

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 24/06/2022

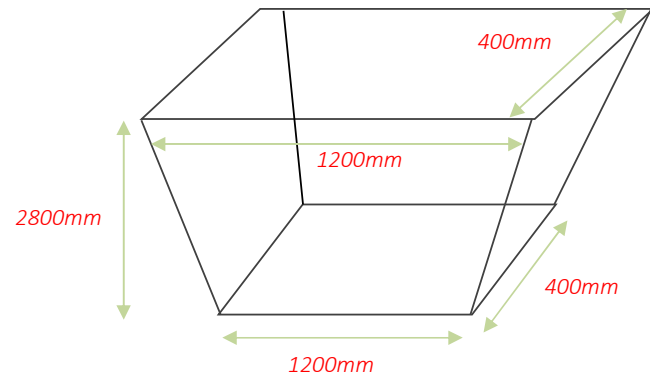
POSITION: TP02
TEST 1

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1310
1	1420
2	1520
3	1730
4	1840
5	1910
10	2200
15	2340
20	2500
24	2800

Pit Depth (mm): 2800

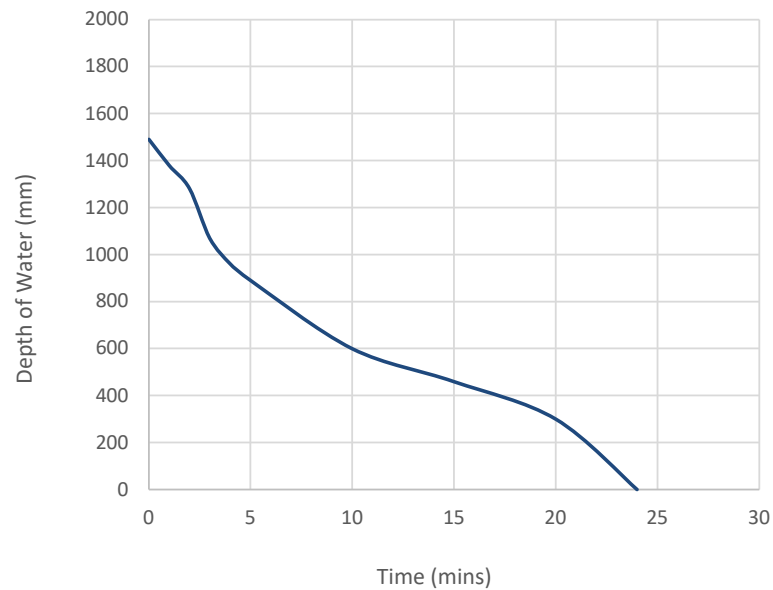
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP02
TEST 1

Depth vs Time



Volume of Pit (m ³)	1.344
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.7152

Compliance Check:

Water Level at 75% effective depth (mm)	1117.5
Water Level at 25% effective depth (mm)	372.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	1117.5
Water Level 2	372.5
Time to Drain from Level 1 to Level 2 (mins)	15
Volume of water discharged (m ³)	0.3576

Discharge Area (m ²)	2.864
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Soil Infiltration Rate (m/min)	0.008324
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Soil Infiltration Rate (m/sec)	1.39E-04
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SOIL PERCOLATION TEST

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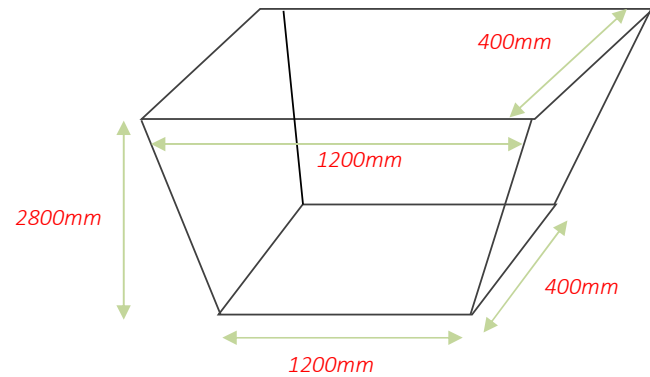
POSITION: TP02
TEST 2

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1320
1	1410
2	1530
3	1710
4	1780
5	1850
10	2110
15	2240
20	2420
25	2610
27	2800

Pit Depth (mm): 2800

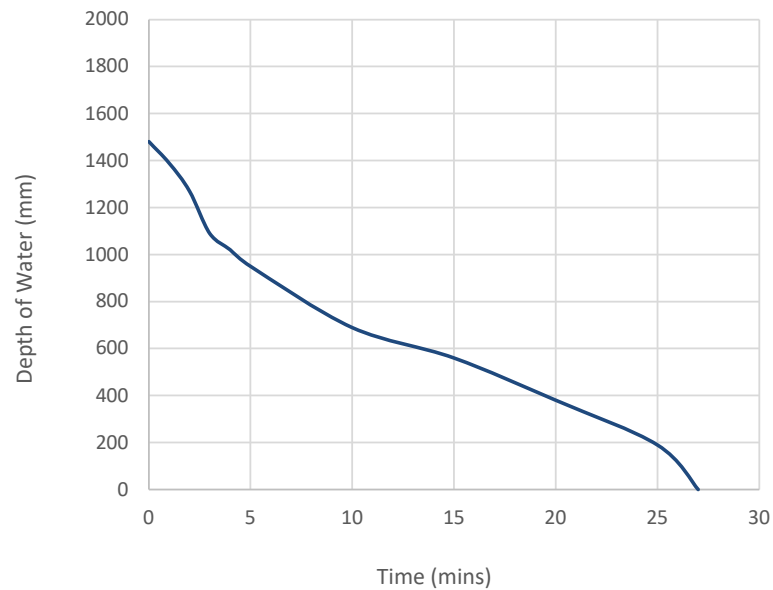
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP02
TEST 2

Depth vs Time



Volume of Pit (m ³)	1.344
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.7104

Compliance Check:

Water Level at 75% effective depth (mm)	1110
Water Level at 25% effective depth (mm)	370

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	1110
Water Level 2	370
Time to Drain from Level 1 to Level 2 (mins)	17.5
Volume of water discharged (m ³)	0.3552

Discharge Area (m ²)	2.848
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Soil Infiltration Rate (m/min)	0.0071268
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Soil Infiltration Rate (m/sec)	1.19E-04
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Date of Test: 24/06/2022

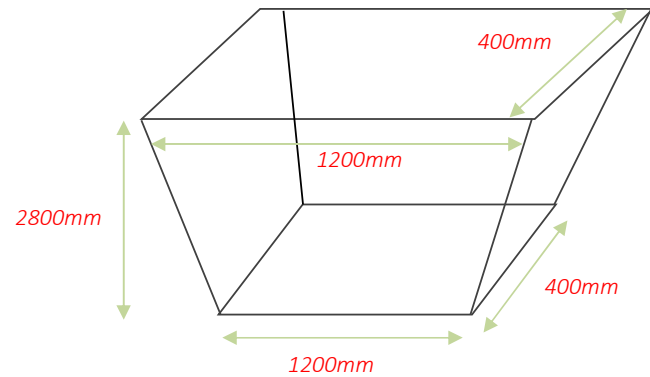
POSITION: TP02
TEST 3

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1350
1	1530
2	1650
3	1790
4	1830
5	1920
10	2420
15	2600
20	2740
28	2800

Pit Depth (mm): 2800

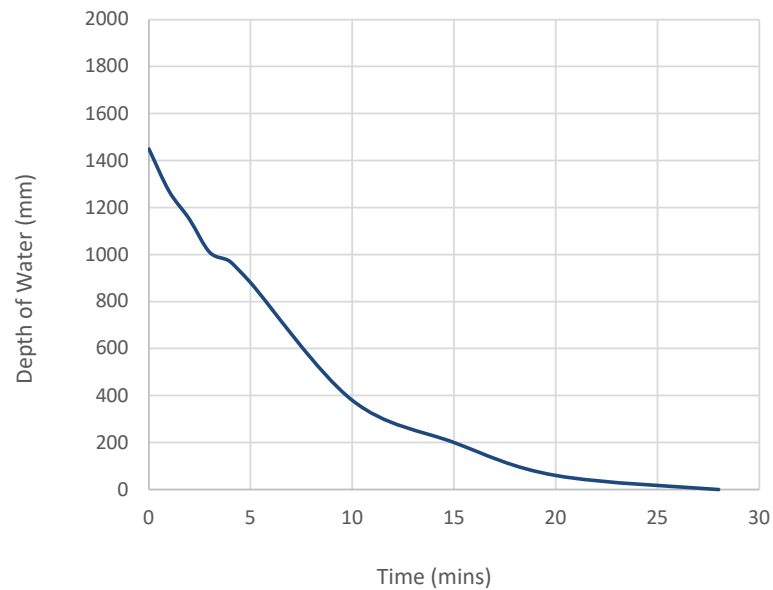
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP02
TEST 3

Depth vs Time



Volume of Pit (m ³)	1.344
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.696

Compliance Check:

Water Level at 75% effective depth (mm)	1087.5
Water Level at 25% effective depth (mm)	362.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	1087.5
Water Level 2	362.5
Time to Drain from Level 1 to Level 2 (mins)	8
Volume of water discharged (m ³)	0.348

Discharge Area (m ²)	2.8
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Soil Infiltration Rate (m/min)	0.0155357
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Soil Infiltration Rate (m/sec)	2.59E-04
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SOIL PERCOLATION TEST

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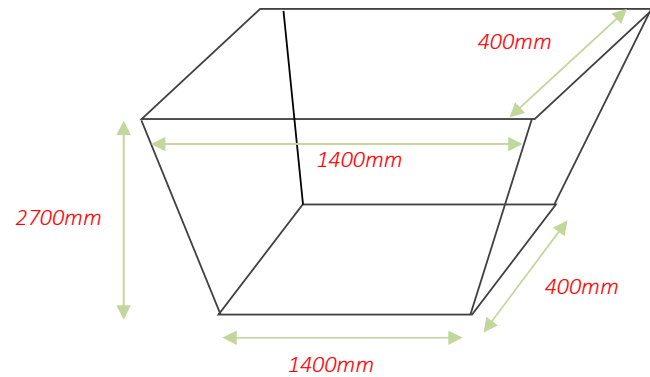
POSITION: TP05
TEST 1

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1430
1	1570
2	1680
3	1750
4	1830
5	1900
10	1980
15	2020
20	2210
25	2530
28	2700

Pit Depth (mm): 2700

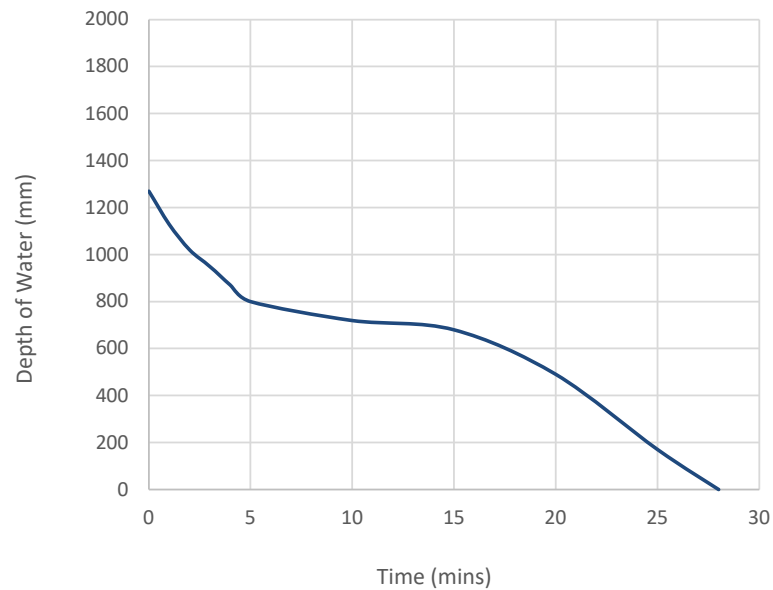
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP05
TEST 1

Depth vs Time



Volume of Pit (m ³)	1.512
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.7112

Compliance Check:

Water Level at 75% effective depth (mm)	952.5
Water Level at 25% effective depth (mm)	317.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	952.5
Water Level 2	317.5
Time to Drain from Level 1 to Level 2 (mins)	19.5
Volume of water discharged (m ³)	0.3556

Discharge Area (m ²)	2.846
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Soil Infiltration Rate (m/min)	0.0064076
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Soil Infiltration Rate (m/sec)	1.07E-04
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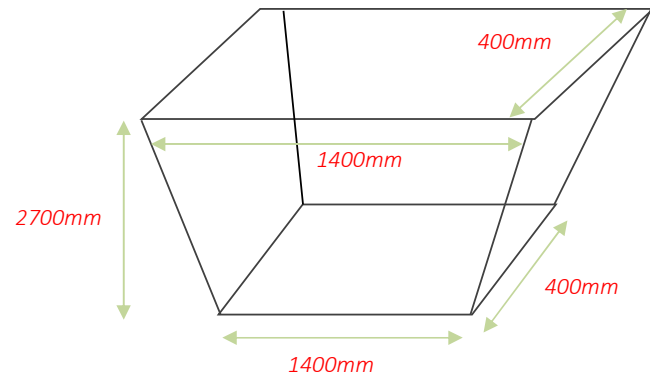
POSITION: TP05
TEST 2

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1310
1	1460
2	1560
3	1700
4	1730
5	1810
10	1880
15	1970
20	2110
25	2320
30	2540
34	2700

Pit Depth (mm): 2700

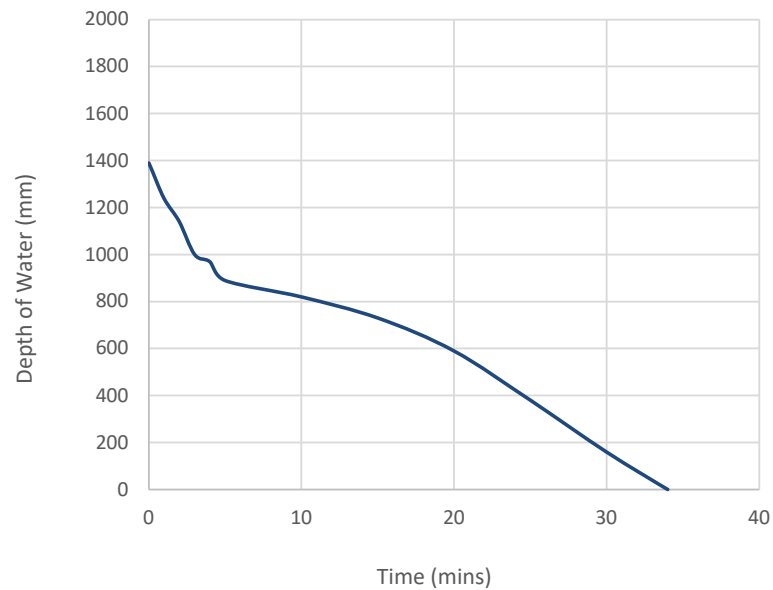
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP05
TEST 2

Depth vs Time



Volume of Pit (m ³)	1.512
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.7784

Compliance Check:

Water Level at 75% effective depth (mm)	1042.5
Water Level at 25% effective depth (mm)	347.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	1042.5
Water Level 2	347.5
Time to Drain from Level 1 to Level 2 (mins)	23
Volume of water discharged (m ³)	0.3892

Discharge Area (m ²)	3.062
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Soil Infiltration Rate (m/min)	0.0055264
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Soil Infiltration Rate (m/sec)	9.21E-05
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Sheet 1 of 2

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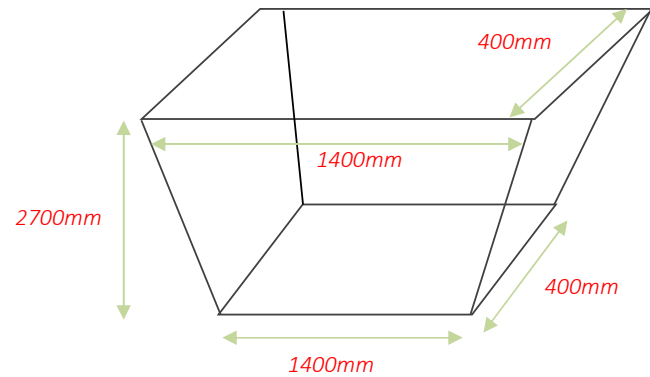
POSITION: TP05
TEST 3

Weather: Overcast

Engineer: C Hastings

Checked: R Wyatt

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1370
1	1510
2	1600
3	1690
4	1750
5	1820
10	1900
15	2060
20	2170
25	2360
30	2480
35	2590
39	2700

Pit Depth (mm): 2700

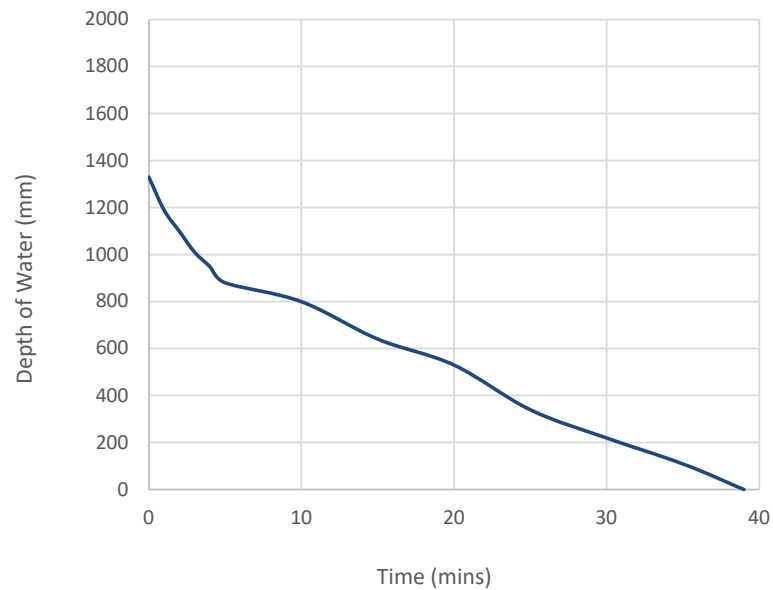
Pit Details: Open with no stone filling

Groundwater Level: NGW

SOIL PERCOLATION TEST

POSITION: TP05
TEST 3

Depth vs Time



Volume of Pit (m ³)	1.512
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.7448

Compliance Check:

Water Level at 75% effective depth (mm)	997.5
Water Level at 25% effective depth (mm)	332.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	997.5
Water Level 2	332.5
Time to Drain from Level 1 to Level 2 (mins)	22
Volume of water discharged (m ³)	0.3724

Discharge Area (m ²)	2.954
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Soil Infiltration Rate (m/min)	0.0057303
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Soil Infiltration Rate (m/sec)	9.55E-05
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