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Disabled Facilities

8' x 8' Anti-Vandal Disabled Toilet >

- One large cubicle with handrails
- 32A commando plug
- Electric water heater
- Ramps optional for wheelchair access

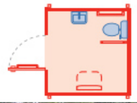






IMAGE OF PROPOSED ACCESSIBLE TOILET

20' x 10' 4 Bay Anti-Vandal Gents Toilet >

- Four cubicles
- Eight urinals
- Complete with storage cupboard, tap for cleaners & storage
- 32A commando plug
- Split water inlets for sinks & cisterns

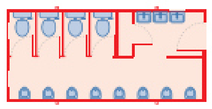




IMAGE OF PROPOSED MENS TOILETS



< 20' x 10' 7 Bay Anti-Vandal Ladies Toilet

- Seven cubicles
- Complete with storage cupboard, tap for cleaners & storage
- 32A commando plug
- Split water inlets for sinks & cisterns

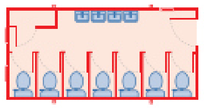


IMAGE OF PROPOSED LADIES TOILETS

NOTES
All dimensions and levels to be checked on site

Any descrepancies are to be reported to the Architect before any work commences

This drawing shall not be scaled to ascertain any dimensions, work to figured dimensions only

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P1 05.12.23 WR PLANNING ISSUE

rev no.	rev date	rev by	description

project
Kop Development

location
Racecourse Ground

Employer

client

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St Georges House
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key plan

drawing title
Temporary Stand - Proposed Toilets

AFL job number 231547 | scale @ A1 | drawn WR | checked JR | rev date 05.12.23

dwg purpose	status	rev
PLANNING	S2	P1

bim project origin zone level type role 5-digit no.
231547-AFL-Z4-ZZ-D-A-20008

Appendix 2 – Infiltration Testing

Confidential

YEX4390
Kop Stand Wrexham AFC -LL11 2AH
July 22

Dear Wrexham AFC Limited,

Please find below the results of your Infiltration testing. The information contained below is a summary of the site works carried out on 13th July 2022.

Geology

An examination of the available British Geological Survey data of the area for the site has been examined and indicates that the site has superficial drift deposits composed of Glaciofluvial Sheet Deposits (sand and gravel), and bedrock deposits recorded as the Etruria Formation (mudstone).

Fieldworks

The programme of this investigation included the excavation of two trial pits. The locations of the soakaway tests were selected by the client. During this work, the soils encountered were logged in general accordance with BS5930: 1990, as amended in 2007.

Percolation Testing

During the soakaway tests the water achieved a fall from 75% to 25% of the effective depth of the storage volume. The results obtained from the soakaway tests are summarised below:

WS	Dimensions (m)	Depth (m)	Soil Description	Infiltration Rate (m/sec)	Drainage Characteristics
TP01 test1	1.95 x 0.70	2.50	Dark brown gravelly SAND.	7.3E-4	Good
TP01 test2	1.95 x 0.70	2.50	Dark brown gravelly SAND.	4.7E-4	Good
TP01 test3	1.95 x 0.70	2.50	Dark brown gravelly SAND.	4.0E-4	Good
TP02 test1	1.80 x 0.70	2.50	Dark brown gravelly SAND.	1.4E-3	Good
TP02 test2	1.80 x 0.70	2.50	Dark brown gravelly SAND.	5.2E-4	Good
TP02 test3	1.80 x 0.70	2.50	Dark brown gravelly SAND.	4.2E-4	Good

Conclusion

The soils encountered beneath the site were found to be predominantly SAND. The soakage rates obtained during the investigation were found to be good and permeable. Given the data from the test, it is considered that the use of soakaways is suitable for this site.

References

- Building Research Establishment (BRE) Digest 365, *Soakaway Design*, September 1991.
- British Standards Institution (1999) BS5930: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1, BS5930: *Code of practice for site investigations*, B.S.I., London.

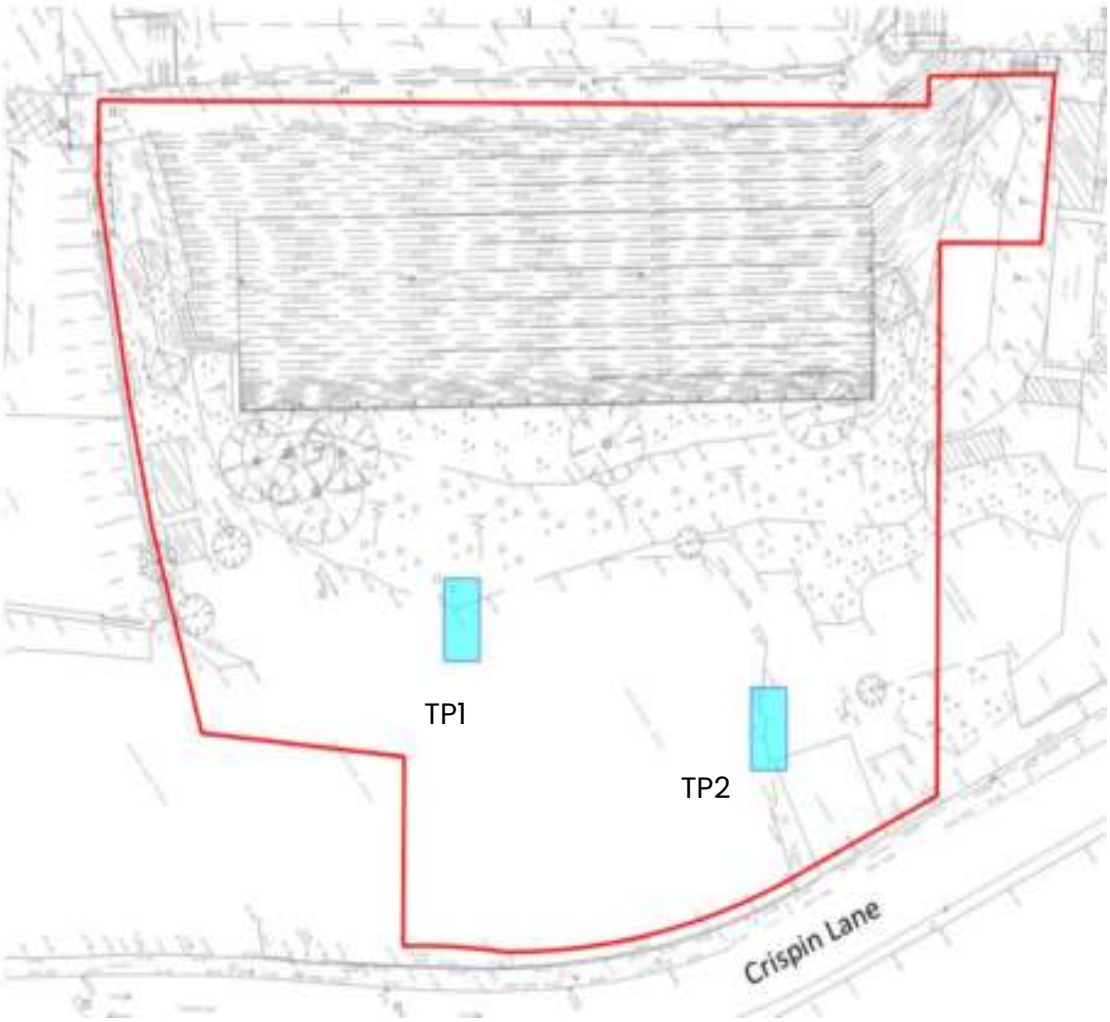
Please do contact me on 01243 787150 or 07758 162624 should you have any questions.

Regards



Nick Hammond
Geo-Environmental Engineer

Appendix A



Site Investigation Plan

YOUR ENVIRONMENT

Kop Stand - Wrexham
YEX4390
Jul-22

Appendix B

Trial Pit Log

TrialPit No: TP01
Sheet 1 of 1

Project Name: Kop Stand, Wrexham AFC	Project No. YEX4390	Co-ords: - Level:	Date 13/07/2022
Location: Mold Road, Wrexham, LL11 2AH		Dimensions (m): Depth 2.50	Scale 1:25
Client: Gardiner & Theobald			Logged LB

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND. Grey fine to coarse angular COBBLES and GRAVEL of concrete
				0.50			MADE GROUND. Blackish brown gravelly SAND containing occasional concrete, brick, metal debris and plastic bottles
							Dark brown very gravelly cobbly fine to medium SAND. Gravel is fine to coarse rounded to subangular of sandstone, mudstone and siltstone. Cobbles of sandstone.
				2.50			End of Pit at 2.50m

Remarks: No groundwater encountered. Excavation sides collapsing.

Stability:

Trial Pit Log

TrialPit No: TP02
Sheet 1 of 1

Project Name: Kop Stand, Wrexham AFC	Project No. YEX4390	Co-ords: - Level:	Date 13/07/2022
Location: Mold Road, Wrexham, LL11 2AH		Dimensions (m): Depth 2.50	Scale 1:25
Client: Gardiner & Theobald			Logged LB

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.15			MADE GROUND. Grey fine to coarse angular COBBLES and GRAVEL of concrete
				0.60			MADE GROUND. Blackish brown gravelly SAND containing occasional concrete, brick, metal debris and plastic bottles
				2.50			Dark brown very gravelly cobbly fine to medium SAND. Gravel is fine to coarse rounded to subangular of sandstone, mudstone and siltstone. Cobbles of sandstone.
							End of Pit at 2.50m

Remarks: No groundwater encountered. Excavation sides collapsing.

Stability:

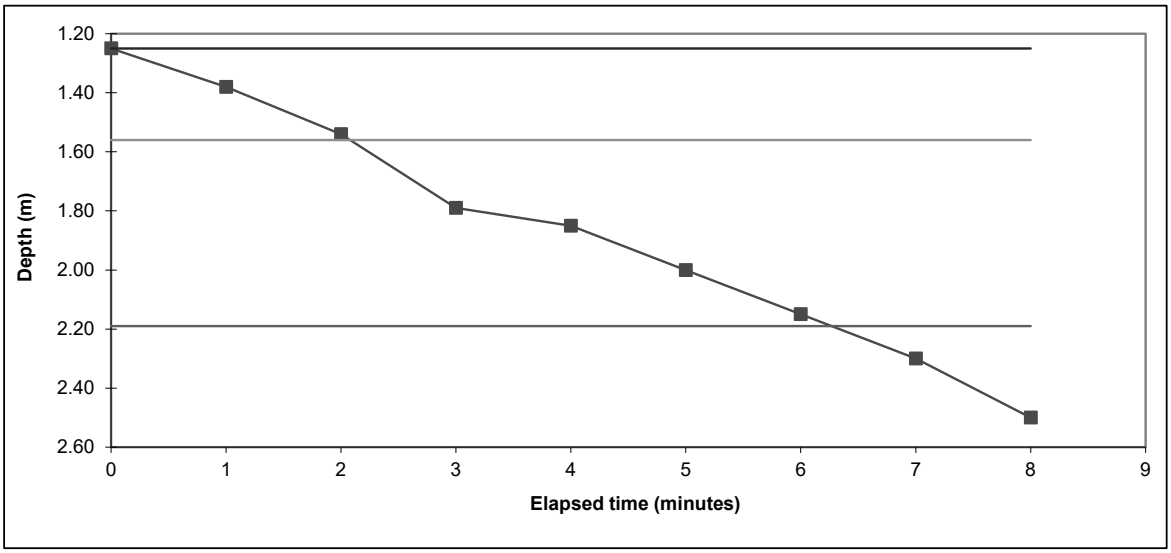
Appendix C

Your Environment

Soakaway Test

Trial Pit No:	TP01	Test No:	1	Date:	13/07/2022
Length (m):	1.950		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.250		
1	1.380		
2	1.540		
3	1.790		
4	1.850		
5	2.000		
6	2.150		
7	2.300		
8	2.500		



Start water depth for analysis (mbgl)	1.25		
75% effective depth (mbgl):	1.56	Elapsed time (mins):	2.1
50% effective depth (mbgl):	1.88		
25% effective depth (mbgl):	2.19	Elapsed time (mins):	6.3
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.860
Mean surface area of outflow (m^2):	4.65
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	4.2

Soil infiltration rate (m/s):	**7.3E-4**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

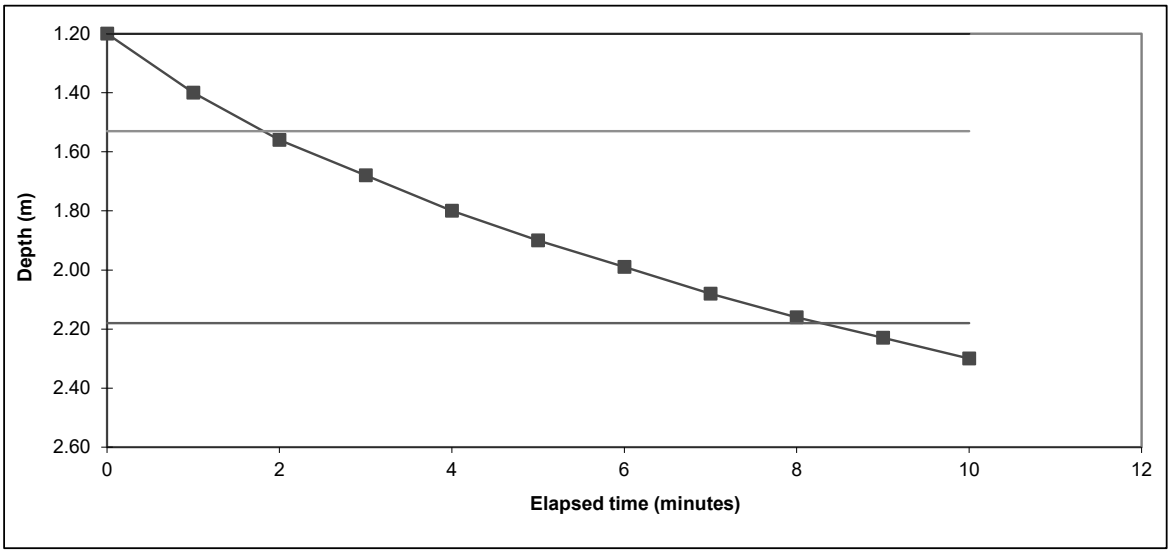
Client:	Wrexham AFC Limited	**TP01**
Site:	Kop Stand, Wrexham AFC	

Your Environment

Soakaway Test

Trial Pit No:	TP01	Test No:	2	Date:	13/07/2022
Length (m):	1.950		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.200		
1	1.400		
2	1.560		
3	1.680		
4	1.800		
5	1.900		
6	1.990		
7	2.080		
8	2.160		
9	2.230		
10	2.300		



Start water depth for analysis (mbgl)	1.20		
75% effective depth (mbgl):	1.53	Elapsed time (mins):	1.8
50% effective depth (mbgl):	1.85		
25% effective depth (mbgl):	2.18	Elapsed time (mins):	8.3
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.887
Mean surface area of outflow (m^2):	4.81
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	6.5

Soil infiltration rate (m/s):	**4.7E-4**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

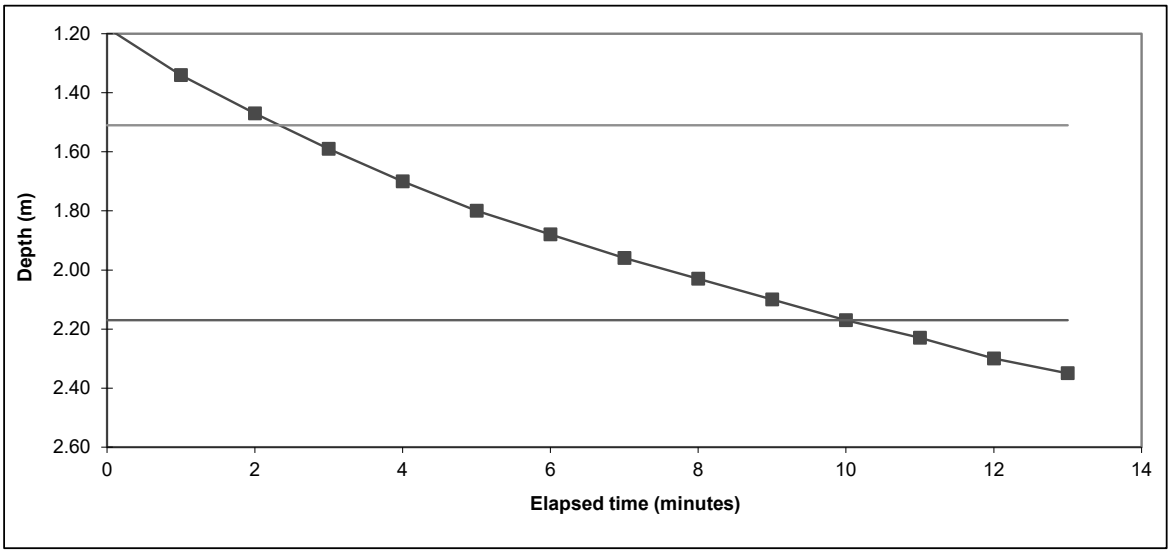
Client:	Wrexham AFC Limited	**TP01**
Site:	Kop Stand, Wrexham AFC	

Your Environment

Soakaway Test

Trial Pit No:	TP01	Test No:	3	Date:	13/07/2022
Length (m):	1.950		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.180		
1	1.340		
2	1.470		
3	1.590		
4	1.700		
5	1.800		
6	1.880		
7	1.960		
8	2.030		
9	2.100		
10	2.170		
11	2.230		
12	2.300		
13	2.350		



Start water depth for analysis (mbgl)	1.18		
75% effective depth (mbgl):	1.51	Elapsed time (mins):	2.3
50% effective depth (mbgl):	1.84		
25% effective depth (mbgl):	2.17	Elapsed time (mins):	10.0
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.901
Mean surface area of outflow (m^2):	4.86
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	7.7

Soil infiltration rate (m/s):	**4.0E-4**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

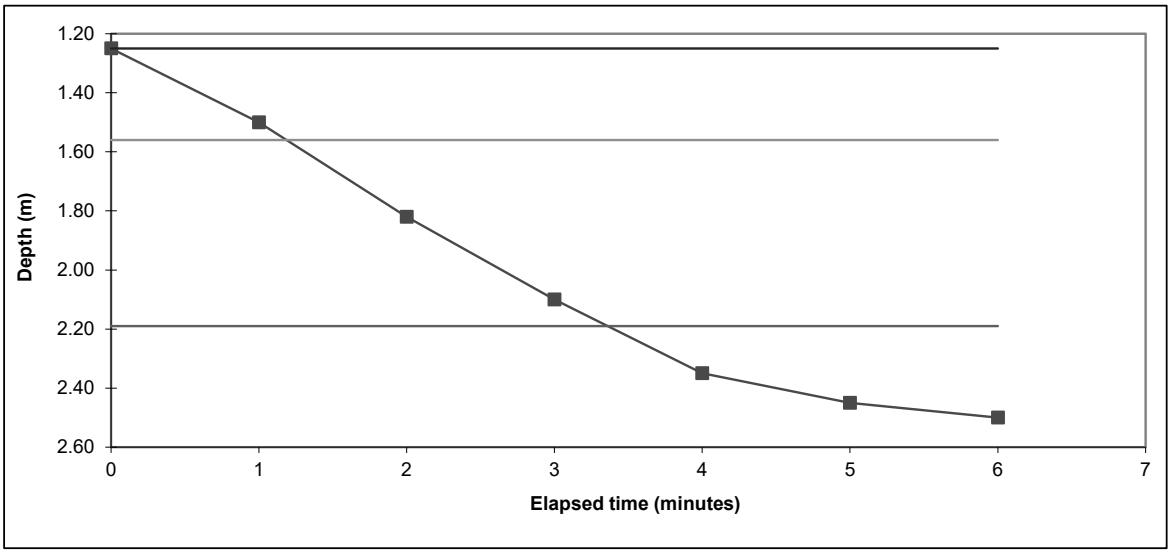
Client:	Wrexham AFC Limited	**TP01**
Site:	Kop Stand, Wrexham AFC	

Your Environment

Soakaway Test

Trial Pit No:	TP02	Test No:	1	Date:	13/07/2022
Length (m):	1.800		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.250		
1	1.500		
2	1.820		
3	2.100		
4	2.350		
5	2.450		
6	2.500		



Start water depth for analysis (mbgl)	1.25		
75% effective depth (mbgl):	1.56	Elapsed time (mins):	1.2
50% effective depth (mbgl):	1.88		
25% effective depth (mbgl):	2.19	Elapsed time (mins):	3.4
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.794
Mean surface area of outflow (m^2):	4.36
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	2.2

Soil infiltration rate (m/s):	**1.4E-3**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

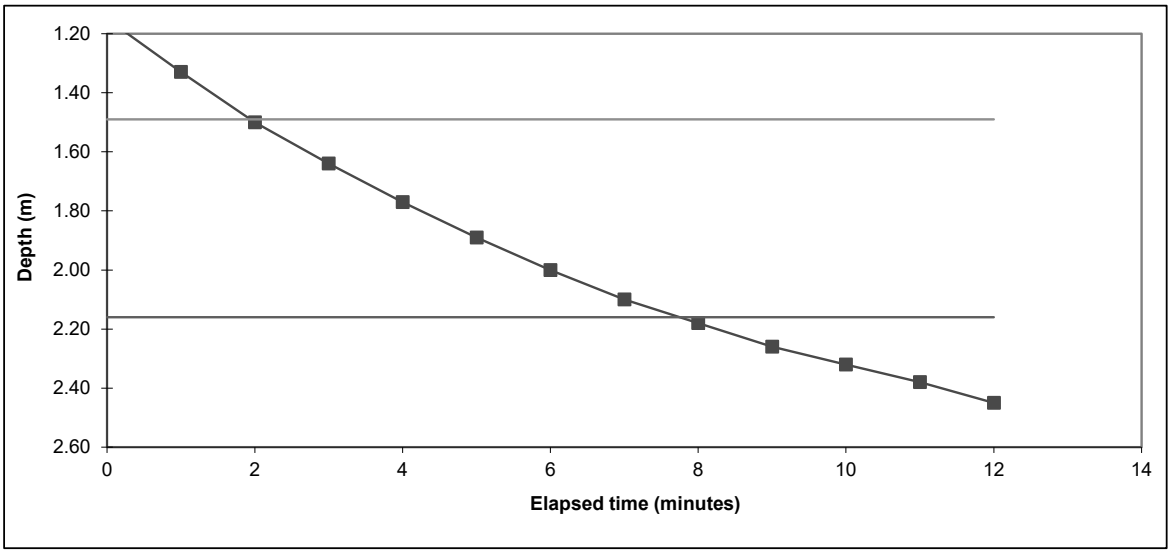
Client:	Wrexham AFC Limited	**TP02**
Site:	Kop Stand, Wrexham AFC	

Your Environment

Soakaway Test

Trial Pit No:	TP02	Test No:	2	Date:	13/07/2022
Length (m):	1.800		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.150		
1	1.330		
2	1.500		
3	1.640		
4	1.770		
5	1.890		
6	2.000		
7	2.100		
8	2.180		
9	2.260		
10	2.320		
11	2.380		
12	2.450		



Start water depth for analysis (mbgl)	1.15		
75% effective depth (mbgl):	1.49	Elapsed time (mins):	1.9
50% effective depth (mbgl):	1.83		
25% effective depth (mbgl):	2.16	Elapsed time (mins):	7.8
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.844
Mean surface area of outflow (m^2):	4.61
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	5.9

Soil infiltration rate (m/s):	**5.2E-4**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

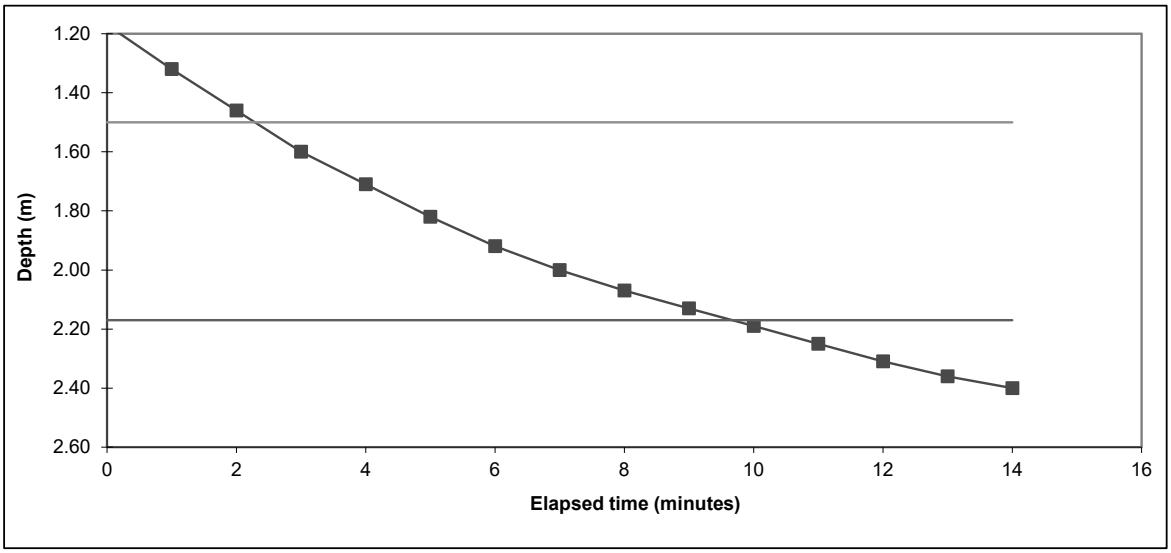
Client:	Wrexham AFC Limited	**TP02**
Site:	Kop Stand, Wrexham AFC	

Your Environment

Soakaway Test

Trial Pit No:	TP02	Test No:	3	Date:	13/07/2022
Length (m):	1.950		Datum Height:	0.00	m agl
Width (m):	0.70		Granular infill:	None	
Depth (m):	2.50		Porosity of infill:	1	(assumed)

Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)
0	1.170	14	2.400
1	1.320		
2	1.460		
3	1.600		
4	1.710		
5	1.820		
6	1.920		
7	2.000		
8	2.070		
9	2.130		
10	2.190		
11	2.250		
12	2.310		
13	2.360		



Start water depth for analysis (mbgl)	1.17		
75% effective depth (mbgl):	1.50	Elapsed time (mins):	2.3
50% effective depth (mbgl):	1.84		
25% effective depth (mbgl):	2.17	Elapsed time (mins):	9.7
Base of soakage zone (mbgl):	2.50		

Volume outflow between 75% and 25% effective depth (m^3):	0.915
Mean surface area of outflow (m^2):	4.86
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	7.4

Soil infiltration rate (m/s):	**4.2E-4**

Remarks Results processed following BRE 365 (2007).
800L of water used for the test

Client:	Wrexham AFC Limited	**TP02**
Site:	Kop Stand, Wrexham AFC	

Appendix D

YEX4390
TP01 Photos









YEX4390
TP02 Photos







