FALLING HEAD PERMEABILITY TEST RESULTS

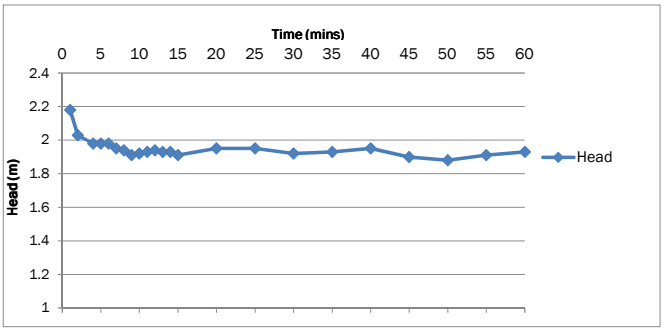
Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

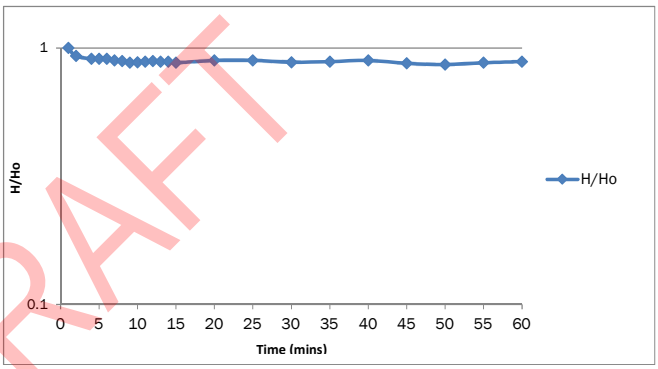
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Test Borehole: EBH1

Borehole depth	2.50 m
Casing depth	1.00 m
Casing diameter	0.11 m
Intake factor, F =	2.826
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	2.5 m

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.32	2.18	1.00
2	0.47	2.03	0.93
4	0.52	1.98	0.91
5	0.52	1.98	0.91
6	0.52	1.98	0.91
7	0.55	1.95	0.89
8	0.56	1.94	0.89
9	0.59	1.91	0.88
10	0.58	1.92	0.88
11	0.57	1.93	0.89
12	0.56	1.94	0.89
13	0.57	1.93	0.89
14	0.57	1.93	0.89
15	0.59	1.91	0.88
20	0.55	1.95	0.89
25	0.55	1.95	0.89
30	0.58	1.92	0.88
35	0.57	1.93	0.89
40	0.55	1.95	0.89
45	0.60	1.90	0.87
50	0.62	1.88	0.86
55	0.59	1.91	0.88
60	0.57	1.93	0.89





DRAFT

Drainage rate:			
t1	10 mins	H1	1.92 m
t2	60 mins	H2	1.93 m
Permeability:	-5.5E-09		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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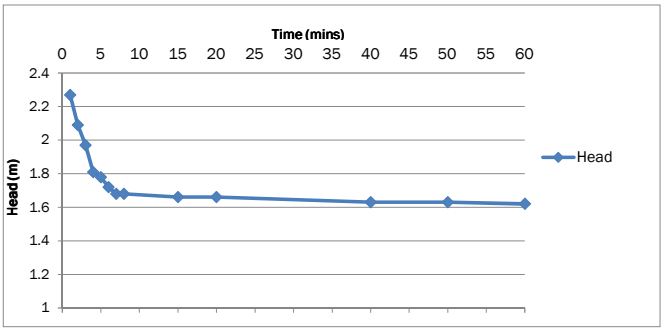
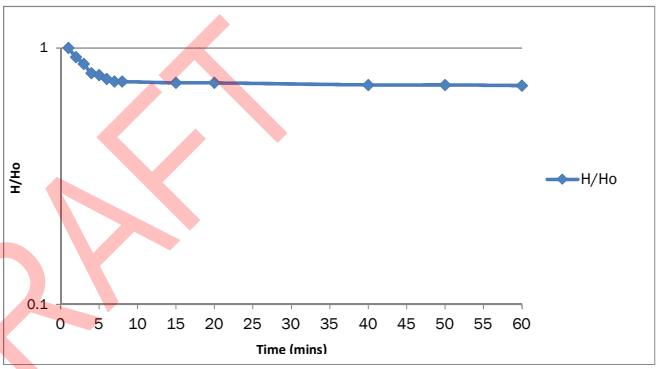
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Test Borehole: EBH2

Borehole depth	2.50 m
Casing depth	1.10 m
Casing diameter	0.11 m
Intake factor, F =	2.693
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	2.5 m

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.23	2.27	1.00
2	0.41	2.09	0.92
3	0.53	1.97	0.87
4	0.69	1.81	0.80
5	0.72	1.78	0.78
6	0.78	1.72	0.76
7	0.82	1.68	0.74
8	0.82	1.68	0.74
15	0.84	1.66	0.73
20	0.84	1.66	0.73
40	0.87	1.63	0.72
50	0.87	1.63	0.72
60	0.88	1.62	0.71





DRAFT

Drainage rate:			
t1	7 mins	H1	1.68 m
t2	60 mins	H2	1.62 m
Permeability:	3.8E-08		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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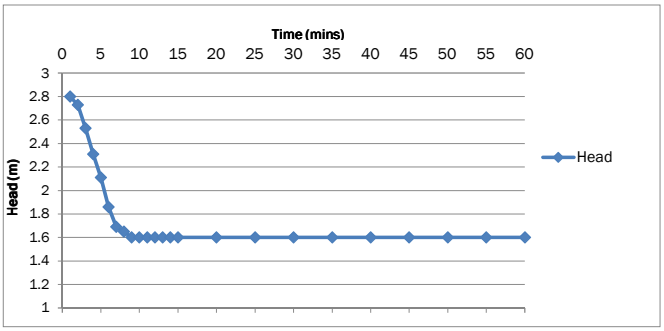
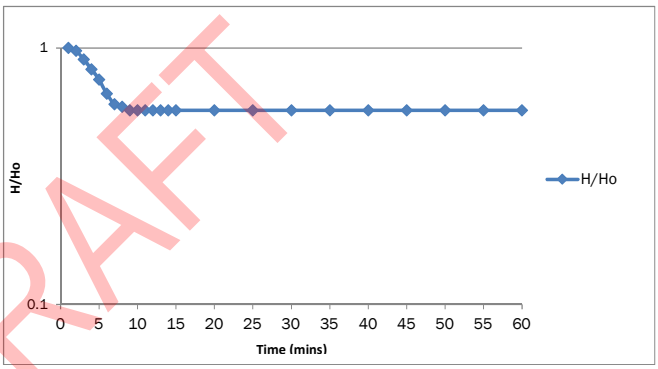
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Borehole depth	2.90 m
Casing depth	1.00 m
Casing diameter	0.11 m
Intake factor, F =	3.342
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	2.9 m

Test Borehole: EBH3

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.10	2.80	1.00
2	0.17	2.73	0.98
3	0.37	2.53	0.90
4	0.59	2.31	0.83
5	0.79	2.11	0.75
6	1.04	1.86	0.66
7	1.21	1.69	0.60
8	1.25	1.65	0.59
9	1.30	1.60	0.57
10	1.30	1.60	0.57
11	1.30	1.60	0.57
12	1.30	1.60	0.57
13	1.30	1.60	0.57
14	1.30	1.60	0.57
15	1.30	1.60	0.57
20	1.30	1.60	0.57
25	1.30	1.60	0.57
30	1.30	1.60	0.57
35	1.30	1.60	0.57
40	1.30	1.60	0.57
45	1.30	1.60	0.57
50	1.30	1.60	0.57
55	1.30	1.60	0.57
60	1.30	1.60	0.57





DRAFT

Drainage rate:			
t1	9 mins	H1	1.6 m
t2	60 mins	H2	1.6 m
Permeability:	0.0E+00 Test failed		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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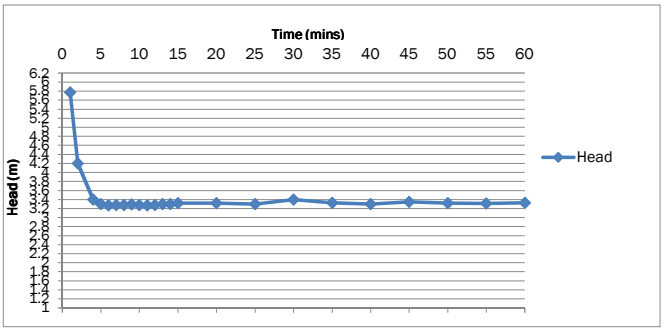
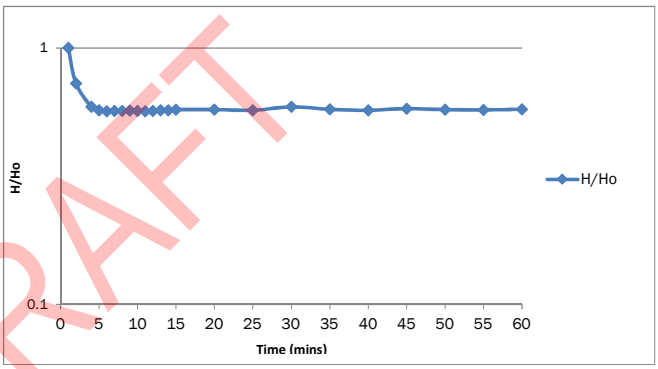
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Borehole depth	7.70 m
Casing depth	6.70 m
Casing diameter	0.11 m
Intake factor, F =	2.143
ISO 22282-1:2012, Cylindrical 1.2<L/D<10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	7.7 m

Test Borehole: EBH8

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	1.93	5.77	1.00
2	3.50	4.20	0.73
4	4.30	3.40	0.59
5	4.40	3.30	0.57
6	4.43	3.27	0.57
7	4.42	3.28	0.57
8	4.42	3.28	0.57
9	4.41	3.29	0.57
10	4.42	3.28	0.57
11	4.43	3.27	0.57
12	4.42	3.28	0.57
13	4.40	3.30	0.57
14	4.40	3.30	0.57
15	4.38	3.32	0.58
20	4.38	3.32	0.58
25	4.40	3.30	0.57
30	4.30	3.40	0.59
35	4.37	3.33	0.58
40	4.40	3.30	0.57
45	4.35	3.35	0.58
50	4.38	3.32	0.58
55	4.39	3.31	0.57
60	4.37	3.33	0.58





DRAFT

Drainage rate:			
t1	5 mins	H1	3.3 m
t2	60 mins	H2	3.33 m
Permeability:	-1.2E-08		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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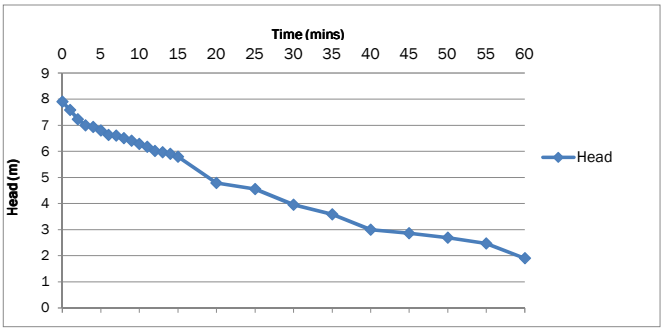
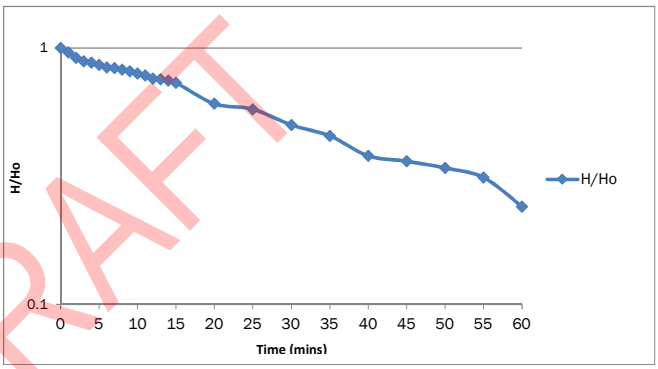
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Borehole depth	12.00 m
Casing depth	7.00 m
Casing diameter	0.11 m
Intake factor, F =	6.920
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	12 m

Test Borehole: EBH10

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
0	4.10	7.90	1.00
1	4.41	7.59	0.96
2	4.77	7.23	0.92
3	5.00	7.00	0.89
4	5.07	6.93	0.88
5	5.20	6.80	0.86
6	5.37	6.63	0.84
7	5.40	6.60	0.84
8	5.49	6.51	0.82
9	5.59	6.41	0.81
10	5.71	6.29	0.80
11	5.83	6.17	0.78
12	5.99	6.01	0.76
13	6.04	5.96	0.75
14	6.10	5.90	0.75
15	6.21	5.79	0.73
20	7.21	4.79	0.61
25	7.44	4.56	0.58
30	8.04	3.96	0.50
35	8.41	3.59	0.45
40	9.00	3.00	0.38
45	9.14	2.86	0.36
50	9.31	2.69	0.34
55	9.53	2.47	0.31
60	10.10	1.90	0.24





DRAFT

Drainage rate:			
t1	5 mins	H1	6.8 m
t2	60 mins	H2	1.9 m
Permeability:	5.0E-07		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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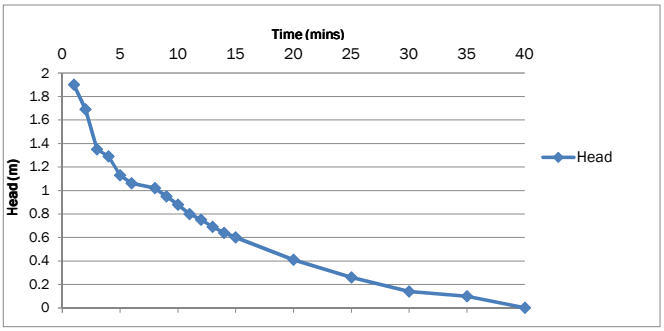
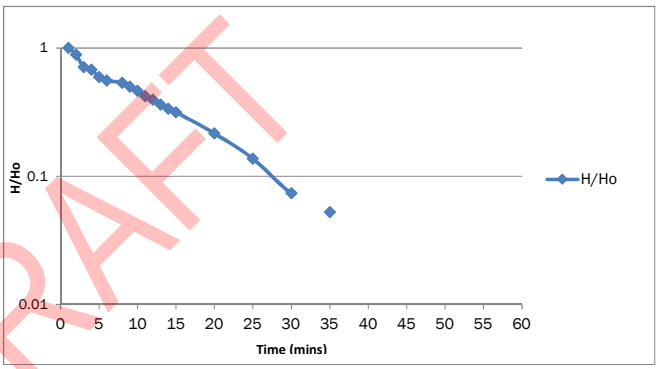
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Test Borehole: EBH11

Borehole depth	2.10 m
Casing depth	1.00 m
Casing diameter	0.11 m
Intake factor, F =	2.285
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	2.1 m

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.20	1.90	1.00
2	0.41	1.69	0.89
3	0.75	1.35	0.71
4	0.81	1.29	0.68
5	0.97	1.13	0.59
6	1.04	1.06	0.56
8	1.08	1.02	0.54
9	1.15	0.95	0.50
10	1.22	0.88	0.46
11	1.30	0.80	0.42
12	1.35	0.75	0.39
13	1.41	0.69	0.36
14	1.46	0.64	0.34
15	1.50	0.60	0.32
20	1.69	0.41	0.22
25	1.84	0.26	0.14
30	1.96	0.14	0.07
35	2.00	0.10	0.05
40	2.10	0.00	0.00





DRAFT

Drainage rate:			
t1	6 mins	H1	1.06 m
t2	35 mins	H2	0.1 m
Permeability:	5.3E-06		

FALLING HEAD PERMEABILITY TEST RESULTS

Testing and assessment undertaken in accordance with BS EN ISO 22282-1/2

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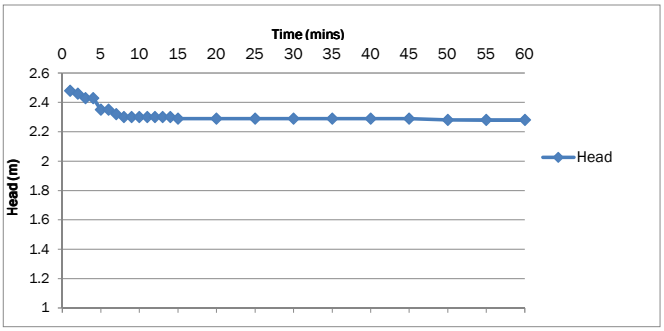
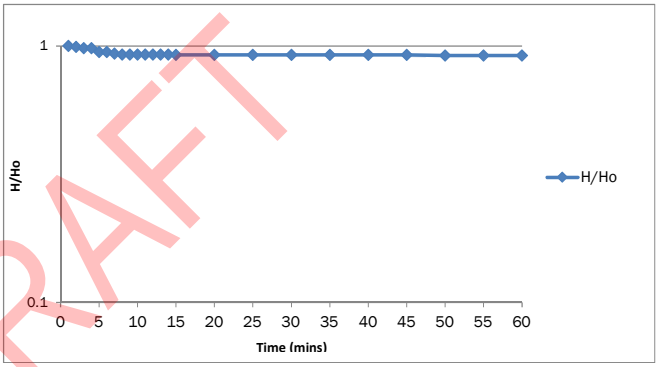
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Test Borehole: EBH12

Borehole depth	2.50 m
Casing depth	1.00 m
Casing diameter	0.11 m
Intake factor, F =	2.826
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	2.5 m

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.02	2.48	1.00
2	0.04	2.46	0.99
3	0.07	2.43	0.98
4	0.07	2.43	0.98
5	0.15	2.35	0.95
6	0.15	2.35	0.95
7	0.18	2.32	0.94
8	0.20	2.30	0.93
9	0.20	2.30	0.93
10	0.20	2.30	0.93
11	0.20	2.30	0.93
12	0.20	2.30	0.93
13	0.20	2.30	0.93
14	0.20	2.30	0.93
15	0.21	2.29	0.92
20	0.21	2.29	0.92
25	0.21	2.29	0.92
30	0.21	2.29	0.92
35	0.21	2.29	0.92
40	0.21	2.29	0.92
45	0.21	2.29	0.92
50	0.22	2.28	0.92
55	0.22	2.28	0.92
60	0.22	2.28	0.92





DRAFT

Drainage rate:			
t1	10 mins	H1	2.3 m
t2	60 mins	H2	2.28 m
Permeability:	9.3E-09		

FALLING HEAD PERMEABILITY TEST RESULTS

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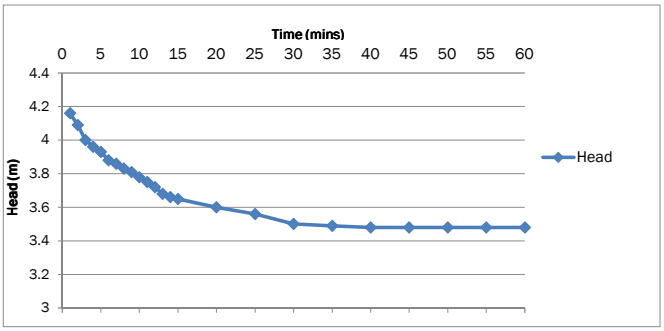
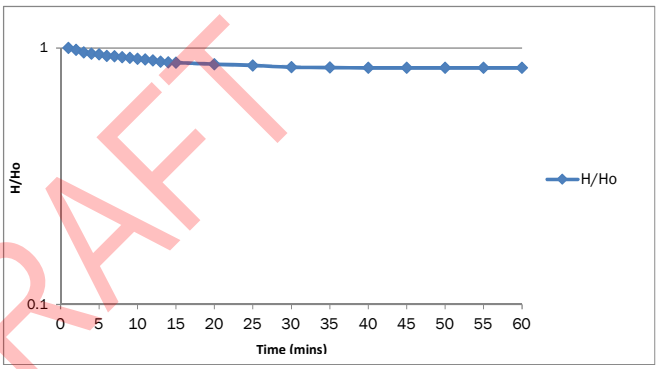
Project Name: Cosmeston Farm, Cosmeston
Project No.: 7061b

Test Borehole: EBH13

Borehole depth	4.20 m
Casing depth	1.00 m
Casing diameter	0.11 m
Intake factor, F =	4.912
ISO 22282-1:2012, Cylindrical L/D>10	
Internal Cross Section, S =	0.0090 m^2
Initial water level:	4.2 m

Time (mins)	Water level (m bgl)	Head (m)	H/Ho
1	0.04	4.16	1.00
2	0.11	4.09	0.98
3	0.20	4.00	0.96
4	0.24	3.96	0.95
5	0.27	3.93	0.94
6	0.32	3.88	0.93
7	0.34	3.86	0.93
8	0.37	3.83	0.92
9	0.39	3.81	0.92
10	0.42	3.78	0.91
11	0.45	3.75	0.90
12	0.48	3.72	0.89
13	0.52	3.68	0.88
14	0.54	3.66	0.88
15	0.55	3.65	0.88
20	0.60	3.60	0.87
25	0.64	3.56	0.86
30	0.70	3.50	0.84
35	0.71	3.49	0.84
40	0.72	3.48	0.84
45	0.72	3.48	0.84
50	0.72	3.48	0.84
55	0.72	3.48	0.84
60	0.72	3.48	0.84





DRAFT

Drainage rate:			
t1	30 mins	**H1**	3.5 m
t2	60 mins	**H2**	3.48 m
Permeability:	5.8E-09		