

APPENDIX B

Infiltration test results (storm water drainage assessment)

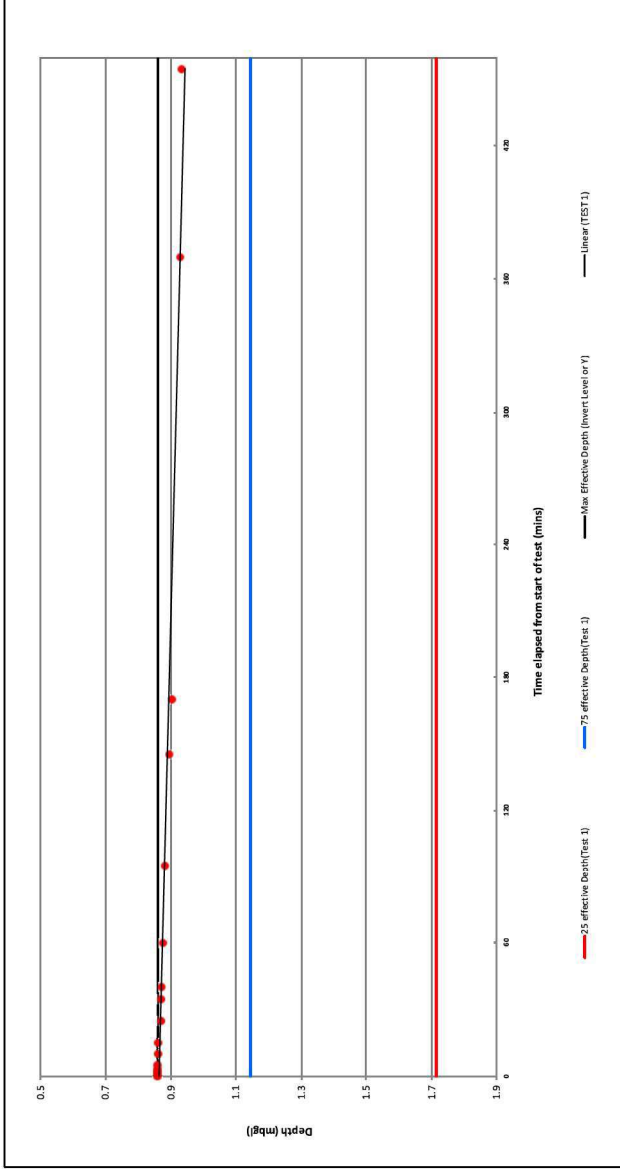
| | |
|------|----------------|
| 1.00 | m |
| 1 | |
| 0.78 | m ³ |

Design effective depth ('): 1.2
 Gravel porosity: 0.65
 Depth to Groundwater: 2
 Design effective depth volume: 0.78

Parameters:
 Trial pit length (m): 1.2
 Trial pit width (m): 0.65
 Trial pit depth (m): 2

Pit reference: TP01
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BRE365
 Datum (mbgl): 0

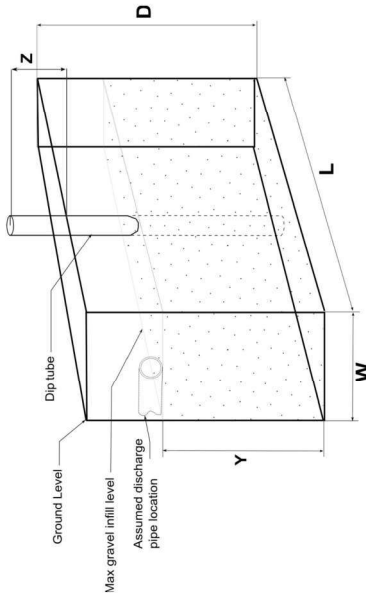
| TEST1 | Time | Elapsed (min) | Water dip (mbgl) | Depth of water in pit (m)* |
|-------|----------|---------------|------------------|----------------------------|
| | 09:15:00 | 0.0 | 0.860 | 1.14 |
| | | 1.0 | 0.860 | 1.14 |
| | | 2.0 | 0.860 | 1.14 |
| | | 3.0 | 0.860 | 1.14 |
| | | 5.0 | 0.860 | 1.14 |
| | | 10.0 | 0.865 | 1.14 |
| | | 15.0 | 0.865 | 1.14 |
| | | 25.0 | 0.870 | 1.13 |
| | | 35.0 | 0.870 | 1.13 |
| | | 40.0 | 0.875 | 1.13 |
| | | 60.0 | 0.879 | 1.12 |
| | | 95.0 | 0.885 | 1.12 |
| | | 145.0 | 0.898 | 1.10 |
| | | 170.0 | 0.905 | 1.10 |
| | | 370.0 | 0.930 | 1.07 |
| | | 455.0 | 0.935 | 1.07 |



| | | | |
|----------------------|------|------------------------|------|
| Test effective depth | 1.14 | m (Water depth at t=0) | 1.46 |
| 75% effective depth: | 0.86 | m | 1.48 |
| 50% effective depth: | 0.57 | m | 1.75 |
| 25% effective depth: | 0.29 | m | |
| t75 | N/A | min | |
| t50 | N/A | min | |
| t25 | N/A | min | |

| | | |
|-----------------------------|------|----------------|
| Vp75-25 | 0.44 | m ³ |
| Vp75 - Vp25 (corrected) | 0.44 | m ³ |
| ap50 | 2.89 | m ² |
| Ip75-25 | N/A | min |
| Soil infiltration rate (f): | N/A | m/s |
| | N/A | mm/sec |
| | N/A | m/day |

| From | To | Description |
|------|------|--|
| 0.00 | 1.60 | Grey-brown slightly gravelly clay. Gravel is fine to coarse and predominantly sub angular. |
| 1.60 | 2.00 | Weathered mudstone (recovered as angular gravel and cobbles). |



Soil infiltration rate, $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

where:
 V_{p75-25} = the effective storage volume of water in the trial pit between 75% and 25% effective depth;
 a_{p50} = the internal surface area of the trial pit up to 50% effective depth and including the base area;
 t_{p75-25} = the time for the water level to fall from 75% to 25% effective depth.

Pit reference: TP02
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BRE365
 Datum (mbgl): 0 (Z)

Parameters:
 Trial pit length (m): (L)
 Trial pit width (m): (W)
 Trial pit depth (m): (D)

| | |
|-----|-----|
| 1.9 | (L) |
| 1.1 | (W) |
| 2 | (D) |

Design effective depth (Y):
 Gravel porosity:
 Depth to Groundwater:
 Design effective depth volume:

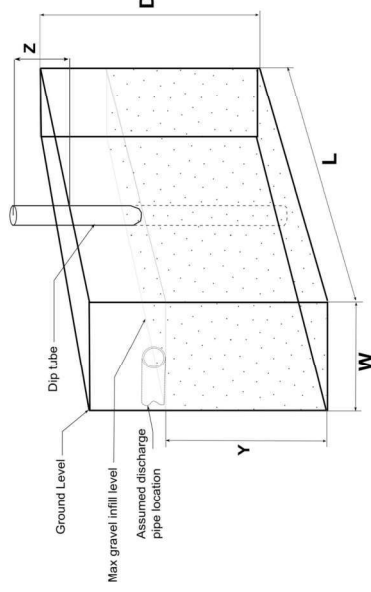
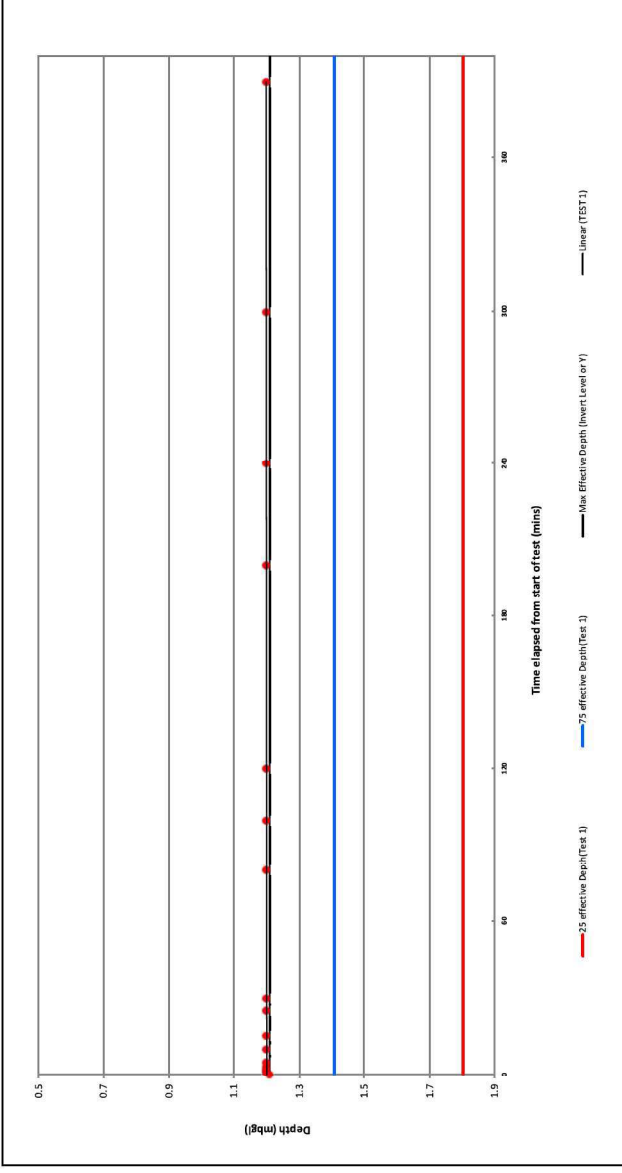
| | |
|------|------|
| 1.00 | m |
| 1 | |
| 2.00 | mbgl |
| | m3 |

Completed by: AJS

| TEST1 | Time | Elapsed (min) | Water dip (mbgl) | Depth of water in pit (m)* |
|-------|----------|---------------|------------------|----------------------------|
| | 10:20:00 | 0.0 | 1.210 | 0.79 |
| | | 1.0 | 1.200 | 0.80 |
| | | 2.0 | 1.200 | 0.80 |
| | | 3.0 | 1.200 | 0.80 |
| | | 5.0 | 1.200 | 0.80 |
| | | 10.0 | 1.200 | 0.80 |
| | | 15.0 | 1.200 | 0.80 |
| | | 25.0 | 1.200 | 0.80 |
| | | 30.0 | 1.200 | 0.80 |
| | | 80.0 | 1.200 | 0.80 |
| | | 100.0 | 1.200 | 0.80 |
| | | 120.0 | 1.200 | 0.80 |
| | | 200.0 | 1.200 | 0.80 |
| | | 240.0 | 1.200 | 0.80 |
| | | 300.0 | 1.200 | 0.80 |
| | | 390.0 | 1.200 | 0.80 |

| | | | | |
|----------------------|------|-----|----------------------|--------|
| Test effective depth | 0.79 | m | (Water depth at t=0) | 1.4605 |
| 75% effective depth: | 0.59 | m | | 1.666 |
| 50% effective depth: | 0.40 | m | | 1.8605 |
| 25% effective depth: | 0.20 | m | | |
| t75 | N/A | min | | |
| t50 | N/A | min | | |
| t25 | N/A | min | | |

| | | |
|-----------------------------|------|--------|
| Vp75-25 | 0.83 | m3 |
| Vp75 - Vp25 (corrected) | 0.83 | m3 |
| ap50 | 4.46 | m2 |
| Ip75-25 | N/A | min |
| Soil infiltration rate (f): | N/A | m/s |
| | N/A | mm/sec |
| | N/A | m/day |



Soil infiltration rate, $f = \frac{V}{a_{p50} \times t_{p50-25}}$

where:
 V_{p50-25} = the effective storage volume of water in the trial pit between 75% and 25% effective depth;
 a_{p50} = the internal surface area of the trial pit up to 50% effective depth and including the base area;
 t_{p50-25} = the time for the water level to fall from 75% to 25% effective depth.

| From | To | Description |
|------|------|---|
| 0.00 | 0.70 | Grey-brown gravelly silty clay. Gravel is fine to coarse and predominantly sub angular. |
| 0.70 | 2.00 | Weathered mudstone (recovered as angular gravel and cobbles). |

Completed by: AJS

| | |
|------|----------------|
| 1.00 | m |
| 1 | |
| 1.04 | m ³ |

Design effective depth (Y)
Gravel porosity:
Depth to Groundwater:
Design effective depth volume:

| | |
|------|-----|
| 1.6 | (L) |
| 0.65 | (W) |
| 1.6 | (D) |

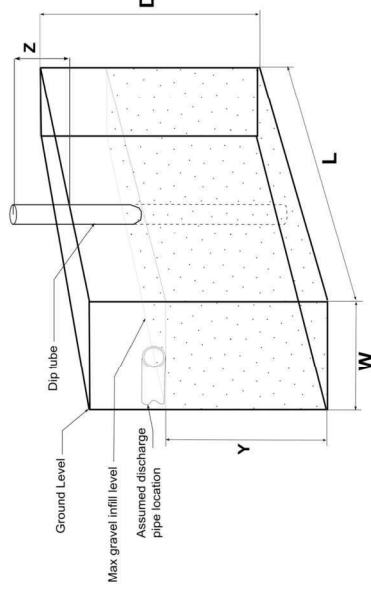
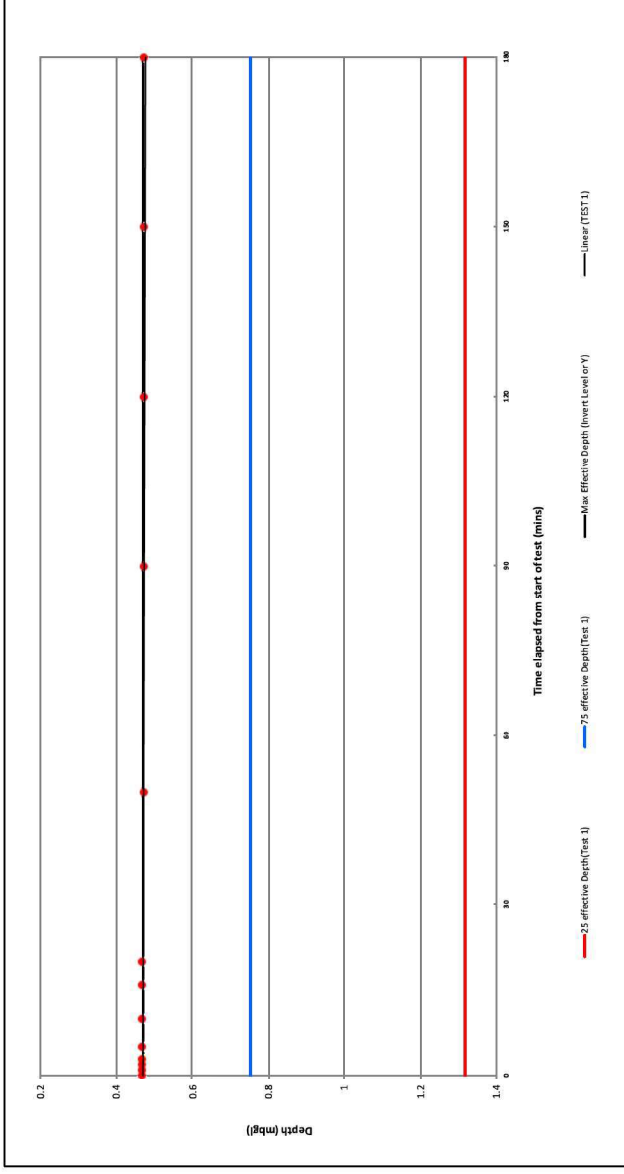
Parameters:
 Trial pit length (m):
 Trial pit width (m):
 Trial pit depth (m):

Pit reference: TP04
Project: 4196
Date of infiltration test: 28/04/2021
Method: BRE365
Datum (mbgl): 0 (Z)

| TEST1 | Time | Elapsed (min) | Water dip (mbgl) | Depth of water in pit (m)* |
|-------|----------|---------------|------------------|----------------------------|
| | 14:15:00 | 0.0 | 0.470 | 1.13 |
| | | 1.0 | 0.470 | 1.13 |
| | | 2.0 | 0.470 | 1.13 |
| | | 3.0 | 0.470 | 1.13 |
| | | 5.0 | 0.470 | 1.13 |
| | | 10.0 | 0.470 | 1.13 |
| | | 16.0 | 0.470 | 1.13 |
| | | 20.0 | 0.470 | 1.13 |
| | | 50.0 | 0.475 | 1.13 |
| | | 90.0 | 0.475 | 1.13 |
| | | 120.0 | 0.475 | 1.13 |
| | | 150.0 | 0.475 | 1.13 |
| | | 180.0 | 0.475 | 1.13 |
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|----------------------|------|------------------------|
| Test effective depth | 1.13 | m (Water depth at t=0) |
| 75% effective depth: | 0.85 | m |
| 50% effective depth: | 0.57 | m |
| 25% effective depth: | 0.28 | m |
| t75 | N/A | min |
| t50 | N/A | min |
| t25 | N/A | min |

| | | |
|-----------------------------|------|----------------|
| Vp75-25 | 0.59 | m ³ |
| Vp75 - Vp25 (corrected) | 0.59 | m ³ |
| ap50 | 3.58 | m ² |
| Ip75-25 | N/A | m/min |
| Soil infiltration rate (f): | N/A | m/s |
| | N/A | mm/sec |
| | N/A | m/day |



Soil infiltration rate, $f = \frac{V}{a_{p50} \times t_{p50-25}}$
 where:
 V_{p50-25} = the effective storage volume of water in the trial pit between 75% and 25% effective depth;
 a_{p50} = 50% effective depth of the trial pit up to area;
 t_{p50-25} = the time for the water level to fall from 75% to 25% effective depth.

| From | To | Description |
|------|------|--|
| 0.00 | 0.20 | Brown silty clay with roots (TOPSOIL). |
| 0.20 | 0.45 | Firm to stiff grey-brown clay. |
| 0.45 | 1.60 | Firm to stiff brown gravelly clay. Gravel is fine to coarse and sub rounded to angular. Occasional rounded cobbles and boulders. |

| | |
|---------------|------------|
| Date: | 07/05/2021 |
| Sheet number: | TP05 |
| Ver. | 1 - Page 1 |

Completed by: AUS

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|------|----------------|
| 1.00 | m |
| 1 | |
| 1.09 | m ³ |

Design effective depth (Y)
Gravel porosity
Depth to Groundwater
Design effective depth volume:

| | |
|------|-----|
| 1.55 | (L) |
| 0.7 | (W) |
| 1.6 | (D) |

Parameters:
Trial pit length (m):
Trial pit width (m):
Trial pit depth (m):

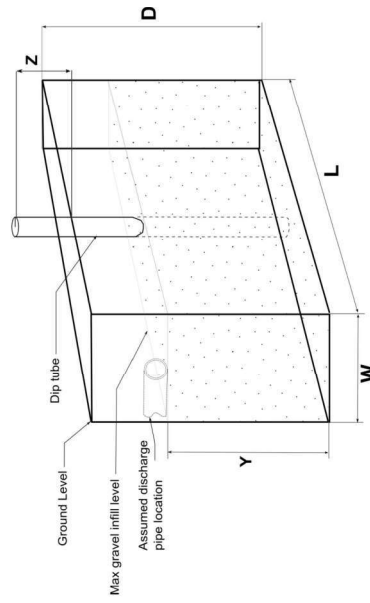
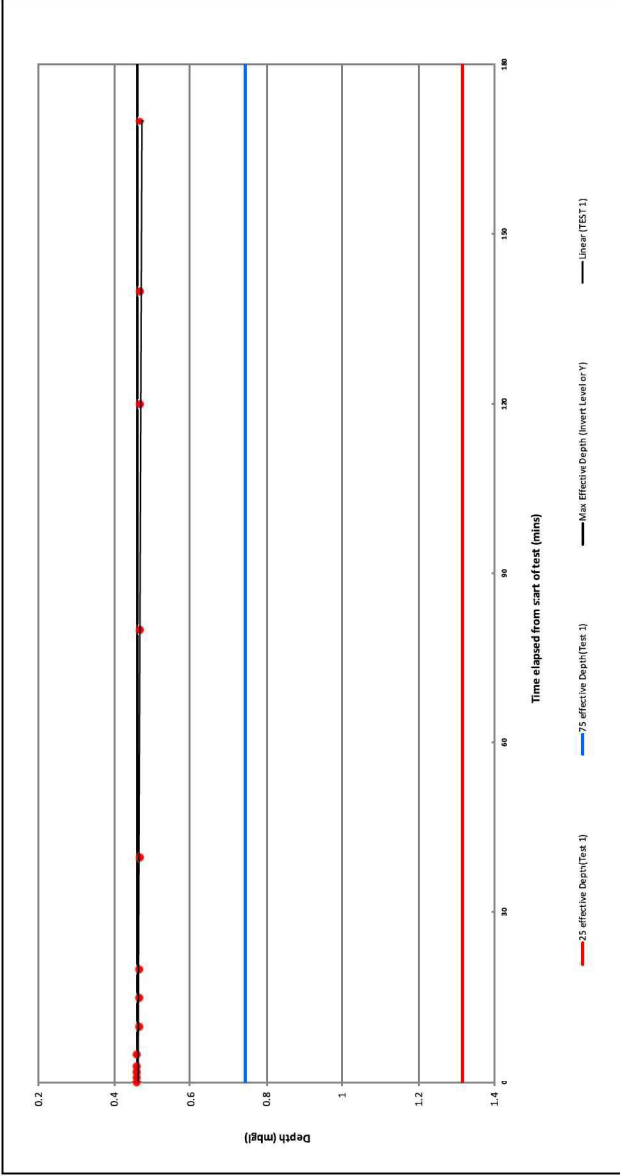
(Z)

Pit reference: TP05
Project: 4196
Date of infiltration test: 28/04/2021
Method: BRE365
Datum (mbgl): 0

| TEST 1 | Time | Elapsed (min) | Water dip (mbgl) | Depth of water in pit (m)* |
|--------|----------|---------------|------------------|----------------------------|
| | 11:20:00 | 0.0 | 0.460 | 1.14 |
| | | 1.0 | 0.460 | 1.14 |
| | | 2.0 | 0.460 | 1.14 |
| | | 3.0 | 0.460 | 1.14 |
| | | 5.0 | 0.460 | 1.14 |
| | | 10.0 | 0.465 | 1.14 |
| | | 15.0 | 0.465 | 1.14 |
| | | 20.0 | 0.465 | 1.14 |
| | | 40.0 | 0.470 | 1.13 |
| | | 80.0 | 0.470 | 1.13 |
| | | 120.0 | 0.470 | 1.13 |
| | | 140.0 | 0.470 | 1.13 |
| | | 170.0 | 0.470 | 1.13 |
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Test effective depth: 1.14 m (Water depth at t=0)
75% effective depth: 0.86 m 0.745
50% effective depth: 0.57 m 1.03
25% effective depth: 0.29 m 1.315
t75 N/A min
t50 N/A min
t25 N/A min

Vp75:25 m3
Vp75 - Vp25 (corrected) 0.62 m3
ap50 3.65 m2
Ip75:25 N/A min
Soil infiltration rate (f): N/A m/s
mm/sec
m/day



$$\text{Soil infiltration rate, } f = \frac{V_{\text{pit}-25}}{a_{\text{pit}} \times t_{\text{pit}-25}}$$

where:
 $V_{\text{pit}-25}$ = the effective storage volume of water in the trial pit between 75% and 25% effective depth;
 a_{pit} = the internal surface area of the trial pit up to 50% effective depth and including the base area;
 $t_{\text{pit}-25}$ = the time for the water level to fall from 75% to 25% effective depth.

| Soil Log: | From | To | Description |
|-----------|------|------|--|
| | 0.00 | 0.15 | Brown silty clay with roots (TOPSOIL). |
| | 0.15 | 0.55 | Firm to stiff grey-brown clay. |
| | 0.55 | 1.60 | Firm to stiff brown gravelly clay. Gravel is fine to coarse and sub rounded to angular. Occasional rounded cobbles and boulders. |

APPENDIX C

Percolation test results (foul drainage assessment)

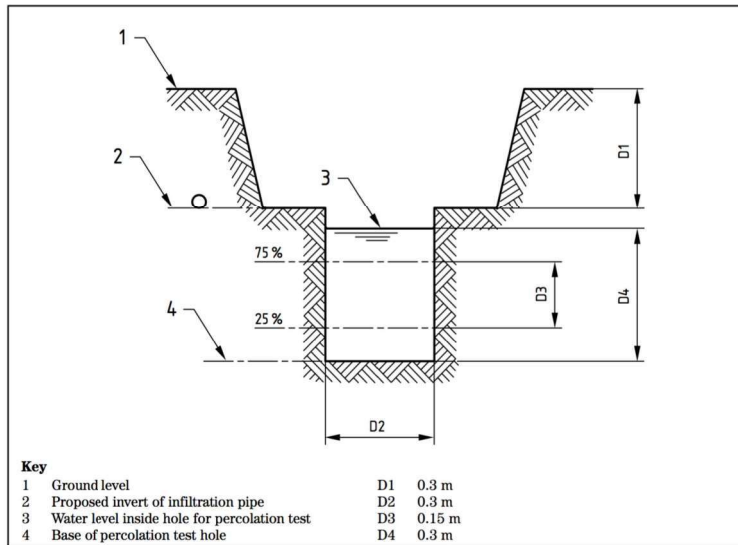
Pit reference: HP01
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:

| | | |
|------------------------------------|-----|------|
| Upper excavation depth (m): | 0.3 | (D1) |
| Hand pit depth below D1 (m): | 0.3 | (D4) |
| Width of hand pit (m): | 0.3 | (D2) |
| Starting water level below D1 (m): | 0 | |

| | |
|-----------------|------------|
| Date: | 01/05/2021 |
| Sheet number: | HP01 |
| Ver. 1 - Page 1 | |

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 11:24:00 | 0.0 | 0.000 | 0.300 |
| | 1.0 | 0.000 | 0.300 |
| | 2.0 | 0.000 | 0.300 |
| | 3.0 | 0.000 | 0.300 |
| | 4.0 | 0.000 | 0.300 |
| | 5.0 | 0.000 | 0.300 |
| | 10.0 | 0.000 | 0.300 |
| | 15.0 | 0.000 | 0.300 |
| | 45.0 | -0.005 | 0.305 |
| | 90.0 | -0.007 | 0.307 |
| | 250.0 | -0.030 | 0.330 |
| | 330.0 | -0.035 | 0.335 |
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|------------------------------|------|------|
| Test effective depth | 0.30 | m |
| 75% effective depth: | 0.23 | m |
| 25% effective depth: | 0.08 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

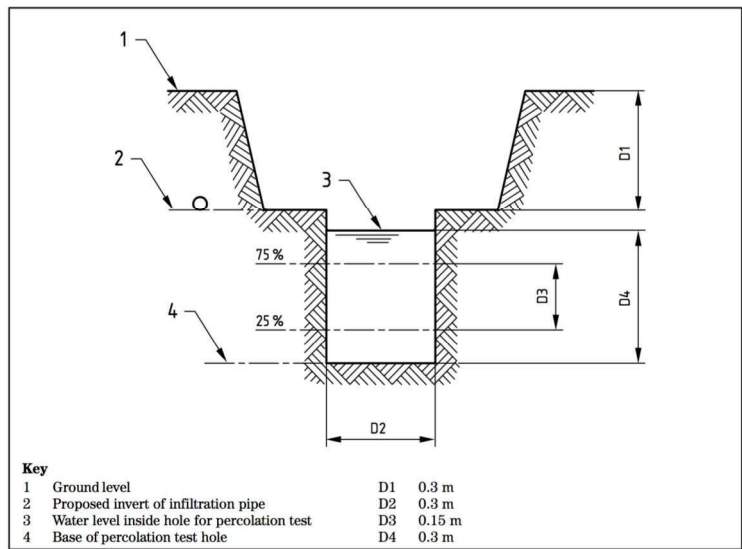
| From | To | Description |
|----------|------|---|
| 0.00 | 0.60 | Firm to stiff brown to dark grey gravelly silty clay. Gravel is fine to coarse and predominantly sub angular to angular. Some sub rounded cobbles. |
| Comments | | Gradual water seepage observed into hand pit prior to percolation test; c. 5 cm of water recorded in base of pit 20 mins after excavation (prior to testing). Following the flooding of the hand pit for testing purposes the water level gradually rose above the top of the hand pit level (3.5 cm above the starting level 5 hours after the start of the percolation test). |

Pit reference: HP02
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:
 Upper excavation depth (m): 0.35 (D1)
 Hand pit depth below D1 (m): 0.25 (D4)
 Width of hand pit (m): 0.3 (D2)
 Starting water level below D1 (m): 0

Date: 01/05/2021
 Sheet number: HP02
 Ver. 1 - Page1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 11:28:00 | 0.0 | 0.000 | 0.250 |
| | 1.0 | 0.000 | 0.250 |
| | 2.0 | 0.000 | 0.250 |
| | 3.0 | 0.000 | 0.250 |
| | 4.0 | 0.000 | 0.250 |
| | 5.0 | 0.000 | 0.250 |
| | 10.0 | 0.000 | 0.250 |
| | 45.0 | 0.001 | 0.249 |
| | 80.0 | 0.002 | 0.248 |
| | 100.0 | 0.003 | 0.247 |
| | 245.0 | 0.006 | 0.244 |
| | 330.0 | 0.007 | 0.243 |
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Key
 1 Ground level
 2 Proposed invert of infiltration pipe
 3 Water level inside hole for percolation test
 4 Base of percolation test hole
 D1 0.3 m
 D2 0.3 m
 D3 0.15 m
 D4 0.3 m

| | | |
|------------------------------|------|------|
| Test effective depth | 0.25 | m |
| 75% effective depth: | 0.19 | m |
| 25% effective depth: | 0.06 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

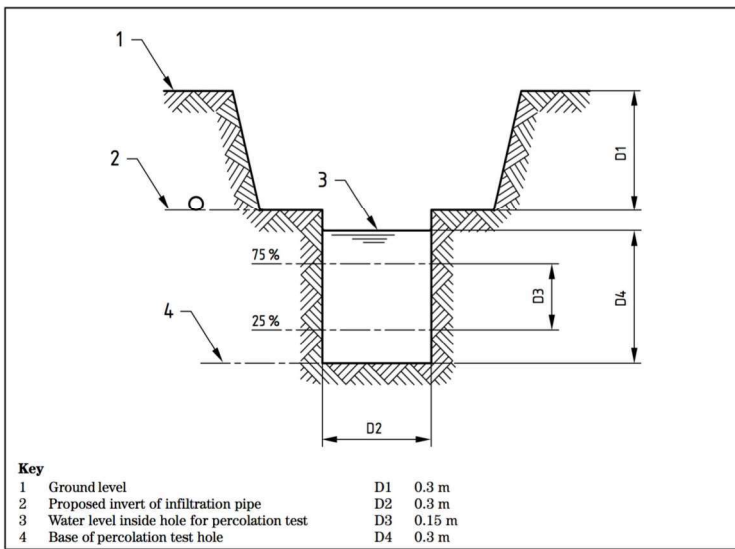
| From | To | Description |
|-----------------|------|---|
| 0.00 | 0.08 | Grey-brown slightly gravelly clay with roots. Gravel is fine to coarse and predominantly sub angular. |
| 0.08 | 0.60 | Firm to stiff brown gravelly clay. Gravel is fine to coarse and sub rounded to angular. Some sub rounded cobbles. |
| Comments | | Very stiff clay at base of hand pit. No water seepages observed prior to testing. |

Pit reference: HP03
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:
 Upper excavation depth (m): 0.3 (D1)
 Hand pit depth below D1 (m): 0.25 (D4)
 Width of hand pit (m): 0.3 (D2)
 Starting water level below D1 (m): 0

Date: 01/05/2021
 Sheet number: HP03
 Ver. 1 - Page1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 11:48:00 | 0.0 | 0.000 | 0.250 |
| | 1.0 | 0.010 | 0.240 |
| | 2.0 | 0.020 | 0.230 |
| | 3.0 | 0.020 | 0.230 |
| | 4.0 | 0.025 | 0.225 |
| | 5.0 | 0.025 | 0.225 |
| | 10.0 | 0.030 | 0.220 |
| | 15.0 | 0.031 | 0.219 |
| | 30.0 | 0.040 | 0.210 |
| | 50.0 | 0.055 | 0.195 |
| | 70.0 | 0.068 | 0.182 |
| | 215.0 | 0.105 | 0.145 |
| | 300.0 | 0.115 | 0.135 |
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|------------------------------|------|------|
| Test effective depth | 0.25 | m |
| 75% effective depth: | 0.19 | m |
| 25% effective depth: | 0.06 | m |
| t75 | 3600 | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

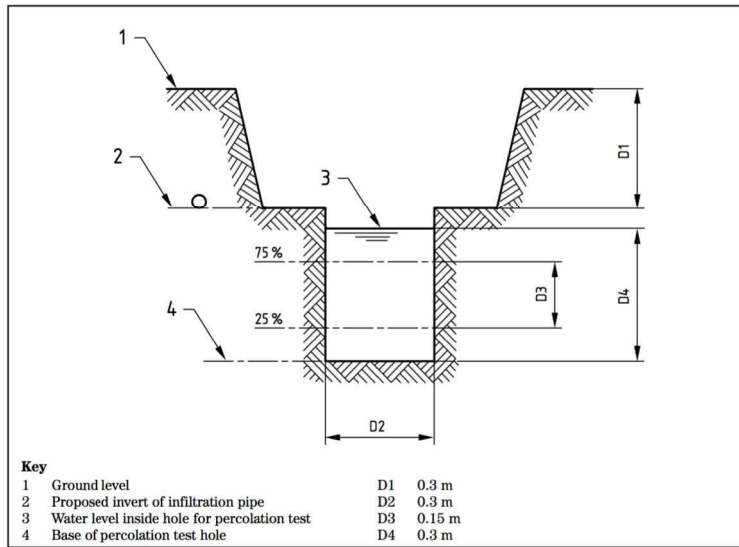
| From | To | Description |
|-----------------|------|---|
| 0.00 | 0.40 | Mid brown slightly gravelly clayey silt (SOIL). |
| 0.40 | 0.55 | Firm to stiff brown gravelly clay. Gravel is fine to coarse and sub rounded to angular. Some sub rounded cobbles. |
| Comments | | Stiff clay at base of hand pit. No water seepages observed prior to testing. |

Pit reference: HP04
Project: 4196
Date of infiltration test: 28/04/2021
Method: BS6297:2007+A1:2008
Completed by: AJS

Parameters:
Upper excavation depth (m): 0.35 (D1)
Hand pit depth below D1 (m): 0.25 (D4)
Width of hand pit (m): 0.3 (D2)
Starting water level below D1 (m): 0

Date: 01/05/2021
Sheet number: HP04
Ver. 1 - Page1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 12:00:00 | 0.0 | 0.000 | 0.250 |
| | 1.0 | 0.000 | 0.250 |
| | 2.0 | 0.000 | 0.250 |
| | 3.0 | 0.000 | 0.250 |
| | 4.0 | 0.000 | 0.250 |
| | 5.0 | 0.000 | 0.250 |
| | 10.0 | 0.000 | 0.250 |
| | 35.0 | 0.000 | 0.250 |
| | 55.0 | 0.000 | 0.250 |
| | 120.0 | 0.001 | 0.249 |
| | 200.0 | 0.002 | 0.248 |
| | 290.0 | 0.002 | 0.248 |
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|------------------------------|------|------|
| Test effective depth | 0.25 | m |
| 75% effective depth: | 0.19 | m |
| 25% effective depth: | 0.06 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

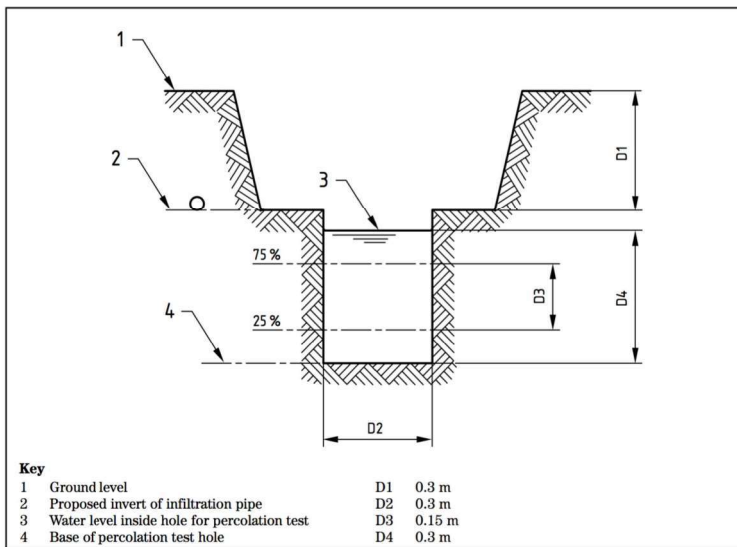
| From | To | Description |
|-----------------|------|--|
| 0.00 | 0.15 | Mid brown slightly gravelly clayey silt (SOIL). |
| 0.15 | 0.60 | Firm to stiff brown to grey clay. |
| Comments | | Stiff clay at base of hand pit. No water seepages observed prior to testing. |

Pit reference: HP05
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:
 Upper excavation depth (m): 0 (D1)
 Hand pit depth below D1 (m): 0.3 (D4)
 Width of hand pit (m): 0.3 (D2)
 Starting water level below D1 (m): 0

Date: 01/05/2021
 Sheet number: HP05
 Ver. 1 - Page 1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 12:30:00 | 0.0 | 0.000 | 0.300 |
| | 1.0 | 0.010 | 0.290 |
| | 2.0 | 0.020 | 0.280 |
| | 3.0 | 0.020 | 0.280 |
| | 4.0 | 0.025 | 0.275 |
| | 6.0 | 0.030 | 0.270 |
| | 10.0 | 0.040 | 0.260 |
| | 16.0 | 0.050 | 0.250 |
| | 22.0 | 0.058 | 0.242 |
| | 55.0 | 0.075 | 0.225 |
| | 120.0 | 0.100 | 0.200 |
| | 170.0 | 0.130 | 0.170 |
| | 260.0 | 0.155 | 0.145 |
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|------------------------------|------|------|
| Test effective depth | 0.30 | m |
| 75% effective depth: | 0.23 | m |
| 25% effective depth: | 0.08 | m |
| t75 | 3600 | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

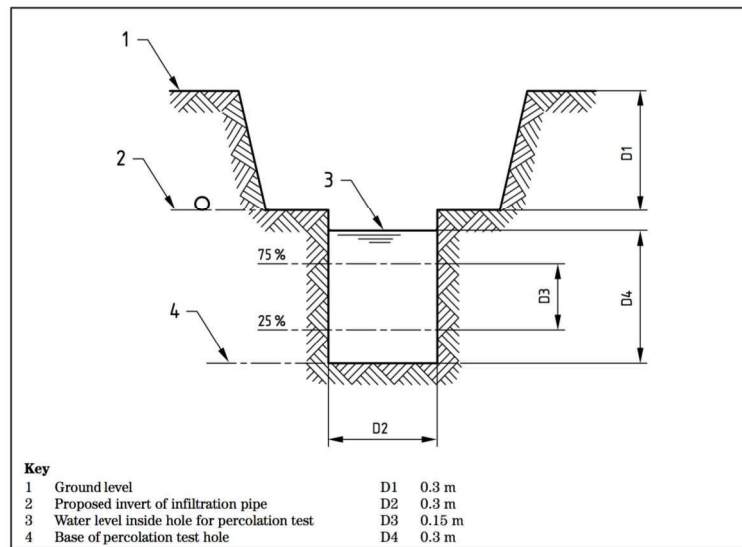
| From | To | Description |
|-----------------|------|---|
| 0.00 | 0.30 | Mid brown slightly gravelly clayey silt. Gravel is fine to coarse and sub rounded to angular. Occasional sub rounded cobbles (SOIL). |
| Comments | | Hand pit excavated from ground level within soil horizon above still clays. No water seepages observed prior to testing. Improved drainage compared to pits excavated into underlying firm to stiff clay. |

Pit reference: HP06
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:
 Upper excavation depth (m): 0.2 (D1)
 Hand pit depth below D1 (m): 0.3 (D4)
 Width of hand pit (m): 0.3 (D2)
 Starting water level below D1 (m): 0

Date: 01/05/2021
 Sheet number: HP06
 Ver. 1 - Page1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 13:10:00 | 0.0 | 0.000 | 0.300 |
| | 1.0 | 0.000 | 0.300 |
| | 2.0 | 0.001 | 0.299 |
| | 3.0 | 0.001 | 0.299 |
| | 4.0 | 0.002 | 0.298 |
| | 5.0 | 0.007 | 0.293 |
| | 10.0 | 0.015 | 0.285 |
| | 20.0 | 0.020 | 0.280 |
| | 30.0 | 0.025 | 0.275 |
| | 45.0 | 0.032 | 0.268 |
| | 55.0 | 0.038 | 0.262 |
| | 95.0 | 0.045 | 0.255 |
| | 130.0 | 0.051 | 0.249 |
| | 180.0 | 0.061 | 0.239 |
| | 215.0 | 0.065 | 0.235 |
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|------------------------------|------|------|
| Test effective depth | 0.30 | m |
| 75% effective depth: | 0.23 | m |
| 25% effective depth: | 0.08 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

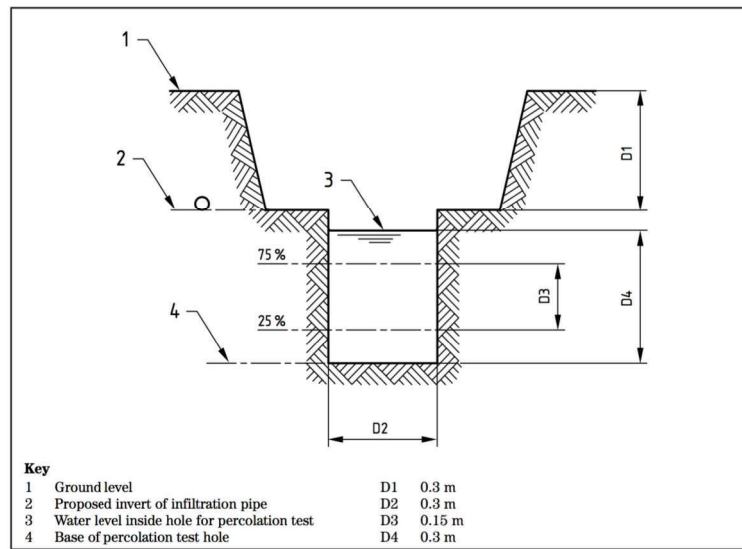
| From | To | Description |
|-----------------|------|--|
| 0.00 | 0.05 | Mid brown slightly gravelly clayey silt (SOIL). |
| 0.05 | 0.50 | Firm to stiff brown to grey clay. |
| Comments | | Stiff clay at base of hand pit. No water seepages observed prior to testing. |

Pit reference: HP07
Project: 4196
Date of infiltration test: 28/04/2021
Method: BS6297:2007+A1:2008
Completed by: AJS

Parameters:
Upper excavation depth (m): 0.3 (D1)
Hand pit depth below D1 (m): 0.3 (D4)
Width of hand pit (m): 0.3 (D2)
Starting water level below D1 (m): 0

| | |
|-----------------|------------|
| Date: | 01/05/2021 |
| Sheet number: | HP07 |
| Ver. 1 - Page 1 | |

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 13:35:00 | 0.0 | 0.000 | 0.300 |
| | 1.0 | 0.000 | 0.300 |
| | 2.0 | 0.000 | 0.300 |
| | 3.0 | 0.001 | 0.299 |
| | 4.0 | 0.003 | 0.297 |
| | 5.0 | 0.006 | 0.294 |
| | 14.0 | 0.009 | 0.291 |
| | 25.0 | 0.011 | 0.289 |
| | 50.0 | 0.011 | 0.289 |
| | 90.0 | 0.015 | 0.285 |
| | 120.0 | 0.020 | 0.280 |
| | 170.0 | 0.021 | 0.279 |
| | 205.0 | 0.021 | 0.279 |
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|------------------------------|------|------|
| Test effective depth | 0.30 | m |
| 75% effective depth: | 0.23 | m |
| 25% effective depth: | 0.08 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

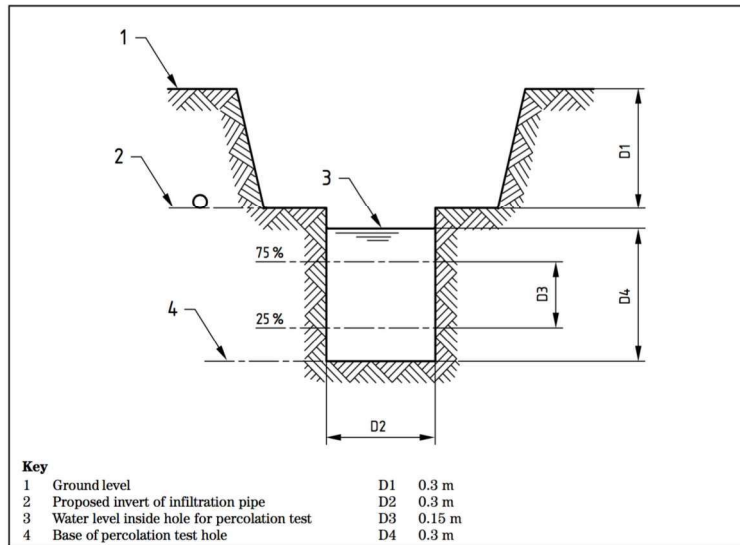
| From | To | Description |
|----------|------|--|
| 0.00 | 0.20 | Mid brown slightly gravelly clayey silt (SOIL). |
| 0.20 | 0.60 | Firm to stiff brown to blue-grey clay. |
| Comments | | Stiff clay at base of hand pit. No water seepages observed prior to testing. |

Pit reference: HP08
 Project: 4196
 Date of infiltration test: 28/04/2021
 Method: BS6297:2007+A1:2008
 Completed by: AJS

Parameters:
 Upper excavation depth (m): 0.25 (D1)
 Hand pit depth below D1 (m): 0.3 (D4)
 Width of hand pit (m): 0.3 (D2)
 Starting water level below D1 (m): 0

Date: 01/05/2021
Sheet number: HP08
 Ver. 1 - Page 1

| TEST 1 | | | |
|----------|---------------|-----------------|--------------------------------|
| Time | Elapsed (min) | Water dip (mbd) | Depth of water in hand pit (m) |
| 13:40:00 | 0.0 | 0.000 | 0.300 |
| | 1.0 | 0.000 | 0.300 |
| | 2.0 | 0.000 | 0.300 |
| | 3.0 | 0.000 | 0.300 |
| | 4.0 | 0.000 | 0.300 |
| | 5.0 | 0.000 | 0.300 |
| | 10.0 | 0.001 | 0.299 |
| | 15.0 | 0.002 | 0.298 |
| | 35.0 | 0.004 | 0.296 |
| | 80.0 | 0.009 | 0.291 |
| | 110.0 | 0.010 | 0.290 |
| | 170.0 | 0.012 | 0.288 |
| | 200.0 | 0.012 | 0.288 |
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|------------------------------|------|------|
| Test effective depth | 0.30 | m |
| 75% effective depth: | 0.23 | m |
| 25% effective depth: | 0.08 | m |
| t75 | N/A | secs |
| t25 | N/A | secs |
| tp75-25 | N/A | secs |
| Soil percolation value (Vp): | N/A | secs |

Test failed : insufficient percolation

BS6297:2007+A1:2008 methodology:

- Saturate the local soil by filling each hole with water to a depth of at least 300 mm and allow this to seep away completely.
- If the water drains rapidly (within 10 minutes) the hole should be refilled up to a maximum of 10 times. If the water continues to drain away rapidly the ground is unsuitable.
- If the water has not soaked away within 6 hours the area is not suitable.
- Determine the percolation rate by refilling each hole with water to a depth of at least 300 mm and observe the time in seconds for the water to seep away from 75% full to 25% full (i.e. a depth of 150 mm).
- Divide this time in seconds by 150. This gives the average time in seconds required for the water to drop 1 mm.
- Repeat the test at least three times in each hole in the location of the proposed trench(es).
- Take the average figure from the tests to produce the percolation value Vp (in seconds).

Soil Log:

| From | To | Description |
|-----------------|------|--|
| 0.00 | 0.15 | Mid brown slightly gravelly clayey silt (SOIL). |
| 0.15 | 0.55 | Firm to stiff brown to grey clay. |
| Comments | | Stiff clay at base of hand pit. No water seepages observed prior to testing. |

Appendix D

Foul Calculations

Design Settings

| | | | |
|-----------------------------------|------|-----------------------------|---------------|
| Frequency of use (kDU) | 1.00 | Minimum Velocity (m/s) | 0.75 |
| Flow per dwelling per day (l/day) | 4000 | Connection Type | Level Soffits |
| Domestic Flow (l/s/ha) | 0.0 | Minimum Backdrop Height (m) | 0.200 |
| Industrial Flow (l/s/ha) | 0.0 | Preferred Cover Depth (m) | 1.200 |
| Additional Flow (%) | 0 | Include Intermediate Ground | ✓ |

Nodes

| Name | Dwellings | Units | Cover Level (m) | Manhole Type | Easting (m) | Northing (m) | Depth (m) |
|------|-----------|-------|-----------------|--------------|-------------|--------------|-----------|
| 1 | 0 | 20.0 | 215.100 | Adoptable | 305600.462 | 256178.501 | 0.275 |
| 2 | 0 | | 215.100 | | 305571.394 | 256178.501 | 0.525 |
| 3 | 0 | | 215.100 | | 305571.568 | 256185.999 | 0.575 |
| 4 | 0 | | 215.100 | | 305562.836 | 256188.840 | 0.700 |
| 5 | 0 | | 215.100 | | 305553.968 | 256202.158 | 1.400 |
| 6 | | | 214.684 | | 305550.907 | 256208.342 | 1.034 |

Links

| Name | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|
| 1.000 | 1 | 2 | 29.068 | 1.500 | 214.825 | 214.625 | 0.200 | 145.3 | 150 |
| 1.001 | 2 | 3 | 7.500 | 1.500 | 214.575 | 214.525 | 0.050 | 150.0 | 150 |
| 1.002 | 3 | 4 | 9.183 | 1.500 | 214.525 | 214.450 | 0.075 | 122.4 | 150 |
| 1.003 | 4 | 5 | 16.000 | 1.500 | 214.400 | 213.700 | 0.700 | 22.9 | 150 |
| 1.004 | 5 | 6 | 6.900 | 1.500 | 213.700 | 213.650 | 0.050 | 138.0 | 150 |

| Name | Pro Vel @ 1/3 Q (m/s) | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Dwellings (ha) | Σ Units (ha) | Σ Add Inflow (ha) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------------------|-----------|-----------|------------|--------------|--------------|-------------|------------------|--------------|-------------------|----------------|--------------------|
| 1.000 | 0.482 | 0.725 | 12.8 | 4.5 | 0.125 | 0.325 | 0.000 | 0 | 20.0 | 0.0 | 61 | 0.660 |
| 1.001 | 0.475 | 0.714 | 12.6 | 4.5 | 0.375 | 0.425 | 0.000 | 0 | 20.0 | 0.0 | 62 | 0.653 |
| 1.002 | 0.510 | 0.791 | 14.0 | 4.5 | 0.425 | 0.500 | 0.000 | 0 | 20.0 | 0.0 | 58 | 0.702 |
| 1.003 | 0.915 | 1.837 | 32.5 | 4.5 | 0.550 | 1.250 | 0.000 | 0 | 20.0 | 0.0 | 38 | 1.284 |
| 1.004 | 0.490 | 0.745 | 13.2 | 4.5 | 1.250 | 0.884 | 0.000 | 0 | 20.0 | 0.0 | 60 | 0.671 |

Design Settings

| | | | |
|-----------------------------------|------|-----------------------------|---------------|
| Frequency of use (kDU) | 0.50 | Minimum Velocity (m/s) | 0.75 |
| Flow per dwelling per day (l/day) | 4000 | Connection Type | Level Soffits |
| Domestic Flow (l/s/ha) | 0.0 | Minimum Backdrop Height (m) | 0.200 |
| Industrial Flow (l/s/ha) | 0.0 | Preferred Cover Depth (m) | 1.200 |
| Additional Flow (%) | 0 | Include Intermediate Ground | ✓ |

Nodes

| Name | Dwellings | Cover Level (m) | Manhole Type | Diameter (mm) | Easting (m) | Northing (m) | Depth (m) |
|------|-----------|-----------------|--------------|---------------|-------------|--------------|-----------|
| 1 | 1 | 240.000 | Adoptable | 600 | 305458.400 | 255846.000 | 1.300 |
| 2 | 1 | 233.500 | Adoptable | 600 | 305412.009 | 255845.842 | 1.300 |
| 3 | 0 | 233.500 | Adoptable | 600 | 305412.952 | 255836.238 | 1.425 |
| 4 | 1 | 233.200 | Adoptable | 600 | 305409.290 | 255825.886 | 1.275 |
| 5 | 1 | 234.200 | Adoptable | 600 | 305411.793 | 255807.639 | 2.575 |
| 6 | 1 | 233.700 | Adoptable | 600 | 305411.102 | 255787.344 | 2.225 |
| 7 | 1 | 234.000 | Adoptable | 600 | 305413.562 | 255770.624 | 2.650 |
| 8 | 1 | 233.400 | Adoptable | 600 | 305410.919 | 255753.426 | 2.175 |
| 9 | 0 | 233.200 | Adoptable | 600 | 305410.363 | 255742.738 | 2.050 |
| 10 | 0 | 232.868 | | | 305418.437 | 255725.318 | 1.918 |
| 11 | 0 | 232.418 | | | 305415.762 | 255722.211 | 1.518 |
| 12 | 0 | 231.643 | | | 305405.959 | 255729.258 | 0.843 |
| 13 | 0 | 231.605 | | | 305402.873 | 255737.499 | 1.480 |
| 14 | | 230.320 | | | 305393.547 | 255737.642 | 0.945 |

Links

| Name | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|
| 1.000 | 1 | 2 | 46.391 | 1.500 | 238.700 | 232.200 | 6.500 | 7.1 | 100 |
| 1.001 | 2 | 3 | 9.650 | 1.500 | 232.200 | 232.075 | 0.125 | 77.2 | 100 |
| 1.002 | 3 | 4 | 10.981 | 1.500 | 232.075 | 231.925 | 0.150 | 73.2 | 100 |
| 1.003 | 4 | 5 | 18.418 | 1.500 | 231.925 | 231.675 | 0.250 | 73.7 | 100 |
| 1.004 | 5 | 6 | 20.307 | 1.500 | 231.625 | 231.475 | 0.150 | 135.4 | 150 |
| 1.005 | 6 | 7 | 16.900 | 1.500 | 231.475 | 231.350 | 0.125 | 135.2 | 150 |
| 1.006 | 7 | 8 | 17.400 | 1.500 | 231.350 | 231.225 | 0.125 | 139.2 | 150 |
| 1.007 | 8 | 9 | 10.702 | 1.500 | 231.225 | 231.150 | 0.075 | 142.7 | 150 |
| 1.008 | 9 | 10 | 19.200 | 1.500 | 231.150 | 231.000 | 0.150 | 128.0 | 150 |
| 1.009 | 10 | 11 | 4.100 | 1.500 | 230.950 | 230.900 | 0.050 | 82.0 | 150 |

| Name | Pro Vel @ 1/3 Q (m/s) | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Dwellings (ha) | Σ Units (ha) | Σ Add Inflow (ha) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------------------|-----------|-----------|------------|--------------|--------------|-------------|------------------|--------------|-------------------|----------------|--------------------|
| 1.000 | 0.346 | 2.503 | 19.7 | 0.0 | 1.200 | 1.200 | 0.000 | 1 | 0.0 | 0.0 | 4 | 0.427 |
| 1.001 | 0.190 | 0.757 | 5.9 | 0.1 | 1.200 | 1.325 | 0.000 | 2 | 0.0 | 0.0 | 9 | 0.262 |
| 1.002 | 0.175 | 0.778 | 6.1 | 0.1 | 1.325 | 1.175 | 0.000 | 2 | 0.0 | 0.0 | 9 | 0.270 |
| 1.003 | 0.215 | 0.775 | 6.1 | 0.1 | 1.175 | 2.425 | 0.000 | 3 | 0.0 | 0.0 | 11 | 0.302 |
| 1.004 | 0.181 | 0.752 | 13.3 | 0.2 | 2.425 | 2.075 | 0.000 | 4 | 0.0 | 0.0 | 13 | 0.255 |
| 1.005 | 0.191 | 0.752 | 13.3 | 0.2 | 2.075 | 2.500 | 0.000 | 5 | 0.0 | 0.0 | 14 | 0.280 |
| 1.006 | 0.198 | 0.741 | 13.1 | 0.3 | 2.500 | 2.025 | 0.000 | 6 | 0.0 | 0.0 | 16 | 0.291 |
| 1.007 | 0.214 | 0.732 | 12.9 | 0.3 | 2.025 | 1.900 | 0.000 | 7 | 0.0 | 0.0 | 17 | 0.302 |
| 1.008 | 0.216 | 0.773 | 13.7 | 0.3 | 1.900 | 1.718 | 0.000 | 7 | 0.0 | 0.0 | 16 | 0.311 |
| 1.009 | 0.259 | 0.968 | 17.1 | 0.3 | 1.768 | 1.368 | 0.000 | 7 | 0.0 | 0.0 | 14 | 0.360 |

Links

| Name | US Node | DS Node | Length (m) | ks (mm) / n | US IL (m) | DS IL (m) | Fall (m) | Slope (1:X) | Dia (mm) |
|-------|---------|---------|------------|-------------|-----------|-----------|----------|-------------|----------|
| 1.010 | 11 | 12 | 12.073 | 1.500 | 230.900 | 230.800 | 0.100 | 120.7 | 150 |
| 1.011 | 12 | 13 | 8.800 | 1.500 | 230.800 | 230.125 | 0.675 | 13.0 | 150 |
| 1.012 | 13 | 14 | 9.327 | 1.500 | 230.125 | 229.375 | 0.750 | 12.4 | 150 |

| Name | Pro Vel @ 1/3 Q (m/s) | Vel (m/s) | Cap (l/s) | Flow (l/s) | US Depth (m) | DS Depth (m) | Σ Area (ha) | Σ Dwellings (ha) | Σ Units (ha) | Σ Add Inflow (ha) | Pro Depth (mm) | Pro Velocity (m/s) |
|-------|-----------------------|-----------|-----------|------------|--------------|--------------|-------------|------------------|--------------|-------------------|----------------|--------------------|
| 1.010 | 0.223 | 0.797 | 14.1 | 0.3 | 1.368 | 0.693 | 0.000 | 7 | 0.0 | 0.0 | 16 | 0.321 |
| 1.011 | 0.456 | 2.435 | 43.0 | 0.3 | 0.693 | 1.330 | 0.000 | 7 | 0.0 | 0.0 | 10 | 0.689 |
| 1.012 | 0.467 | 2.493 | 44.1 | 0.3 | 1.330 | 0.795 | 0.000 | 7 | 0.0 | 0.0 | 10 | 0.706 |

19. Terms and Conditions, CDM Regulations and Data Limitations

Terms and conditions can be found on our website:

<http://geosmartinfo.co.uk/terms-conditions/>

CDM Regulations can be found on our website:

<http://geosmartinfo.co.uk/knowledge-hub/cdm-2015/>

Data use and limitations can be found on our website:

<http://geosmartinfo.co.uk/data-limitations/>

Disclaimer

This report has been prepared by GeoSmart in its professional capacity as soil, groundwater, flood risk and drainage specialists, with reasonable skill, care and diligence within the agreed scope and terms of contract and taking account of the manpower and resources devoted to it by agreement with its client, and is provided by GeoSmart solely for the internal use of its client.

The advice and opinions in this report should be read and relied on only in the context of the report as a whole, taking account of the terms of reference agreed with the client. The findings are based on the information made available to GeoSmart at the date of the report (and will have been assumed to be correct) and on current UK standards, codes, technology and practices as at that time. They do not purport to include any manner of legal advice or opinion. New information or changes in conditions and regulatory requirements may occur in future, which will change the conclusions presented here.

This report is confidential to the client. The client may submit the report to regulatory bodies, where appropriate. Should the client wish to release this report to any other third party for that party's reliance, GeoSmart may, by prior written agreement, agree to such release, provided that it is acknowledged that GeoSmart accepts no responsibility of any nature to any third party to whom this report or any part thereof is made known. GeoSmart accepts no responsibility for any loss or damage incurred as a result, and the third party does not acquire any rights whatsoever, contractual or otherwise, against GeoSmart except as expressly agreed with GeoSmart in writing.

Further information

Information on confidence levels and ways to improve this report can be provided for any location on written request to info@geosmart.co.uk or via our website. Updates to our model are ongoing and additional information is being collated from several sources to improve the database and allow increased confidence in the findings. Further information on groundwater levels and flooding are being incorporated in the model to enable improved accuracy to be achieved in future versions of the map. Please contact us if you would like to join our User Group and help with feedback on infiltration SuDS and mapping suggestion.

Important consumer protection information

This search has been produced by GeoSmart Information Limited, Suite 9-11, 1st Floor, Old Bank Buildings, Bellstone, Shrewsbury, SY1 1HU.

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