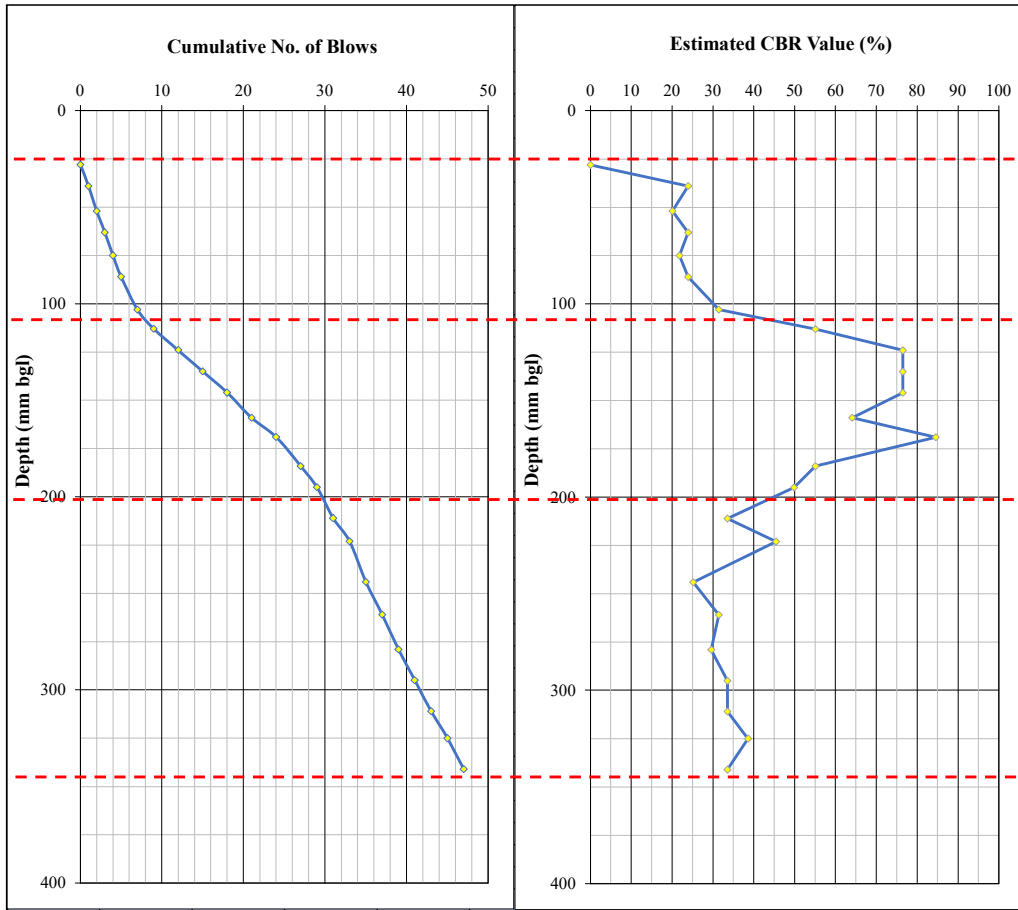


Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report 587(2003) and PR/INT/277/04

Site Name:	Moorhill, Southampton		Test Date:	27/05/2022
Site Ref:	A11641		Test Location:	DCP104
Initial Depth:	28 mm bgl		Test No.:	1 of 1
Final Depth:	341 mm bgl		Undertaken By:	TH



Start Depth (mm bgl)	End Depth (mm bgl)	Layer Range (mm)	Blows per Layer	DCP mm/Blows per Layer	Average Layer CBR Value (%)
28	110	82	7	12	22.4
110	200	90	22	4	68.1
200	341	141	18	8	34.3

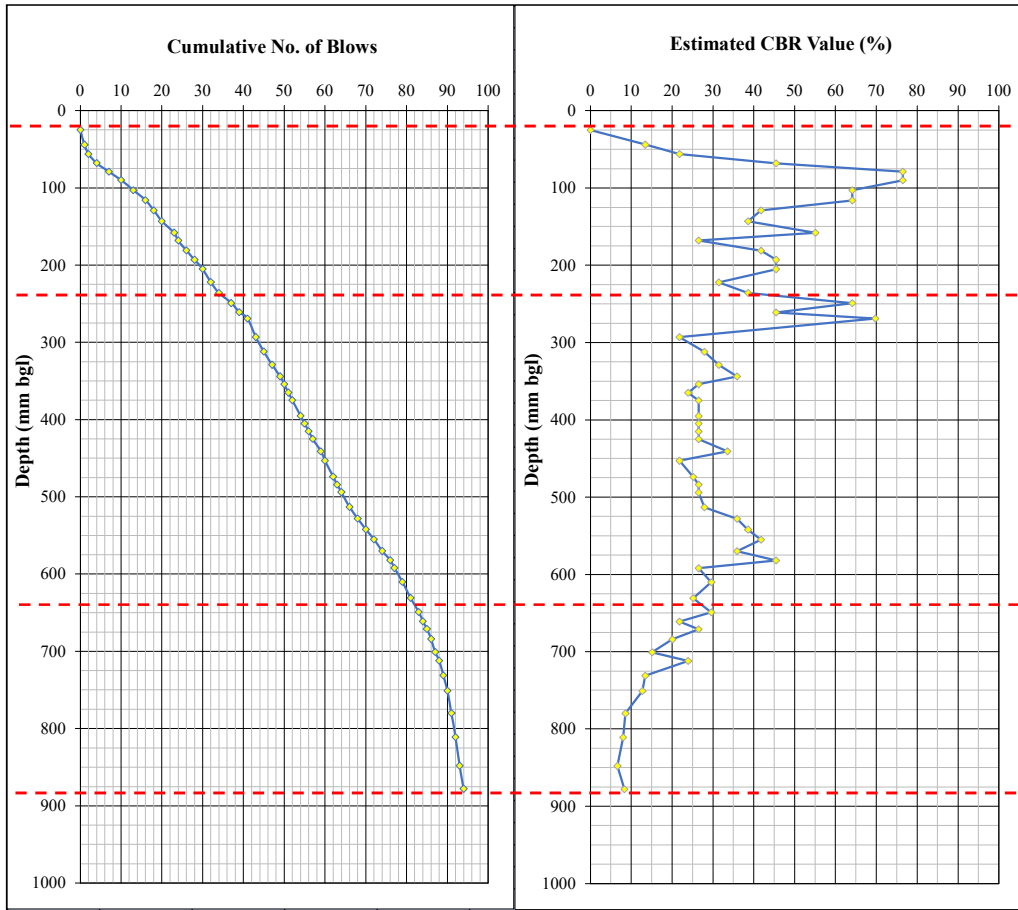
Comments
DCP rod snapped

Site Engineer:	Date:	Checked and Approved By:	Date:	Location
TH	27/05/2022	LB	29/06/2022	DCP104

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report 587(2003) and PR/INT/277/04

Site Name:	Moorhill, Southampton		Test Date:	27/05/2022
Site Ref:	A11641		Test Location:	DCP105
Initial Depth:	25 mm bgl		Test No.:	1 of 1
Final Depth:	878 mm bgl		Undertaken By:	TH



Start Depth (mm bgl)	End Depth (mm bgl)	Layer Range (mm)	Blows per Layer	DCP mm/Blows per Layer	Average Layer CBR Value (%)
25	230	205	32	6	42.4
230	640	410	49	8	32.0
640	878	238	13	18	14.0

Comments

Site Engineer:	Date:	Checked and Approved By:	Date:	Location
TH	27/05/2022	LB	29/06/2022	DCP105

APPENDIX XI - BRE DG365 SOAKAWAY TEST CERTIFICATES

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



Trial Pit Identification:	SA101
Trial Pit Length (m):	2.10
Trial Pit Width (m):	0.55
Trial Pit Depth (m):	2.00
Groundwater Level (m bgl):	N/A

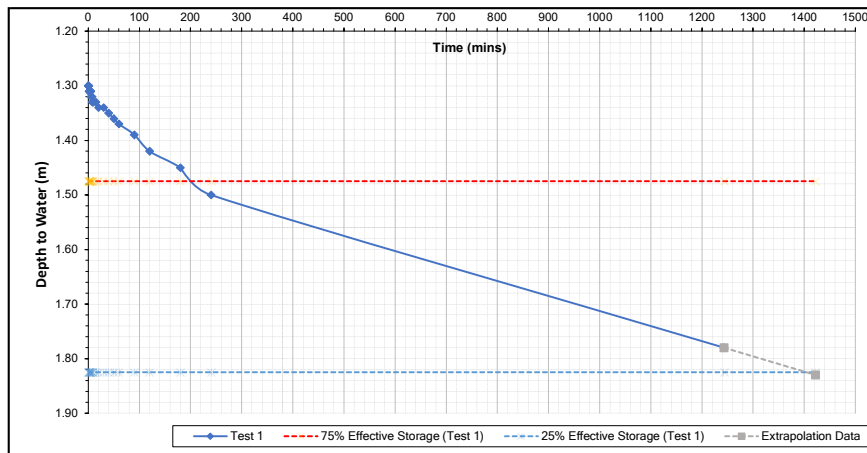
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.40m bgl Grass over purplish brown slightly silty gravelly fine to coarse SAND with frequent rootlets. Gravel is angular to sub-rounded fine to coarse flint, brick, concrete crush and tile. [MADE GROUND]
0.4-1.90m bgl Soft orange gravelly sandy CLAY. Sand is coarse. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.90-2.0m bgl Orange clayey gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded flint. [RIVER TERRACE]
2.0-2.30m bgl Soft orange and blueish grey mottled CLAY. [WITTERING FORMATION]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.70	0.00	1.30
	0.25	1.30
75% Effective Storage Depth (m):	0.50	1.30
0.53	1.00	1.30
	1.50	1.31
(i.e. Depth Below Ground Level) (m):	2.00	1.31
1.48	2.50	1.31
	3.00	1.31
25% Effective Storage Depth (m):	3.50	1.31
0.18	4.00	1.31
	4.50	1.31
(i.e. Depth Below Ground Level) (m):	5.00	1.31
1.83	6.00	1.32
	7.00	1.32
Effective Storage Depth Across 75% - 25% (m):	8.00	1.33
0.35	9.00	1.33
	10.00	1.33
Time to Fall to 75% Effective Depth (min):	15.00	1.33
200	20.00	1.34
	30.00	1.34
Time to Fall to 25% Effective Depth (min):	40.00	1.35
1422	50.00	1.36
	60.00	1.37
Vp75%-25% (m3):	90.00	1.39
0.40	120.00	1.42
	180.00	1.45
As50% (m2):	240.00	1.50
3.01	1243.00	1.78
	1422.00	1.83
Tp75%-25% (mins):		
1222		

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.83E-06
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Comments:
SA101 Failed to reach the 25% intercept in the time, extrapolated data has been provided. A soil infiltration rate has been provided from extrapolated data.



Site Engineer:	Date:
HS/TH	26/05/2022

Checked and Approved By:	Date:
LB	20.06.2022

Location
SA101

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

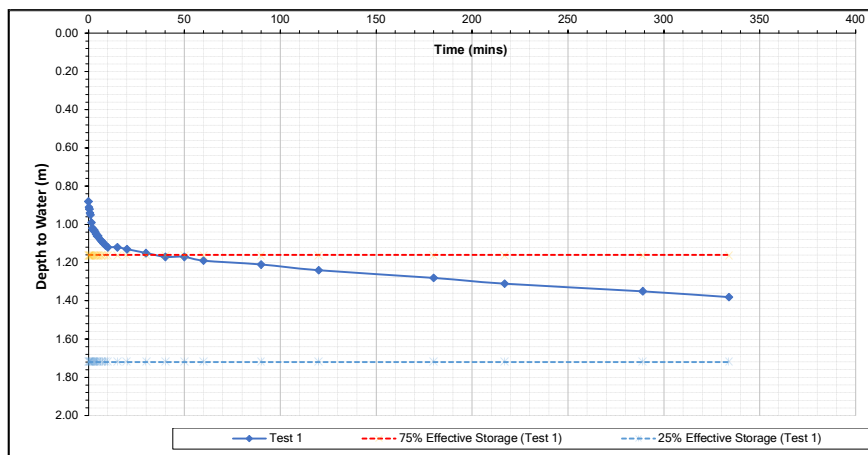
Trial Pit Identification:	SA101
Trial Pit Length (m):	2.10
Trial Pit Width (m):	0.55
Trial Pit Depth (m):	2.00
Groundwater Level (m bgl):	N/A

Geology Description:
0.00-0.40m bgl Grass over purplish brown slightly silty gravelly fine to coarse SAND with frequent rootlets. Gravel is angular to sub-rounded fine to coarse flint, brick, concrete crush and tile. [MADE GROUND]
0.4-1.90m bgl Soft orange gravelly sandy CLAY. Sand is coarse. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.90-2.0m bgl Orange clayey gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded flint. [RIVER TERRACE]
2.0-2.30m bgl Soft orange and blueish grey mottled CLAY. [WITTERING FORMATION]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.12	0.00	0.88
	0.25	0.91
75% Effective Storage Depth (m):	0.50	0.92
0.84	0.75	0.94
	1.00	0.95
(i.e. Depth Below Ground Level) (m):	1.50	0.99
	2.00	1.02
1.16	2.50	1.03
25% Effective Storage Depth (m):	3.00	1.03
0.28	3.50	1.04
	4.00	1.05
(i.e. Depth Below Ground Level) (m):	4.50	1.06
	5.00	1.06
1.72	6.00	1.08
Effective Storage Depth Across 75% - 25% (m):	7.00	1.09
	8.00	1.10
0.56	9.00	1.11
Time to Fall to 75% Effective Depth (min):	10.00	1.12
	15.00	1.12
	20.00	1.13
Time to Fall to 25% Effective Depth (min):	30.00	1.15
	40.00	1.17
N/A	50.00	1.17
Vp75%-25% (m3):	60.00	1.19
	90.00	1.21
0.65	120.00	1.24
As50% (m2):	180.00	1.28
	217.00	1.31
4.12	289.00	1.35
Tp75%-25% (mins):	334.00	1.38
N/A		

DESIGN SOIL INFILTRATION RATE, f (m/s):	N/A
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Comments:
NOTE: During the duration of the test the required intercept failed to be reached. Therefore the test is considered not to have been successful



Site Engineer:	Date:
HS/TH	26.05.2022

Checked and Approved By:	Date:
LB	20.06.22

Location
SA101

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



Trial Pit Identification:	SA102
Trial Pit Length (m):	2.15
Trial Pit Width (m):	0.50
Trial Pit Depth (m):	1.40
Groundwater Level (m bgl):	N/A

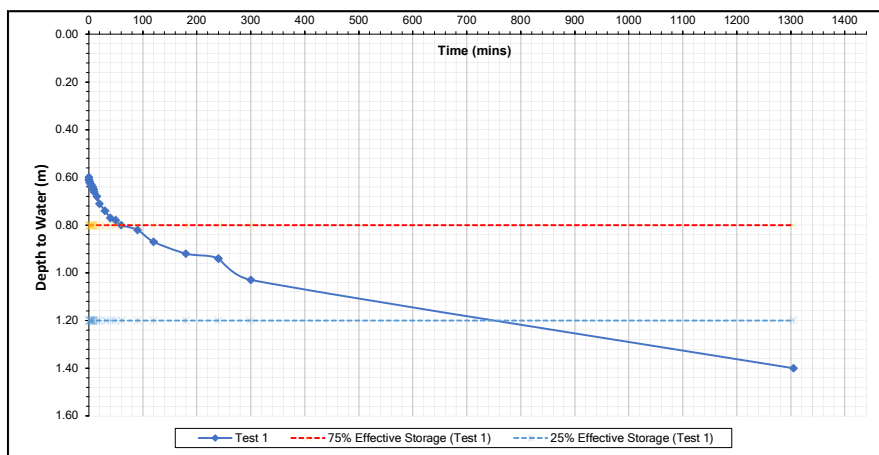
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.0-0.40m bgl Grass over dark brown gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to medium flint. [TOPSOIL]
0.40-1.60m bgl Orange slightly clayey gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.80	0.00	0.60
	0.25	0.61
75% Effective Storage Depth (m):	0.50	0.61
0.60	1.50	0.62
	2.00	0.62
(i.e. Depth Below Ground Level) (m):	4.00	0.63
0.80	4.30	0.63
	5.00	0.64
25% Effective Storage Depth (m):	6.00	0.64
0.20	7.00	0.64
	8.00	0.65
(i.e. Depth Below Ground Level) (m):	9.00	0.65
1.20	10.00	0.66
	15.00	0.68
Effective Storage Depth Across 75% - 25% (m):	20.00	0.71
0.40	30.00	0.74
	40.00	0.77
Time to Fall to 75% Effective Depth (min):	50.00	0.78
60	60.00	0.80
	90.00	0.82
Time to Fall to 25% Effective Depth (min):	120.00	0.87
750	180.00	0.92
	240.00	0.94
Vp75%-25% (m3):	300.00	1.03
0.43	1305.00	1.40
As50% (m2):		
3.20		
Tp75%-25% (mins):		
690		

DESIGN SOIL INFILTRATION RATE, f (m/s):	3.25E-06
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Comments:



Site Engineer:	Date:
HS/TH	26/05/2022

Checked and Approved By:	Date:
LB	20.06.22

Location
SA102

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



Trial Pit Identification:	SA102
Trial Pit Length (m):	2.15
Trial Pit Width (m):	0.50
Trial Pit Depth (m):	1.40
Groundwater Level (m bgl):	N/A

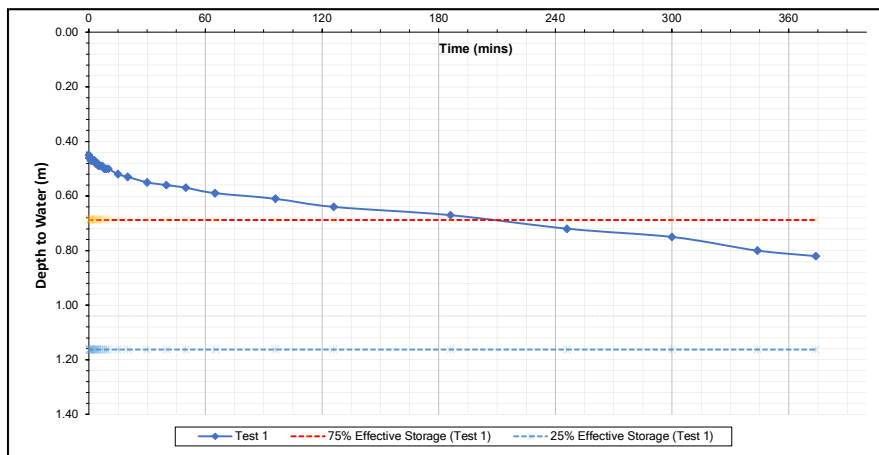
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.0-0.40m bgl Grass over dark brown gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to medium flint. [TOPSOIL]
0.40-1.60m bgl Orange slightly clayey gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.95	0.00	0.45
	0.25	0.46
75% Effective Storage Depth (m):	0.50	0.46
0.71	0.75	0.46
	1.00	0.47
(i.e. Depth Below Ground Level) (m):	1.50	0.47
0.69	2.00	0.47
	2.50	0.47
25% Effective Storage Depth (m):	3.00	0.47
0.24	3.50	0.48
	4.00	0.48
(i.e. Depth Below Ground Level) (m):	4.50	0.48
1.16	5.00	0.49
	6.00	0.49
Effective Storage Depth Across 75% - 25% (m):	7.00	0.49
0.48	8.00	0.50
	9.00	0.50
Time to Fall to 75% Effective Depth (min):	10.00	0.50
N/A	15.00	0.52
	20.00	0.53
Time to Fall to 25% Effective Depth (min):	30.00	0.55
N/A	40.00	0.56
	50.00	0.57
Vp75%-25% (m3):	65.00	0.59
0.51	96.00	0.61
	126.00	0.64
As50% (m2):	186.00	0.67
3.59	246.00	0.72
	300.00	0.75
Tp75%-25% (mins):	344.00	0.80
N/A	374.00	0.82

DESIGN SOIL INFILTRATION RATE, f (m/s):	N/A
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Comments:
NOTE: During the duration of the test the required intercept failed to be reached. Therefore the test is considered not to have been successful.



Site Engineer:	Date:
HS/TH	25/02/2022

Checked and Approved By:	Date:
LB	20.06.2022

Location
SA102

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

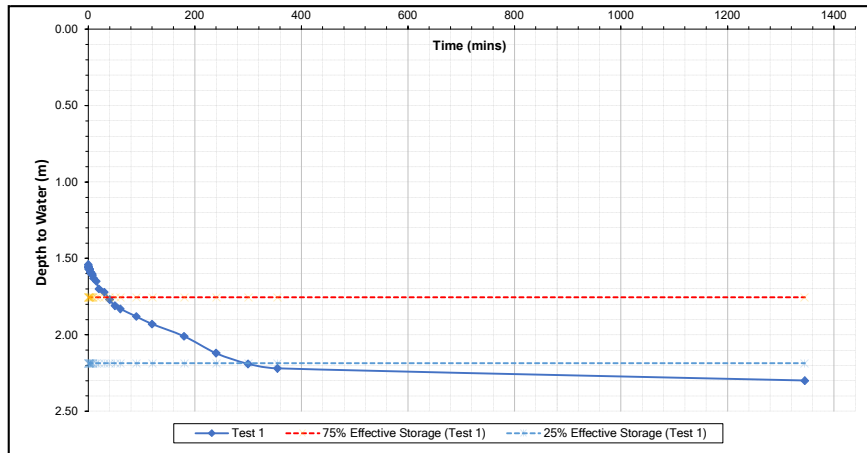
Trial Pit Identification:	SA103
Trial Pit Length (m):	2.70
Trial Pit Width (m):	0.50
Trial Pit Depth (m):	2.40
Groundwater Level (m bgl):	N/A

Geology Description:
0.00-0.60m bgl Dark brown slightly silty gravelly fine to coarse SAND. Gravel is sub-angular to rounded fine to medium flint. [TOPSOIL]
0.60-1.10m bgl Orangish red mottled greenish grey very sandy CLAY. Sand is coarse. [RIVER TERRACE]
1.10-2.60m bgl Orange slightly clayey gravelly coarse SAND. Gravel is sub-angular to rounded fine to medium flint. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.86	0.00	1.54
	0.25	1.55
75% Effective Storage Depth (m):	0.50	1.56
0.65	0.75	1.56
(i.e. Depth Below Ground Level) (m):	1.00	1.57
	1.50	1.57
1.76	2.00	1.57
	2.50	1.57
25% Effective Storage Depth (m):	3.50	1.59
0.22	4.00	1.59
(i.e. Depth Below Ground Level) (m):	4.50	1.59
	6.00	1.60
2.19	7.00	1.60
	8.00	1.61
Effective Storage Depth Across 75% - 25% (m):	10.00	1.63
0.43	15.00	1.65
	20.00	1.70
Time to Fall to 75% Effective Depth (min):	30.00	1.72
	40.00	1.77
39	50.00	1.81
Time to Fall to 25% Effective Depth (min):	60.00	1.83
	90.00	1.88
300	120.00	1.93
Vp75%-25% (m3):	180.00	2.01
0.58	240.00	2.12
	300.00	2.19
As50% (m2):	355.00	2.22
4.10	1345.00	2.30
Tp75%-25% (mins):		
261		

DESIGN SOIL INFILTRATION RATE, f (m/s):	9.04E-06
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Comments:



Site Engineer:	Date:
HS/TH	26/05/2022

Checked and Approved By:	Date:
LB	20.06.22

Location
SA103

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	26/05/2022



SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

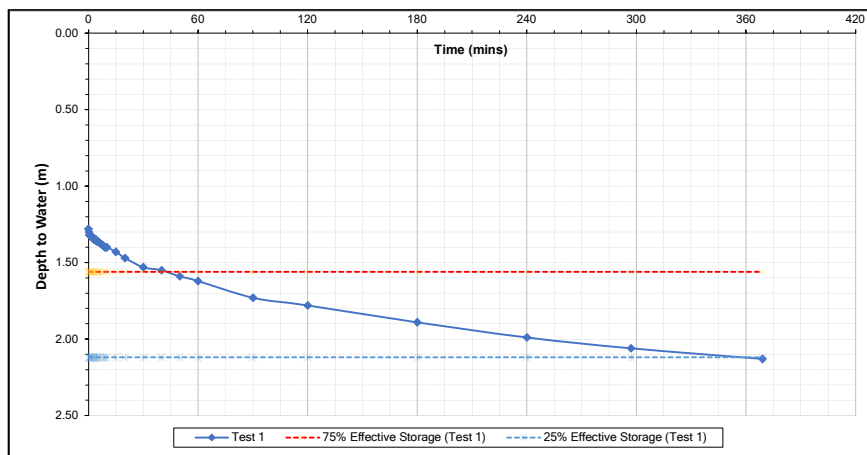
Trial Pit Identification:	SA103
Trial Pit Length (m):	2.70
Trial Pit Width (m):	0.50
Trial Pit Depth (m):	2.40
Groundwater Level (m bgl):	N/A

Geology Description:
0.00-0.60m bgl Dark brown slightly silty gravelly fine to coarse SAND. Gravel is sub-angular to rounded fine to medium flint. [TOPSOIL]
0.60-1.10m bgl Orangish red mottled greenish grey very sandy CLAY. Sand is coarse. [RIVER TERRACE]
1.10-2.60m bgl Orange slightly clayey gravelly coarse SAND. Gravel is sub-angular to rounded fine to medium flint. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.12	0.00	1.28
	0.25	1.30
75% Effective Storage Depth (m):	0.50	1.32
0.84	0.75	1.32
	1.00	1.32
(i.e. Depth Below Ground Level) (m):	1.50	1.33
	2.00	1.33
1.56	2.50	1.34
25% Effective Storage Depth (m):	3.00	1.35
0.28	3.50	1.35
	4.00	1.35
(i.e. Depth Below Ground Level) (m):	4.50	1.36
	5.00	1.36
2.12	6.00	1.37
Effective Storage Depth Across 75% - 25% (m):	7.00	1.38
	8.00	1.39
0.56	9.00	1.40
Time to Fall to 75% Effective Depth (min):	10.00	1.40
	15.00	1.43
42.00	20.00	1.47
Time to Fall to 25% Effective Depth (min):	30.00	1.53
	40.00	1.55
365.00	50.00	1.59
Vp75%-25% (m3):	60.00	1.62
	90.00	1.73
0.76	120.00	1.78
As50% (m2):	180.00	1.89
	240.00	1.99
4.93	297.00	2.06
Tp75%-25% (mins):	369.00	2.13
323.00		

DESIGN SOIL INFILTRATION RATE, f (m/s):	7.91E-06
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Comments:



Site Engineer:	Date:
HS/TH	26/05/2022

Checked and Approved By:	Date:
LB	20.06.22

Location
SA103

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA201
Trial Pit Length (m):	2.70
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.70
Groundwater Level (m bgl):	N/A

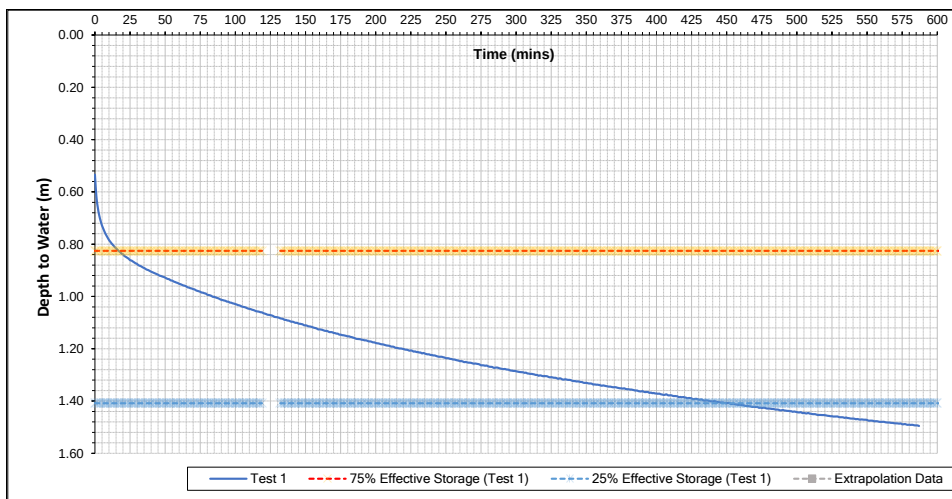
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [TOPSOIL]
0.50-1.10: Orangish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.10-1.20: Orange sandy angular to sub-rounded GRAVEL of flint. Sand is coarse. [RIVER TERRACE]
1.20-1.70: Orange clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.17	0.00	0.53
	1.00	0.62
75% Effective Storage Depth (m):	2.00	0.66
0.87	3.00	0.69
	902.00	
(i.e. Depth Below Ground Level) (m):	903.00	
0.83	904.00	
	905.00	
25% Effective Storage Depth (m):	906.00	
0.29	907.00	
	908.00	
(i.e. Depth Below Ground Level) (m):	909.00	
1.41	910.00	
	911.00	
Effective Storage Depth Across 75% - 25% (m):	912.00	
0.58	913.00	
	914.00	
Time to Fall to 75% Effective Depth (min):	915.00	
17	916.00	
	917.00	
Time to Fall to 25% Effective Depth (min):	918.00	
450	919.00	
	920.00	
Vp75%-25% (m3):	921.00	
1.10	922.00	
	923.00	
As50% (m2):	924.00	
5.85	925.00	
	926.00	
Tp75%-25% (mins):	927.00	
433	928.00	

DESIGN SOIL INFILTRATION RATE, f (m/s):	7.24E-06
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA201

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022

Trial Pit Identification:	SA201
Trial Pit Length (m):	2.70
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.70
Groundwater Level (m bgl):	N/A



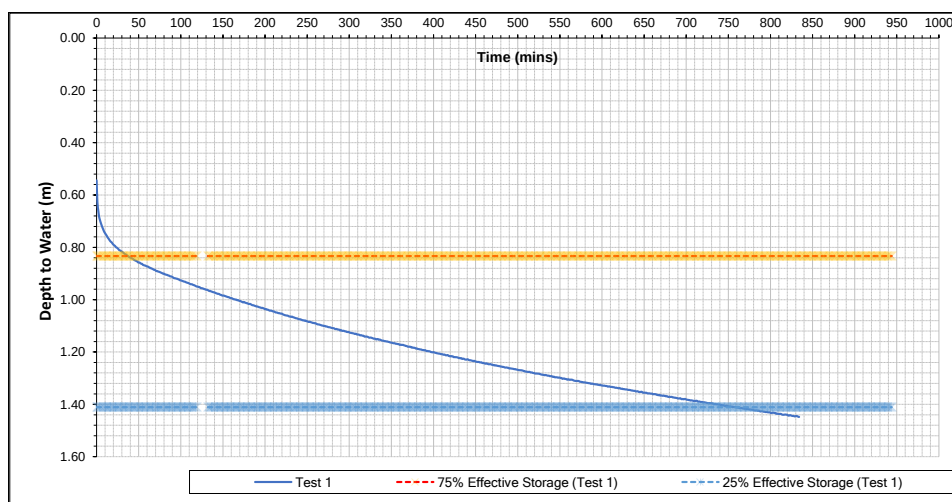
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [TOPSOIL]
0.50-1.10: Orangish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.10-1.20: Orange sandy angular to sub-rounded GRAVEL of flint. Sand is coarse. [RIVER TERRACE]
1.20-1.70: Orange clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.16	0.00	0.54
	1.00	0.63
75% Effective Storage Depth (m):	807.00	1.44
0.87	808.00	1.44
	809.00	1.44
(i.e. Depth Below Ground Level) (m):	810.00	1.44
0.83	811.00	1.44
	812.00	1.44
25% Effective Storage Depth (m):	813.00	1.44
0.29	814.00	1.44
	815.00	1.44
(i.e. Depth Below Ground Level) (m):	816.00	1.44
1.41	817.00	1.44
	818.00	1.44
Effective Storage Depth Across 75% - 25% (m):	819.00	1.44
0.58	820.00	1.44
	821.00	1.44
Time to Fall to 75% Effective Depth (min):	822.00	1.44
40.00	823.00	1.44
	824.00	1.44
Time to Fall to 25% Effective Depth (min):	825.00	1.44
760.00	826.00	1.44
	827.00	1.44
Vp75%-25% (m3):	828.00	1.45
1.09	829.00	1.45
	830.00	1.45
As50% (m2):	831.00	1.45
5.82	832.00	1.45
	833.00	1.45
Tp75%-25% (mins):	834.00	1.45
720.00	835.00	1.45
	836.00	1.45

DESIGN SOIL INFILTRATION RATE, f (m/s):	4.34E-06
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Comments:



Site Engineer:	Date:
TH	26.05.2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA201

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022

Trial Pit Identification:	SA201
Trial Pit Length (m):	2.70
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.70
Groundwater Level (m bgl):	N/A



SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [TOPSOIL]
0.50-1.10: Orangish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.10-1.20: Orange sandy angular to sub-rounded GRAVEL of flint. Sand is coarse. [RIVER TERRACE]
1.20-1.70: Orange clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.00	0.00	0.70
	1.00	0.73
75% Effective Storage Depth (m):	2.00	0.75
0.75		
(i.e. Depth Below Ground Level) (m):		
0.95		
25% Effective Storage Depth (m):		
0.25		
(i.e. Depth Below Ground Level) (m):		
1.45		
Effective Storage Depth Across 75% - 25% (m):		
0.49975		
Time to Fall to 75% Effective Depth (min):		
120		
Time to Fall to 25% Effective Depth (min):		
900		
Vp75%-25% (m3):		
0.94		
As50% (m2):		
5.2883		
Tp75%-25% (mins):		
780		

DESIGN SOIL INFILTRATION RATE, f (m/s):	3.82E-06
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA201

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA202
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.60
Trial Pit Depth (m):	1.52
Groundwater Level (m bgl):	N/A

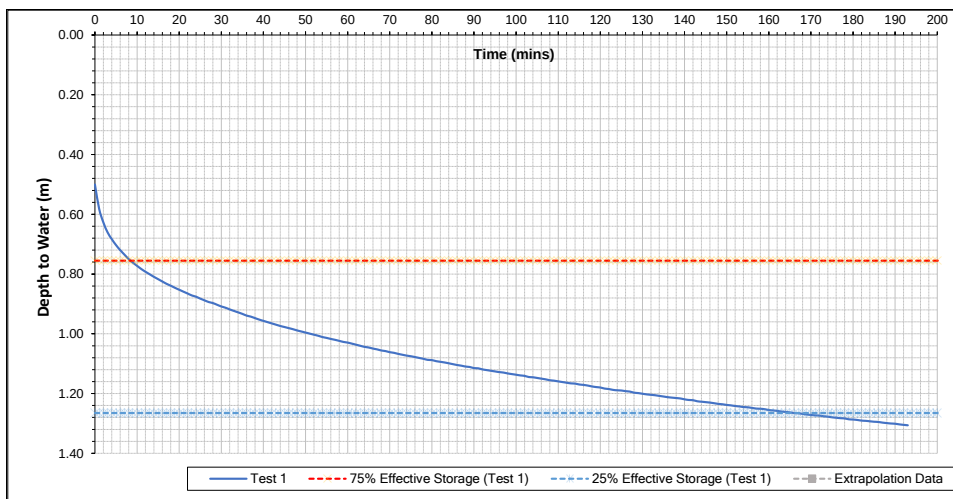
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint with rare angular coarse brick. [MADE GROUND]
0.50-1.30: Orangish brown and reddish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.30-1.60: Mottled red blueish grey and orange sandy SILT. Sand is fine to coarse. [RIVER TERRACE]
1.60-1.70: Orange slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to medium flint. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.02	0.00	0.50
	1.00	0.58
75% Effective Storage Depth (m):	2.00	0.63
0.76	3.00	0.66
	4.00	0.68
(i.e. Depth Below Ground Level) (m):	5.00	0.70
0.76	6.00	0.72
	7.00	0.73
25% Effective Storage Depth (m):	8.00	0.75
0.25	9.00	0.76
	10.00	0.77
(i.e. Depth Below Ground Level) (m):	11.00	0.78
1.27	12.00	0.79
	13.00	0.80
Effective Storage Depth Across 75% - 25% (m):	14.00	0.81
0.51	15.00	0.82
	16.00	0.82
Time to Fall to 75% Effective Depth (min):	17.00	0.83
8	18.00	0.84
	19.00	0.85
Time to Fall to 25% Effective Depth (min):	20.00	0.85
166	21.00	0.86
	22.00	0.87
Vp75%-25% (m3):	23.00	0.87
0.70	24.00	0.88
	25.00	0.88
As50% (m2):	26.00	0.89
4.34	27.00	0.89
	28.00	0.90
Tp75%-25% (mins):	29.00	0.90
158	30.00	0.91
	31.00	0.91

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.71E-05
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA202

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022

Trial Pit Identification:	SA202
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.60
Trial Pit Depth (m):	1.52
Groundwater Level (m bgl):	N/A



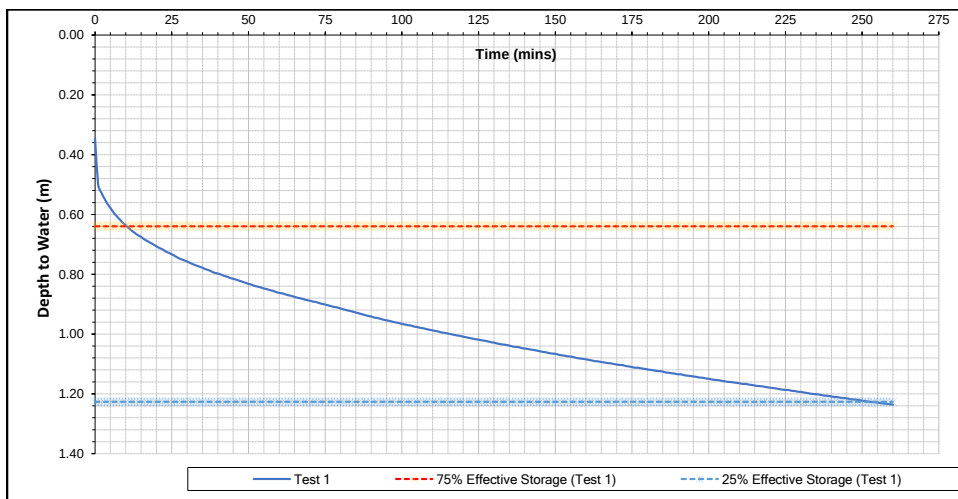
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint with rare angular coarse brick. [MADE GROUND]
0.50-1.30: Orangish brown and reddish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.30-1.60: Mottled red blueish grey and orange sandy SILT. Sand is fine to coarse. [RIVER TERRACE]
1.60-1.70: Orange slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to medium flint. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.17	0.00	0.35
	1.00	0.50
75% Effective Storage Depth (m):	2.00	0.53
0.88	3.00	0.55
	4.00	0.56
(i.e. Depth Below Ground Level) (m):	5.00	0.58
0.64	6.00	0.59
	7.00	0.61
25% Effective Storage Depth (m):	8.00	0.62
0.29	9.00	0.63
	10.00	0.64
(i.e. Depth Below Ground Level) (m):	11.00	0.65
1.23	12.00	0.65
	13.00	0.66
Effective Storage Depth Across 75% - 25% (m):	14.00	0.67
0.59	15.00	0.68
	16.00	0.68
Time to Fall to 75% Effective Depth (min):	17.00	0.69
10.00	18.00	0.69
	19.00	0.70
Time to Fall to 25% Effective Depth (min):	20.00	0.71
252.00	21.00	0.71
	22.00	0.72
Vp75%-25% (m3):	23.00	0.72
0.81	24.00	0.73
	25.00	0.73
As50% (m2):	26.00	0.74
4.78	27.00	0.74
	28.00	0.75
Tp75%-25% (mins):	29.00	0.75
242.00	30.00	0.76
	31.00	0.76

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.17E-05
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Comments:



Site Engineer:	Date:
TH	26.05.2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA202

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA202
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.60
Trial Pit Depth (m):	1.52
Groundwater Level (m bgl):	N/A

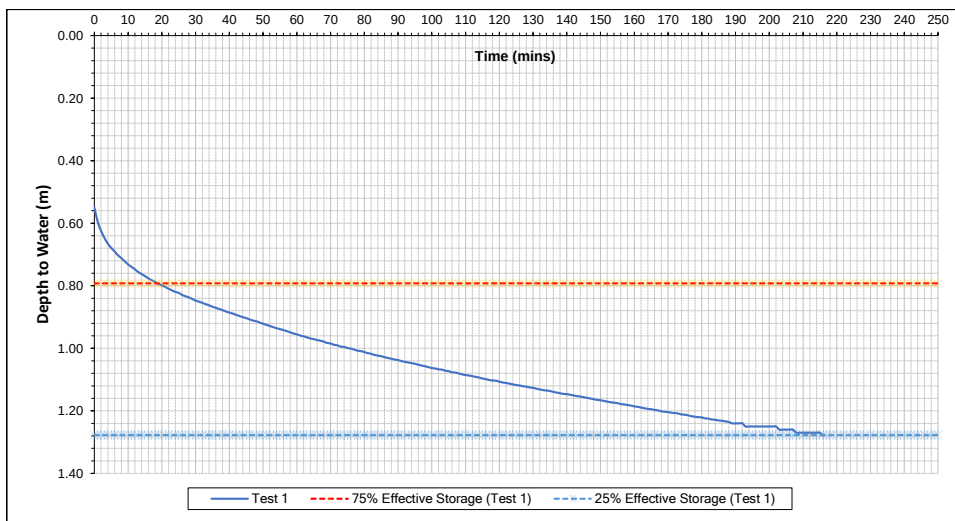
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.50: Dark brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint with rare angular coarse brick. [MADE GROUND]
0.50-1.30: Orangish brown and reddish brown silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.30-1.60: Mottled red blueish grey and orange sandy SILT. Sand is fine to coarse. [RIVER TERRACE]
1.60-1.70: Orange slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to medium flint. [RIVER TERRACE]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.97	0.00	0.55
	1.00	0.60
75% Effective Storage Depth (m):	2.00	0.62
0.73	3.00	0.65
	4.00	0.67
(i.e. Depth Below Ground Level) (m):	5.00	0.68
0.79	6.00	0.69
	7.00	0.70
25% Effective Storage Depth (m):	8.00	0.71
0.24	9.00	0.72
	10.00	0.73
(i.e. Depth Below Ground Level) (m):	11.00	0.74
1.28	12.00	0.75
	13.00	0.76
Effective Storage Depth Across 75% - 25% (m):	14.00	0.76
0.48515	15.00	0.77
	16.00	0.78
Time to Fall to 75% Effective Depth (min):	17.00	0.78
18	18.00	0.79
	19.00	0.79
Time to Fall to 25% Effective Depth (min):	20.00	0.80
216	21.00	0.80
	22.00	0.81
Vp75%-25% (m3):	23.00	0.81
0.67	24.00	0.82
	25.00	0.82
As50% (m2):	26.00	0.83
4.19387	27.00	0.83
	28.00	0.84
Tp75%-25% (mins):	29.00	0.84
198	30.00	0.85
	31.00	0.85

DESIGN SOIL INFILTRATION RATE, f (m/s):	1.34E-05
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA202

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA203
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.83
Groundwater Level (m bgl):	N/A

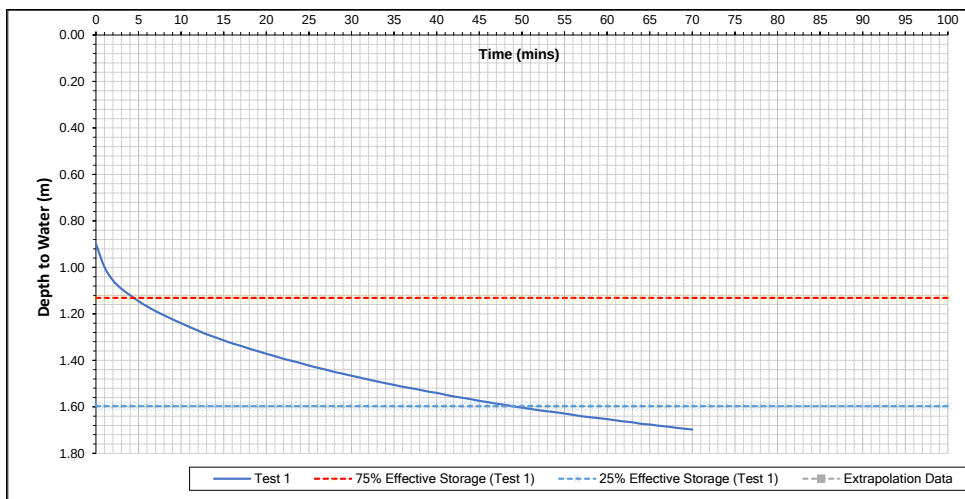
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20: Light reddish brown grey type 1 concrete crush. [MADE GROUND]
0.20-0.40: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.40-1.80: Orange and dark brown slightly gravelly slightly silty coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
0.93	0.00	0.90
	1.00	1.00
75% Effective Storage Depth (m):	2.00	1.06
0.70	3.00	1.09
	4.00	1.12
(i.e. Depth Below Ground Level) (m):	5.00	1.15
1.13	6.00	1.17
	7.00	1.19
25% Effective Storage Depth (m):	8.00	1.21
0.23	9.00	1.22
	10.00	1.24
(i.e. Depth Below Ground Level) (m):	11.00	1.26
1.60	12.00	1.27
	13.00	1.29
Effective Storage Depth Across 75% - 25% (m):	14.00	1.30
0.47	15.00	1.31
	16.00	1.33
Time to Fall to 75% Effective Depth (min):	17.00	1.34
4	18.00	1.35
	19.00	1.36
Time to Fall to 25% Effective Depth (min):	20.00	1.37
49	21.00	1.38
	22.00	1.39
Vp75%-25% (m3):	23.00	1.40
0.75	24.00	1.41
	25.00	1.42
As50% (m2):	26.00	1.43
4.41	27.00	1.44
	28.00	1.45
Tp75%-25% (mins):	29.00	1.46
45	30.00	1.47
	31.00	1.47

DESIGN SOIL INFILTRATION RATE, f (m/s):	6.31E-05
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA203

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022

Trial Pit Identification:	SA203
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.83
Groundwater Level (m bgl):	N/A



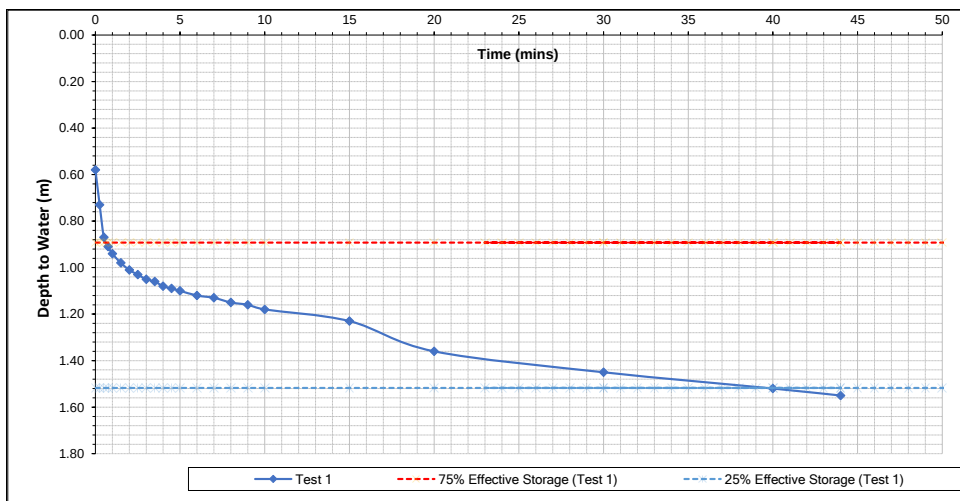
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20: Light reddish brown grey type 1 concrete crush. [MADE GROUND]
0.20-0.40: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.40-1.80: Orange and dark brown slightly gravelly slightly silty coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.25	0.00	0.58
	0.25	0.73
75% Effective Storage Depth (m):	0.50	0.87
0.94	0.75	0.91
	1.00	0.94
(i.e. Depth Below Ground Level) (m):	1.50	0.98
0.89	2.00	1.01
	2.50	1.03
25% Effective Storage Depth (m):	3.00	1.05
0.31	3.50	1.06
	4.00	1.08
(i.e. Depth Below Ground Level) (m):	4.50	1.09
1.52	5.00	1.10
	6.00	1.12
Effective Storage Depth Across 75% - 25% (m):	7.00	1.13
0.63	8.00	1.15
	9.00	1.16
Time to Fall to 75% Effective Depth (min):	10.00	1.18
0.60	15.00	1.23
	20.00	1.36
Time to Fall to 25% Effective Depth (min):	30.00	1.45
40.00	40.00	1.52
	44.00	1.55
Vp75%-25% (m3):	23.00	
1.01	24.00	
	25.00	
As50% (m2):	26.00	
5.36	27.00	
	28.00	
Tp75%-25% (mins):	29.00	
39.40	30.00	
	31.00	

DESIGN SOIL INFILTRATION RATE, f (m/s):	7.94E-05
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Comments:



Site Engineer:	Date:
TH	26.05.2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA203

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA203
Trial Pit Length (m):	2.30
Trial Pit Width (m):	0.70
Trial Pit Depth (m):	1.83
Groundwater Level (m bgl):	N/A

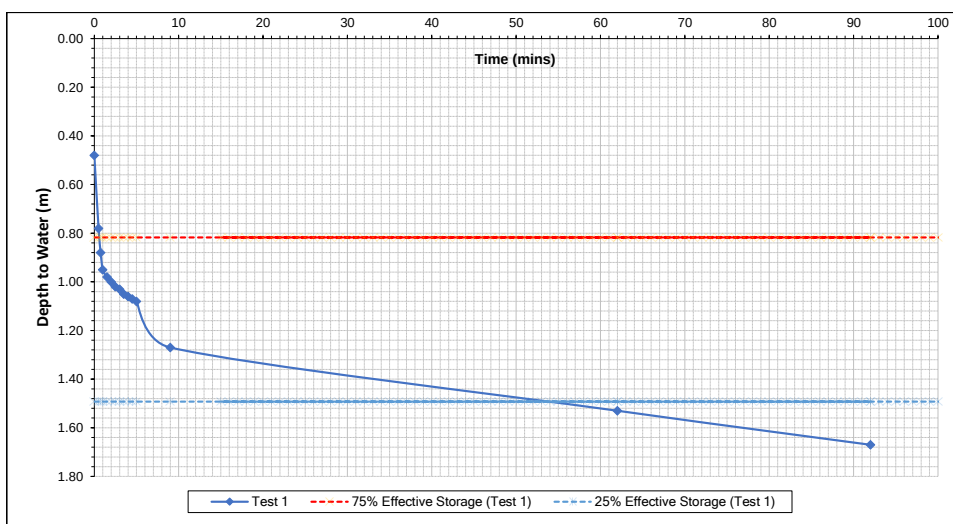
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.20: Light reddish brown grey type 1 concrete crush. [MADE GROUND]
0.20-0.40: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.40-1.80: Orange and dark brown slightly gravelly slightly silty coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.35	0.00	0.48
	0.50	0.78
75% Effective Storage Depth (m):	0.75	0.88
1.01	1.00	0.95
	1.50	0.98
(i.e. Depth Below Ground Level) (m):	2.00	1.00
0.82	2.50	1.02
	3.00	1.03
25% Effective Storage Depth (m):	3.50	1.05
0.34	4.00	1.06
	4.50	1.07
(i.e. Depth Below Ground Level) (m):	5.00	1.08
1.49	9.00	1.27
	62.00	1.53
Effective Storage Depth Across 75% - 25% (m):	92.00	1.67
0.675	15.00	
	16.00	
Time to Fall to 75% Effective Depth (min):	17.00	
0.55	18.00	
	19.00	
Time to Fall to 25% Effective Depth (min):	20.00	
54	21.00	
	22.00	
Vp75%-25% (m3):	23.00	
1.09	24.00	
	25.00	
As50% (m2):	26.00	
5.66	27.00	
	28.00	
Tp75%-25% (mins):	29.00	
53.45	30.00	
	31.00	

DESIGN SOIL INFILTRATION RATE, f (m/s):	5.99E-05
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA203

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA204
Trial Pit Length (m):	2.60
Trial Pit Width (m):	0.80
Trial Pit Depth (m):	1.94
Groundwater Level (m bgl):	N/A

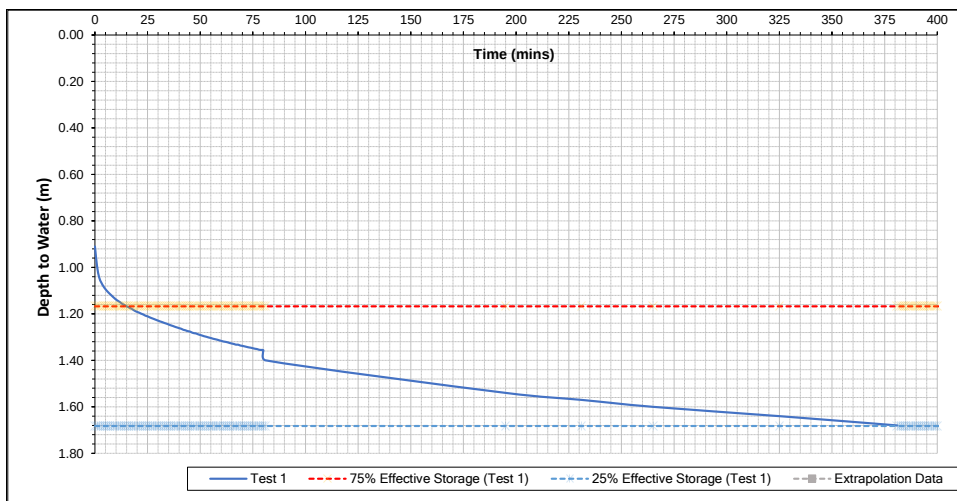
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.15: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.15-0.60: Dark brown sandy angular to sub-angular fine to coarse GRAVEL of flint, slate and rare brick. [MADE GROUND]
0.60-1.30: Orangish brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.20-1.70: Orangish brown clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 1	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.03	0.00	0.91
	1.00	0.99
75% Effective Storage Depth (m):	2.00	1.04
0.77	3.00	1.06
	4.00	1.08
(i.e. Depth Below Ground Level) (m):	5.00	1.09
1.17	6.00	1.10
	7.00	1.11
25% Effective Storage Depth (m):	8.00	1.12
0.26	9.00	1.13
	10.00	1.14
(i.e. Depth Below Ground Level) (m):	11.00	1.14
1.68	12.00	1.15
	13.00	1.16
Effective Storage Depth Across 75% - 25% (m):	14.00	1.16
0.52	15.00	1.17
	16.00	1.17
Time to Fall to 75% Effective Depth (min):	17.00	1.18
15	18.00	1.18
	19.00	1.19
Time to Fall to 25% Effective Depth (min):	20.00	1.19
381	21.00	1.19
	22.00	1.20
Vp75%-25% (m3):	23.00	1.20
1.07	24.00	1.21
	25.00	1.21
As50% (m2):	26.00	1.21
5.58	27.00	1.22
	28.00	1.22
Tp75%-25% (mins):	29.00	1.23
366	30.00	1.23
	31.00	1.23

DESIGN SOIL INFILTRATION RATE, f (m/s):	8.74E-06
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA204

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022

Trial Pit Identification:	SA204
Trial Pit Length (m):	2.60
Trial Pit Width (m):	0.80
Trial Pit Depth (m):	1.94
Groundwater Level (m bgl):	N/A



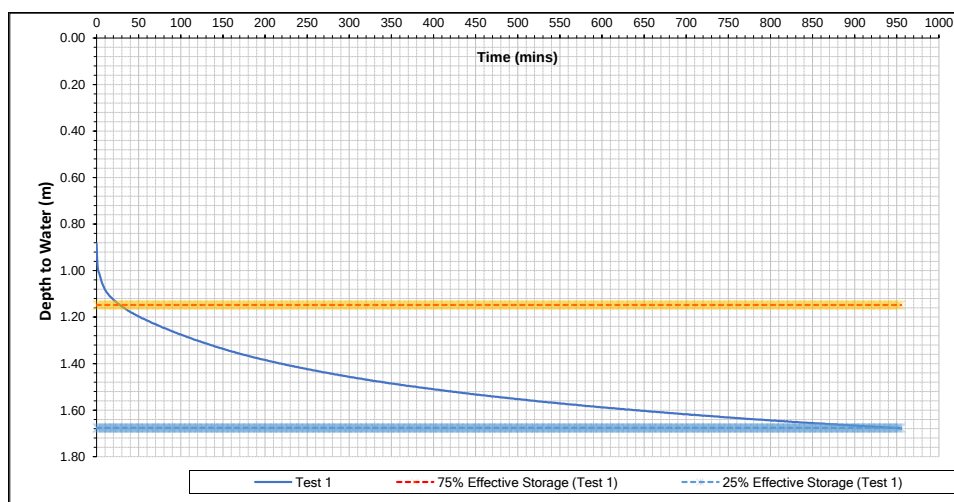
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.15: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.15-0.60: Dark brown sandy angular to sub-angular fine to coarse GRAVEL of flint, slate and rare brick. [MADE GROUND]
0.60-1.30: Orangish brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.20-1.70: Orangish brown clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 2	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.06	0.00	0.88
	1.00	0.97
75% Effective Storage Depth (m):	2.00	1.00
0.79	3.00	1.01
	4.00	1.02
(i.e. Depth Below Ground Level) (m):	5.00	1.04
1.15	6.00	1.05
	7.00	1.06
25% Effective Storage Depth (m):	8.00	1.07
0.26	9.00	1.07
	10.00	1.08
(i.e. Depth Below Ground Level) (m):	11.00	1.09
1.68	12.00	1.09
	13.00	1.10
Effective Storage Depth Across 75% - 25% (m):	14.00	1.10
0.53	15.00	1.11
	16.00	1.11
Time to Fall to 75% Effective Depth (min):	17.00	1.11
30.00	18.00	1.12
	19.00	1.12
Time to Fall to 25% Effective Depth (min):	20.00	1.13
930.00	21.00	1.13
	22.00	1.13
Vp75%-25% (m3):	23.00	1.13
1.10	24.00	1.14
	25.00	1.14
As50% (m2):	26.00	1.14
5.67	27.00	1.15
	28.00	1.15
Tp75%-25% (mins):	29.00	1.15
900.00	30.00	1.15
	31.00	1.16

DESIGN SOIL INFILTRATION RATE, f (m/s):	3.59E-06
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Comments:



Site Engineer:	Date:
TH	26.05.2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA204

Site Name:	Moorhill, Southampton
Site Reference:	A11641
Test Date:	27/07/2022



Trial Pit Identification:	SA204
Trial Pit Length (m):	2.60
Trial Pit Width (m):	0.80
Trial Pit Depth (m):	1.94
Groundwater Level (m bgl):	N/A

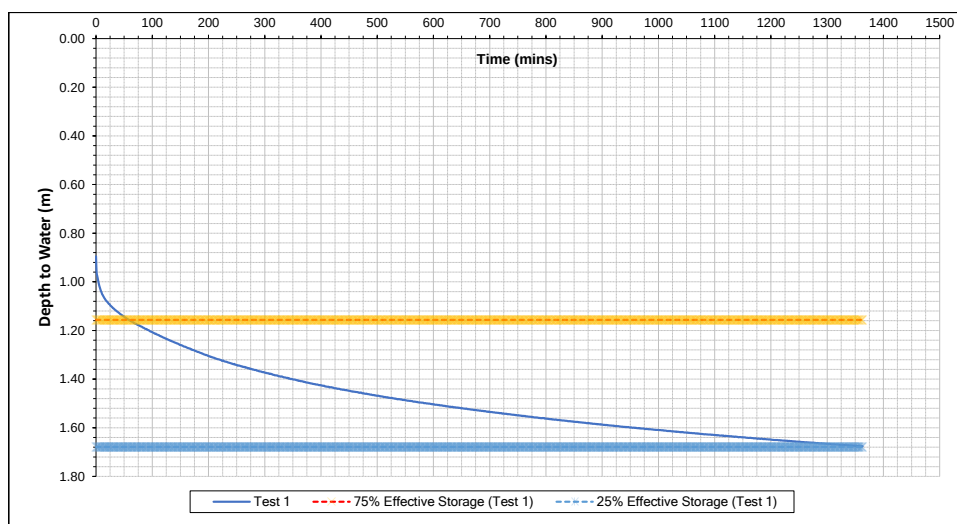
SOIL INFILTRATION RATE TEST
See BRE DG365, Soakaway Design (2016).

Geology Description:
0.00-0.15: Light reddish brown sandy angular to sub-angular fine to coarse GRAVEL of concrete. Sand is fine to coarse. [MADE GROUND]
0.15-0.60: Dark brown sandy angular to sub-angular fine to coarse GRAVEL of flint, slate and rare brick. [MADE GROUND]
0.60-1.30: Orangish brown slightly silty slightly gravelly fine to coarse SAND. Gravel is sub-angular to sub-rounded fine to coarse flint. [RIVER TERRACE]
1.20-1.70: Orangish brown clayey sandy sub-angular to sub-rounded fine to coarse GRAVEL of flint. Sand is coarse. [RIVER TERRACE]

Test Parameters	TEST 3	
Effective Storage Depth (m):	Time (min)	Depth (m)
1.04	0.00	0.90
	1.00	0.96
75% Effective Storage Depth (m):	2.00	0.97
0.78	3.00	0.99
	4.00	1.00
(i.e. Depth Below Ground Level) (m):	5.00	1.01
1.16	6.00	1.02
	7.00	1.02
25% Effective Storage Depth (m):	8.00	1.03
0.26	9.00	1.04
	10.00	1.04
(i.e. Depth Below Ground Level) (m):	11.00	1.05
1.68	12.00	1.05
	13.00	1.06
Effective Storage Depth Across 75% - 25% (m):	14.00	1.06
0.52235	15.00	1.07
	16.00	1.07
Time to Fall to 75% Effective Depth (min):	17.00	1.07
50	18.00	1.08
	19.00	1.08
Time to Fall to 25% Effective Depth (min):	20.00	1.08
1325	21.00	1.09
	22.00	1.09
Vp75%-25% (m3):	23.00	1.09
1.09	24.00	1.09
	25.00	1.10
As50% (m2):	26.00	1.10
5.63198	27.00	1.10
	28.00	1.10
Tp75%-25% (mins):	29.00	1.10
1275	30.00	1.11
	31.00	1.11

DESIGN SOIL INFILTRATION RATE, f (m/s):	2.52E-06
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Comments:



Site Engineer:	Date:
TH	27/07/2022

Checked and Approved By:	Date:
OM	03/08/2022

Location
SA204