 25 (min) =	1.1
		Soil infiltration rate, f, (m/s) =	9.46E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 4). Series1 (blue diamonds) shows the water table depth over time, starting at 70mm at 0 minutes and reaching 300mm at 3.5 minutes. The 75% value (yellow triangles) is constant at 127.5mm. The 25% value (green squares) is constant at 242.5mm.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

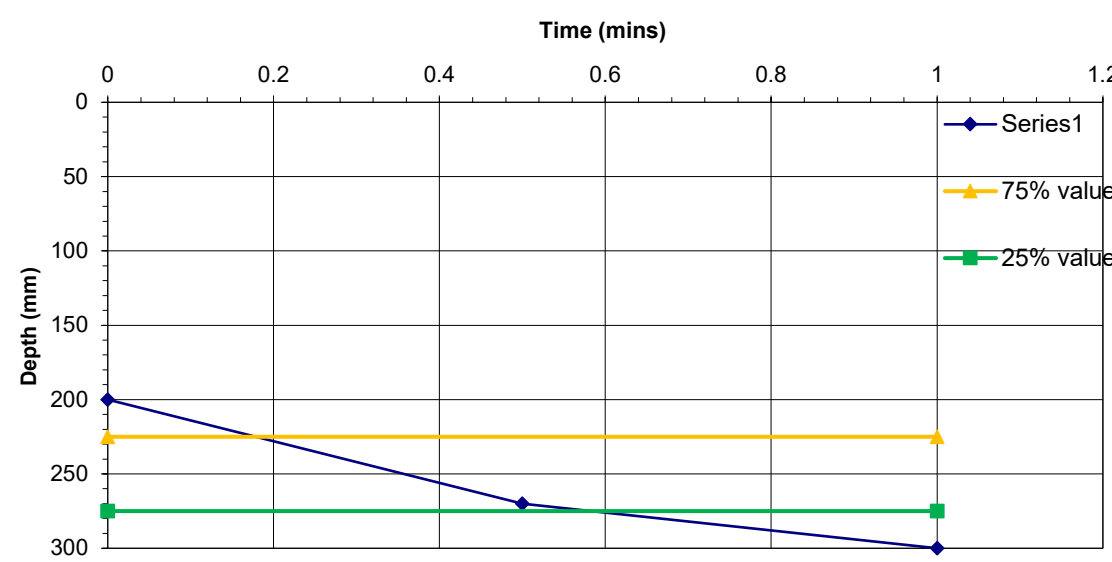
SOIL PERCOLATION TEST				
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008				
Client:	Dallas Burston Property Limited			
Site:	Brixworth Percolation Testing			
Job No:	2221120	Test No:	TP09: Test 2	
CALCULATION OF SOIL INFILTRATION RATE				
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30
0	50		Width (m) =	0.30
0.33	90		Depth (m) =	0.30
0.5	115			
0.75	140	Depth to water at start of test =	50.0	
1	165	Depth to base of pit =	300.0	
1.5	205	Depth to water at 75% level =	112.5	
2	235	Depth to water at 50% level =	175.0	
2.5	270	Depth to water at 25% level =	237.5	
3	280			
4	285	Base area of pit (m ²) =	0.090	
5	287.5	Eff area of loss 75 - 25% (m ²) =	0.240	
6	290	Volume outflow 75 - 25% (m ³) =	0.011	
7	292.5			
8	295			
			From the graph:	
			tp 75 (min) =	0.4
			tp 25 (min) =	2
		Soil infiltration rate, f, (m/s) =	4.88E-04	normal test
		Time for 1mm (Vp) =		Seconds
		Input by:	DS	Date: 26/10/2023
		Checked by:	PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 9). Series1 (blue diamonds) shows the water table depth over time, starting at 50mm at 0 minutes and reaching approximately 300mm at 8 minutes. The 75% value (yellow triangles) is a horizontal line at 112.5mm. The 25% value (green squares) is a horizontal line at 237.5mm.</p>				
Notes				
Test pit from 1.00m to 1.30mbgl.				

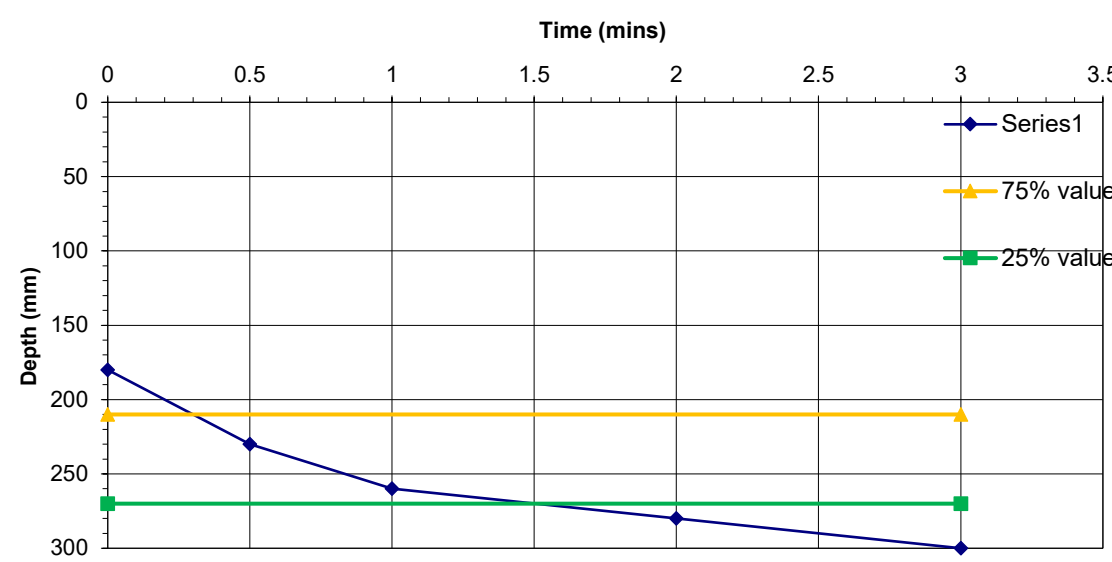
SOIL PERCOLATION TEST				
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008				
Client:	Dallas Burston Property Limited			
Site:	Brixworth Percolation Testing			
Job No:	2221120	Test No:	TP10: Test 1	
CALCULATION OF SOIL INFILTRATION RATE				
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30
0	70		Width (m) =	0.30
0.25	145		Depth (m) =	0.30
0.5	185	Depth to water at start of test = 70.0		
0.75	210	Depth to base of pit = 300.0		
1	230	Depth to water at 75% level = 127.5		
1.25	250	Depth to water at 50% level = 185.0		
1.5	260	Depth to water at 25% level = 242.5		
1.75	270			
2	275			
2.5	285	Base area of pit (m ²) = 0.090		
3	295	Eff area of loss 75 - 25% (m ²) = 0.228		
3.25	300	Volume outflow 75 - 25% (m ³) = 0.010		
		From the graph:		
		tp 75 (min) = 0.2		
		tp 25 (min) = 1.2		
		Soil infiltration rate, f, (m/s) =	7.57E-04	normal test
		Time for 1mm (Vp) =		Seconds
		Input by:	DS	Date: 26/10/2023
		Checked by:	PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 3.5). Series1 (blue diamonds) shows the water table depth over time, starting at 70 mm at 0 minutes and reaching 300 mm at approximately 3.25 minutes. The 75% value (yellow triangles) is constant at 127.5 mm. The 25% value (green squares) is constant at 242.5 mm.</p>				
Notes				
Test pit from 1.00m to 1.30mbgl.				

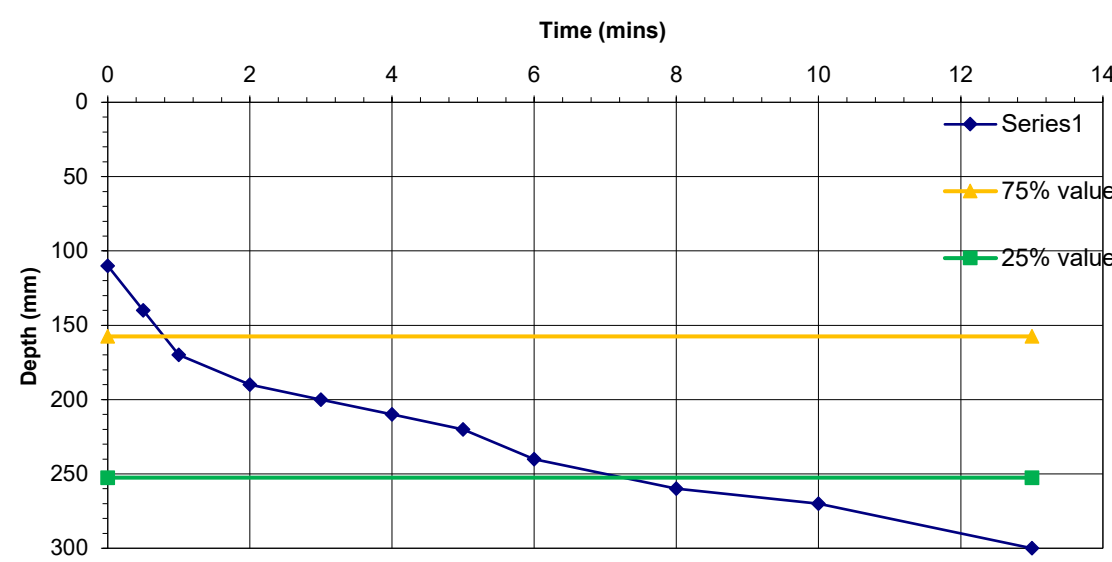
SOIL PERCOLATION TEST						
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008						
Client:	Dallas Burston Property Limited					
Site:	Brixworth Percolation Testing					
Job No:	2221120	Test No:	TP10: Test 2			
CALCULATION OF SOIL INFILTRATION RATE						
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30		
0	100		Width (m) =	0.30		
0.25	155		Depth (m) =	0.30		
0.5	190	Depth to water at start of test =				100.0
0.75	210	Depth to base of pit =				300.0
1	230	Depth to water at 75% level =				150.0
1.25	245	Depth to water at 50% level =				200.0
1.5	252.5	Depth to water at 25% level =				250.0
1.75	260					
2	270					
2.25	275	Base area of pit (m ²) =				0.090
2.5	280	Eff area of loss 75 - 25% (m ²) =				0.210
3	285	Volume outflow 75 - 25% (m ³) =				0.009
3.5	290					
4	295					
5	295					
		From the graph:				
		tp 75 (min) =				0.2
		tp 25 (min) =				1.5
		Soil infiltration rate, f, (m/s) =		5.49E-04	normal test	
		Time for 1mm (Vp) =			Seconds	
		Input by:	DS	Date:	26/10/2023	
		Checked by:	PB	Date:	30/10/2023	
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 6). Series1 (blue diamonds) shows the water table depth over time. Horizontal lines indicate the 75% value (yellow triangles at 150 mm) and 25% value (green squares at 250 mm). The 75% value is reached at approximately 0.2 minutes, and the 25% value is reached at approximately 1.5 minutes.</p>						
Notes						
Test pit from 1.00m to 1.30mbgl.						

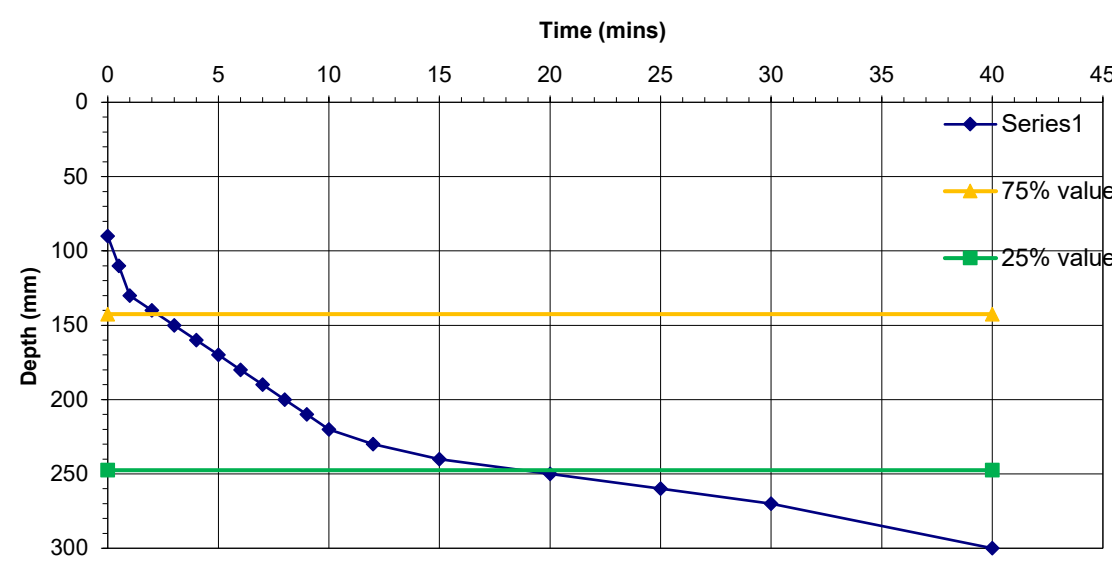
SOIL PERCOLATION TEST				
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008				
Client:	Dallas Burston Property Limited			
Site:	Brixworth Percolation Testing			
Job No:	2221120	Test No:	TP10: Test 3	
CALCULATION OF SOIL INFILTRATION RATE				
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30
0	80		Width (m) =	0.30
0.25	135		Depth (m) =	0.30
0.5	170	Depth to water at start of test = 80.0		
0.75	200	Depth to base of pit = 300.0		
1	210	Depth to water at 75% level = 135.0		
1.25	230	Depth to water at 50% level = 190.0		
1.5	240	Depth to water at 25% level = 245.0		
1.75	250			
2	255			
2.25	262.5	Base area of pit (m ²) = 0.090		
2.5	270	Eff area of loss 75 - 25% (m ²) = 0.222		
3	280	Volume outflow 75 - 25% (m ³) = 0.010		
3.5	282.5			
4	285	From the graph:		
4.5	290	tp 75 (min) = 0.25		
5	292.5	tp 25 (min) = 1.6		
5.5	295			
6	297.5			
7	297.5	Soil infiltration rate, f, (m/s) =	5.51E-04	normal test
		Time for 1mm (Vp) =		Seconds
		Input by:	DS	Date: 26/10/2023
		Checked by:	PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 8). Series1 (blue diamonds) shows the water table depth over time, starting at 80mm at 0 minutes and reaching approximately 297.5mm at 7 minutes. The 75% value (yellow triangles) is constant at 135mm. The 25% value (green squares) is constant at 245mm.</p>				
Notes				
Test pit from 1.00m to 1.30mbgl.				

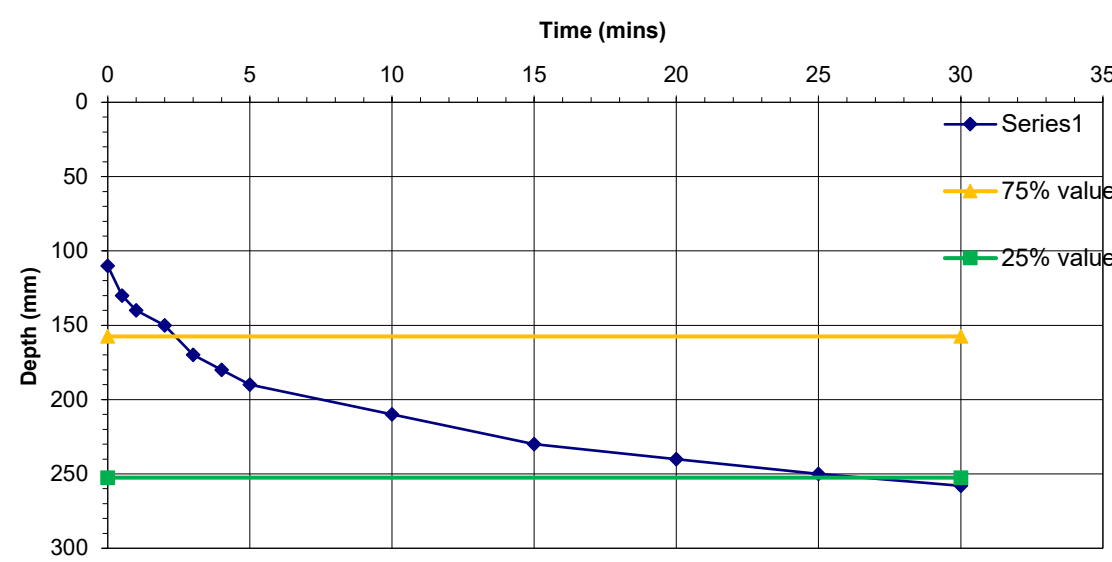
SOIL PERCOLATION TEST																									
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008																									
Client:	Dallas Burston Property Limited																								
Site:	Brixworth Percolation Testing																								
Job No:	2221120	Test No:	TP11: Test 1																						
CALCULATION OF SOIL INFILTRATION RATE																									
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50																					
0	150		Width (m) =	0.40																					
0.5	300		Depth (m) =	0.30																					
			Depth to water at start of test =	150.0																					
			Depth to base of pit =	300.0																					
			Depth to water at 75% level =	187.5																					
			Depth to water at 50% level =	225.0																					
			Depth to water at 25% level =	262.5																					
			Base area of pit (m ²) =	0.200																					
			Eff area of loss 75 - 25% (m ²) =	0.335																					
			Volume outflow 75 - 25% (m ³) =	0.015																					
			From the graph:																						
			tp 75 (min) =	0.12																					
			tp 25 (min) =	0.38																					
		Soil infiltration rate, f, (m/s) =	2.87E-03	normal test																					
		Time for 1mm (Vp) =		Seconds																					
		Input by:	DS	Date:	26/10/2023																				
		Checked by:	PB	Date:	30/10/2023																				
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 0.6). Three data series are shown: Series1 (blue diamonds), 75% value (yellow triangles), and 25% value (green squares). Series1 shows a linear decrease in depth over time. The 75% value is constant at approximately 187.5 mm. The 25% value is constant at approximately 262.5 mm.</p> <table border="1"> <caption>Graph Data Points</caption> <thead> <tr> <th>Time (mins)</th> <th>Series1 Depth (mm)</th> <th>75% value Depth (mm)</th> <th>25% value Depth (mm)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>150</td> <td>187.5</td> <td>262.5</td> </tr> <tr> <td>0.12</td> <td>175</td> <td>187.5</td> <td>262.5</td> </tr> <tr> <td>0.38</td> <td>225</td> <td>187.5</td> <td>262.5</td> </tr> <tr> <td>0.5</td> <td>262.5</td> <td>187.5</td> <td>262.5</td> </tr> </tbody> </table>						Time (mins)	Series1 Depth (mm)	75% value Depth (mm)	25% value Depth (mm)	0	150	187.5	262.5	0.12	175	187.5	262.5	0.38	225	187.5	262.5	0.5	262.5	187.5	262.5
Time (mins)	Series1 Depth (mm)	75% value Depth (mm)	25% value Depth (mm)																						
0	150	187.5	262.5																						
0.12	175	187.5	262.5																						
0.38	225	187.5	262.5																						
0.5	262.5	187.5	262.5																						
Notes																									
Test pit from 1.00m to 1.30mbgl.																									

SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP11: Test 2		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50	
0	200		Width (m) =	0.40	
0.5	270		Depth (m) =	0.30	
1	300				
		Depth to water at start of test =	200.0		
		Depth to base of pit =	300.0		
		Depth to water at 75% level =	225.0		
		Depth to water at 50% level =	250.0		
		Depth to water at 25% level =	275.0		
		Base area of pit (m ²) =	0.200		
		Eff area of loss 75 - 25% (m ²) =	0.290		
		Volume outflow 75 - 25% (m ³) =	0.010		
		From the graph:			
		tp 75 (min) =	0.18		
		tp 25 (min) =	0.56		
		Soil infiltration rate, f, (m/s) =	1.51E-03	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	DS	Date:	26/10/2023
		Checked by:	PB	Date:	30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 1.2). Three data series are shown: Series1 (blue diamonds), 75% value (yellow triangles), and 25% value (green squares). Series1 starts at (0, 200) and ends at (1.0, 300). The 75% value is constant at approximately 225 mm. The 25% value is constant at approximately 275 mm.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

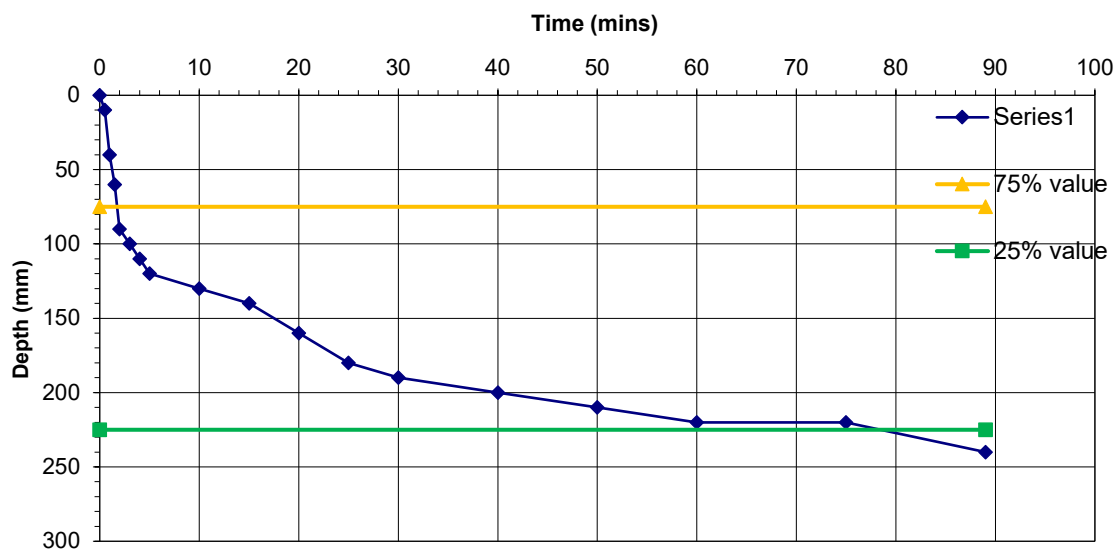
SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP11: Test 3		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50	
0	180		Width (m) =	0.40	
0.5	230		Depth (m) =	0.30	
1	260				
2	280		Depth to water at start of test =	180.0	
3	300		Depth to base of pit =	300.0	
			Depth to water at 75% level =	210.0	
			Depth to water at 50% level =	240.0	
			Depth to water at 25% level =	270.0	
			Base area of pit (m ²) =	0.200	
			Eff area of loss 75 - 25% (m ²) =	0.308	
			Volume outflow 75 - 25% (m ³) =	0.012	
			From the graph:		
			tp 75 (min) =	0.3	
			tp 25 (min) =	1.5	
			Soil infiltration rate, f, (m/s) =	5.41E-04	normal test
			Time for 1mm (Vp) =		Seconds
			Input by:	DS	Date: 26/10/2023
			Checked by:	PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 3.5). Series1 (blue diamonds) shows a curve starting at (0, 180) and ending at (3, 300). The 75% value (yellow triangles) is a horizontal line at 210 mm. The 25% value (green squares) is a horizontal line at 270 mm.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP12: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.50
0	110		Width (m) = 0.40
0.5	140		Depth (m) = 0.30
1	170		
2	190	Depth to water at start of test =	110.0
3	200	Depth to base of pit =	300.0
4	210	Depth to water at 75% level =	157.5
5	220	Depth to water at 50% level =	205.0
6	240	Depth to water at 25% level =	252.5
8	260		
10	270	Base area of pit (m ²) =	0.200
13	300	Eff area of loss 75 - 25% (m ²) =	0.371
		Volume outflow 75 - 25% (m ³) =	0.019
		From the graph:	
		tp 75 (min) =	0.75
		tp 25 (min) =	7.3
		Soil infiltration rate, f, (m/s) =	1.30E-04 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 14). Series1 (blue diamonds) shows a curve starting at (0, 110) and decreasing to (13, 300). A horizontal yellow line at 157.5 mm represents the 75% value, and a horizontal green line at 252.5 mm represents the 25% value. The time to reach the 75% value (tp 75) is 0.75 minutes, and the time to reach the 25% value (tp 25) is 7.3 minutes.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

SOIL PERCOLATION TEST				
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008				
Client:	Dallas Burston Property Limited			
Site:	Brixworth Percolation Testing			
Job No:	2221120	Test No:	TP12: Test 2	
CALCULATION OF SOIL INFILTRATION RATE				
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.50
0	90		Width (m) =	0.40
0.5	110		Depth (m) =	0.30
1	130	Depth to water at start of test = 90.0		
2	140	Depth to base of pit = 300.0		
3	150	Depth to water at 75% level = 142.5		
4	160	Depth to water at 50% level = 195.0		
5	170	Depth to water at 25% level = 247.5		
6	180			
7	190			
8	200	Base area of pit (m ²) = 0.200		
9	210	Eff area of loss 75 - 25% (m ²) = 0.389		
10	220	Volume outflow 75 - 25% (m ³) = 0.021		
12	230			
15	240	From the graph:		
20	250	tp 75 (min) = 2		
25	260	tp 25 (min) = 19		
30	270			
40	300			
		Soil infiltration rate, f, (m/s) =	5.29E-05	normal test
		Time for 1mm (Vp) =		Seconds
		Input by:	DS	Date: 26/10/2023
		Checked by:	PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 45). Series 1 (blue diamonds) shows the water table depth over time, starting at 90 mm at 0 minutes and reaching 300 mm at 40 minutes. The 75% value (yellow triangles) is constant at 142.5 mm. The 25% value (green squares) is constant at 247.5 mm.</p>				
Notes				
Test pit from 1.00m to 1.30mbgl.				

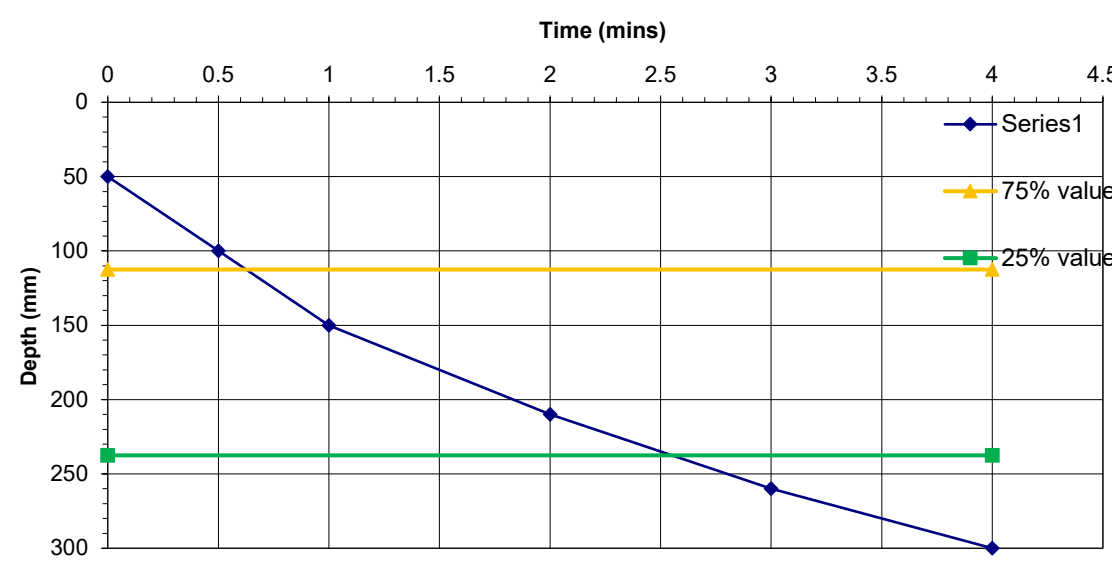
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP12: Test 3
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.50
0	110		Width (m) = 0.40
0.5	130		Depth (m) = 0.30
1	140		
2	150	Depth to water at start of test =	110.0
3	170	Depth to base of pit =	300.0
4	180	Depth to water at 75% level =	157.5
5	190	Depth to water at 50% level =	205.0
10	210	Depth to water at 25% level =	252.5
15	230		
20	240	Base area of pit (m ²) =	0.200
25	250	Eff area of loss 75 - 25% (m ²) =	0.371
30	258	Volume outflow 75 - 25% (m ³) =	0.019
		From the graph:	
		tp 75 (min) =	2.25
		tp 25 (min) =	27
		Soil infiltration rate, f, (m/s) =	3.45E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300, increasing downwards) against Time (mins) on the x-axis (0 to 35). Series1 (blue diamonds) shows the water table depth over time, starting at 110mm at 0 minutes and reaching 258mm at 30 minutes. The 75% value (yellow triangles) is a horizontal line at 157.5mm. The 25% value (green squares) is a horizontal line at 252.5mm.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

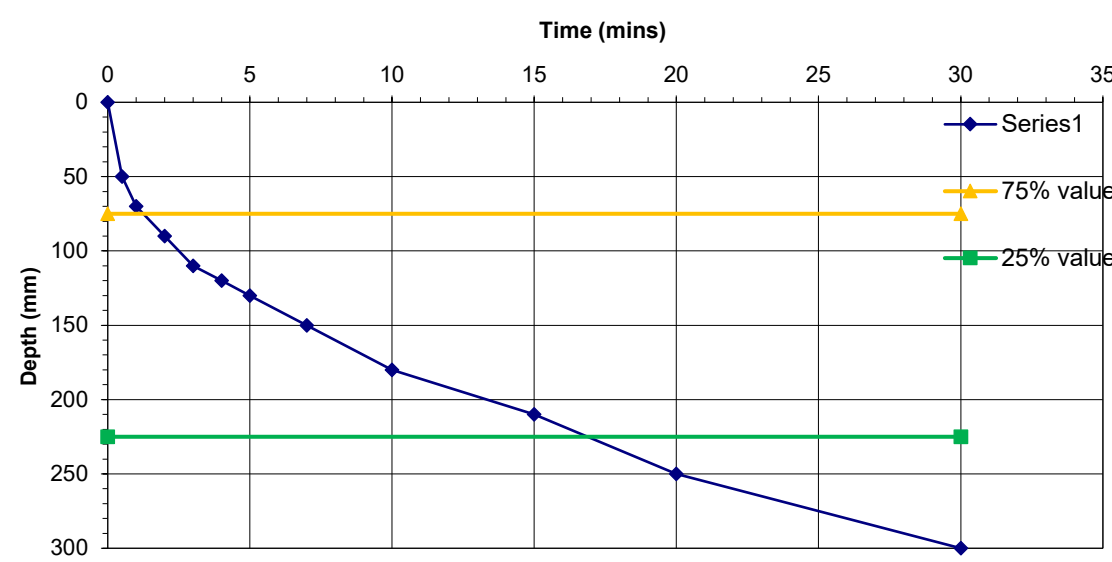
SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP13: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	0		Width (m) = 0.30
0.5	10		Depth (m) = 0.30
1	40	Depth to water at start of test = 0.0	
1.5	60	Depth to base of pit = 300.0	
2	90	Depth to water at 75% level = 75.0	
3	100	Depth to water at 50% level = 150.0	
4	110	Depth to water at 25% level = 225.0	
5	120		
10	130		
15	140	Base area of pit (m ²) = 0.090	
20	160	Eff area of loss 75 - 25% (m ²) = 0.270	
25	180	Volume outflow 75 - 25% (m ³) = 0.014	
30	190		
40	200	From the graph:	
50	210	tp 75 (min) = 1.6	
60	220	tp 25 (min) = 77	
75	220		
89	240		
		Soil infiltration rate, f, (m/s) =	1.11E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023



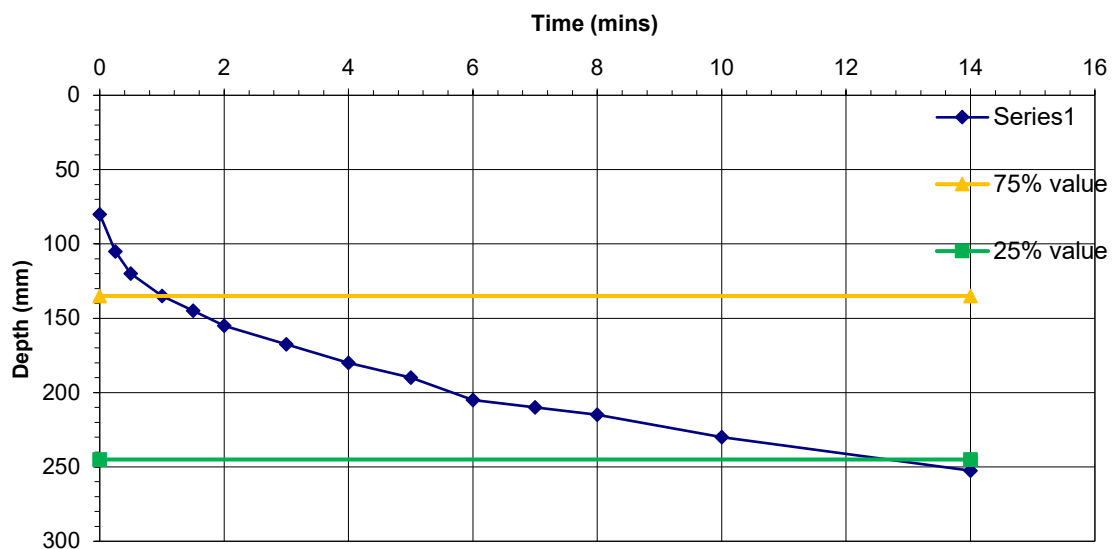
Notes

Test pit from 1.00m to 1.30mbgl.

SOIL PERCOLATION TEST					
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008					
Client:	Dallas Burston Property Limited				
Site:	Brixworth Percolation Testing				
Job No:	2221120	Test No:	TP14: Test 1		
CALCULATION OF SOIL INFILTRATION RATE					
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) =	0.30	
0	50		Width (m) =	0.30	
0.5	100		Depth (m) =	0.30	
1	150				
2	210	Depth to water at start of test =	50.0		
3	260	Depth to base of pit =	300.0		
4	300	Depth to water at 75% level =	112.5		
		Depth to water at 50% level =	175.0		
		Depth to water at 25% level =	237.5		
		Base area of pit (m ²) =	0.090		
		Eff area of loss 75 - 25% (m ²) =	0.240		
		Volume outflow 75 - 25% (m ³) =	0.011		
		From the graph:			
		tp 75 (min) =	0.65		
		tp 25 (min) =	2.55		
		Soil infiltration rate, f, (m/s) =	4.11E-04	normal test	
		Time for 1mm (Vp) =		Seconds	
		Input by:	DS	Date:	26/10/2023
		Checked by:	PB	Date:	30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 4.5). Series1 (blue diamonds) shows a curve starting at (0, 50) and passing through (0.5, 100), (1, 150), (2, 210), (3, 260), and (4, 300). The 75% value (yellow triangles) is a horizontal line at 112.5 mm. The 25% value (green squares) is a horizontal line at 237.5 mm.</p>					
Notes					
Test pit from 1.00m to 1.30mbgl.					

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP14: Test 2
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.30
0	0		Width (m) = 0.30
0.5	50		Depth (m) = 0.30
1	70		
2	90	Depth to water at start of test =	0.0
3	110	Depth to base of pit =	300.0
4	120	Depth to water at 75% level =	75.0
5	130	Depth to water at 50% level =	150.0
7	150	Depth to water at 25% level =	225.0
10	180		
15	210	Base area of pit (m ²) =	0.090
20	250	Eff area of loss 75 - 25% (m ²) =	0.270
30	300	Volume outflow 75 - 25% (m ³) =	0.014
		From the graph:	
		tp 75 (min) =	1.1
		tp 25 (min) =	17
		Soil infiltration rate, f, (m/s) =	5.24E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by:	DS Date: 26/10/2023
		Checked by:	PB Date: 30/10/2023
 <p>The graph plots Depth (mm) on the y-axis (0 to 300) against Time (mins) on the x-axis (0 to 35). Series 1 (blue diamonds) shows a curve starting at (0,0) and passing through points like (0.5, 50), (1, 70), (2, 90), (3, 110), (4, 120), (5, 130), (7, 150), (10, 180), (15, 210), (20, 250), and (30, 300). A horizontal yellow line at 75 mm depth intersects the curve at approximately 1.1 minutes. A horizontal green line at 225 mm depth intersects the curve at approximately 17 minutes.</p>			
Notes			
Test pit from 1.00m to 1.30mbgl.			

SOIL PERCOLATION TEST			
Building Regulations: 2000: Approved Document H and BS6297+A1: 2008			
Client:	Dallas Burston Property Limited		
Site:	Brixworth Percolation Testing		
Job No:	2221120	Test No:	TP15: Test 1
CALCULATION OF SOIL INFILTRATION RATE			
Time (mins)	Depth (mm)	Size of Trial Pit	Length (m) = 0.35
0	80		Width (m) = 0.35
0.25	105		Depth (m) = 0.30
0.5	120		
1	135	Depth to water at start of test =	80.0
1.5	145	Depth to base of pit =	300.0
2	155	Depth to water at 75% level =	135.0
3	167.5	Depth to water at 50% level =	190.0
4	180	Depth to water at 25% level =	245.0
5	190		
6	205	Base area of pit (m ²) =	0.123
7	210	Eff area of loss 75 - 25% (m ²) =	0.277
8	215	Volume outflow 75 - 25% (m ³) =	0.013
10	230		
14	252.5		
		From the graph:	
		tp 75 (min) =	1
		tp 25 (min) =	12.8
		Soil infiltration rate, f, (m/s) =	6.88E-05 normal test
		Time for 1mm (Vp) =	Seconds
		Input by: DS	Date: 26/10/2023
		Checked by: PB	Date: 30/10/2023



Notes

Test pit from 1.00m to 1.30mbgl.



- Coventry
- Glasgow
- Hemel Hempstead
- Newcastle-upon-Tyne
- Warrington
- Washington