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9th April 2026

ref: A11594-4/260330/L1

James Whelan
Lovell (South Wales & West)
Unit 5
Cae Gwyrdd
Greenmeadow Springs Business Park
Tongwynlais
Cardiff
CF15 7AB

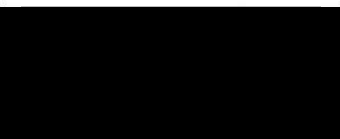
By email only: James.Whelan@lovell.co.uk

Dear James,

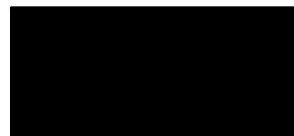
RE: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ – Additional Infiltration Testing

Omnia were commissioned by Lovell (South Wales & West), to undertake additional infiltration testing in full accordance with BRE Digest 365 – Soakaway Design at the above referenced site. Please find set out below a summary of on-site observations from site works undertaken from Monday the 23rd of March 2026 to Thursday the 26th of March 2026, including presentation of testing data.

Yours sincerely,



Maria Shtereva
**Graduate Geo-Environmental
Consultant**



Hannah Spurling
Senior Geo-Environmental Consultant

Attachments:

- Appendix I: Limitations
- Appendix II: Figures
- Appendix III: Logs
- Appendix IV: In-situ Soakaway Certificates

Quality Assurance

Project Number: A11594-4						
April 2026						
 Geo-Environmental	Infiltration Testing Letter Report					
	Prepared by:	M. Shtereva	Date:	30/01/2026	Signature:	
		C. Marshall		01/04/2026		
	Reviewed by:	H. Spurling	Date:	07/04/2026	Signature:	
	Authorised by:	H. Spurling	Date:	09/04/2026	Signature:	

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Site Address	South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ
National Grid Reference	407751, 187220
Site Area	5.22 ha

1.0 BACKGROUND

The area of investigation is located in the western edge of Purton village, south of Pavenhill Road and west of Ringsbury Close comprising at the time of the site works (March 2026) an agricultural field as set out within Figure 1.0 (Appendix II). Soakaway testing was completed on-site previously by Omnia (Ref: A11594/210920/L1) yielding infiltration rates ranging between 1.95×10^{-4} to 4.80×10^{-6} m/s at test locations specified by the drainage engineers, Abley Letchford Partnership Ltd.

Since then, Lovell (South Wales & West) have had the referenced site under option and are in the process of investigating constraints and opportunities and have requested a further round of soakage testing to be undertaken to help inform their drainage strategy.

It is understood that the proposed development comprises an outline planning application for a residential development comprising up to 60 dwellings presented as Figure 2.0 within Appendix II.

Soakaway testing was undertaken from Monday 23rd March 2026 to Thursday 26th of March 2026 within the test locations presented as Figure 3.0 in Appendix II.

2.0 GEOLOGY & HYDROGEOLOGY

The British Geological Survey (BGS) map for the site, Swindon (Sheet 252, 1:50,000 Solid and Drift, 1997) indicates that the site is underlain by the following geological sequence:

Table 2-1 Geological sequence on-site

Geological Unit	Formation Name	Description
Superficial	No Superficial Deposits recorded.	
Bedrock	Stanford Formation (previously known as 'Coral Rag')	Stanford Formation (previously known as 'Coral Rag')

3.0 GROUND CONDITIONS ENCOUNTERED

3.1 Topsoil

Topsoil was encountered within all locations to a maximum depth of 0.40m bgl (OFS-B), and an average Topsoil thickness of 0.31m across site. The Topsoil comprised of grass over brown clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone.

3.2 Bedrock Deposits – Stanford Formation

Soils attributed to the Stanford Formation were encountered within all seven (7no.) locations (OFS-A – OFS-B, ONS-1 – ONS5), to a maximum observed depth of 3.00m bgl (ONS-1).

Typically, the Stanford Formation was described light brown mottled orangish-brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel was subangular to subrounded fine to coarse limestone. Sand underlying this was described as having cobbles and occasional boulders of subangular limestone.

With location ONS-1, gravelly sand was encountered at 2.40m bgl noted to comprise orange gravelly fine to coarse SAND. Gravel was fine to coarse subangular to subrounded ironstone and limestone.

The base of the bedrock deposit was not encountered during this investigation.

3.3 Groundwater Conditions

Groundwater was not encountered within any intrusive location.

Exploratory hole logs are included within Appendix III of this report.

4.0 BRE DG365 Soakaway Testing

Soakaway testing was undertaken between 23rd March and 26th March 2026 within OFS-A – OFS-B and ONS-1 – ONS-5.

The soakaway test certificates, including full time and depth data, are included within Appendix IV with the test results summarised in Table 4.1.

Table 4-1 Summary of Infiltration rate

Location	Test Number	Pit Dimensions (L x W x D)	Depth to fill (m bgl)	Strata Type	Duration of Test (hrs:mins:seconds)	Infiltration Rate (m/s)
OFS-A	1	2.30x0.40x2.50	2.87	Standford Formation (Sand)	00:30:00	5.03x10 ⁻⁵
	2		2.85		00:30:00	4.17x10 ⁻⁵
	3		2.82		00:30:00	4.11x10 ⁻⁵
OFS-B	1	2.30x0.40x2.50	2.89	Standford Formation (Sand)	00:11:00	1.03x10 ⁻⁴
	2		2.88		00:13:00	8.93x10 ⁻⁵
	3		2.86		00:14:00	8.85x10 ⁻⁵
ONS-1	1	2.30x0.40x3.00	2.78	Standford Formation (Sand)	00:30:00	2.75x10 ⁻⁵
	2		2.80		00:50:00	1.32x10 ⁻⁵
	3		2.76		00:50:00	2.51x10 ⁻⁵
ONS-2	1	2.30x0.40x2.50	2.88	Standford Formation (Sand)	00:04:00	2.49x10 ⁻⁴
	2		2.90		00:04:00	3.03x10 ⁻⁴
	3		2.90		00:04:00	2.45x10 ⁻⁴
ONS-3	1	2.30x0.40x2.50	2.96	Standford Formation (Sand)	00:03:30	2.41x10 ⁻⁴
	2		2.94		00:03:00	3.85x10 ⁻⁴
	3		2.92		00:03:30	2.54x10 ⁻⁴
ONS-4	1	2.30x0.40x2.50	2.91	Standford Formation (Sand)	00:03:30	3.71x10 ⁻⁴
	2		2.90		00:03:00	4.10x10 ⁻⁴
	3		2.87		00:04:00	3.76x10 ⁻⁴
ONS-5	1	2.30x0.40x2.50	No head of water obtained	Standford Formation (Sand)	00:07:00	2000litres of water added to location over a period of 7 minutes with no head of water obtained.
	2				00:08:00	2000litres of water added to location over a period of 8 minutes with no head of water obtained.
	3				00:08:00	2000litres of water added to location over a period of 8 minutes with no head of water obtained.

Testing was undertaken within OFS-A – OFS-B and ONS-1 – ONS-5 over a duration of between 00:03 and 00:50 (hours: minutes). During these periods, the required 25% and 75% effective storage depth intercepts were reached within all locations, excluding ONS-5, such that the tests were considered to be successful, providing soil infiltration rates ranging from 1.32×10^{-5} to 4.10×10^{-4} m/s. ONS-5 drained rapidly that no head of water could be obtained however, information on volume of water infiltrated, and time taken for the bowser to empty were recorded for these tests.

5.0 DISCUSSION & CONCLUSIONS

During the soakaway testing, seven (7no.) successful tests were undertaken in each of the successful trial pits in succession to ensure full saturation of surrounding soils, with all reaching the 25% and 75% effective storage depth intercepts. As a result, soil infiltration rates were able to be calculated and ranged from 1.32×10^{-5} to 4.10×10^{-4} m/s indicating low to medium permeability soil with good drainage conditions. Infiltration testing of ONS-5 did not provide soil infiltration rates and it is recommended that a qualified drainage engineer is supplied with the details of this test.

Given the infiltration rates within the near surface granular Stanford Formation the site is likely to prove suitable for conventional soakaway design within locations OFS-A – OFB-B and ONS-1 – ONS-5, and it is recommended that a qualified drainage engineer is provided with the results of this testing for further discussion.

The application of soakaway drainage will ultimately be dependent on the specific requirements of the development. All soakaways should be designed in accordance with BRE Special Digest 365-Soakaway Design.

END OF REPORT

APPENDIX I

LIMITATIONS

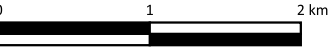
1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between OE Ltd and the Client as indicated in Section 1.2.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information, it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination, which are enforced, by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
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APPENDIX II

FIGURES

Key

Site Boundary



Scale
1:50,000

Paper Size
A4

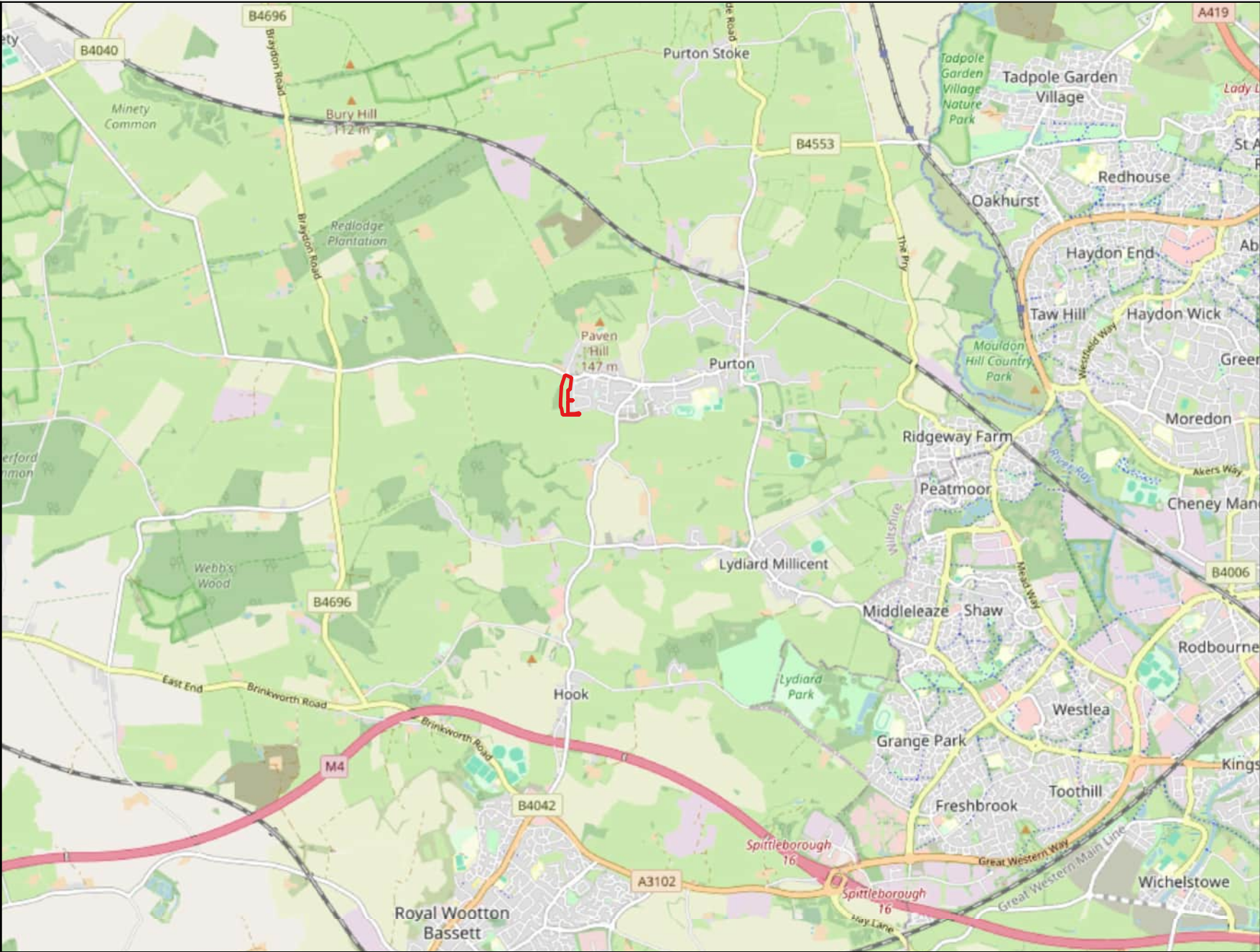
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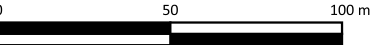
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Job Title: South Pavenhill Farm, Purton, Additional Soakaways	Client: Lovell (South Wales & West)	Project Number: A11594-4	Date: 09/04/2026	Drawing Title: Figure 1.0 Site Location Plan
		Drawn By: C. Marshall	Authorised By: H. Spurling	

Key

Site Boundary



Scale

1:2,200

Paper Size

A4

Contains client supplied drawing produced by Lovell (Ref PAVE-25-04-SK06 - Sketch Scheme - 27.03.26-Sketch Scheme, dated march 2026.

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Job Title:
South Pavenhill Farm, Purton,
Additional Soakaways

Client:
Lovell (South Wales & West)

Project Number:
A11594-4

Drawn By:
C. Marshall

Date:
09/04/2026

Authorised By:
H. Spurling

Drawing Title:
Figure 2.0
Proposed Development Plan



Key

Site Boundary

SA location 03.26

Water pipe

Overhead Power cable

BT cable

Scale	Paper Size
1:3,500	A4

Contains © OpenStreetMap contributors

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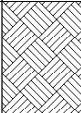
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Job Title: South Pavenhill Farm, Purton Additkonal Soakaways	Client: Lovell	Project Number: A11594-4	Date: 19/02/2026	Drawing Title: Figure 3.0 Intrusive Location Plan
		Drawn By: A. Dodds	Authorised By: H. Spurling	

APPENDIX III INTRUSIVE LOGS

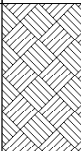
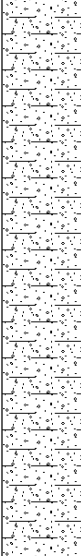
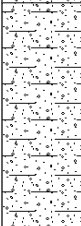
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Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): Depth 2.50 0.4 2.3		Scale 1:20 Logged AD	
Client: Lovell (South Wales & West)									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30	136.02		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]	
								Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]
				2.20	134.12			Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]
				2.50	133.82		End of pit at 2.50 m	

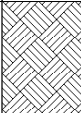
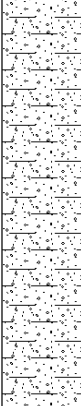
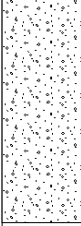
Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.



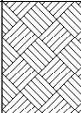
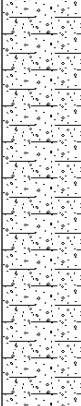
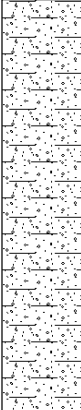
Stability: STABLE

				Trial Pit Log			Trialpit No OFS-B Sheet 1 of 1		
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407814.70 - 187110.84 Level: 137.03		Date 25/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): 0.4 2.3		Scale 1:20	
Client: Lovell (South Wales & West)						Depth 2.50		Logged AD	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.40	136.63		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]		
				1.90	135.13		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
				2.50	134.53		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
							End of pit at 2.50 m		
Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.									
Stability: STABLE									



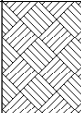
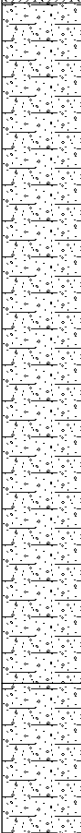
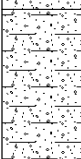
				Trial Pit Log				Trialpit No ONS-1 Sheet 1 of 1	
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407777.50 - 187538.63 Level: 140.31		Date 24/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): 2.3 0.4		Scale 1:20	
Client: Lovell (South Wales & West)						Depth 3.00		Logged AD	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	140.01		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]		
				1.40	138.91		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
				2.40	137.91		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and frequent boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
				3.00	137.31		Orange gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded ironstone and limestone. [STANFORD FORMATION]		
							End of pit at 3.00 m		
Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.									
Stability: STABLE									



				Trial Pit Log				Trialpit No ONS-2 Sheet 1 of 1	
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407742.84 - 187495.29 Level: 139.45		Date 24/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): Depth 2.50 0.4 2.3		Scale 1:20 Logged AD	
Client: Lovell (South Wales & West)									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	139.15		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]		
				1.40	138.05		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
				2.50	136.95		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
							End of pit at 2.50 m		
Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.									
Stability: STABLE									



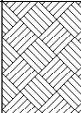
				Trial Pit Log				Trialpit No ONS-3 Sheet 1 of 1	
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407737.40 - 187439.27 Level: 138.01		Date 24/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): Depth 2.50 0.4 2.3		Scale 1:20 Logged AD	
Client: Lovell (South Wales & West)									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30	137.71		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]	
								Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]
				2.10	135.91		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]	2
				2.50	135.51			End of pit at 2.50 m
								4

Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.

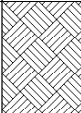
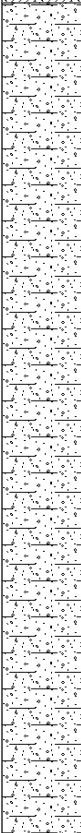
Stability: STABLE



				Trial Pit Log			Trialpit No ONS-4 Sheet 1 of 1		
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407753.86 - 187381.16 Level: 137.65		Date 24/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): 2.3 Depth 2.50		Scale 1:20 Logged AD	
Client: Lovell (South Wales & West)									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.30	137.35		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]		
				1.60	136.05		Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]		
				2.50	135.15		End of pit at 2.50 m		
Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered.									
Stability: STABLE									



				Trial Pit Log				Trialpit No ONS-5 Sheet 1 of 1	
Project Name: Souh Pavenhill, Purton				Project No. A11594-4		Co-ords: 407724.03 - 187304.37 Level: 135.40		Date 24/03/2026	
Location: South Pavenhill Farm, Purton, Wiltshire, SN5 4DQ						Dimensions (m): Depth 2.50 0.4 2.3		Scale 1:20 Logged AD	
Client: Lovell (South Wales & West)									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30	135.10		Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone. [TOPSOIL]	
								Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]
				2.50	132.90		End of pit at 2.50 m	

Remarks: 1. Position scanned with calibrated CAT & 'Genny' prior to excavation. 2. No groundwater encountered. 2. No groundwater encountered.

 Stability: STABLE



APPENDIX IV
SOAKAWAY TESTING CERTIFICATES

Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	OFS-A	Test Number:	1
What 3 Words:	improving.brisk.educates		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.13

ap 50	3.971	m ²
Vp75-25	0.16	m ³
t75-25	13.0	min
Volume of water used	0.31	m ³
Soil Infiltration Rate (f)	5.03E-05	m/sec.

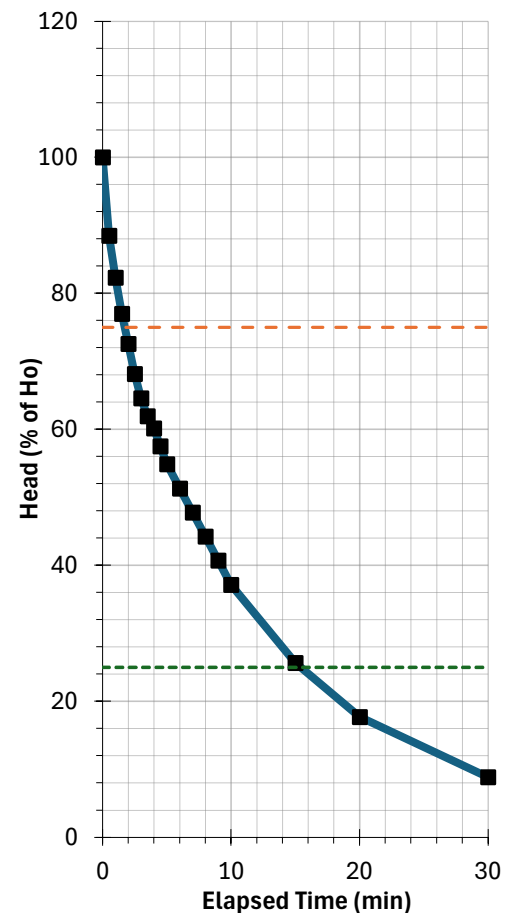
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-2.20m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]

2.20-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1.37	0.00	100.00	1.13
1.50	0.50	88.50	1.00
1.57	1.00	82.30	0.93
1.63	1.50	76.99	0.87
1.68	2.00	72.57	0.82
1.73	2.50	68.14	0.77
1.77	3.00	64.60	0.73
1.80	3.50	61.95	0.70
1.82	4.00	60.18	0.68
1.85	4.50	57.52	0.65
1.88	5.00	54.87	0.62
1.92	6.00	51.33	0.58
1.96	7.00	47.79	0.54
2.00	8.00	44.25	0.50
2.04	9.00	40.71	0.46
2.08	10.00	37.17	0.42
2.21	15.00	25.66	0.29
2.30	20.00	17.70	0.20
2.40	30.00	8.85	0.10
T75	2.00	mins	
T25	15.00	mins	
T75-25	13.00	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	OFS-A	Test Number:	2
What 3 Words:	improving.brisk.educates		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.23

ap 50	4.241	m ²
Vp75-25	0.17	m ³
t75-25	16.0	min
Volume of water used	0.34	m ³
Soil Infiltration Rate (f)	4.17E-05	m/sec.

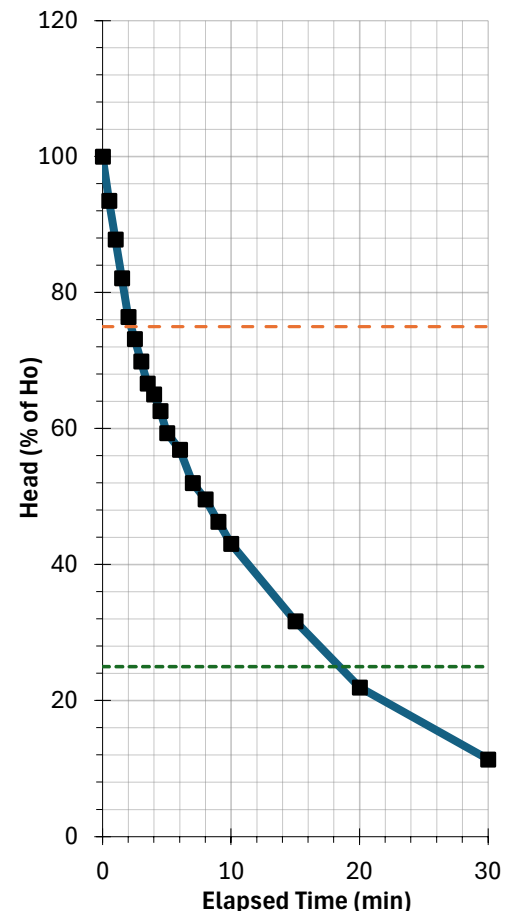
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-2.20m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANFORD FORMATION]

2.20-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [SANFORD FORMATION]

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
1.27	0.00	100.00	1.23
1.35	0.50	93.50	1.15
1.42	1.00	87.80	1.08
1.49	1.50	82.11	1.01
1.56	2.00	76.42	0.94
1.60	2.50	73.17	0.90
1.64	3.00	69.92	0.86
1.68	3.50	66.67	0.82
1.70	4.00	65.04	0.80
1.73	4.50	62.60	0.77
1.77	5.00	59.35	0.73
1.80	6.00	56.91	0.70
1.86	7.00	52.03	0.64
1.89	8.00	49.59	0.61
1.93	9.00	46.34	0.57
1.97	10.00	43.09	0.53
2.11	15.00	31.71	0.39
2.23	20.00	21.95	0.27
2.36	30.00	11.38	0.14
T75	2.00	mins	
T25	18.00	mins	
T75-25	16.00	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	OFS-A	Test Number:	3
What 3 Words:	improving.brisk.educates		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.41

ap 50	4.727	m ²
Vp75-25	0.19	m ³
t75-25	16.7	min
Volume of water used	0.39	m ³
Soil Infiltration Rate (f)	4.11E-05	m/sec.

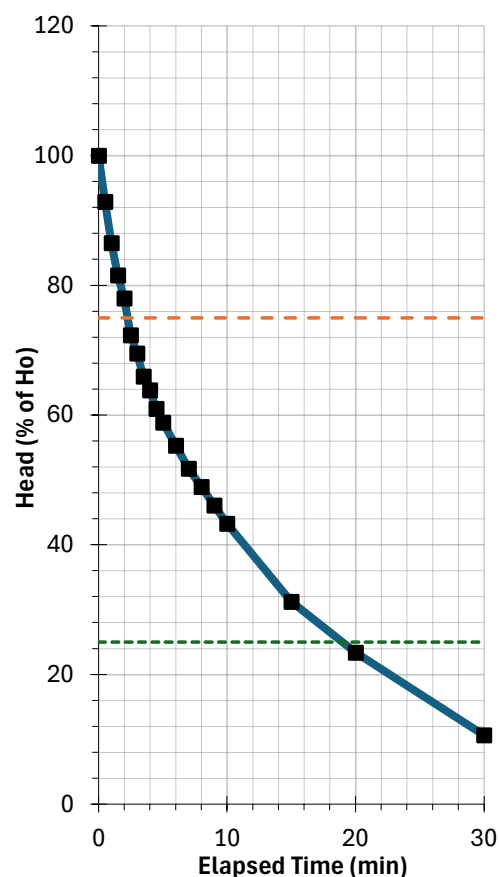
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-2.20m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [SANDFORD FORMATION]

2.20-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.09	0.00	100.00	1.41
1.19	0.50	92.91	1.31
1.28	1.00	86.52	1.22
1.35	1.50	81.56	1.15
1.40	2.00	78.01	1.10
1.48	2.50	72.34	1.02
1.52	3.00	69.50	0.98
1.57	3.50	65.96	0.93
1.60	4.00	63.83	0.90
1.64	4.50	60.99	0.86
1.67	5.00	58.87	0.83
1.72	6.00	55.32	0.78
1.77	7.00	51.77	0.73
1.81	8.00	48.94	0.69
1.85	9.00	46.10	0.65
1.89	10.00	43.26	0.61
2.06	15.00	31.21	0.44
2.17	20.00	23.40	0.33
2.35	30.00	10.64	0.15
T75	2.30	mins	
T25	19.00	mins	
T75-25	16.70	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	OFS-B	Test Number:	1
What 3 Words:	plans.ownership.fitter		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.04

ap 50	3.728	m ²
Vp75-25	0.14	m ³
t75-25	6.2	min
Volume of water used	0.29	m ³
Soil Infiltration Rate (f)	1.03E-04	m/sec.

Trial Hole Log:

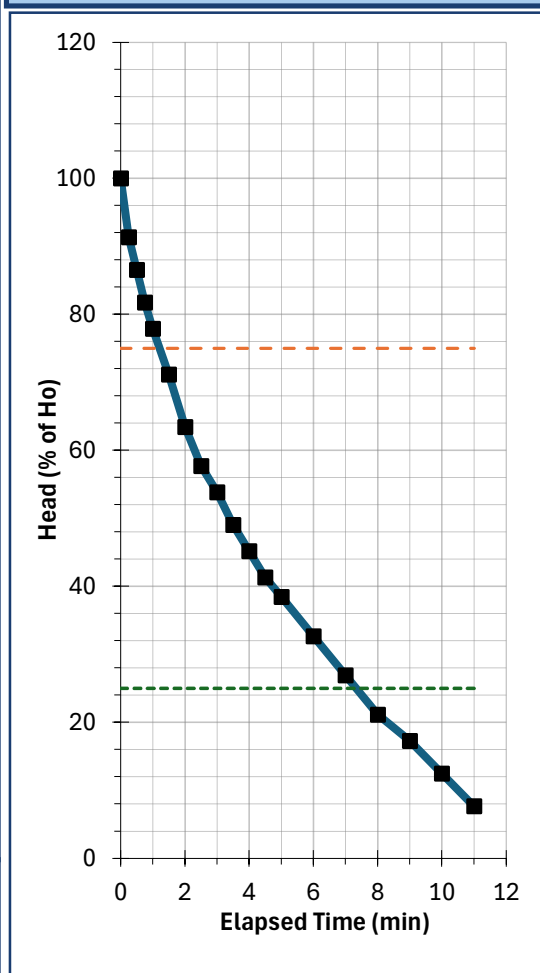
0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.90m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone.
Gravel is subangular to subrounded fine to coarse limestone.

[STANDFORD FORMATION]

1.90-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. (STANDFORD FORMATION)

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.46	0.00	100.00	1.04
1.55	0.25	91.35	0.95
1.60	0.50	86.54	0.90
1.65	0.75	81.73	0.85
1.69	1.00	77.88	0.81
1.76	1.50	71.15	0.74
1.84	2.00	63.46	0.66
1.90	2.50	57.69	0.60
1.94	3.00	53.85	0.56
1.99	3.50	49.04	0.51
2.03	4.00	45.19	0.47
2.07	4.50	41.35	0.43
2.10	5.00	38.46	0.40
2.16	6.00	32.69	0.34
2.22	7.00	26.92	0.28
2.28	8.00	21.15	0.22
2.32	9.00	17.31	0.18
2.37	10.00	12.50	0.13
2.42	11.00	7.69	0.08
T75	1.30	mins	
T25	7.50	mins	
T75-25	6.20	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	OFS-B	Test Number:	3
What 3 Words:	plans.ownership.fitter		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.20

ap 50	4.16	m ²
Vp75-25	0.17	m ³
t75-25	7.5	min
Volume of water used	0.33	m ³
Soil Infiltration Rate (f)	8.85E-05	m/sec.

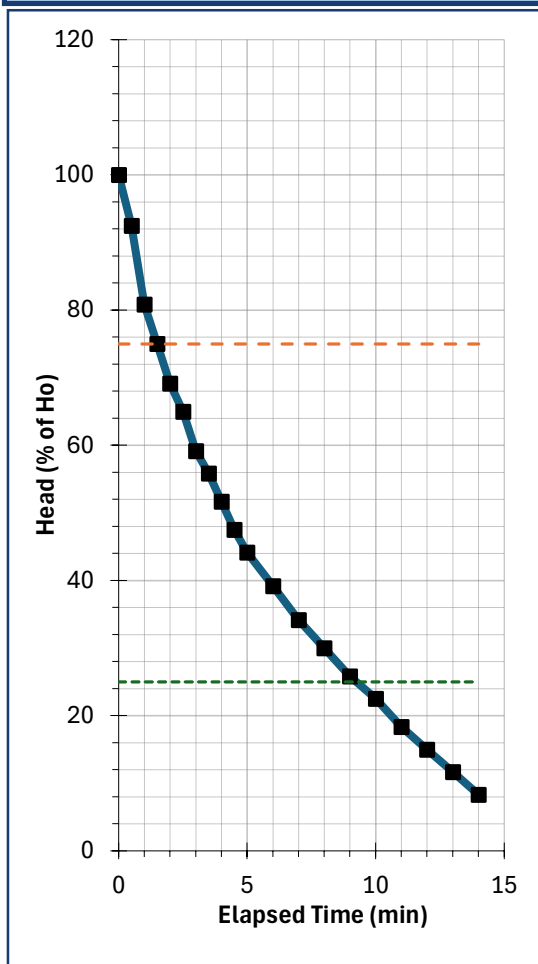
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.90m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

1.90-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.30	0.00	100.00	1.20
1.39	0.50	92.50	1.11
1.53	1.00	80.83	0.97
1.60	1.50	75.00	0.90
1.67	2.00	69.17	0.83
1.72	2.50	65.00	0.78
1.79	3.00	59.17	0.71
1.83	3.50	55.83	0.67
1.88	4.00	51.67	0.62
1.93	4.50	47.50	0.57
1.97	5.00	44.17	0.53
2.03	6.00	39.17	0.47
2.09	7.00	34.17	0.41
2.14	8.00	30.00	0.36
2.19	9.00	25.83	0.31
2.23	10.00	22.50	0.27
2.28	11.00	18.33	0.22
2.32	12.00	15.00	0.18
2.36	13.00	11.67	0.14
2.40	14.00	8.33	0.10
T75	1.50	mins	
T25	9.00	mins	
T75-25	7.50	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-1	Test Number:	1
What 3 Words:	distanced.stocky.mammoths		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	3.00	Depth of pit soaked:	1.11

ap 50	3.917	m ²
Vp75-25	0.15	m ³
t75-25	23.7	min
Volume of water used	0.31	m ³
Soil Infiltration Rate (f)	2.75E-05	m/sec.

Trial Hole Log:

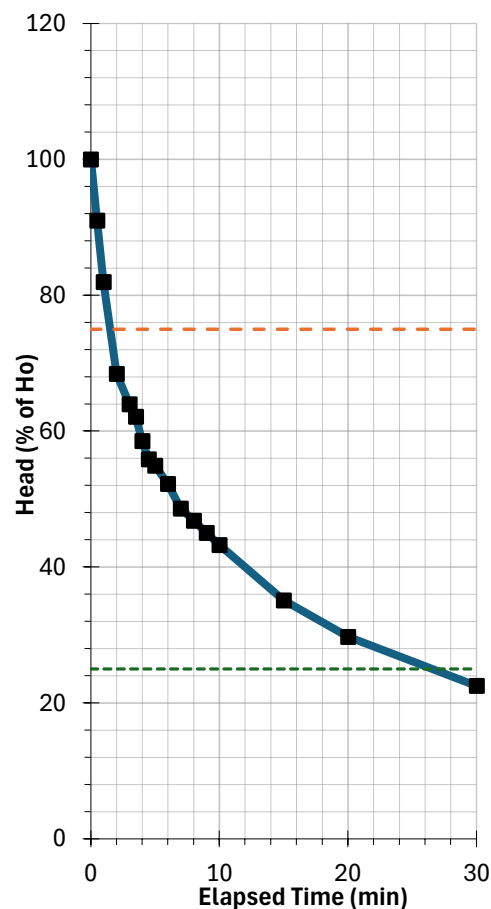
0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

1.40-2.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and frequent boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

2.40-3.00m bgl: Orange gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded ironstone and limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.89	0.00	100.00	1.11
1.99	0.50	90.99	1.01
2.09	1.00	81.98	0.91
2.24	2.00	68.47	0.76
2.29	3.00	63.96	0.71
2.31	3.50	62.16	0.69
2.35	4.00	58.56	0.65
2.38	4.50	55.86	0.62
2.39	5.00	54.95	0.61
2.42	6.00	52.25	0.58
2.46	7.00	48.65	0.54
2.48	8.00	46.85	0.52
2.50	9.00	45.05	0.50
2.52	10.00	43.24	0.48
2.61	15.00	35.14	0.39
2.67	20.00	29.73	0.33
2.75	30.00	22.52	0.25
T75	2.30	mins	
T25	26.00	mins	
T75-25	23.70	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-1	Test Number:	2
What 3 Words:	distanced.stocky.mammoths		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	3.00	Depth of pit soaked:	1.00

ap 50	3.62	m ²
Vp75-25	0.14	m ³
t75-25	48.0	min
Volume of water used	0.28	m ³
Soil Infiltration Rate (f)	1.32E-05	m/sec.

Trial Hole Log:

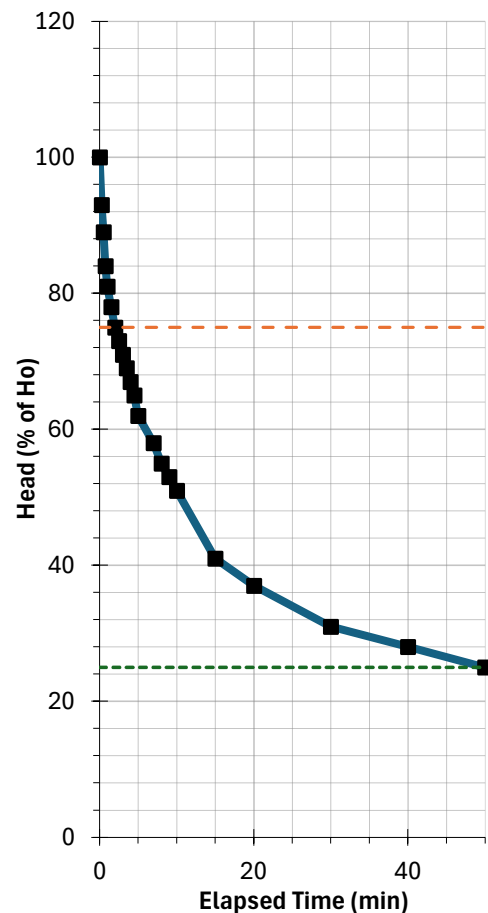
0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

1.40-2.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and frequent boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

2.40-3.00m bgl: Orange gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded ironstone and limestone. [STANDFORD FORMATION]

Depth to Water (m)	Elapsed Time (min)	Head of Water (% of Ho)	Head of Water (m)
2.00	0.00	100.00	1.00
2.07	0.25	93.00	0.93
2.11	0.50	89.00	0.89
2.16	0.75	84.00	0.84
2.19	1.00	81.00	0.81
2.22	1.50	78.00	0.78
2.25	2.00	75.00	0.75
2.27	2.50	73.00	0.73
2.29	3.00	71.00	0.71
2.31	3.50	69.00	0.69
2.33	4.00	67.00	0.67
2.35	4.50	65.00	0.65
2.38	5.00	62.00	0.62
2.42	7.00	58.00	0.58
2.45	8.00	55.00	0.55
2.47	9.00	53.00	0.53
2.49	10.00	51.00	0.51
2.59	15.00	41.00	0.41
2.63	20.00	37.00	0.37
2.69	30.00	31.00	0.31
2.72	40.00	28.00	0.28
2.75	50.00	25.00	0.25
T75	2.00	mins	
T25	50.00	mins	
T75-25	48.00	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-1	Test Number:	3
What 3 Words:	distanced.stocky.mammoths		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	3.00	Depth of pit soaked:	1.22

ap 50	4.214	m ²
Vp75-25	0.17	m ³
t75-25	26.5	min
Volume of water used	0.34	m ³
Soil Infiltration Rate (f)	2.51E-05	m/sec.

Trial Hole Log:

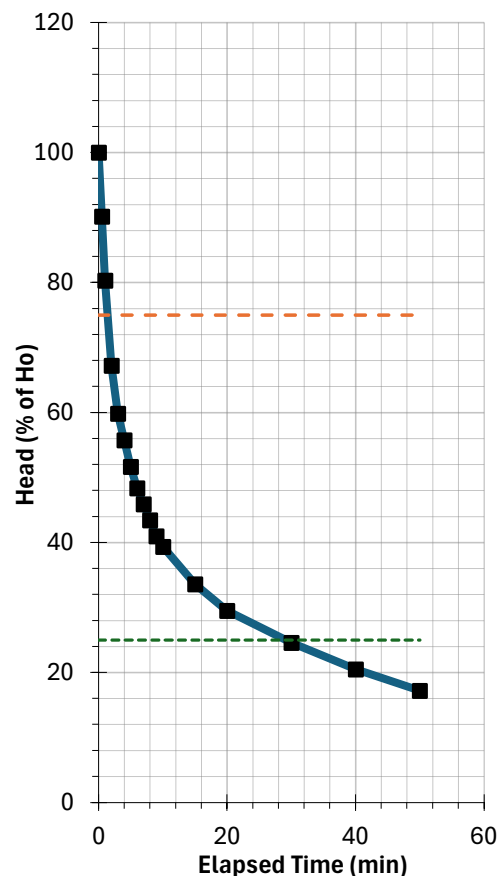
0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

1.40-2.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and frequent boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

2.40-3.00m bgl: Orange gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded ironstone and limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.78	0.00	100.00	1.22
1.90	0.50	90.16	1.10
2.02	1.00	80.33	0.98
2.18	2.00	67.21	0.82
2.27	3.00	59.84	0.73
2.32	4.00	55.74	0.68
2.37	5.00	51.64	0.63
2.41	6.00	48.36	0.59
2.44	7.00	45.90	0.56
2.47	8.00	43.44	0.53
2.50	9.00	40.98	0.50
2.52	10.00	39.34	0.48
2.59	15.00	33.61	0.41
2.64	20.00	29.51	0.36
2.70	30.00	24.59	0.30
2.75	40.00	20.49	0.25
2.79	50.00	17.21	0.21
T75	3.50	mins	
T25	30.00	mins	
T75-25	26.50	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-2	Test Number:	1
What 3 Words:	custom.skimmers.bought		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.08

ap 50	3.836	m ²
Vp75-25	0.15	m ³
t75-25	2.6	min
Volume of water used	0.30	m ³
Soil Infiltration Rate (f)	2.49E-04	m/sec.

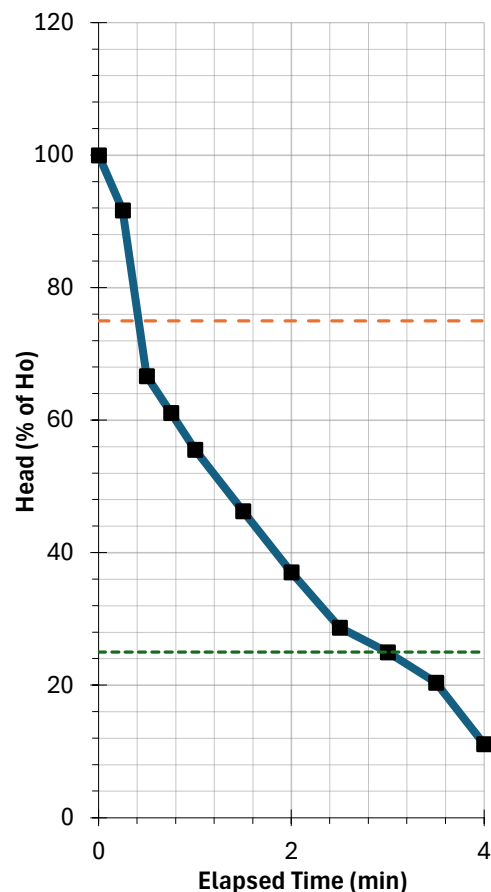
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.40m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

1.40-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.42	0.00	100.00	1.08
1.51	0.25	91.67	0.99
1.78	0.50	66.67	0.72
1.84	0.75	61.11	0.66
1.90	1.00	55.56	0.60
2.00	1.50	46.30	0.50
2.10	2.00	37.04	0.40
2.19	2.50	28.70	0.31
2.23	3.00	25.00	0.27
2.28	3.50	20.37	0.22
2.38	4.00	11.11	0.12
T75	0.40	mins	
T25	3.00	mins	
T75-25	2.60	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-3	Test Number:	1
What 3 Words:	motel.triathlon.requiring		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Voids Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	0.68

ap 50	2.756	m ²
Vp75-25	0.09	m ³
t75-25	2.4	min
Volume of water used	0.19	m ³
Soil Infiltration Rate (f)	2.41E-04	m/sec.

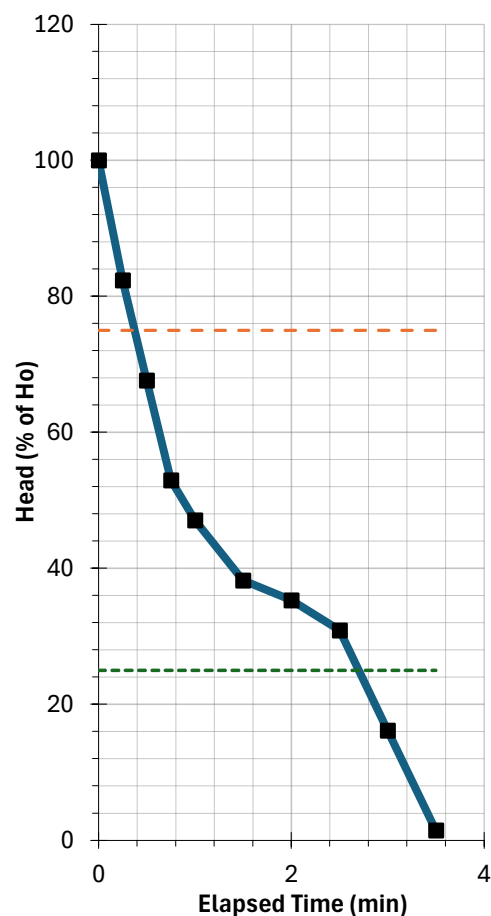
Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular fine to coarse gravel of limestone.
[TOPSOIL]

0.30-2.10m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone.
Gravel is subangular to subrounded fine to coarse limestone.
[STANDFORD FORMATION]

2.10-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.82	0.00	100.00	0.68
1.94	0.25	82.35	0.56
2.04	0.50	67.65	0.46
2.14	0.75	52.94	0.36
2.18	1.00	47.06	0.32
2.24	1.50	38.24	0.26
2.26	2.00	35.29	0.24
2.29	2.50	30.88	0.21
2.39	3.00	16.18	0.11
2.49	3.50	1.47	0.01
T75	0.40	mins	
T25	2.75	mins	
T75-25	2.35	mins	



The graph shows the relationship between the head of a turbine and the elapsed time. The head starts at 100% of H_o at 0 minutes and decreases as time increases. Two horizontal dashed lines are drawn at 75% and 25% head, representing specific operating points.

Elapsed Time (min)	Head (% of H_o)
0	100
0.2	90
0.4	70
0.6	52
1.0	40
1.5	31
2.0	25
2.5	12
3.0	0

Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-3	Test Number:	3
What 3 Words:	motel.triathlon.requiring		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	0.89

ap 50	3.323	m ²
Vp75-25	0.12	m ³
t75-25	2.4	min
Volume of water used	0.25	m ³
Soil Infiltration Rate (f)	2.54E-04	m/sec.

Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

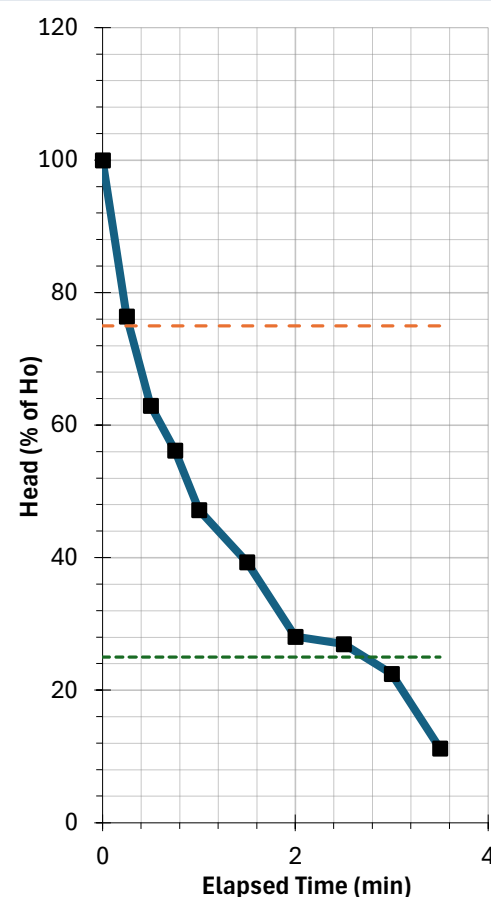
0.30-2.10m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone.

Gravel is subangular to subrounded fine to coarse limestone.

[STANDFORD FORMATION]

2.10-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. (STANDFORD FORMATION)

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.61	0.00	100.00	0.89
1.82	0.25	76.40	0.68
1.94	0.50	62.92	0.56
2.00	0.75	56.18	0.50
2.08	1.00	47.19	0.42
2.15	1.50	39.33	0.35
2.25	2.00	28.09	0.25
2.26	2.50	26.97	0.24
2.30	3.00	22.47	0.20
2.40	3.50	11.24	0.10
T75	0.27	mins	
T25	2.70	mins	
T75-25	2.43	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-4	Test Number:	1
What 3 Words:	costs.revived.slept		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	0.97

ap 50	3.539	m ²
Vp75-25	0.13	m ³
t75-25	1.7	min
Volume of water used	0.27	m ³
Soil Infiltration Rate (f)	3.71E-04	m/sec.

Trial Hole Log:

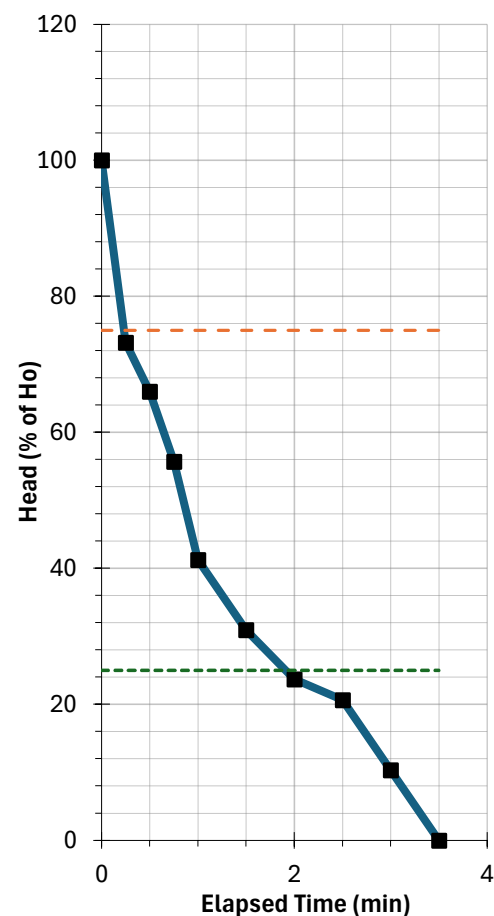
0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.60m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone.
Gravel is subangular to subrounded fine to coarse limestone.

[STANDFORD FORMATION]

1.60-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. (STANDFORD FORMATION)

Depth	Elapsed	Head of	Head of
to Water	Time	Water	Water
(m)	(min)	(% of Ho)	(m)
1.53	0.00	100.00	0.97
1.79	0.25	73.20	0.71
1.86	0.50	65.98	0.64
1.96	0.75	55.67	0.54
2.10	1.00	41.24	0.40
2.20	1.50	30.93	0.30
2.27	2.00	23.71	0.23
2.30	2.50	20.62	0.20
2.40	3.00	10.31	0.10
2.50	3.50	0.00	0.00
T75	0.20	mins	
T25	1.90	mins	
T75-25	1.70	mins	



Project Name:	South Pavenhill	Date:	24/03/2026
Project Number:	A11594-4	Engineer:	AD
Trial Pit ID:	ONS-4	Test Number:	3
What 3 Words:	costs.revived.slept		

Trial Pit Dimensions (m)			
Trial Pit Length:	2.30	Trial Pit Width:	0.40
Backfill Material:	20mm Clean Gravel	Void Ratio:	30%
Trial Pit Depth:	2.50	Depth of pit soaked:	1.16

ap 50	4.052	m ²
Vp75-25	0.16	m ³
t75-25	1.8	min
Volume of water used	0.32	m ³
Soil Infiltration Rate (f)	3.76E-04	m/sec.

Trial Hole Log:

0.00-0.30m bgl: Grass over clayey fine to coarse SAND with frequent rootlets and occasional subangular gravel of limestone. [TOPSOIL]

0.30-1.60m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone.

[STANDFORD FORMATION]

1.60-2.50m bgl: Light brown mottled orangeish brown clayey gravelly fine to coarse SAND with medium cobble content of subangular limestone and occasional boulders of subangular limestone. Gravel is subangular to subrounded fine to coarse limestone. [STANDFORD FORMATION]

[illegible]