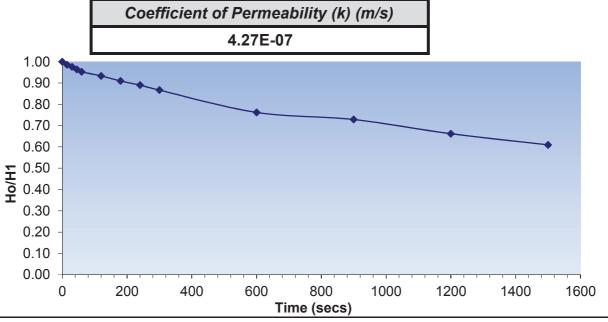
# **APPENDIX 12**

**Falling Head Test Results** 

Falling Head Test			Borehole:	WS05	Test No:	1 of 1	
Job No: Contract Title:	ST15807 Technical Reports at Blythe Park		Diameter Top Of Response Zone		50 mm		
Date of Test:	03/03/2017		Base of Response Zone Groundwater Level		2.10 m		
Recorded Time Hours Minutes Seconds			Total Time (secs)	Depth (m)	H/Ho		
0	0	0	0	0.00	1.000		
0	0	15	15	0.03	0.986		
0	0	30	30	0.05	0.976		
0	0	45	45	0.08	0.964		
0	1	0	60	0.10	0.952		
0	2	0	120	0.14	0.933		
0	3	0	180	0.19	0.910		
0	4	0	240	0.23	0.890		
0	5	0	300	0.28	0.867		
0	10	0	600	0.50	0.762		
0	15	0	900	0.57	0.729	$H_0 =$	2.100
0	20	0	1200	0.71	0.662	H <sub>1</sub> =	0.986
0	25	0	1500	0.82	0.610	H <sub>2</sub> =	0.976
0	30	0	1800	0.90	0.571	t <sub>1</sub> =	15
						t <sub>2</sub> =	30

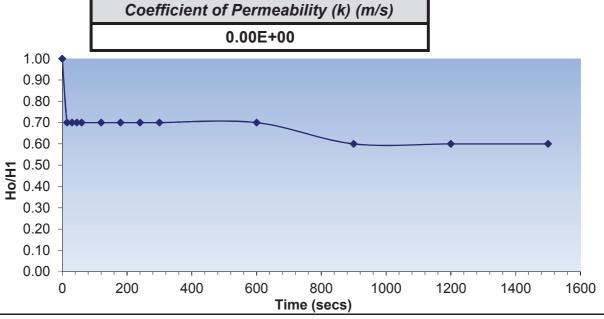
3 0.002



## Kov.

- **k** = Coefficient of Permeability calculated from the general approach in 25.4.6; Method 1 (BS5930)
- F = Intake Factor calculated from Equation D, Figure 6 from BS5930
- A = Cross Sectional Area of well pack
- **H**<sub>1</sub> = variable head measured at time t<sub>1</sub> after commencement of test
- $H_2$  = variable head measured at time  $t_2$  after commencement of test

Falling Head Test		Borehole:	WS07	Test No:	1 of 1		
Job No: Contract Title: Date of Test:	ST15807 Technical Reports at Blythe Park 03/03/2017		Diameter Top Of Response Zone Base of Response Zone Groundwater Level		50 mm 0.00 m 3.00 m 1.00 m		
Recorded Time Hours Minutes Seconds			Total Time (secs)	Depth (m)	H/Ho		
0	0	0	0	0.00	1.000		
0	0	15	15	0.30	0.700		
0	0	30	30	0.30	0.700		
0	0	45	45	0.30	0.700		
0	1	0	60	0.30	0.700		
0	2	0	120	0.30	0.700		
0	3	0	180	0.30	0.700		
0	4	0	240	0.30	0.700		
0	5	0	300	0.30	0.700		
0	10	0	600	0.30	0.700		
0	15	0	900	0.40	0.600	$H_0 =$	1.000
0	20	0	1200	0.40	0.600	H <sub>1</sub> =	0.700
0	25	0	1500	0.40	0.600	H <sub>2</sub> =	0.700
0	30	0	1800	0.40	0.600	t <sub>1</sub> =	15
						t <sub>2</sub> =	30
						F =	2
						A =	0.002



## Key

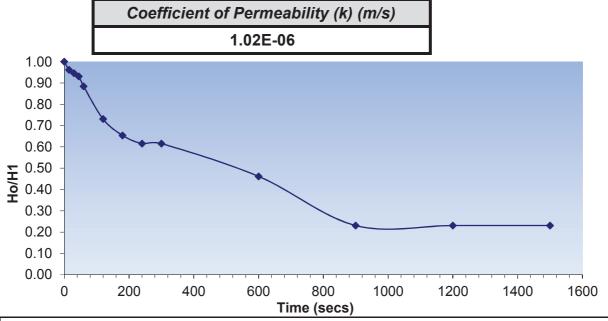
- **k** = Coefficient of Permeability calculated from the general approach in 25.4.6; Method 1 (BS5930)
- F = Intake Factor calculated from Equation D, Figure 6 from BS5930
- A = Cross Sectional Area of well pack
- **H**<sub>1</sub> = variable head measured at time t<sub>1</sub> after commencement of test
- $H_2$  = variable head measured at time  $t_2$  after commencement of test

Falling Head Test			Borehole:	WS15	Test No:	1 of 1	
Job No:	ST15807		Diameter		50 mm		
Contract Title:		oorts at Blythe Park	Top Of Response Zone		0.00 m		
Date of Test:	02/03/2017		Base of Response Zone		2.00 m		
			Groundwater Lev	/el	1.30	m	
	Recorded Tin	ne	Total Time	Total Time Depth (m)			
Hours	Minutes	Seconds	(secs)	Deptii (iii)	H/Ho		
0	0	0	0	0.00	1.000		
0	0	15	15	0.05	0.962		
0	0	30	30	0.07	0.946		
0	0	45	45	0.09	0.931		
0	1	0	60	0.15	0.885		
0	2	0	120	0.35	0.731		
0	3	0	180	0.45	0.654		
0	4	0	240	0.50	0.615		
0	5	0	300	0.50	0.615		
0	10	0	600	0.70	0.462		
0	15	0	900	1.00	0.231	$H_0 =$	1.300
0	20	0	1200	1.00	0.231	H <sub>1</sub> =	0.962
0	25	0	1500	1.00	0.231	H <sub>2</sub> =	0.946
0	30	0	1800	1.00	0.231	t <sub>1</sub> =	15
						to =	30

2

0.002

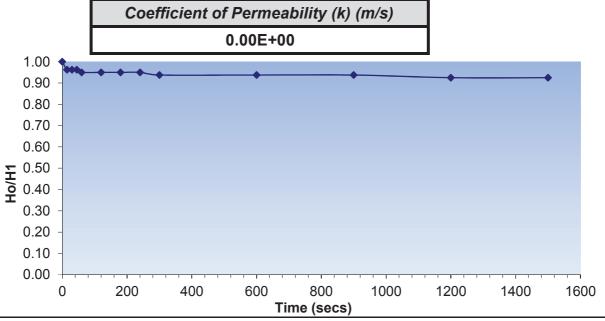
A =



## Key:

- **k** = Coefficient of Permeability calculated from the general approach in 25.4.6; Method 1 (BS5930)
- F = Intake Factor calculated from Equation D, Figure 6 from BS5930
- A = Cross Sectional Area of well pack
- H<sub>1</sub> = variable head measured at time t<sub>1</sub> after commencement of test
- $H_2$  = variable head measured at time  $t_2$  after commencement of test

Falling Head Test		Borehole:	WS25	Test No:	1 of 1		
Job No: Contract Title: Date of Test:	ST15807 Technical Reports at Blythe Park 01/03/2017		Diameter Top Of Response Zone Base of Response Zone		50 mm 0.00 m 2.20 m 0.80 m		
Recorded Time Hours Minutes Seconds			Groundwater Lev Total Time (secs)	Depth (m)	H/Ho		
0	0	0	0	0.00	1.000		
0	0	15	15	0.03	0.963		
0	0	30	30	0.03	0.963		
0	0	45	45	0.03	0.963		
0	1	0	60	0.04	0.950		
0	2	0	120	0.04	0.950		
0	3	0	180	0.04	0.950		
0	4	0	240	0.04	0.950		
0	5	0	300	0.05	0.938		
0	10	0	600	0.05	0.938		
0	15	0	900	0.05	0.938	$H_0 =$	0.800
0	20	0	1200	0.06	0.925	H <sub>1</sub> =	0.963
0	25	0	1500	0.06	0.925	H <sub>2</sub> =	0.963
0	30	0	1800	0.06	0.925	t <sub>1</sub> =	15
						t <sub>2</sub> =	30
						F=	1
						A =	0.002

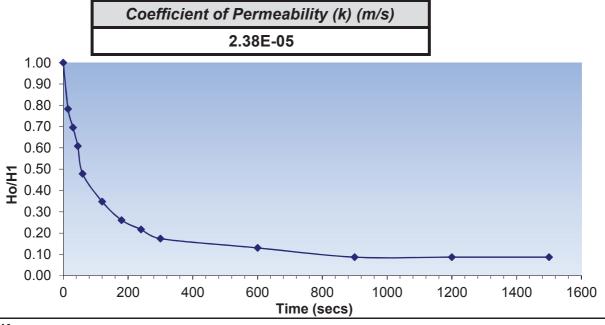


## Key

- **k** = Coefficient of Permeability calculated from the general approach in 25.4.6; Method 1 (BS5930)
- F = Intake Factor calculated from Equation D, Figure 6 from BS5930
- A = Cross Sectional Area of well pack
- H<sub>1</sub> = variable head measured at time t<sub>1</sub> after commencement of test
- $H_2$  = variable head measured at time  $t_2$  after commencement of test

Falling Head Test			Borehole:	WS27	Test No:	1 of 1		
Job No:	ST15807		Diameter		50 mm			
Contract Title:	Technical Rep	oorts at Blythe Park	Top Of Response Zone		0.00 m			
Date of Test:	28/02/2017		Base of Response Zone		2.10 m			
			Groundwater Lev	vel	0.23 m			
	Recorded Tin	пе	Total Time Depth (m)	H/Ho				
Hours	Minutes	Seconds	(secs)	Deptil (III)	1 1/1 10			
0	0	0	0	0.00	1.000			
0	0	15	15	0.05	0.783			
0	0	30	30	0.07	0.696			
0	0	45	45	0.09	0.609			
0	1	0	60	0.12	0.478			
0	2	0	120	0.15	0.348			
0	3	0	180	0.17	0.261			
0	4	0	240	0.18	0.217			
0	5	0	300	0.19	0.174			
0	10	0	600	0.20	0.130			
0	15	0	900	0.21	0.087	$H_0 =$	0.230	
0	20	0	1200	0.21	0.087	H <sub>1</sub> =	0.783	
0	25	0	1500	0.21	0.087	H <sub>2</sub> =	0.696	
0	30	0	1800	0.21	0.087	t <sub>1</sub> =	15	
						t <sub>2</sub> =	30	

0.002



## Key:

- **k** = Coefficient of Permeability calculated from the general approach in 25.4.6; Method 1 (BS5930)
- F = Intake Factor calculated from Equation D, Figure 6 from BS5930
- A = Cross Sectional Area of well pack
- H<sub>1</sub> = variable head measured at time t<sub>1</sub> after commencement of test
- $\mathbf{H_2}$  = variable head measured at time  $\mathbf{t_2}$  after commencement of test