



In-situ Variable Head Permeability Test

See BS 5930:1999 +A2:2010 Para. 25.4

Site Name:	Nine Mile Ride
Site Reference:	A12507-2
Test Date:	15/05/2023
Test Location:	WS102

Test Type:	Falling
Diameter of Borehole (m):	0.115
Internal Diameter of Pipework (m):	0.05
Depth to Base Top of Slotted Pipe (m bgl):	0.60
Depth to Bottom of Slotted Pipe (m bgl):	2.60
Ground Water Level (m bgl):	0.98
Water Level at Start of Test (m):	0.09
Initial Head of Water (H ₀):	0.89

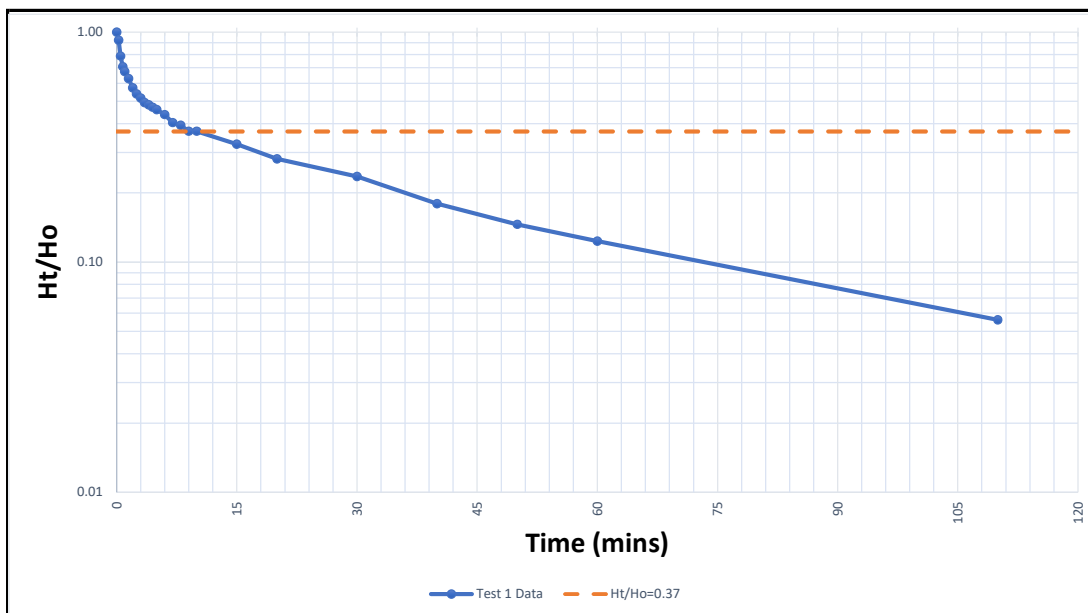
Time Lag of Test (H _t /H ₀ = 0.37)	9.00
Intake Factor (F) (BS5930:1999+A2:2010 page 50)	3.5399
Intake Factor (F) Case: (BS5930:1999+A2:2010)	D

Permeability (k)	5.43E-06	m/s
	4.69E-01	m/d

Notes:

Test 1

Time (min)	Depth (m)	H _t (m)	H _t /H ₀
0.00	0.09	0.89	1.00
0.25	0.16	0.82	0.92
0.50	0.28	0.70	0.79
0.75	0.35	0.63	0.71
1.00	0.38	0.60	0.67
1.50	0.42	0.56	0.63
2.00	0.47	0.51	0.57
2.50	0.50	0.48	0.54
3.00	0.52	0.46	0.52
3.50	0.54	0.44	0.49
4.00	0.55	0.43	0.48
4.50	0.56	0.42	0.47
5.00	0.57	0.41	0.46
6.00	0.59	0.39	0.44
7.00	0.62	0.36	0.40
8.00	0.63	0.35	0.39
9.00	0.65	0.33	0.37
10.00	0.65	0.33	0.37
15.00	0.69	0.29	0.33
20.00	0.73	0.25	0.28
30.00	0.77	0.21	0.24
40.00	0.82	0.16	0.18
50.00	0.85	0.13	0.15
60.00	0.87	0.11	0.12
110.00	0.93	0.05	0.06
116.00	0.95	0.03	0.03



Site Engineer:	Date:
JR	15/05/2023

Checked and Approved By:	Date:
AK	30/05/2023

Location
WS102



In-situ Variable Head Permeability Test

See BS 5930:1999 +A2:2010 Para. 25.4

Site Name:	Nine Mile Ride
Site Reference:	A12507-2
Test Date:	15/05/2023
Test Location:	WS103

Test Type:	Falling
Diameter of Borehole (m):	0.115
Internal Diameter of Pipework (m):	0.05
Depth to Base Top of Slotted Pipe (m bgl):	1.60
Depth to Bottom of Slotted Pipe (m bgl):	3.00
Ground Water Level (m bgl):	1.41
Water Level at Start of Test (m):	0.18
Initial Head of Water (H ₀):	1.23

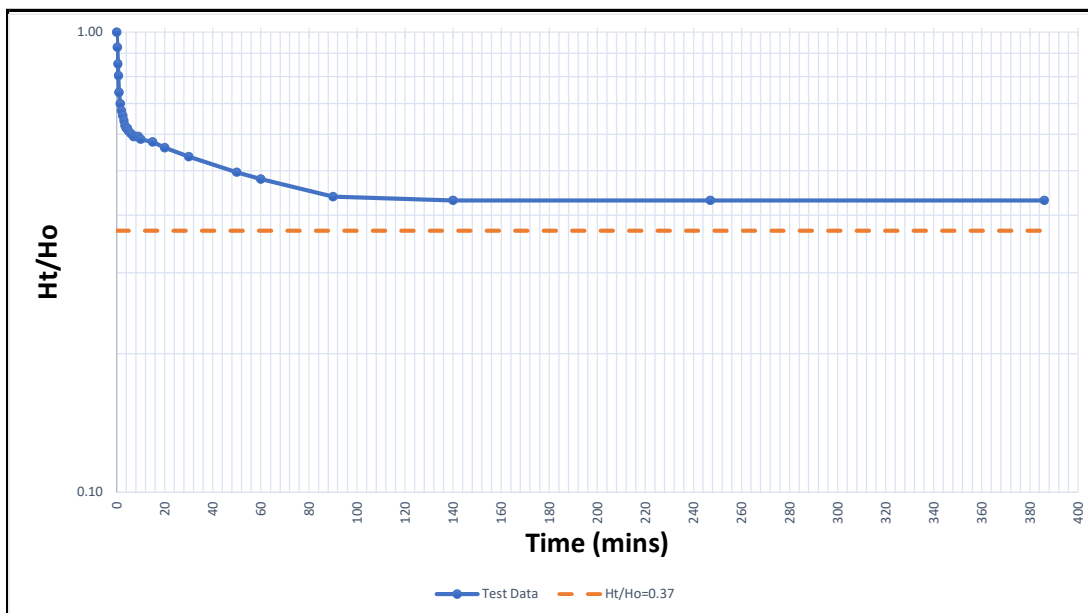
Time Lag of Test (H _t /H ₀ = 0.37)	N/A
Intake Factor (F) (BS5930:1999+A2:2010 page 50)	2.7539
Intake Factor (F) Case: (BS5930:1999+A2:2010)	D

Permeability (k)	N/A	m/s
	#VALUE!	m/d

Notes:

Test 1

Time (min)	Depth (m)	H _t (m)	H _t /H ₀
0.00	0.18	1.23	1.00
0.25	0.27	1.14	0.93
0.50	0.36	1.05	0.85
0.75	0.42	0.99	0.80
1.00	0.50	0.91	0.74
1.50	0.55	0.86	0.70
2.00	0.58	0.83	0.67
2.50	0.60	0.81	0.66
3.00	0.62	0.79	0.64
3.50	0.64	0.77	0.63
4.00	0.65	0.76	0.62
4.50	0.65	0.76	0.62
5.00	0.66	0.75	0.61
6.00	0.67	0.74	0.60
7.00	0.68	0.73	0.59
8.00	0.68	0.73	0.59
9.00	0.68	0.73	0.59
10.00	0.69	0.72	0.59
15.00	0.70	0.71	0.58
20.00	0.72	0.69	0.56
30.00	0.75	0.66	0.54
50.00	0.80	0.61	0.50
60.00	0.82	0.59	0.48
90.00	0.87	0.54	0.44
140.00	0.88	0.53	0.43
247.00	0.88	0.53	0.43



Site Engineer:	Date:
JR	15/05/2023

Checked and Approved By:	Date:
AK	20/05/2023

Location
WS103



In-situ Variable Head Permeability Test

See BS 5930:1999 +A2:2010 Para. 25.4

Site Name:	Nine Mile Ride
Site Reference:	A12507-2
Test Date:	15/05/2023
Test Location:	WS105

Test Type:	Falling
Diameter of Borehole (m):	0.115
Internal Diameter of Pipework (m):	0.05
Depth to Base Top of Slotted Pipe (m bgl):	0.60
Depth to Bottom of Slotted Pipe (m bgl):	1.80
Ground Water Level (m bgl):	1.80
Water Level at Start of Test (m):	0.30
Initial Head of Water (H ₀):	1.50

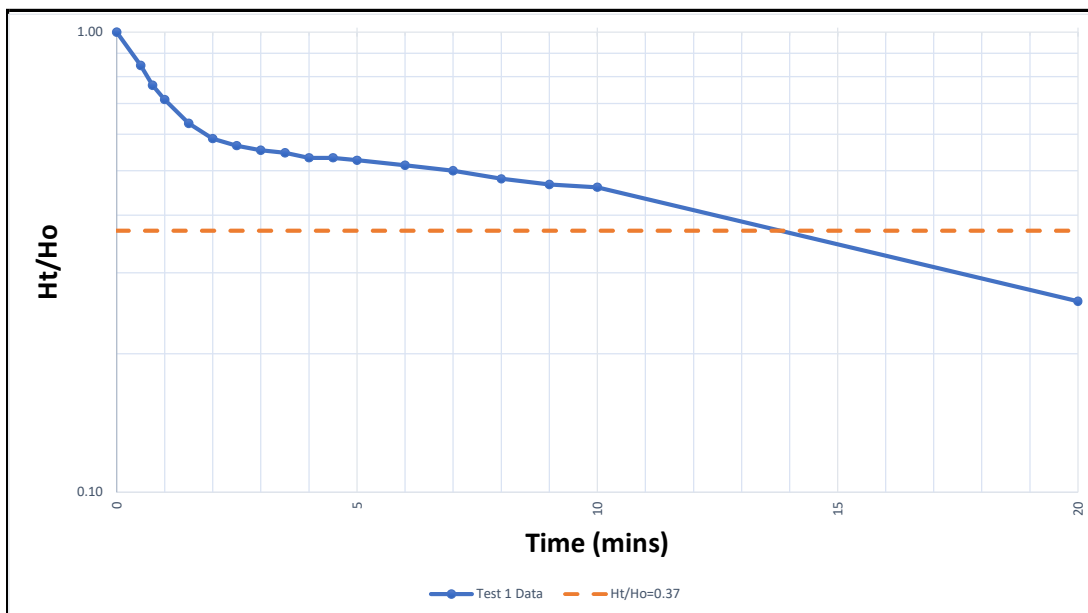
Time Lag of Test (H _t /H ₀ = 0.37)	13.50
Intake Factor (F) (BS5930:1999+A2:2010 page 50)	2.4797
Intake Factor (F) Case: (BS5930:1999+A2:2010)	D

Permeability (k)	5.17E-06	m/s
	4.47E-01	m/d

Notes:

Test 1

Time (min)	Depth (m)	H _t (m)	H _t /H ₀
0.00	0.30	1.50	1.00
0.50	0.53	1.27	0.85
0.75	0.65	1.15	0.77
1.00	0.73	1.07	0.71
1.50	0.85	0.95	0.63
2.00	0.92	0.88	0.59
2.50	0.95	0.85	0.57
3.00	0.97	0.83	0.55
3.50	0.98	0.82	0.55
4.00	1.00	0.80	0.53
4.50	1.00	0.80	0.53
5.00	1.01	0.79	0.53
6.00	1.03	0.77	0.51
7.00	1.05	0.75	0.50
8.00	1.08	0.72	0.48
9.00	1.10	0.70	0.47
10.00	1.11	0.69	0.46
20.00	1.41	0.39	0.26
30.00	1.59	0.21	0.14
40.00	1.60	0.20	0.13
43.00	1.77	0.03	0.02



Site Engineer:	Date:
JR	15/05/2023

Checked and Approved By:	Date:
AK	30/05/2023

Location
WS105



In-situ Variable Head Permeability Test

See BS 5930:1999 +A2:2010 Para. 25.4

Site Name:	Nine Mile Ride
Site Reference:	A12507-2
Test Date:	15/05/2023
Test Location:	WS105

Test Type:	Falling
Diameter of Borehole (m):	0.115
Internal Diameter of Pipework (m):	0.05
Depth to Base Top of Slotted Pipe (m bgl):	0.60
Depth to Bottom of Slotted Pipe (m bgl):	1.80
Ground Water Level (m bgl):	1.80
Water Level at Start of Test (m):	0.01
Initial Head of Water (H ₀):	1.79

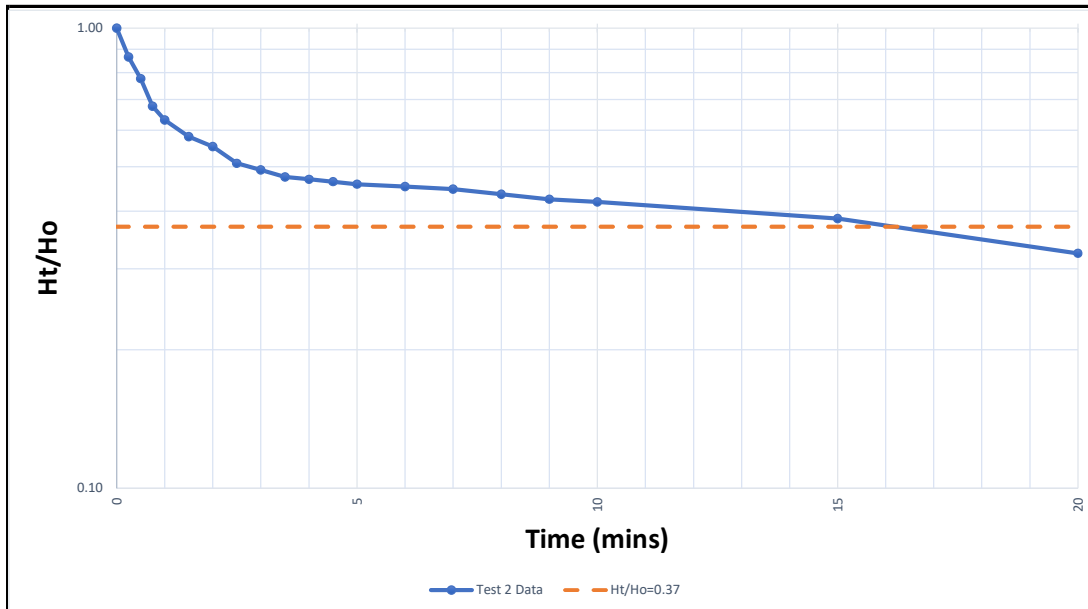
Time Lag of Test (H _t /H ₀ = 0.37)	16.50
Intake Factor (F) (BS5930:1999+A2:2010 page 50)	2.4797
Intake Factor (F) Case: (BS5930:1999+A2:2010)	D

Permeability (k)	4.23E-06	m/s
	3.66E-01	m/d

Notes:

Test 2

Time (min)	Depth (m)	H _t (m)	H _t /H ₀
0.00	0.01	1.79	1.00
0.25	0.25	1.55	0.87
0.50	0.41	1.39	0.78
0.75	0.59	1.21	0.68
1.00	0.67	1.13	0.63
1.50	0.76	1.04	0.58
2.00	0.81	0.99	0.55
2.50	0.89	0.91	0.51
3.00	0.92	0.88	0.49
3.50	0.95	0.85	0.47
4.00	0.96	0.84	0.47
4.50	0.97	0.83	0.46
5.00	0.98	0.82	0.46
6.00	0.99	0.81	0.45
7.00	1.00	0.80	0.45
8.00	1.02	0.78	0.44
9.00	1.04	0.76	0.42
10.00	1.05	0.75	0.42
15.00	1.11	0.69	0.39
20.00	1.22	0.58	0.32
30.00	1.36	0.44	0.25
40.00	1.51	0.29	0.16
50.00	1.60	0.20	0.11
60.00	1.75	0.05	0.03



Site Engineer:	Date:
JR	15/05/2023

Checked and Approved By:	Date:
AK	30/05/2023

Location
WS105



In-situ Variable Head Permeability Test

See BS 5930:1999 +A2:2010 Para. 25.4

Site Name:	Nine Mile Ride
Site Reference:	A12507-2
Test Date:	15/05/2023
Test Location:	WS105

Test Type:	Falling
Diameter of Borehole (m):	0.115
Internal Diameter of Pipework (m):	0.05
Depth to Base Top of Slotted Pipe (m bgl):	0.60
Depth to Bottom of Slotted Pipe (m bgl):	1.80
Ground Water Level (m bgl):	1.80
Water Level at Start of Test (m):	0.18
Initial Head of Water (H ₀):	1.62

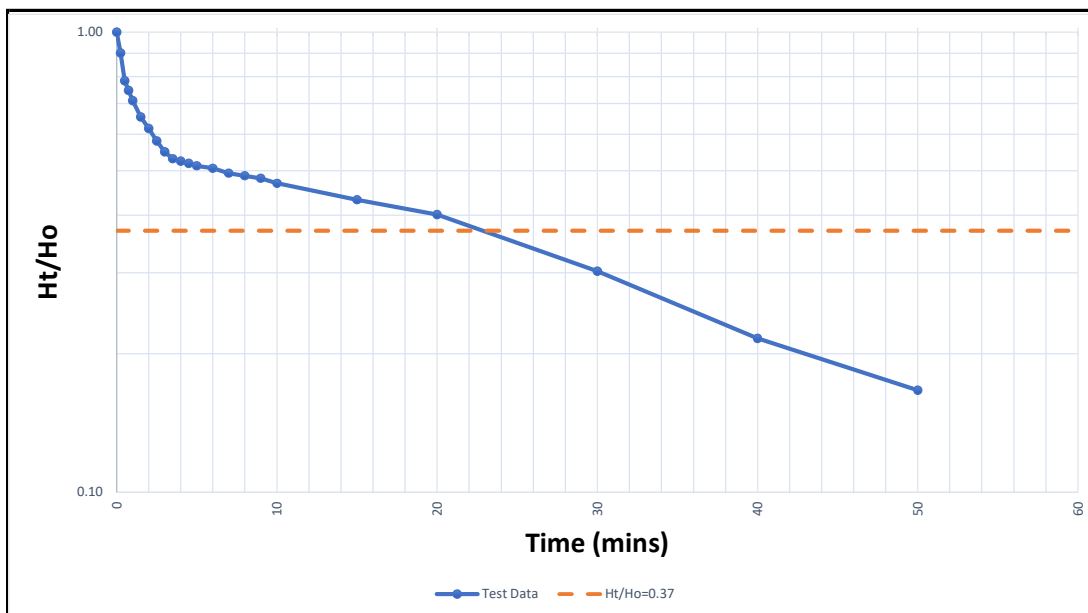
Time Lag of Test (H _t /H ₀ = 0.37)	23.00
Intake Factor (F) (BS5930:1999+A2:2010 page 50)	2.4797
Intake Factor (F) Case: (BS5930:1999+A2:2010)	D

Permeability (k)	3.04E-06	m/s
	2.62E-01	m/d

Notes:

Test 3

Time (min)	Depth (m)	H _t (m)	H _t /H ₀
0.00	0.18	1.62	1.00
0.25	0.34	1.46	0.90
0.50	0.53	1.27	0.78
0.75	0.59	1.21	0.75
1.00	0.65	1.15	0.71
1.50	0.74	1.06	0.65
2.00	0.80	1.00	0.62
2.50	0.86	0.94	0.58
3.00	0.91	0.89	0.55
3.50	0.94	0.86	0.53
4.00	0.95	0.85	0.52
4.50	0.96	0.84	0.52
5.00	0.97	0.83	0.51
6.00	0.98	0.82	0.51
7.00	1.00	0.80	0.49
8.00	1.01	0.79	0.49
9.00	1.02	0.78	0.48
10.00	1.04	0.76	0.47
15.00	1.10	0.70	0.43
20.00	1.15	0.65	0.40
30.00	1.31	0.49	0.30
40.00	1.45	0.35	0.22
50.00	1.53	0.27	0.17
60.00	1.72	0.08	0.05



Site Engineer:	Date:
JR	15/05/2023

Checked and Approved By:	Date:
AK	30/05/2023

Location
WS105

APPENDIX XII – GROUND GAS MONITORING SUMMARY

APPENDIX XIII – ENVIRONMENTAL LABORATORY CLASSIFICATION SUMMARY

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