



Geotechnical &
Environmental
Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

Engineer

Job Number
J16202

Sheet
1/2

Date: 18 November 2016

Borehole No: 6

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 5.00

Casing depth (m): 1.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 2
D2 (m) 1.4
T1 (min) 3
T2 (min) 25

Time (mins)	Depth to Water (m)	Depth of Water (m)
1	2.80	2.20
2	2.94	2.06
3	3.00	2.00
4	3.05	1.95
5	3.10	1.90
6	3.13	1.87
7	3.17	1.83
8	3.20	1.80
9	3.23	1.77
10	3.27	1.73
15	3.39	1.61
20	3.50	1.50
25	3.60	1.40

Soakage Volume (m³) 0.011

Soakage Area (m²) 0.82

Time (min) 22

Soakage rate (m/sec) 9.81033E-06

Soakage rate (m/day) 0.847612819

Remarks:

Test carried out in cable percussion borehole
Borehole collapsed to 3.6 m after 25 minutes



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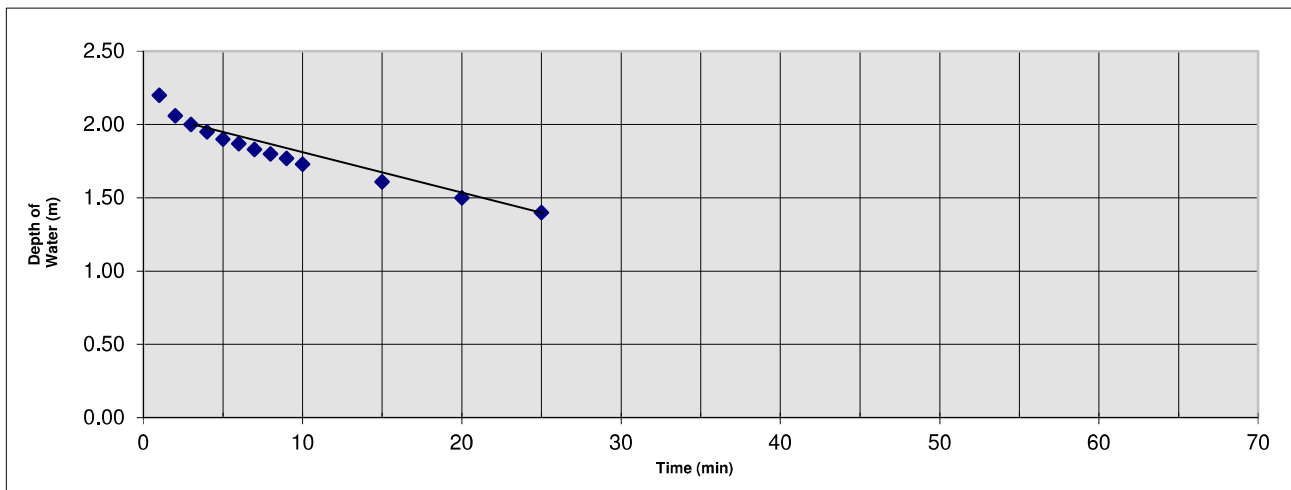
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Soakage Graph

Test No: 1



Remarks:

Test carried out in Cable percussion borehole
Borehole collapsed to 3.6 m after 25 minutes



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

Engineer

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Date: 22 November 2016

Borehole No: 6

Test No: 2

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 10.00

Casing depth (m): 1.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.3

D2 (m) 1.1

T1 (min) 2.5

T2 (min) 20

Time (mins)	Depth to Water (m)	Depth of Water (m)
-------------	-----------------------	-----------------------

1	5.95	4.05
2	6.31	3.69
3	6.63	3.37
4	6.92	3.08
5	7.18	2.82
6	7.40	2.60
7	7.60	2.40
8	7.78	2.22
9	7.94	2.06
10	8.09	1.91
15	8.68	1.32
20	8.90	1.10

Soakage Volume (m³) 0.039

Soakage Area (m²) 1.05

Time (min) 18

Soakage rate (m/sec) 3.51157E-05

Soakage rate (m/day) 3.033998404

Remarks:

Test carried out in Cable percussion borehole
Borehole collapsed to 8.9 m after 20 minutes



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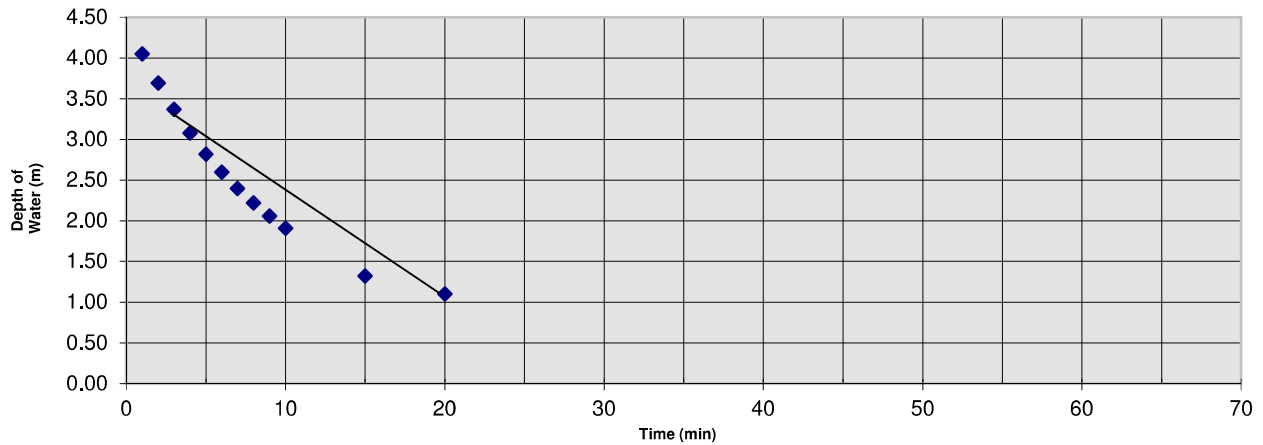
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Soakage Graph

Test No: 2



Remarks:

Test carried out in Cable percussion borehole
Borehole collapsed to 8.9 m after 20 minutes



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Date: 22 November 2016

Borehole No: 6

Test No: 3

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Casing depth (m): 1.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 4.2

D2 (m) 3.2

T1 (min) 10

T2 (min) 60

Time (mins)	Depth to Water (m)	Depth of Water (m)
-------------	-----------------------	-----------------------

1	8.70	6.30
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2	9.54	5.46
---	------	------

3	9.96	5.04
---	------	------

4	10.20	4.80
---	-------	------

5	10.38	4.62
---	-------	------

6	10.52	4.48
---	-------	------

7	10.65	4.35
---	-------	------

8	10.74	4.26
---	-------	------

9	10.80	4.20
---	-------	------

10	10.84	4.16
----	-------	------

15	11.00	4.00
----	-------	------

20	11.17	3.83
----	-------	------

25	11.32	3.68
----	-------	------

30	11.43	3.57
----	-------	------

35	11.55	3.45
----	-------	------

40	11.61	3.39
----	-------	------

45	11.66	3.34
----	-------	------

50	11.69	3.31
----	-------	------

55	11.72	3.28
----	-------	------

60	11.74	3.26
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Soakage Volume (m³) 0.018

Soakage Area (m²) 1.76

Time (min) 50

Soakage rate (m/sec) 3.34448E-06

Soakage rate (m/day) 0.288963211

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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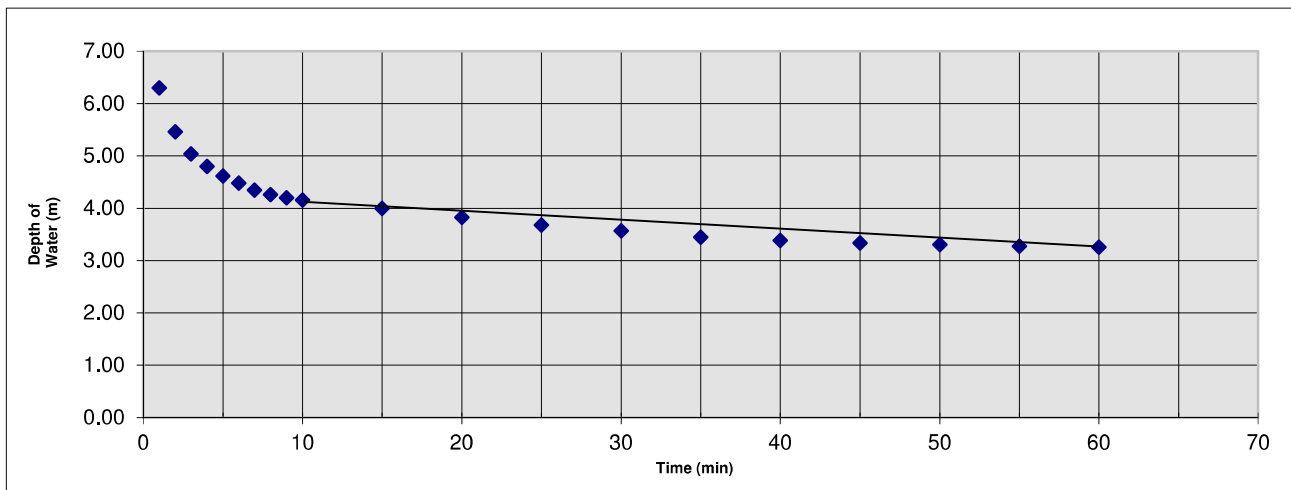
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Soakage Graph

Test No: 3



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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Date: 22 November 2016

Borehole No: 6

Test No: 4

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 20.00

Casing depth (m): 1.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 0.35

D2 (m) 0

T1 (min) 1

T2 (min) 3

Time (mins)	Depth to Water (m)	Depth of Water (m)
-------------	-----------------------	-----------------------

1	19.65	0.35
---	-------	------

2	19.95	0.05
---	-------	------

3	20.00	0.00
---	-------	------

Soakage Volume (m³) 0.006

Soakage Area (m²) 0.10

Time (min) 2

Soakage rate (m/sec) 5.14706E-04

Soakage rate (m/day) 44.47058824

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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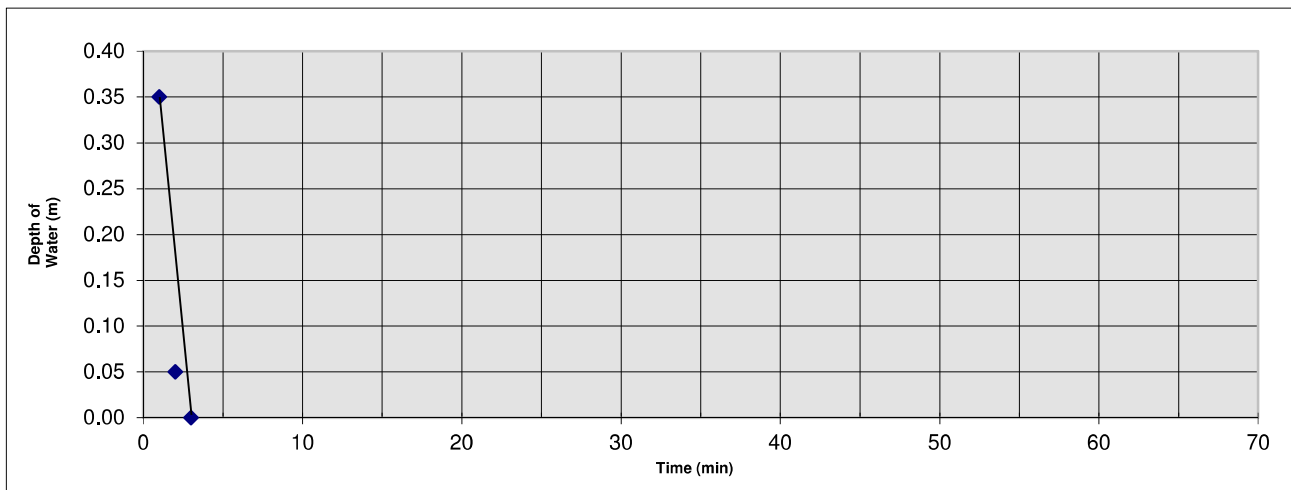
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Soakage Graph

Test No: 4



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

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Date: 19 December 2016

Borehole No: 8

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 5.50

Casing depth (m): 3.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 4.5

D2 (m) 0.8

T1 (min) 2

T2 (min) 30

Time (mins)	Depth to Water (m)	Depth of Water (m)
-------------	-----------------------	-----------------------

1	0.86	4.64
2	1.07	4.43
3	1.19	4.31
4	1.32	4.18
5	1.40	4.10
10	2.52	2.98
15	3.10	2.40
20	3.50	2.00
30	4.70	0.80
45	4.90	0.60

Soakage Volume (m³) 0.065

Soakage Area (m²) 1.27

Time (min) 28

Soakage rate (m/sec) 3.07309E-05

Soakage rate (m/day) 2.655149502

Remarks:

Test carried out in Cable percussion borehole
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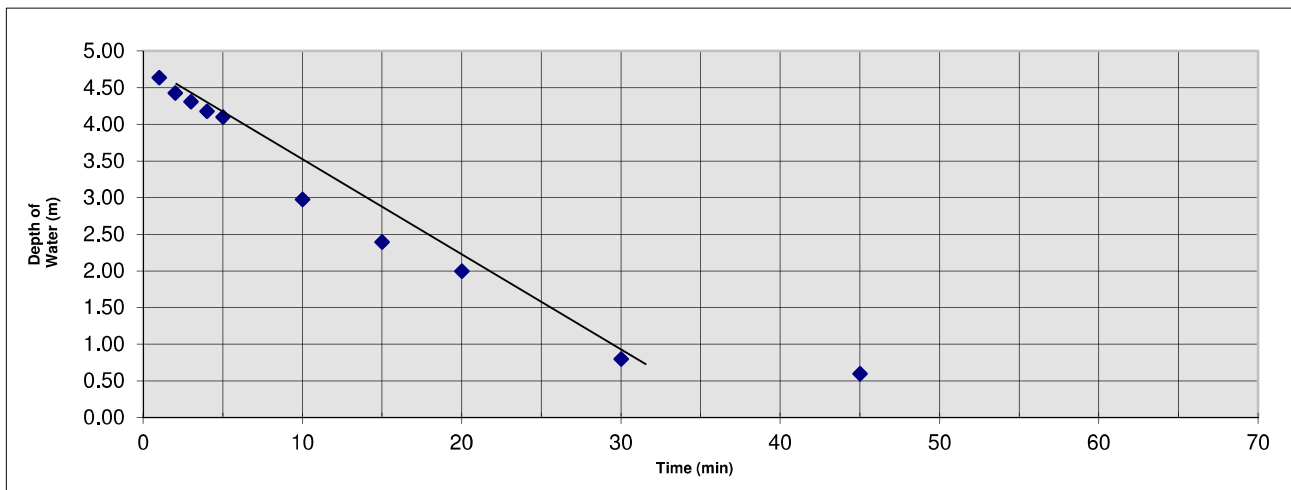
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Soakage Graph

Test No: 1



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

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Date: 20 December 2016

Borehole No: 7

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 6.50

Casing depth (m): 5.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m²) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 6.2

D2 (m) 2

T1 (min) 0

T2 (min) 35

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	0.00	6.50
1	0.40	6.10
2	0.80	5.70
3	1.20	5.30
4	1.55	4.95
5	1.95	4.55
10	2.95	3.55
15	3.75	2.75
20	4.25	2.25
30	4.60	1.90
45	5.50	1.00

Soakage Volume (m³) 0.074

Soakage Area (m²) 1.95

Time (min) 35

Soakage rate (m/sec) 1.81269E-05

Soakage rate (m/day) 1.566163142

Remarks:

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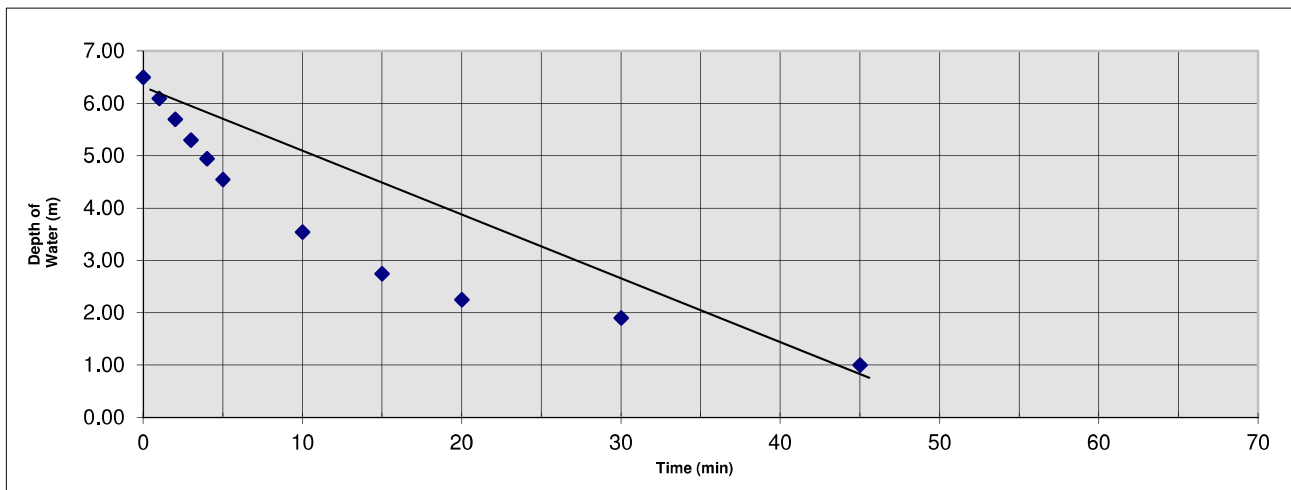
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Soakage Graph

Test No: 1



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

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Date: 20 November 2016

Borehole No: 7

Test No: 2

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 10.00

Casing depth (m): 5.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.5

D2 (m) 1.3

T1 (min) 0

T2 (min) 5

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	6.10	3.90
1	7.20	2.80
2	8.00	2.00
3	8.50	1.50
4	8.80	1.20
5	9.00	1.00
10	9.50	0.50
15	Sludge	

Soakage Volume (m³) 0.039

Soakage Area (m²) 1.15

Time (min) 5

Soakage rate (m/sec) 1.12821E-04

Soakage rate (m/day) 9.747692308

Remarks:

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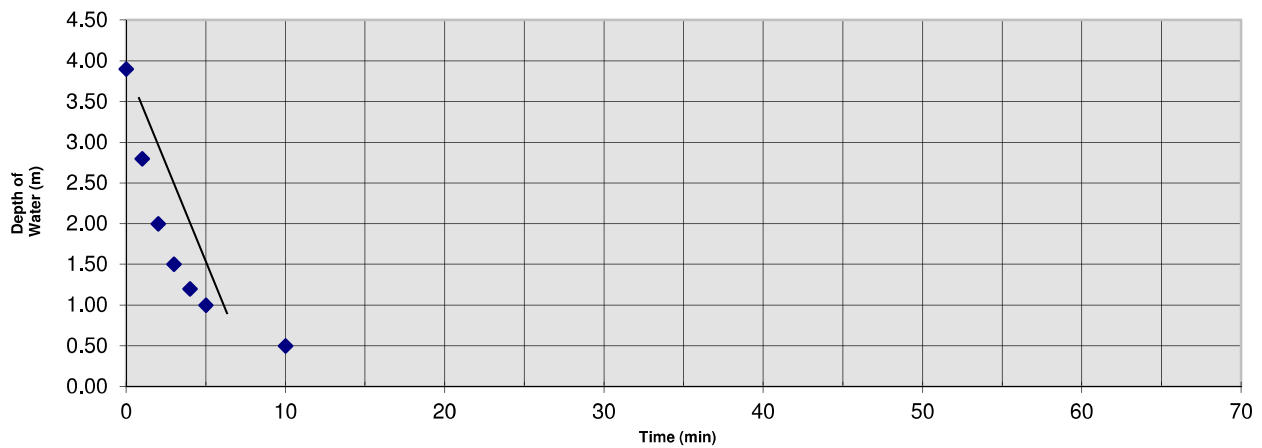
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Soakage Graph

Test No: 2



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

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Date: 21 November 2016

Borehole No: 7

Test No: 3

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Casing depth (m): 5.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.6

D2 (m) 0.8

T1 (min) 0

T2 (min) 15

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	10.50	4.50
1	11.50	3.50
2	12.00	3.00
3	12.50	2.50
4	12.90	2.10
5	13.30	1.70
10	13.90	1.10
15	14.10	0.90
30	14.40	0.60
45	14.50	0.50
60	14.70	0.30

Soakage Volume (m³) 0.049

Soakage Area (m²) 1.05

Time (min) 15

Soakage rate (m/sec) 5.21415E-05

Soakage rate (m/day) 4.505027933

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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Borehole Soakage Test

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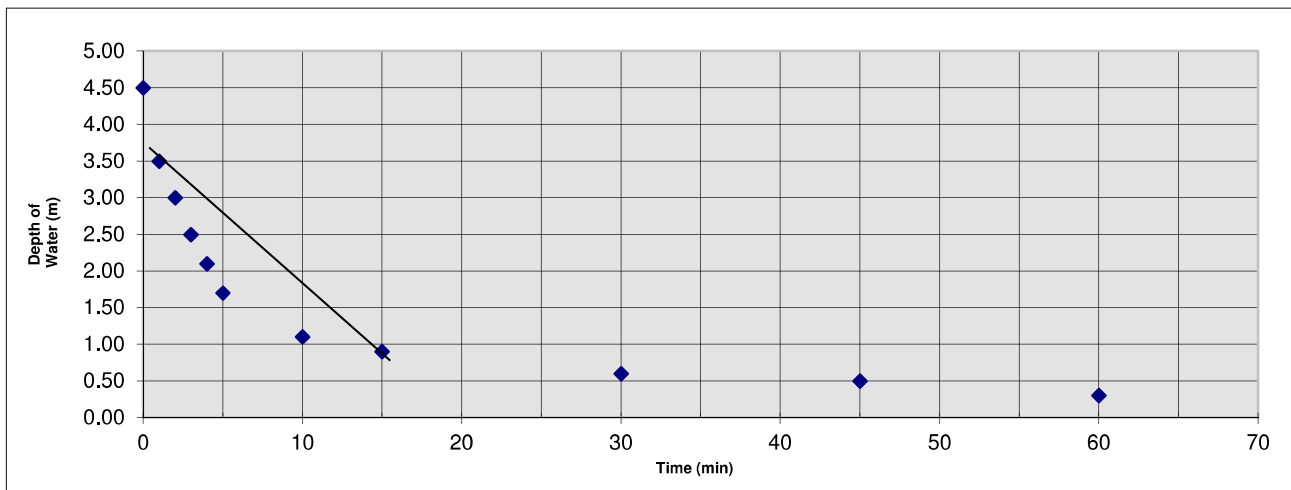
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Soakage Graph

Test No: 3



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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Borehole Soakage Test

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J16202

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Date: 19 December 2016

Borehole No: 8

Test No: 2

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 10.00

Casing depth (m): 6.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 7

D2 (m) 1

T1 (min) 1

T2 (min) 30

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	1.90	8.10
1	2.90	7.10
2	3.15	6.85
3	3.35	6.65
4	3.60	6.40
5	3.80	6.20
10	4.90	5.10
15	5.90	4.10
20	6.85	3.15
30	8.80	1.20
45	9.55	0.45

Soakage Volume (m³) 0.106

Soakage Area (m²) 1.90

Time (min) 29

Soakage rate (m/sec) 3.20273E-05

Soakage rate (m/day) 2.767161311

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



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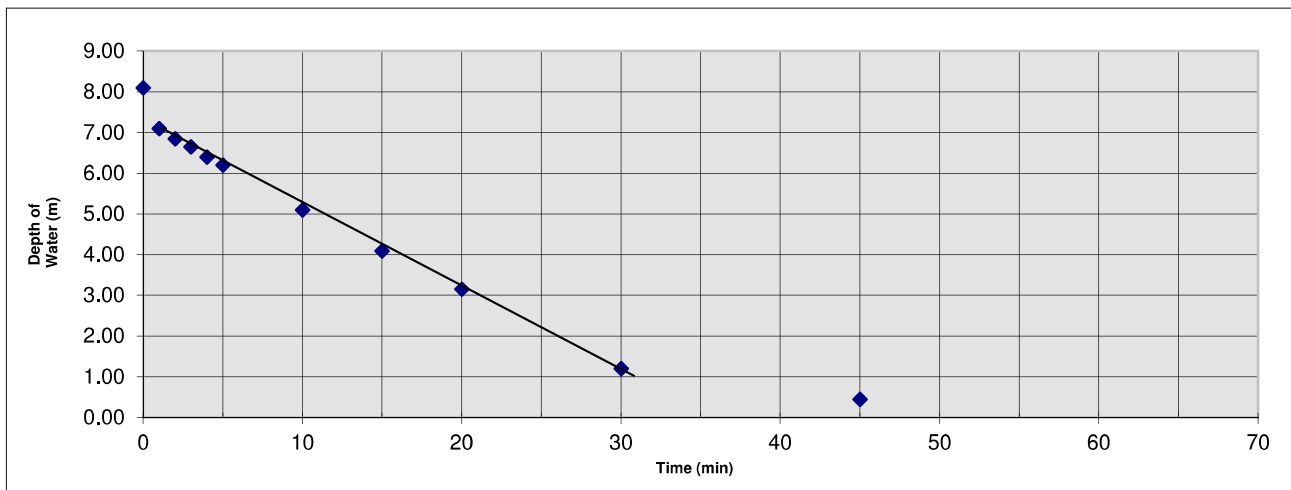
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Soakage Graph

Test No: 2



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Borehole Soakage Test

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Date: 19 December 2016

Borehole No: 8

Test No: 3

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Casing depth (m): 6.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 10
D2 (m) 1.9
T1 (min) 1
T2 (min) 10

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	5.00	10.00
2	5.50	9.50
4	6.00	9.00
6	6.40	8.60
8	6.80	8.20
10	7.20	7.80
15	8.20	6.80
20	9.20	5.80
30	10.90	4.10
45	13.10	1.90

Soakage Volume (m³) 0.143

Soakage Area (m²) 2.82

Time (min) 9

Soakage rate (m/sec) 9.39457E-05

Soakage rate (m/day) 8.11691023

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Site Newmarket Road, Royston, Herts, SG8 7NJ

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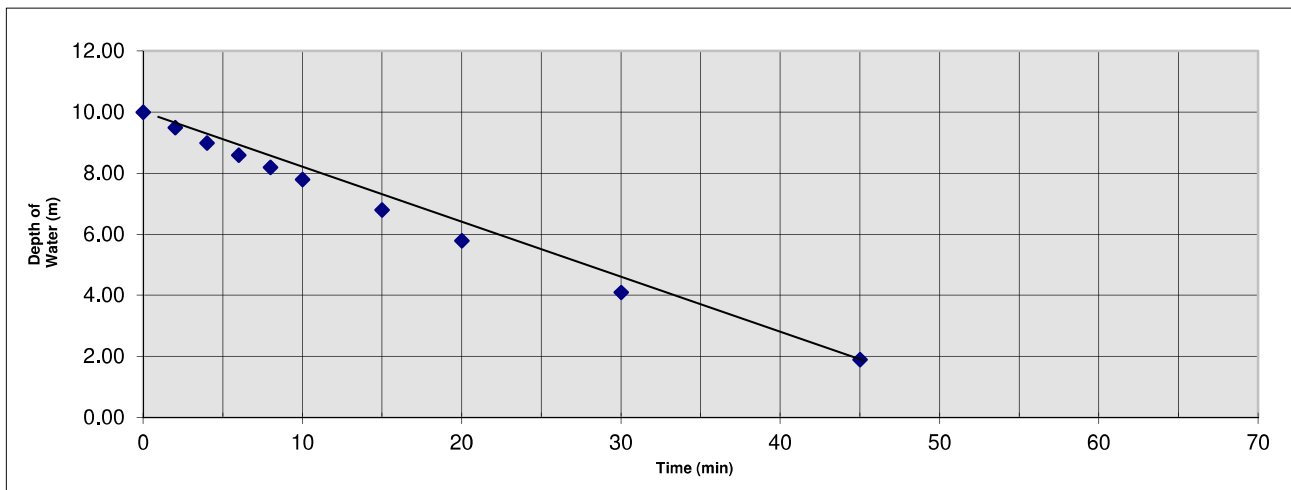
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Soakage Graph

Test No: 3



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test