

(Consulting Engineers) Ltd

PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared DN	Checked AJK

Test No. SA1 - Test 1**Test Pit Dimensions**

Length = 1700 mm

Plan area = 1.19 m²

Width = 700 mm

Depth = 1900 mm (Total depth)

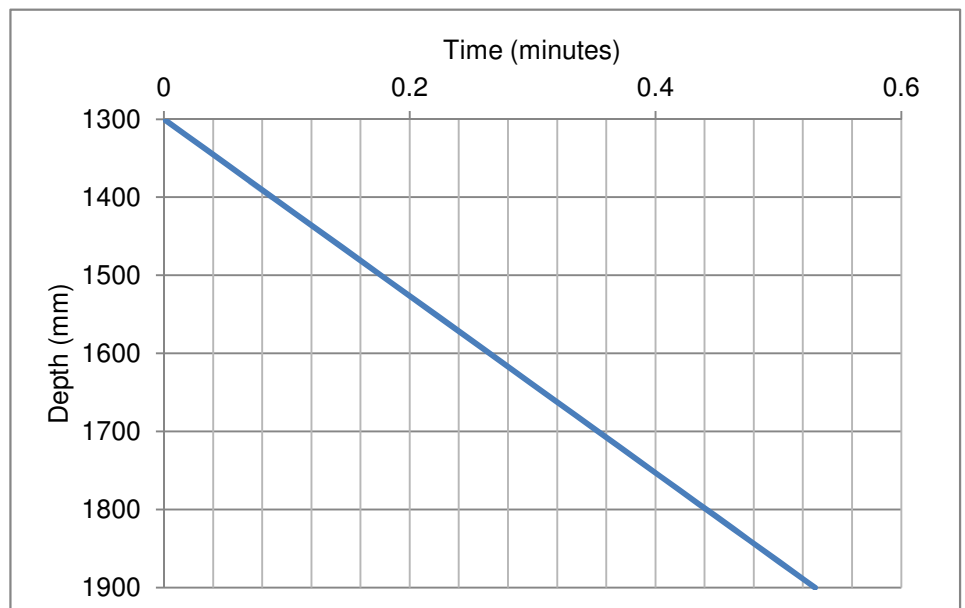
Approximate time to discharge water into the hole:

45 Seconds

Depth to water after completion of pumping:

1300 mm

Time (min)	Depth (mm)
0	1300
0.53	1900

**Depth (m)**

0.0-0.25

0.25-0.4

0.4-0.8

0.8-1.9

Description

TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel

Brown clayey SAND with occasional sandstone gravel

Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.

SANDSTONE recovered as angular sandy gravel and cobbles

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Test No. SA1 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1300** mm Average water depth: **300** mm

Start time = **0** min

Change in water depth: **600** mm

Final parameters

Depth to water = **1900** mm

Time interval: **0.53** min

End time = **0.53** min

Effective Storage Volume of Water in the Trial Pit = **0.714** m³
 75% Effective Depth = **1450** mm from ground level
 25% Effective Depth = **1750** mm from ground level
 Time at 75% Effective Depth = **0.12** minutes
 Time at 25% Effective Depth = **0.4** minutes

V_{p75-25} = **0.36** m³

a_{p50} = **2.63** m²

t_{p75-25} = **17** sec

f = **8.1E-03** m/sec

Average Soakaway Rate = **2.2E-02** m³/sec

Average soakaway area = **2.63** m² (sides + base)

BR365 Soil Infiltration Rate = 8.1E-03 m/sec

Average Infiltration Rate = 8.5E-03 m/sec

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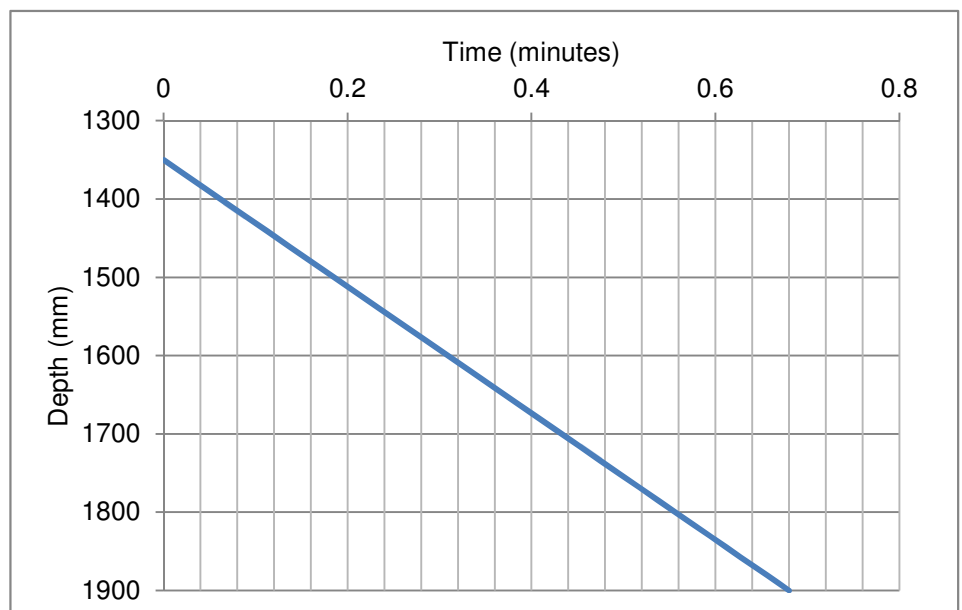
Test No. SA1 - Test 2

Test Pit Dimensions

Length = **1700** mm Plan area = **1.19** m²
 Width = **700** mm
 Depth = **1900** mm (Total depth)

Approximate time to discharge water into the hole: **35** Seconds
 Depth to water after completion of pumping: **1350** mm

Time (min)	Depth (mm)
0	1350
0.68	1900



Depth (m)	Description
0.0-0.25	TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel
0.25-0.4	Brown clayey SAND with occasional sandstone gravel
0.4-0.8	Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.
0.8-1.9	SANDSTONE recovered as angular sandy gravel and cobbles

PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
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Test No. SA1 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1350** mm Average water depth: **275** mm

Start time = **0** min

Change in water depth: **550** mm

Final parameters

Depth to water = **1900** mm

Time interval: **0.68** min

End time = **0.68** min

Effective Storage Volume of Water in the Trial Pit = **0.6545** m³
 75% Effective Depth = **1488** mm from ground level
 25% Effective Depth = **1763** mm from ground level
 Time at 75% Effective Depth = **0.16** minutes
 Time at 25% Effective Depth = **0.52** minutes

V_{p75-25} = **0.33** m³

a_{p50} = **2.51** m²

t_{p75-25} = **22** sec

f = **6.0E-03** m/sec

Average Soakaway Rate = **1.6E-02** m³/sec

Average soakaway area = **2.51** m² (sides + base)

BR365 Soil Infiltration Rate = 6.0E-03 m/sec

Average Infiltration Rate = 6.4E-03 m/sec

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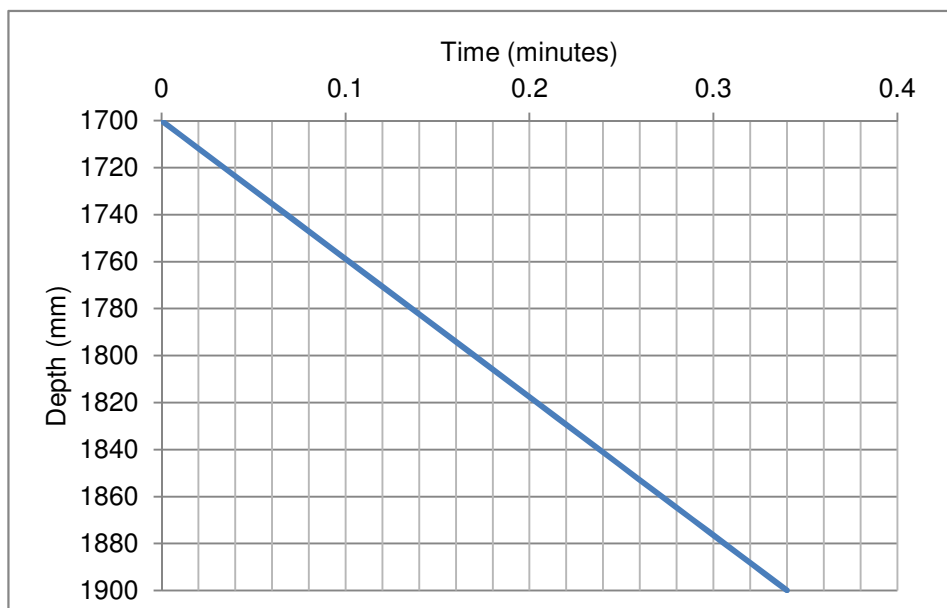
Test No. SA1 - Test 3

Test Pit Dimensions

Length = 1700 mm Plan area = 1.19 m²
 Width = 700 mm
 Depth = 1900 mm (Total depth)

Approximate time to discharge water into the hole: 60 Seconds
 Depth to water after completion of pumping: 1700 mm

Time (min)	Depth (mm)
0	1700
0.34	1900



Depth (m)	Description
0.0-0.25	TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel
0.25-0.4	Brown clayey SAND with occasional sandstone gravel
0.4-0.8	Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.
0.8-1.9	SANDSTONE recovered as angular sandy gravel and cobbles

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Test No. SA1 - Test 3

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1700** mm Average water depth: **100** mm

Start time = **0** min Change in water depth: **200** mm

Final parameters

Depth to water = **1900** mm Time interval: **0.34** min

End time = **0.34** min

Effective Storage Volume of Water in the Trial Pit = **0.238** m³
 75% Effective Depth = **1750** mm from ground level
 25% Effective Depth = **1850** mm from ground level
 Time at 75% Effective Depth = **0.09** minutes
 Time at 25% Effective Depth = **0.26** minutes

V_{p75-25} = **0.12** m³

a_{p50} = **1.67** m²

t_{p75-25} = **10** sec

f = **7.0E-03** m/sec

Average Soakaway Rate = **1.2E-02** m³/sec

Average soakaway area = **1.67** m² (sides + base)

BR365 Soil Infiltration Rate = 7.0E-03 m/sec

Average Infiltration Rate = 7.0E-03 m/sec

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PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
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Test No. SA2 - Test 1**Test Pit Dimensions**Length = **1800 mm**Plan area = **1.26 m²**Width = **700 mm**Depth = **1800 mm (Total depth)**

Approximate time to discharge water into the hole:

46 Seconds

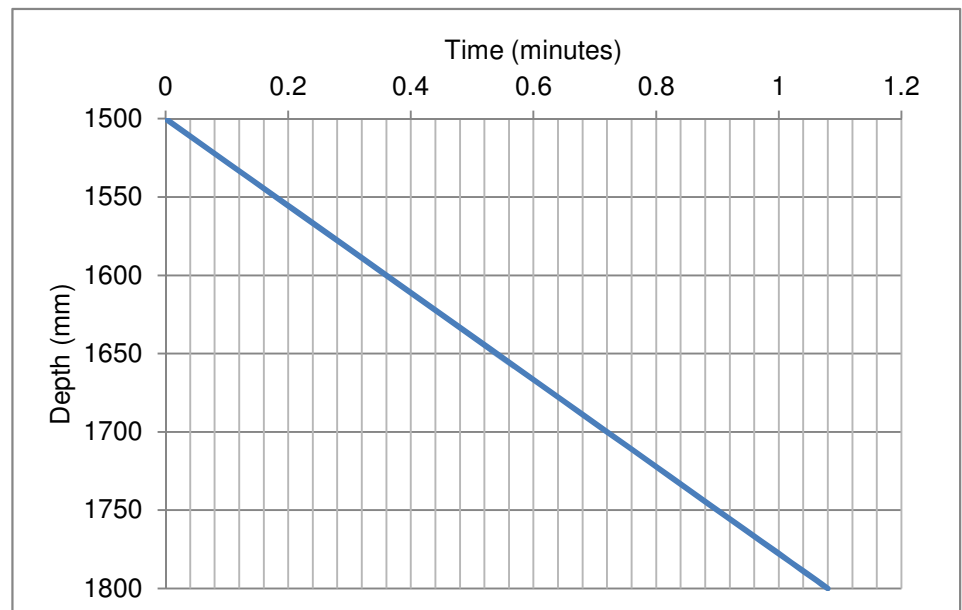
Depth to water after completion of pumping:

1500 mm**Time (min)****Depth (mm)**

0

1500

1.08

1800**Depth (m)**

0-0.3

0.3-0.7

0.7-1.8

Description

TOPSOIL: dark brown slightly clayey sand with occasional gravel of sandstone

Brown slightly clayey SAND with sandstone gravel

Yellow sandy GRAVEL with high cobble content of angular-subangular moderately strong sandstone

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Test No. SA2 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500 mm** Average water depth: **150 mm**

Start time = **0 min**

Change in water depth: **300 mm**

Final parameters

Depth to water = **1800 mm**

Time interval: **1.08 min**

End time = **1.08 min**

Effective Storage Volume of Water in the Trial Pit = **0.378 m³**
 75% Effective Depth = **1575 mm** from ground level
 25% Effective Depth = **1725 mm** from ground level
 Time at 75% Effective Depth = **0.28 minutes**
 Time at 25% Effective Depth = **0.8 minutes**

V_{p75-25} = **0.19 m³**

a_{p50} = **2.01 m²**

t_{p75-25} = **31 sec**

f = **3.0E-03 m/sec**

Average Soakaway Rate = **5.8E-03 m³/sec**

Average soakaway area = **2.01 m² (sides + base)**

BR365 Soil Infiltration Rate = 3.0E-03 m/sec

Average Infiltration Rate = 2.9E-03 m/sec

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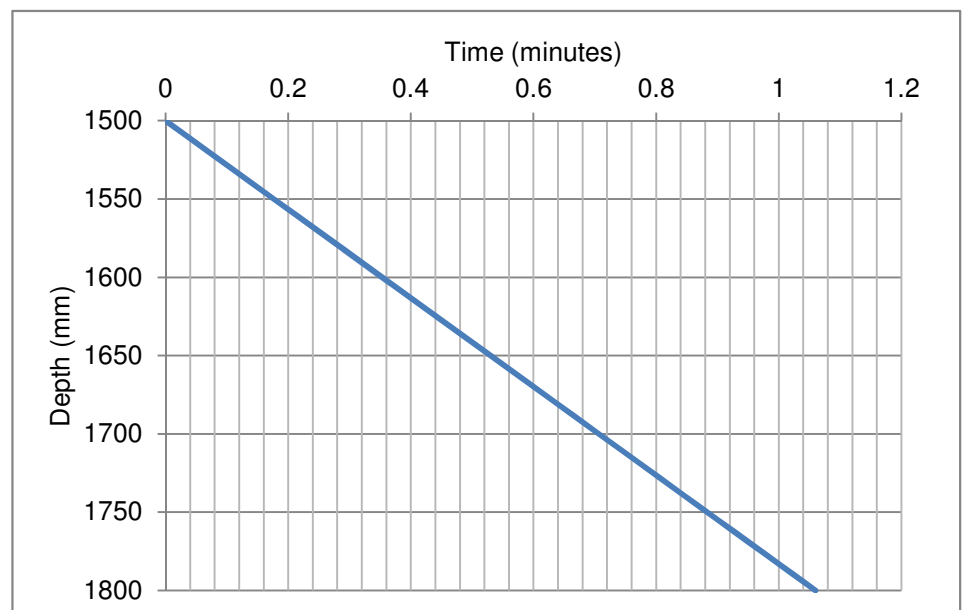
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Test No. SA2 - Test 2**Test Pit Dimensions**Length = **1800 mm**Plan area = **1.26 m²**Width = **700 mm**Depth = **1800 mm (Total depth)**

Approximate time to discharge water into the hole:

45 Seconds

Depth to water after completion of pumping:

1500 mm**Time (min)** **Depth (mm)**0 **1500**1.06 **1800****Depth (m)**

0-0.3

0.3-0.7

0.7-1.8

Description

TOPSOIL: dark brown slightly clayey sand with occasional gravel of sandstone

Brown slightly clayey SAND with sandstone gravel

Yellow sandy GRAVEL with high cobble content of angular-subangular moderately strong sandstone

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Test No. SA2 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500** mm Average water depth: **150** mm

Start time = **0** min

Change in water depth: **300** mm

Final parameters

Depth to water = **1800** mm

Time interval: **1.06** min

End time = **1.06** min

Effective Storage Volume of Water in the Trial Pit = **0.378** m³
 75% Effective Depth = **1575** mm from ground level
 25% Effective Depth = **1725** mm from ground level
 Time at 75% Effective Depth = **0.28** minutes
 Time at 25% Effective Depth = **0.8** minutes

V_{p75-25} = **0.19** m³

a_{p50} = **2.01** m²

t_{p75-25} = **31** sec

f = **3.0E-03** m/sec

Average Soakaway Rate = **5.9E-03** m³/sec

Average soakaway area = **2.01** m² (sides + base)

BR365 Soil Infiltration Rate = 3.0E-03 m/sec

Average Infiltration Rate = 3.0E-03 m/sec

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Test No. SA3 - Test 1**Test Pit Dimensions**Length = **1800 mm**Plan area = **1.17 m²**Width = **650 mm**Depth = **2000 mm (Total depth)**

Approximate time to discharge water into the hole:

36 Seconds

Depth to water after completion of pumping:

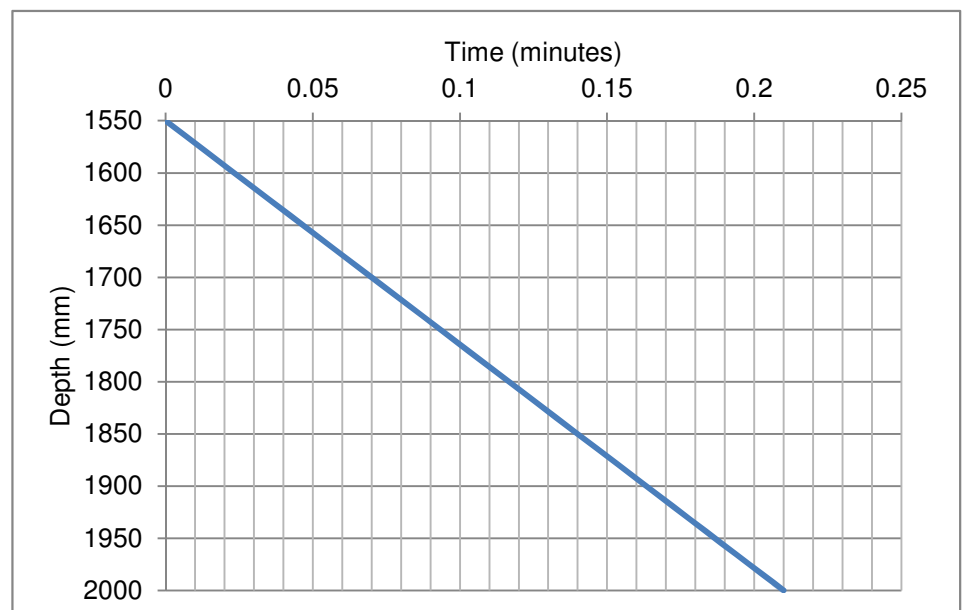
1550 mm**Time (min)****Depth (mm)**

0

1550

0.21

2000

**Depth (m)**

0-0.3

0.3-0.5

0.5-2.0

Description

TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone

Brown slightly clayey slightly gravelly SAND with occasional sandstone gravel

Yellow sandy gravel with medium cobble content. Gravel and cobbles are sub-angular of moderately strong sandstone

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Test No. SA3 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1550 mm** Average water depth: **225 mm**

Start time = **0 min**

Change in water depth: **450 mm**

Final parameters

Depth to water = **2000 mm** Time interval: **0.21 min**

End time = **0.21 min**

Effective Storage Volume of Water in the Trial Pit = **0.5265 m³**
 75% Effective Depth = **1663 mm** from ground level
 25% Effective Depth = **1888 mm** from ground level
 Time at 75% Effective Depth = **0.055 minutes**
 Time at 25% Effective Depth = **0.155 minutes**

V_{p75-25} = **0.26 m³**

a_{p50} = **2.27 m²**

t_{p75-25} = **6 sec**

f = **1.9E-02 m/sec**

Average Soakaway Rate = **4.2E-02 m³/sec**

Average soakaway area = **2.27 m² (sides + base)**

BR365 Soil Infiltration Rate = 1.9E-02 m/sec

Average Infiltration Rate = 1.8E-02 m/sec

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Test No. SA3 - Test 2**Test Pit Dimensions**Length = **1800 mm**Plan area = **1.17 m²**Width = **650 mm**Depth = **2000 mm (Total depth)**

Approximate time to discharge water into the hole:

31 Seconds

Depth to water after completion of pumping:

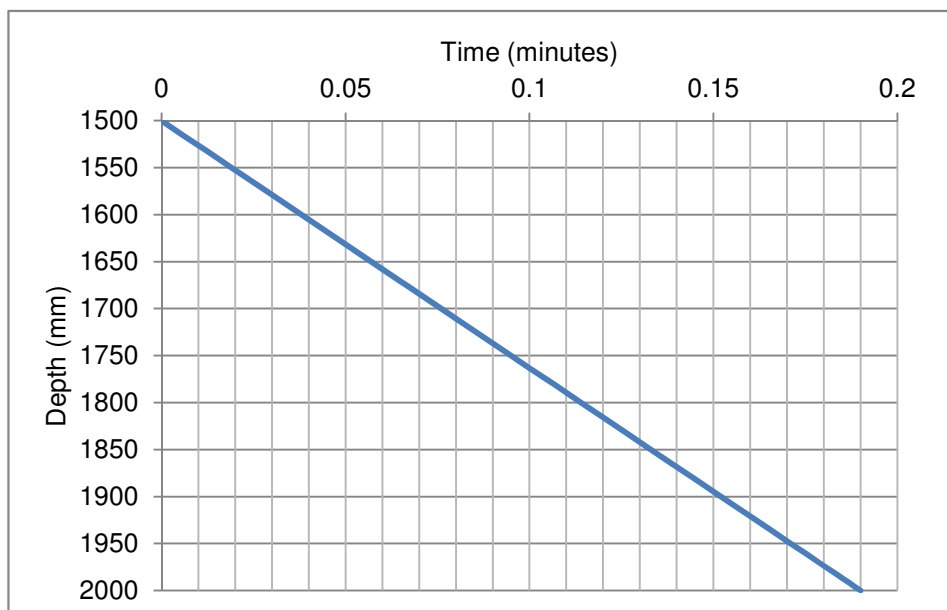
1550 mm**Time (min)****Depth (mm)**

0

1500

0.19

2000

**Depth (m)****Description**

0-0.3

TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone

0.3-0.5

Brown slightly clayey slightly gravelly SAND with occasional sandstone gravel

0.5-2.0

Yellow sandy gravel with medium cobble content. Gravel and cobbles are sub-angular of moderately strong sandstone

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Test No. SA3 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500 mm** Average water depth: **250 mm**
 Start time = **0 min** Change in water depth: **500 mm**

Final parameters

Depth to water = **2000 mm** Time interval: **0.19 min**
 End time = **0.19 min**

Effective Storage Volume of Water in the Trial Pit = **0.585 m³**
 75% Effective Depth = **1625 mm** from ground level
 25% Effective Depth = **1875 mm** from ground level
 Time at 75% Effective Depth = **0.05 minutes**
 Time at 25% Effective Depth = **0.14 minutes**

V_{p75-25} = **0.29 m³**
 a_{p50} = **2.40 m²**
 t_{p75-25} = **5 sec**
 f = **2.3E-02 m/sec**

Average Soakaway Rate = **5.1E-02 m³/sec**
 Average soakaway area = **2.40 m²** (sides + base)

BR365 Soil Infiltration Rate = 2.3E-02 m/sec
Average Infiltration Rate = 2.1E-02 m/sec

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PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
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Test No. SA4 - Test 1**Test Pit Dimensions**Length = **1600 mm**Plan area = **1.04 m²**Width = **650 mm**Depth = **2100 mm (Total depth)**

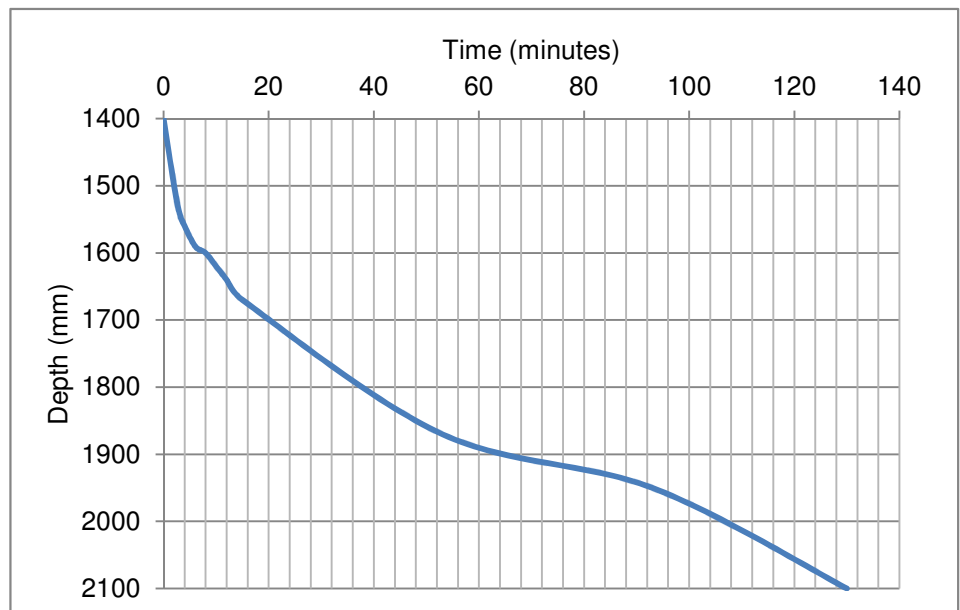
Approximate time to discharge water into the hole:

22 Seconds

Depth to water after completion of pumping:

1400 mm**Time (min) Depth (mm)**

0	1400
1	1450
2	1500
3	1540
4	1560
6	1590
8	1600
10	1620
12	1640
15	1670
53	1870
93	1950
130	2100

**Depth (m)**

0-0.2
0.2-0.3
0.3-2.1

Description

TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone.
Brown slightly clayey SAND with occasional gravel of sandstone.
Yellow slightly clayey gravelly SAND with medium cobble content.

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Test No. SA4 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1400 mm** Average water depth: **350 mm**

Start time = **0 min**

Change in water depth: **700 mm**

Final parameters

Depth to water = **2100 mm**

Time interval: **130 min**

End time = **130 min**

Effective Storage Volume of Water in the Trial Pit = **0.728 m³**
 75% Effective Depth = **1575 mm** from ground level
 25% Effective Depth = **1925 mm** from ground level
 Time at 75% Effective Depth = **5 minutes**
 Time at 25% Effective Depth = **80 minutes**

V_{p75-25} = **0.36 m³**

a_{p50} = **2.62 m²**

t_{p75-25} = **4500 sec**

f = **3.1E-05 m/sec**

Average Soakaway Rate = **9.3E-05 m³/sec**

Average soakaway area = **2.62 m² (sides + base)**

BR365 Soil Infiltration Rate = 3.1E-05 m/sec

Average Infiltration Rate = 3.6E-05 m/sec

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PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
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Test No. SA5 - Test 1**Test Pit Dimensions**Length = **1300 mm**Plan area = **0.845 m²**Width = **650 mm**Depth = **1880 mm (Total depth)**

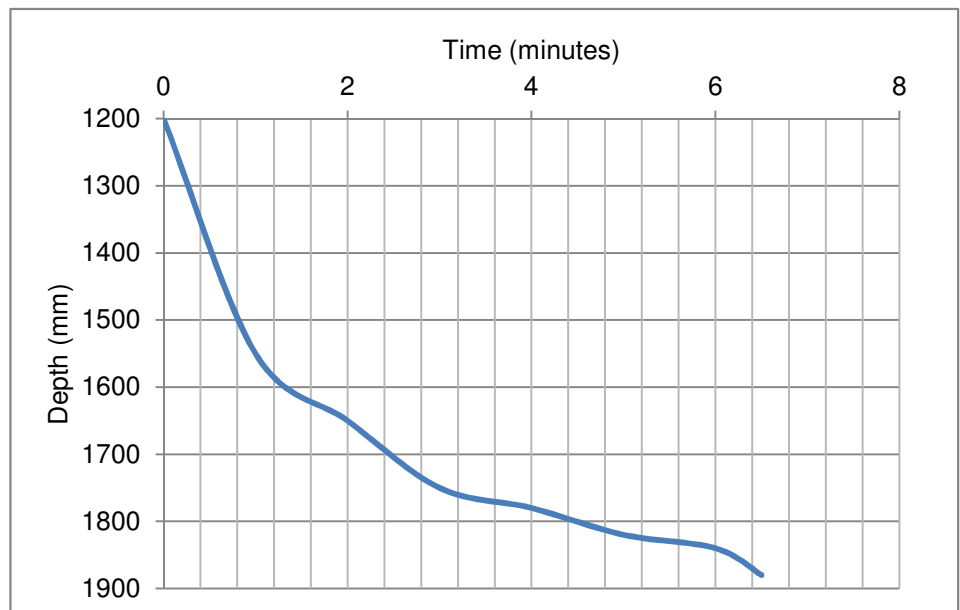
Approximate time to discharge water into the hole:

27 Seconds

Depth to water after completion of pumping:

1200 mm**Time (min) Depth (mm)**

0	1200
1	1550
2	1650
3	1750
4	1780
5	1820
6	1840
6.5	1880

**Depth (m)**

0-0.25

0.25-0.7

0.7-1.8

Description

TOPSOIL: Dark brown slightly clayey SAND with occasional sandstone gravel.

MADE GROUND: Brown gravelly SAND with medium cobble content. Gravel and cobbles of subangular-subrounded sandstone.

Yellow gravelly SAND becoming yellow sandy gravel and cobbles of sandstone.

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Test No. SA5 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1200 mm** Average water depth: **340 mm**

Start time = **0 min**

Change in water depth: **680 mm**

Final parameters

Depth to water = **1880 mm**

Time interval: **6.5 min**

End time = **6.5 min**

Effective Storage Volume of Water in the Trial Pit	=	0.5746 m³
75% Effective Depth	=	1370 mm from ground level
25% Effective Depth	=	1710 mm from ground level
Time at 75% Effective Depth	=	0.4 minutes
Time at 25% Effective Depth	=	2.8 minutes

V_{p75-25} = **0.29 m³**

a_{p50} = **2.17 m²**

t_{p75-25} = **144 sec**

f = **9.2E-04 m/sec**

Average Soakaway Rate = **1.5E-03 m³/sec**

Average soakaway area = **2.17 m² (sides + base)**

BR365 Soil Infiltration Rate = 9.2E-04 m/sec

Average Infiltration Rate = 6.8E-04 m/sec

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PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
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Test No. SA5 - Test 2**Test Pit Dimensions**Length = **1300 mm**Plan area = **0.845 m²**Width = **650 mm**Depth = **1880 mm (Total depth)**

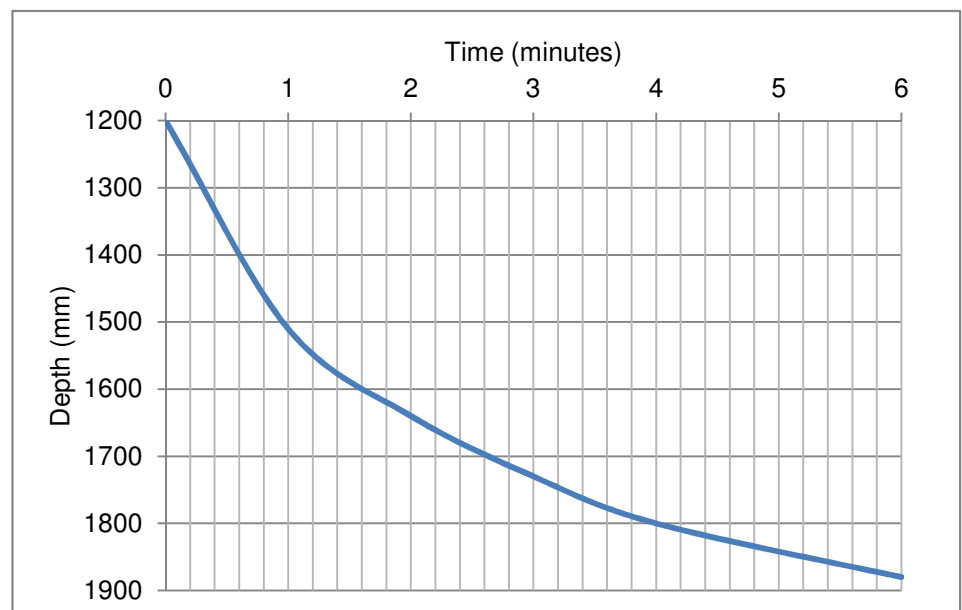
Approximate time to discharge water into the hole:

20 Seconds

Depth to water after completion of pumping:

1200 mm

Time (min)	Depth (mm)
0	1200
1	1510
2	1640
3	1730
4	1800
6	1880

**Depth (m)**

0-0.25

0.25-0.7

0.7-1.8

Description

TOPSOIL: Dark brown slightly clayey SAND with occasional sandstone gravel.

MADE GROUND: Brown gravelly SAND with medium cobble content. Gravel and cobbles of subangular-subrounded sandstone.

Yellow gravelly SAND becoming yellow sandy gravel and cobbles of sandstone.

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Test No. SA5 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1200 mm** Average water depth: **340 mm**

Start time = **0 min**

Change in water depth: **680 mm**

Final parameters

Depth to water = **1880 mm**

Time interval: **6 min**

End time = **6 min**

Effective Storage Volume of Water in the Trial Pit = **0.5746 m³**
 75% Effective Depth = **1370 mm** from ground level
 25% Effective Depth = **1710 mm** from ground level
 Time at 75% Effective Depth = **0.5 minutes**
 Time at 25% Effective Depth = **2.8 minutes**

V_{p75-25} = **0.29 m³**

a_{p50} = **2.17 m²**

t_{p75-25} = **138 sec**

f = **9.6E-04 m/sec**

Average Soakaway Rate = **1.6E-03 m³/sec**

Average soakaway area = **2.17 m² (sides + base)**

BR365 Soil Infiltration Rate = 9.6E-04 m/sec

Average Infiltration Rate = 7.4E-04 m/sec