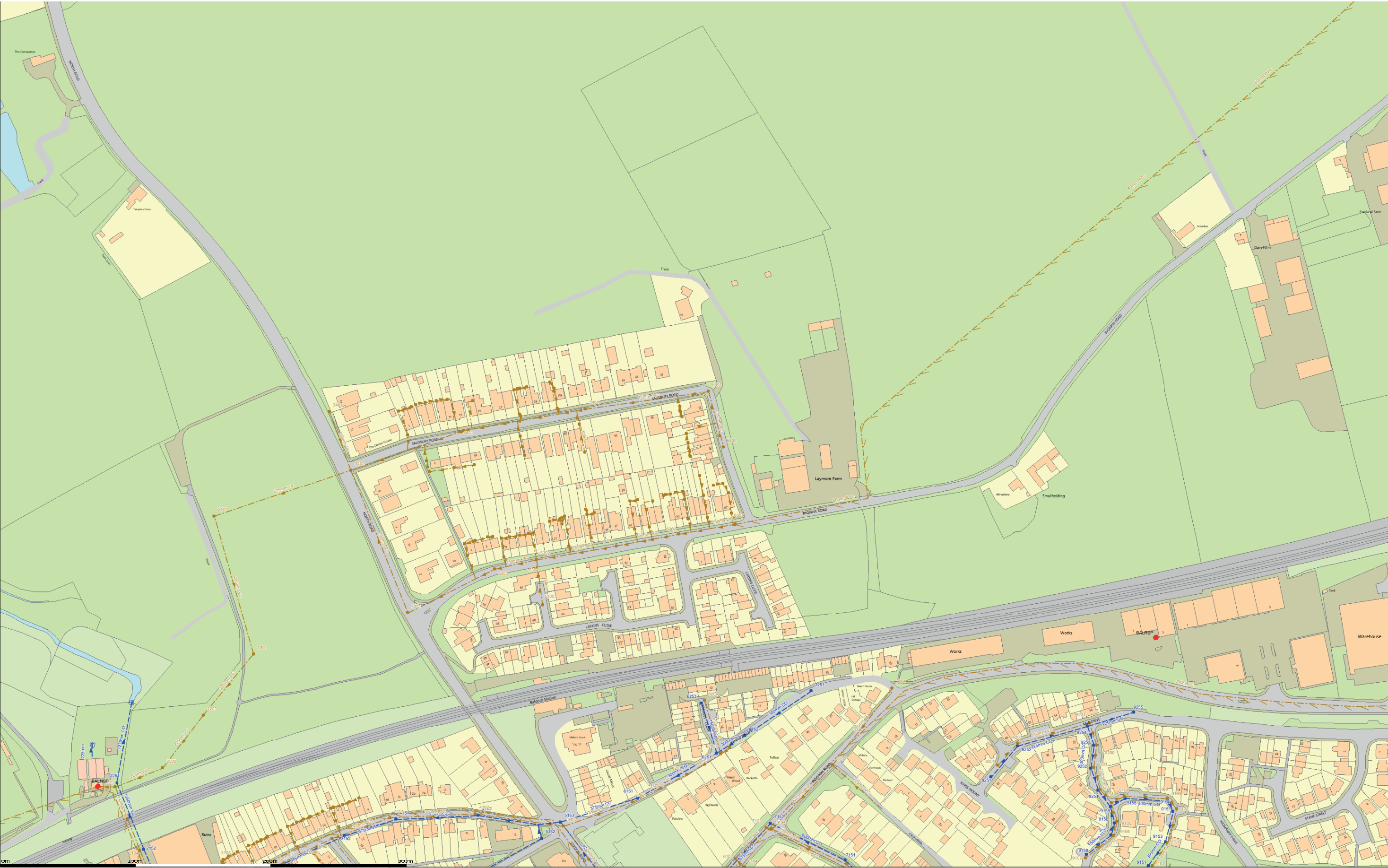




(c) Crown copyright and database rights 2017 Ordnance Survey 100022432 Date: 13/07/17 Scale: 1:1250 Map Centre: 524650,234473 Data updated: 01/05/17 Our Ref: 229373 - 1 Wastewater Plan A1

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Foul Sewer
Surface Sewer
Combined Sewer
Final Effluent
Rising Main

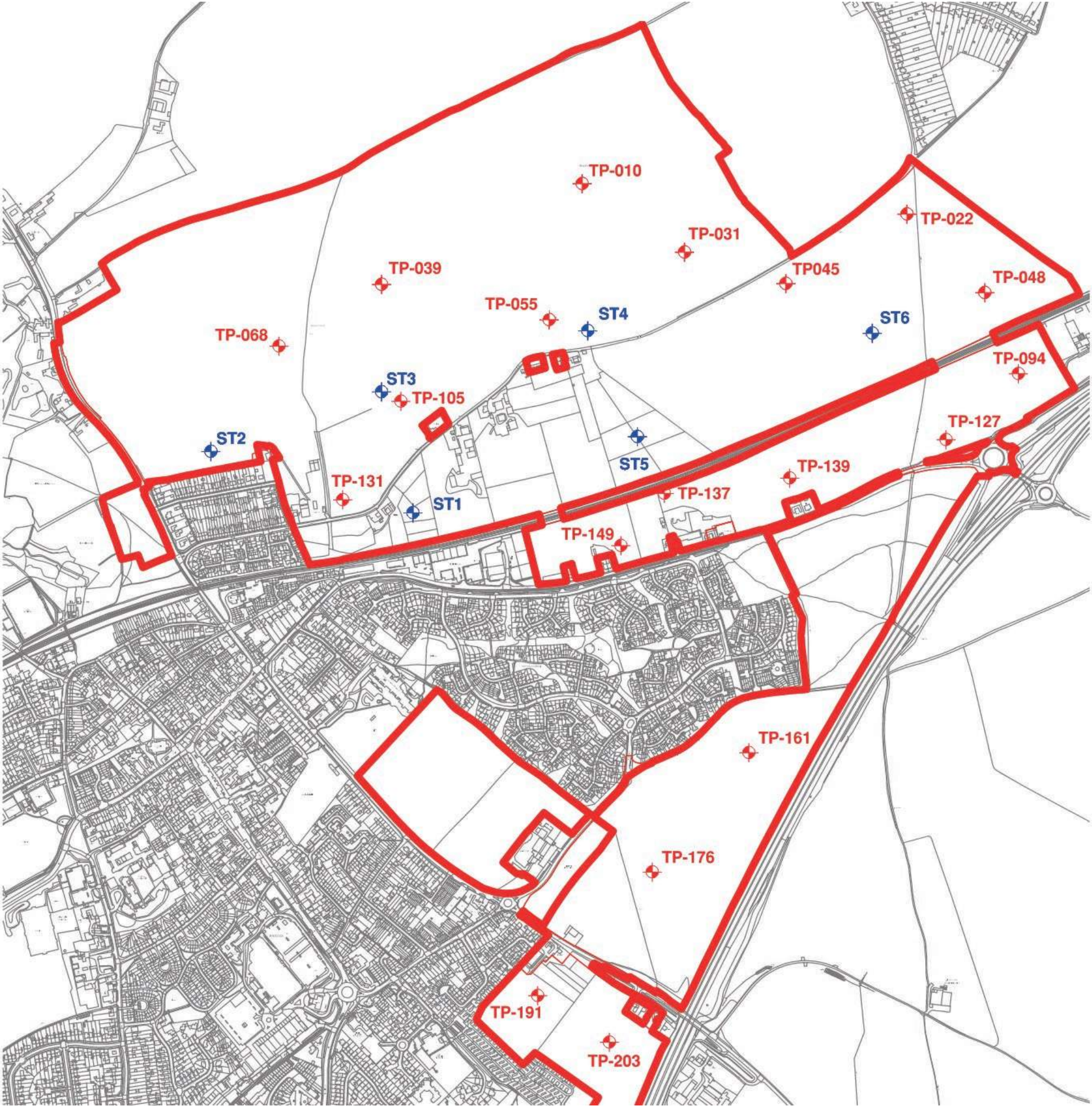
Outfall
(Colour denotes effluent type)
Inlet
(Colour denotes effluent type)
Manhole



Appendix G

Infiltration Testing Results

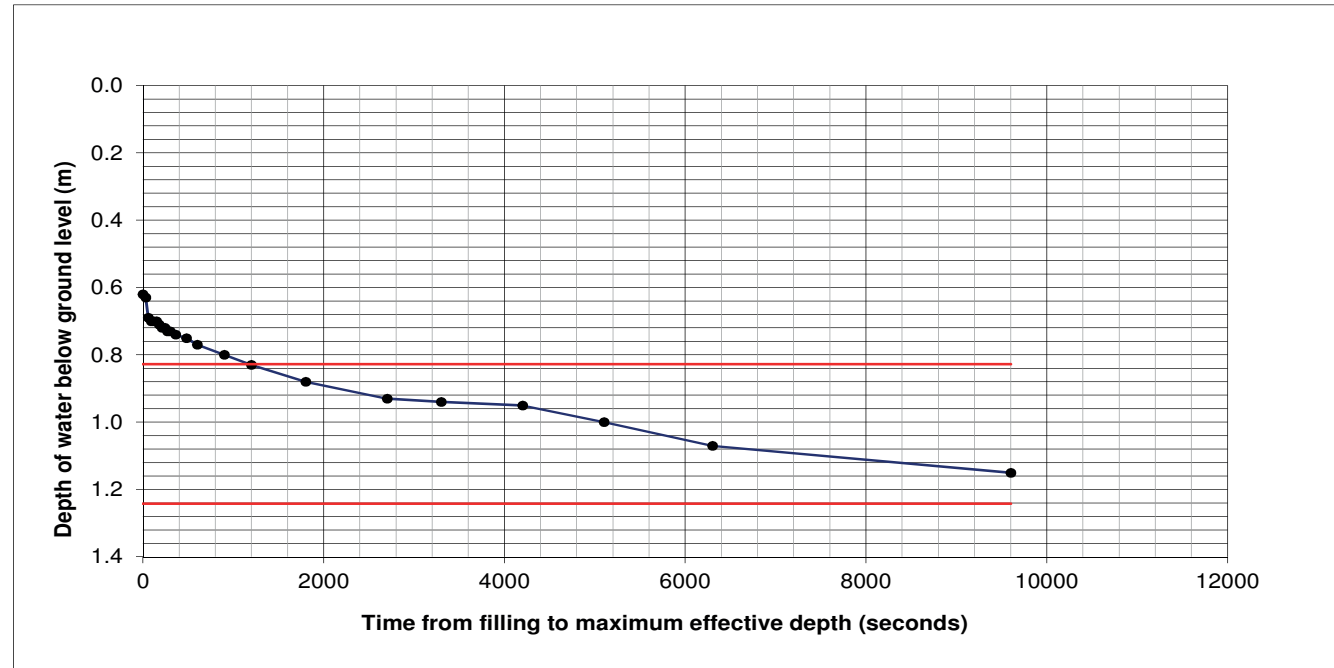




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Ground Engineering Services

PROJECT No.:	A090070-171
PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	1

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST1		
			TEST No.: 1		
			DATE: 05/10/2017		
			INPUT PARAMETERS:		
			Effective depth of Pit (m)		0.83
			Depth of Pit (m)		1.45
			Length of Pit (m)		2.05
			Width of Pit (m)		0.50
			Total volume of pit (m ³)		0.85
			Total volume of Water (m ³)		0.85
			Level of water in pit at 75% effective depth (p ₇₅) (m)		0.21
			Level of water in pit at 25% effective depth (p ₂₅) (m)		0.62
			Surface area of pit up to 50% effective depth (A _{p50}) (m ²)		3.142
			Time at 75% effective depth (p ₇₅) (s)		1100
			Time at 25% effective depth (p ₂₅) (s)		10400
			Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³)		0.43
			Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s)		9300
			SOIL INFILTRATION RATE (f)	$\frac{V_{p75 - 25}}{A_{p50} \times T_{p75 - 25}}$ (m/s)	1.46E-05
			WATER INPUT: Approx 650 litres in 10.5 mins		
			GEOLOGY OF TEST SECTION: White Chalk. Recovered as moderately dense chalk clasts (fine to coarse gravel sized). Occasional fine to coarse nodular flint gravels at 1.4mbgl.		
			Compiled by: DG Checked by: Ccol		
Too many points to display					

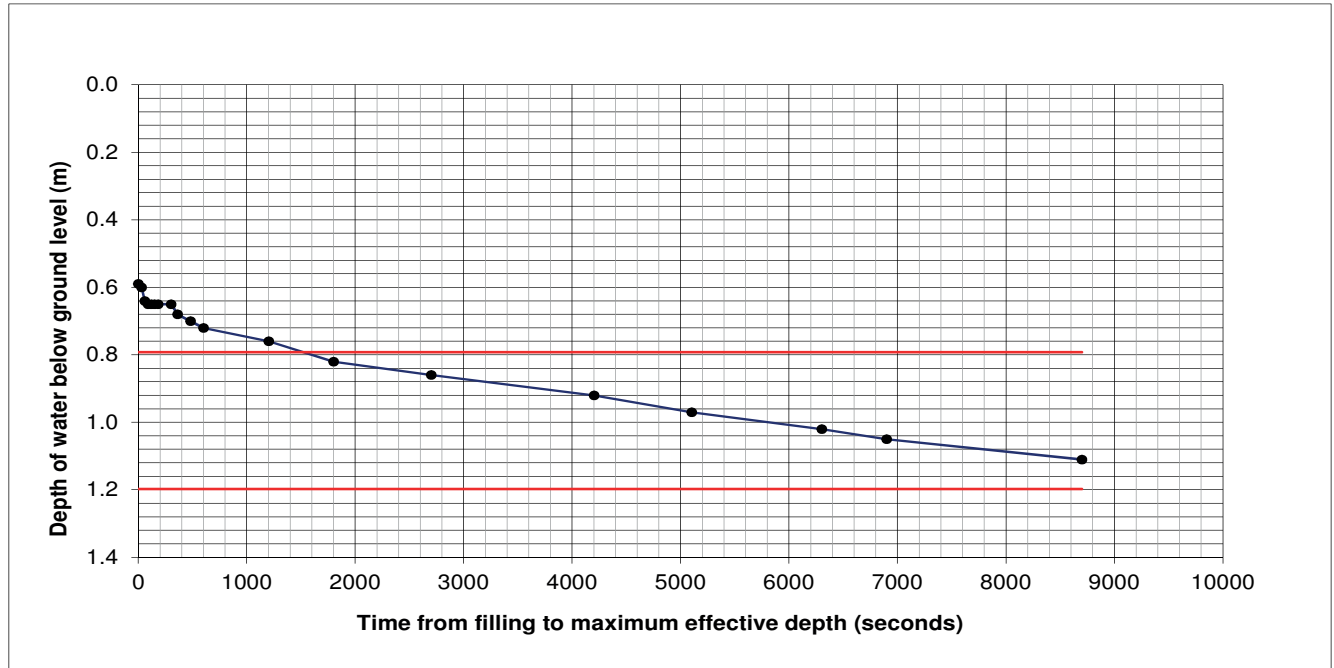
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CLIENT:	Hertfordshire CC
FIGURE No.:	2

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST2
			TEST No.: 1
			DATE: 05/10/2017
0	0.00	0.590	INPUT PARAMETERS:
30	0.50	0.600	Effective depth of Pit (m) 0.81
60	1.00	0.640	Depth of Pit (m) 1.40
90	1.50	0.650	Length of Pit (m) 0.85
120	2.00	0.650	Width of Pit (m) 0.60
150	2.50	0.650	Total volume of pit (m ³) 0.41
180	3.00	0.650	Total volume of Water (m ³) 0.41
300	5.00	0.650	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.20
360	6.00	0.680	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.61
480	8.00	0.700	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 1.685
600	10.00	0.720	Time at 75% effective depth (p ₇₅) (s) 1600
1200	20.00	0.760	Time at 25% effective depth (p ₂₅) (s) 10650
1800	30.00	0.820	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.21
2700	45.00	0.860	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 9050
4200	70.00	0.920	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 1.35E-05
5100	85.00	0.970	WATER INPUT: in
6300	105.00	1.020	GEOLOGY OF TEST SECTION:
6900	115.00	1.050	Light brown fine to coarse sand.
8700	145.00	1.110	Compiled by: DG Checked by: Ccol
Too many points to display			

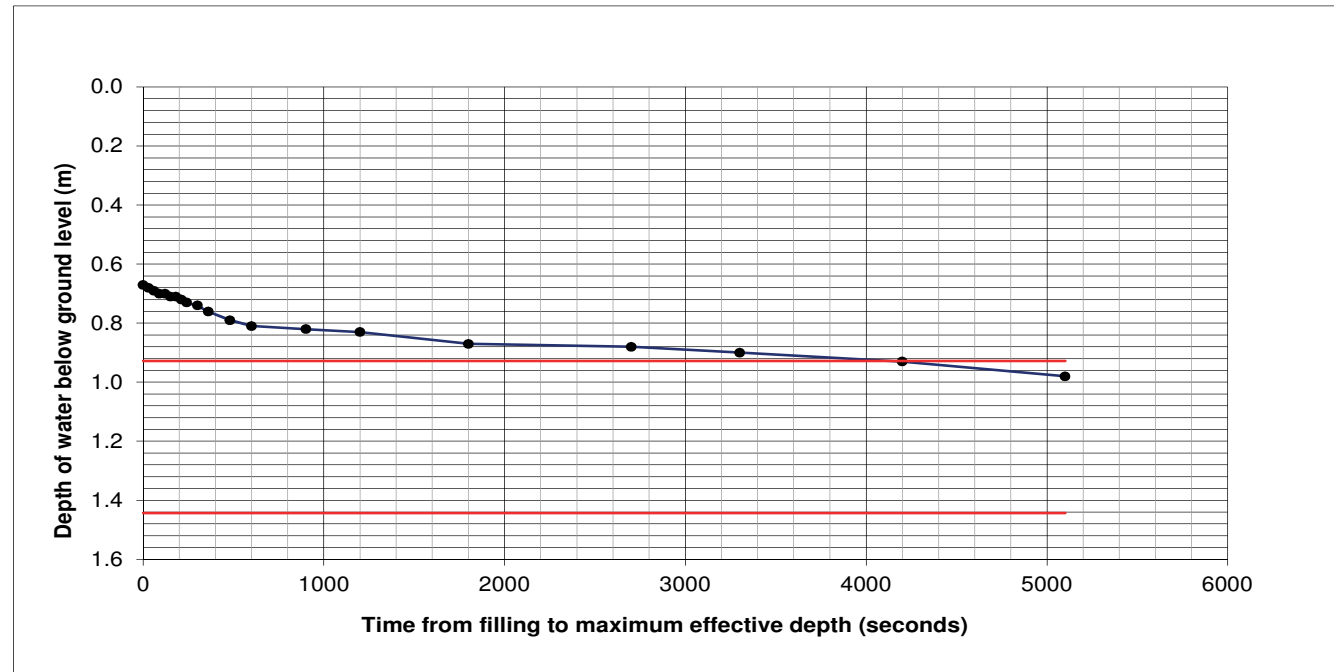
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PROJECT No.:	A090070-171
PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	3

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST3
			TEST No.: 1
			DATE: 05/10/2017
0	0.00	0.670	INPUT PARAMETERS:
30	0.50	0.680	Effective depth of Pit (m) 1.03
60	1.00	0.690	Depth of Pit (m) 1.70
90	1.50	0.700	Length of Pit (m) 0.85
120	2.00	0.700	Width of Pit (m) 0.60
150	2.50	0.710	Total volume of pit (m ³) 0.53
180	3.00	0.710	Total volume of Water (m ³) 0.53
210	3.50	0.720	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.26
240	4.00	0.730	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.77
300	5.00	0.740	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 2.004
360	6.00	0.760	Time at 75% effective depth (p ₇₅) (s) 4000
480	8.00	0.790	Time at 25% effective depth (p ₂₅) (s) 14350
600	10.00	0.810	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.26
900	15.00	0.820	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 10350
1200	20.00	0.830	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 1.27E-05
1800	30.00	0.870	WATER INPUT: in
2700	45.00	0.880	GEOLOGY OF TEST SECTION:
3300	55.00	0.900	Pale grey and white Chalk recovered as moderately dense clasts (fine to coarse gravel). With occasional fine to coarse nodular flint gravels.
4200	70.00	0.930	Compiled by: DG
5100	85.00	0.980	Checked by: Ccol
Too many points to display			

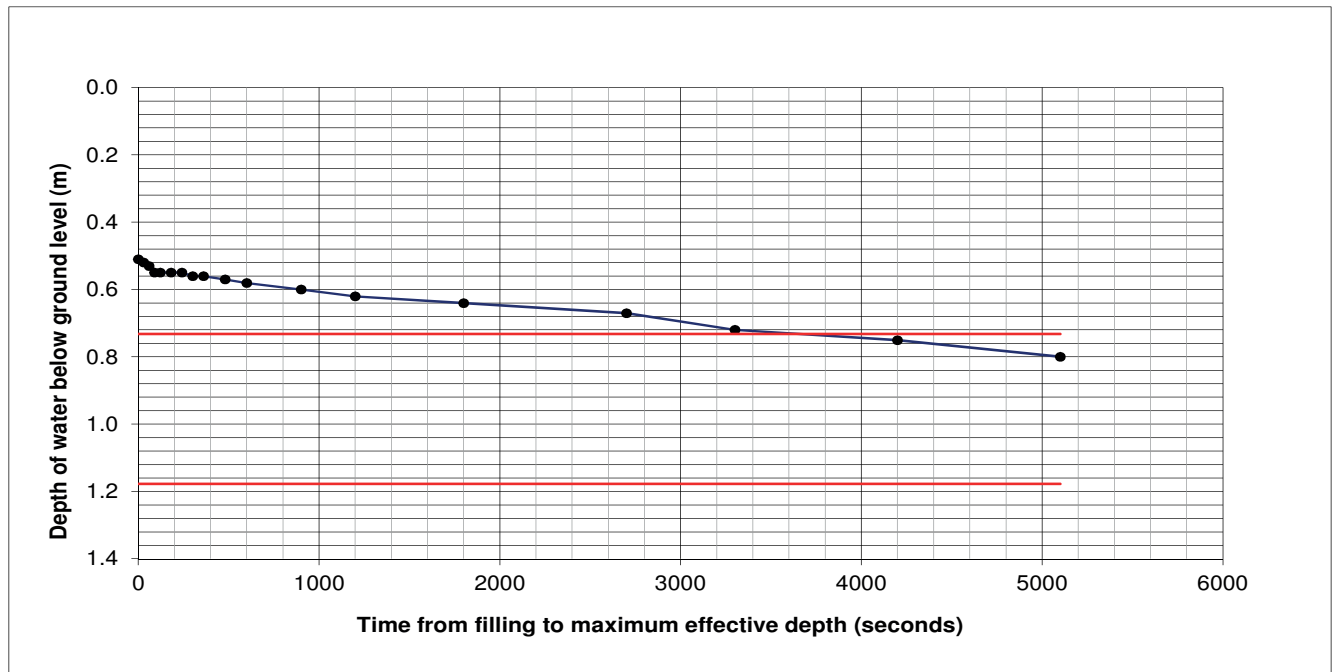
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PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	4

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST4		
			TEST No.: 1		
			DATE: 06/10/2017		
			INPUT PARAMETERS:		
			Effective depth of Pit (m)		0.89
			Depth of Pit (m)		1.40
			Length of Pit (m)		1.60
			Width of Pit (m)		0.50
			Total volume of pit (m ³)		0.71
			Total volume of Water (m ³)		0.71
			Level of water in pit at 75% effective depth (p ₇₅) (m)		0.22
			Level of water in pit at 25% effective depth (p ₂₅) (m)		0.67
			Surface area of pit up to 50% effective depth (A _{p50}) (m ²)		2.669
			Time at 75% effective depth (p ₇₅) (s)		3600
			Time at 25% effective depth (p ₂₅) (s)		12700
			Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³)		0.36
			Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s)		9100
			SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s)		1.47E-05
			WATER INPUT: in		
			GEOLOGY OF TEST SECTION: White Chalk recovered as moderately dense clasts (fine to coarse gravel).		
			Compiled by: DG Checked by: Ccol		
Too many points to display					

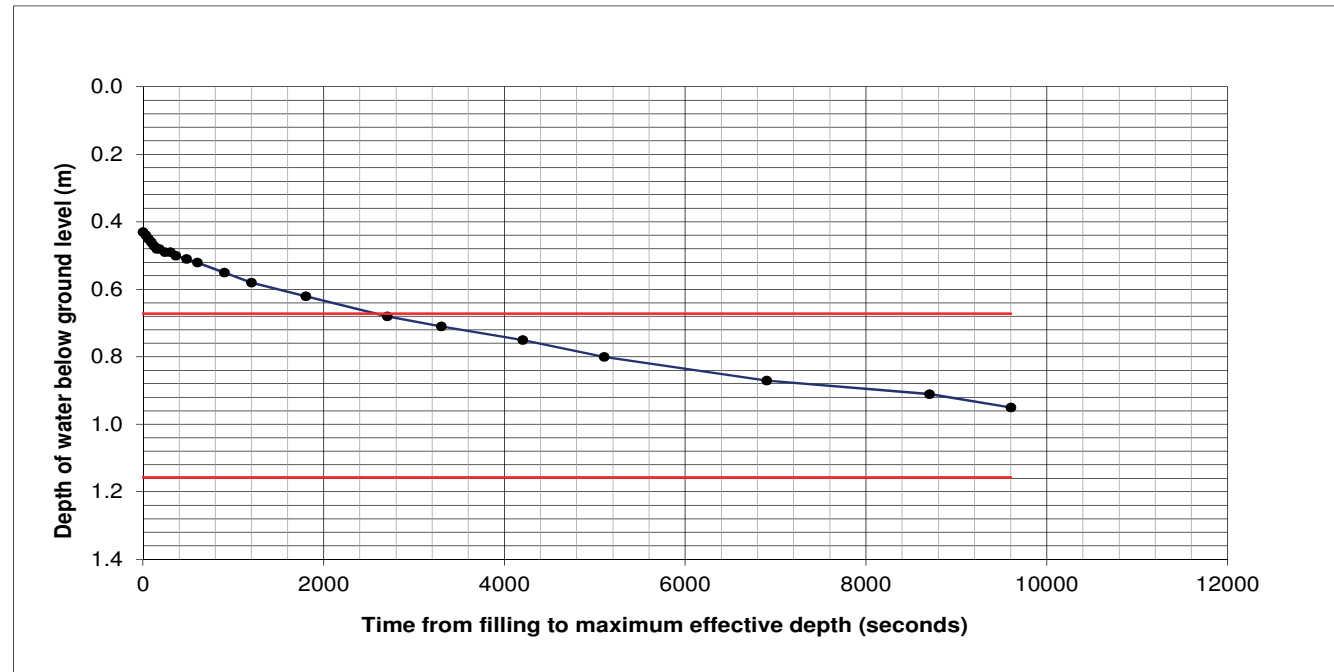
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PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	5

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST5
0	0.00	0.430	TEST No.: 1
30	0.50	0.440	DATE: 06/10/2017
60	1.00	0.450	INPUT PARAMETERS:
90	1.50	0.460	Effective depth of Pit (m) 0.97
120	2.00	0.470	Depth of Pit (m) 1.40
150	2.50	0.480	Length of Pit (m) 2.05
180	3.00	0.480	Width of Pit (m) 0.55
240	4.00	0.490	Total volume of pit (m ³) 1.09
300	5.00	0.490	Total volume of Water (m ³) 1.09
360	6.00	0.500	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.24
480	8.00	0.510	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.73
600	10.00	0.520	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 3.650
900	15.00	0.550	Time at 75% effective depth (p ₇₅) (s) 2600
1200	20.00	0.580	Time at 25% effective depth (p ₂₅) (s) 13400
1800	30.00	0.620	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.55
2700	45.00	0.680	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 10800
3300	55.00	0.710	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 1.39E-05
4200	70.00	0.750	WATER INPUT: in
5100	85.00	0.800	GEOLOGY OF TEST SECTION:
6900	115.00	0.870	White Chalk recovered as moderately dense clasts (fine to coarse gravel). With occasional fine to coarse nodular flint gravels.
8700	145.00	0.910	Compiled by: DG
9600	160.00	0.950	Checked by: CCol
Too many points to display			

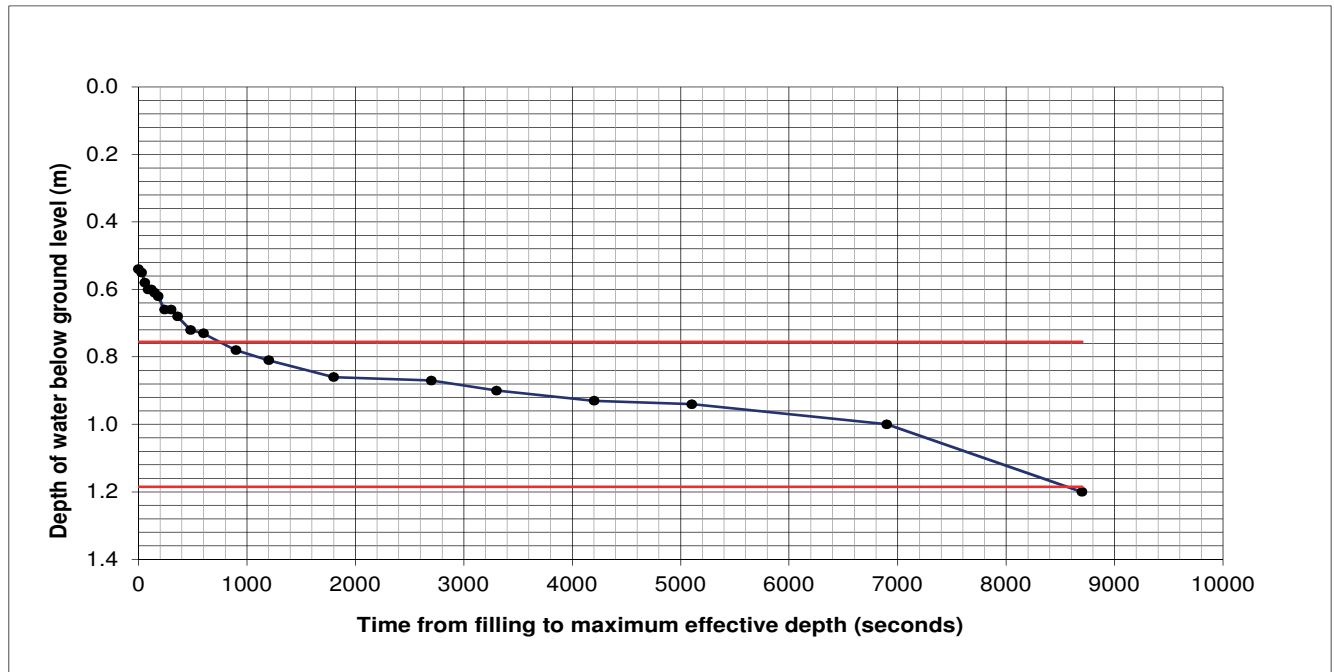
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PROJECT No.:	A090070-171
PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	6

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST6
			TEST No.: 1
			DATE: 06/10/2017
0	0.00	0.540	INPUT PARAMETERS:
30	0.50	0.550	Effective depth of Pit (m) 0.86
60	1.00	0.580	Depth of Pit (m) 1.40
90	1.50	0.600	Length of Pit (m) 2.10
120	2.00	0.600	Width of Pit (m) 0.65
150	2.50	0.610	Total volume of pit (m ³) 1.17
180	3.00	0.620	Total volume of Water (m ³) 1.17
240	4.00	0.660	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.22
300	5.00	0.660	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.65
360	6.00	0.680	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 3.730
480	8.00	0.720	Time at 75% effective depth (p ₇₅) (s) 800
600	10.00	0.730	Time at 25% effective depth (p ₂₅) (s) 8600
900	15.00	0.780	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.59
1200	20.00	0.810	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 7800
1800	30.00	0.860	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 2.02E-05
2700	45.00	0.870	WATER INPUT: Approx 1500 litres in 25mins
3300	55.00	0.900	GEOLOGY OF TEST SECTION:
4200	70.00	0.930	White Chalk recovered as moderately dense clasts (fine to coarse gravel). With occasional fine to coarse nodular flint gravels.
5100	85.00	0.940	Compiled by: DG
6900	115.00	1.000	Checked by: Ccol
8700	145.00	1.200	
Too many points to display			

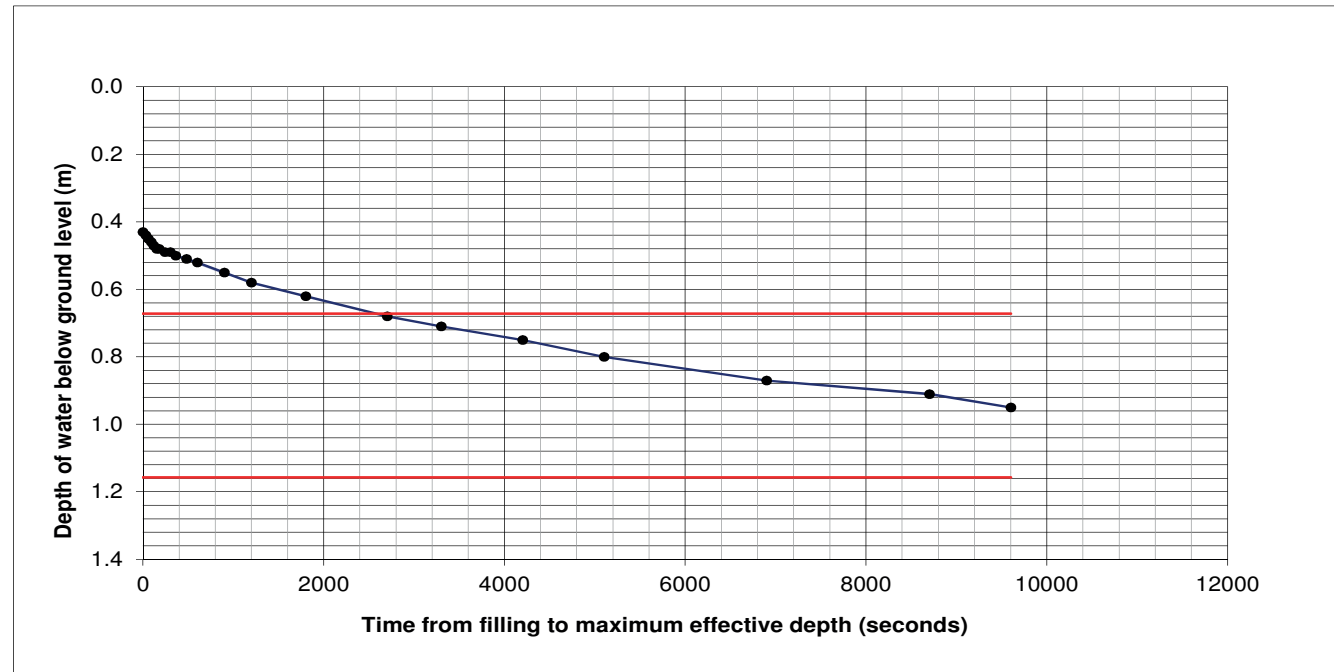
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PROJECT NAME:	Baldock (BA1)
CLIENT:	Hertfordshire CC
FIGURE No.:	5

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST5
0	0.00	0.430	TEST No.: 1
30	0.50	0.440	DATE: 06/10/2017
60	1.00	0.450	INPUT PARAMETERS:
90	1.50	0.460	Effective depth of Pit (m) 0.97
120	2.00	0.470	Depth of Pit (m) 1.40
150	2.50	0.480	Length of Pit (m) 2.05
180	3.00	0.480	Width of Pit (m) 0.55
240	4.00	0.490	Total volume of pit (m ³) 1.09
300	5.00	0.490	Total volume of Water (m ³) 1.09
360	6.00	0.500	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.24
480	8.00	0.510	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.73
600	10.00	0.520	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 3.650
900	15.00	0.550	Time at 75% effective depth (p ₇₅) (s) 2600
1200	20.00	0.580	Time at 25% effective depth (p ₂₅) (s) 13400
1800	30.00	0.620	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.55
2700	45.00	0.680	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 10800
3300	55.00	0.710	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 1.39E-05
4200	70.00	0.750	WATER INPUT: in
5100	85.00	0.800	GEOLOGY OF TEST SECTION:
6900	115.00	0.870	White Chalk recovered as moderately dense clasts (fine to coarse gravel). With occasional fine to coarse nodular flint gravels.
8700	145.00	0.910	Compiled by: DG
9600	160.00	0.950	Checked by: CCol
Too many points to display			

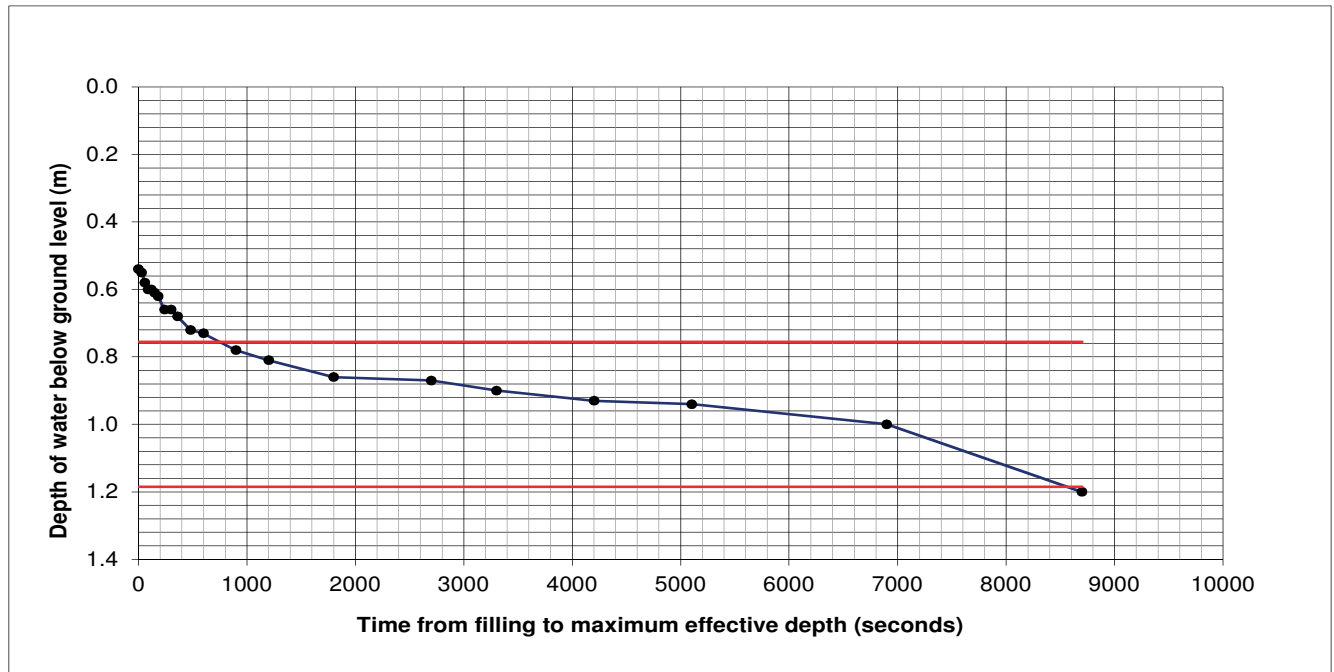
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CLIENT:	Hertfordshire CC
FIGURE No.:	6

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Depth of water below ground level (m)	TRIALPIT No.: ST6
0	0.00	0.540	TEST No.: 1
30	0.50	0.550	DATE: 06/10/2017
60	1.00	0.580	INPUT PARAMETERS:
90	1.50	0.600	Effective depth of Pit (m) 0.86
120	2.00	0.600	Depth of Pit (m) 1.40
150	2.50	0.610	Length of Pit (m) 2.10
180	3.00	0.620	Width of Pit (m) 0.65
240	4.00	0.660	Total volume of pit (m ³) 1.17
300	5.00	0.660	Total volume of Water (m ³) 1.17
360	6.00	0.680	Level of water in pit at 75% effective depth (p ₇₅) (m) 0.22
480	8.00	0.720	Level of water in pit at 25% effective depth (p ₂₅) (m) 0.65
600	10.00	0.730	Surface area of pit up to 50% effective depth (A _{p50}) (m ²) 3.730
900	15.00	0.780	Time at 75% effective depth (p ₇₅) (s) 800
1200	20.00	0.810	Time at 25% effective depth (p ₂₅) (s) 8600
1800	30.00	0.860	Volume of outflow between 75% and 25% effective depth (V _{p75 - 25}) (m ³) 0.59
2700	45.00	0.870	Time taken for the outflow between 75% and 25% effective depth (T _{p75-25}) (s) 7800
3300	55.00	0.900	SOIL INFILTRATION RATE (f) $\frac{V_{p75-25}}{A_{p50} \times T_{p75-25}}$ (m/s) 2.02E-05
4200	70.00	0.930	WATER INPUT: Approx 1500 litres in 25mins
5100	85.00	0.940	GEOLOGY OF TEST SECTION:
6900	115.00	1.000	White Chalk recovered as moderately dense clasts (fine to coarse gravel). With occasional fine to coarse nodular flint gravels.
8700	145.00	1.200	Compiled by: DG
			Checked by: Ccol

Too many points to display

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Recommended soil infiltration rate

1.78E-05

m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only

Depth (final reading)	units	Fill 1	Fill 2	Fill 3
Pit depth	m	1.02		
Pit length	m		1.30	
Pit width	m		1.75	
Depth to first reading	m		0.55	
Maximum effective depth	m		0.47	
Depth at 75% full	m		0.66	
Depth at 25% full	m		0.90	
Time at 75% full	mins		12.81	
Time at 25% full	mins		87.71	
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3		0.206	
Mean surface area for outflow (50% effective depth)	m2		2.57	
Time for outflow	mins		74.90	
Soil infiltration rate, f =			0.0000178090	
or			1.78E-05	

LOG

BACKFILL

DEPTH (m)

DEPTH (m)

0.0

0.0

0.3

1.3

1.3

0.0

0.0

0.3

1.3

1.3

Scrub over TOPSOIL

0.0

0.0

0.3

1.3

1.3

Weak to moderately strong white CHALK

0.3

1.3

1.3

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

PROJECT NAME

Baldock

CLIENT

Urban and Civic

DATE

Nov-23

PROJECT NUMBER

2899.00

SOAKAWAY NUM/FILL NUMBER

TP-010

1

Depth (final reading)	units	Fill 1	Fill 2	Fill 3
Pit depth	m	0.95		
Pit length	m		1.60	
Pit width	m		1.60	
Depth to first reading	m		0.50	
Maximum effective depth	m		0.54	
Depth at 75% full	m		0.41	
Depth at 25% full	m		0.64	
Time at 75% full	mins		0.85	
Time at 25% full	mins		8.73	
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3		57.52	
Mean surface area for outflow (50% effective depth)	m2		0.164	
Time for outflow	mins		3.03	
Soil infiltration rate, f =			48.79	
or			0.0000185198	
			1.85E-05	

LOG

BACKFILL

DEPTH (m)

DEPTH (m)

0.0

0.0

0.5

1.6

1.6

0.0

0.0

0.5

1.6

1.6

Scrub over TOPSOIL

0.0

0.0

0.5

1.6

1.6

Weak to moderately strong white CHALK

0.5

1.6

1.6

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

PROJECT NAME

Baldock

CLIENT

Urban and Civic

DATE

Nov-23

PROJECT NUMBER

2899.00

SOAKAWAY NUM/FILL NUMBER

TP-022

1

Depth (final reading)	units	Fill 1	Fill 2	Fill 3
Pit depth	m	0.95		
Pit length	m		1.60	
Pit width	m		1.60	
Depth to first reading	m		0.50	
Maximum effective depth	m		0.54	
Depth at 75% full	m		0.41	
Depth at 25% full	m		0.64	
Time at 75% full	mins		0.85	
Time at 25% full	mins		8.73	
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3		57.52	
Mean surface area for outflow (50% effective depth)	m2		0.164	
Time for outflow	mins		3.03	
Soil infiltration rate, f =			48.79	
or			0.0000185198	
			1.85E-05	

LOG

BACKFILL

DEPTH (m)

DEPTH (m)

0.0

0.0

0.5

1.6

1.6

0.0

0.0

0.5

1.6

1.6

Scrub over TOPSOIL

0.0

0.0

0.5

1.6

1.6

Weak to moderately strong white CHALK

0.5

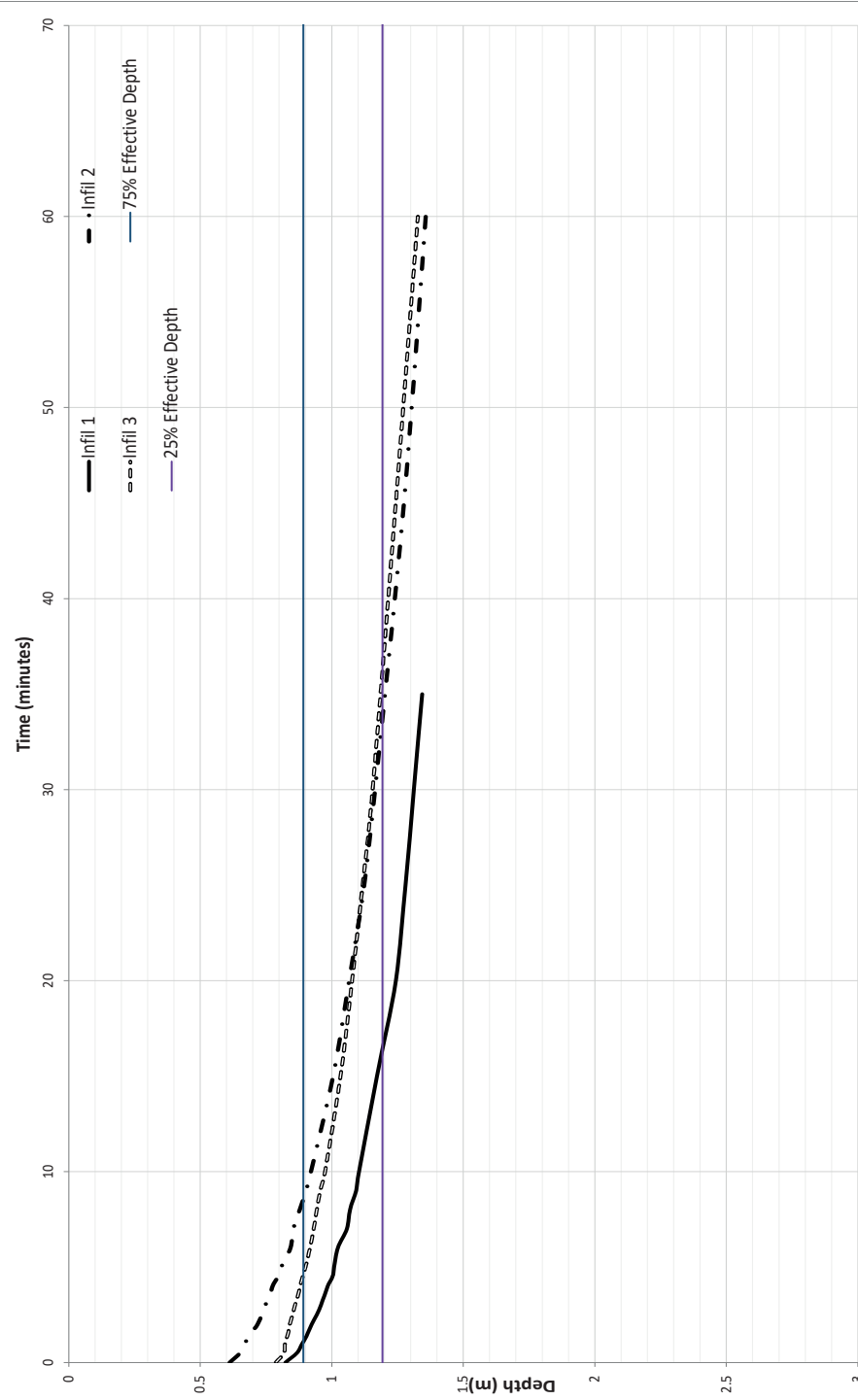
1.6

1.6

Recommended soil infiltration rate	
5.85E-05	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 3 - Soil infiltration rate based on effective drainage only



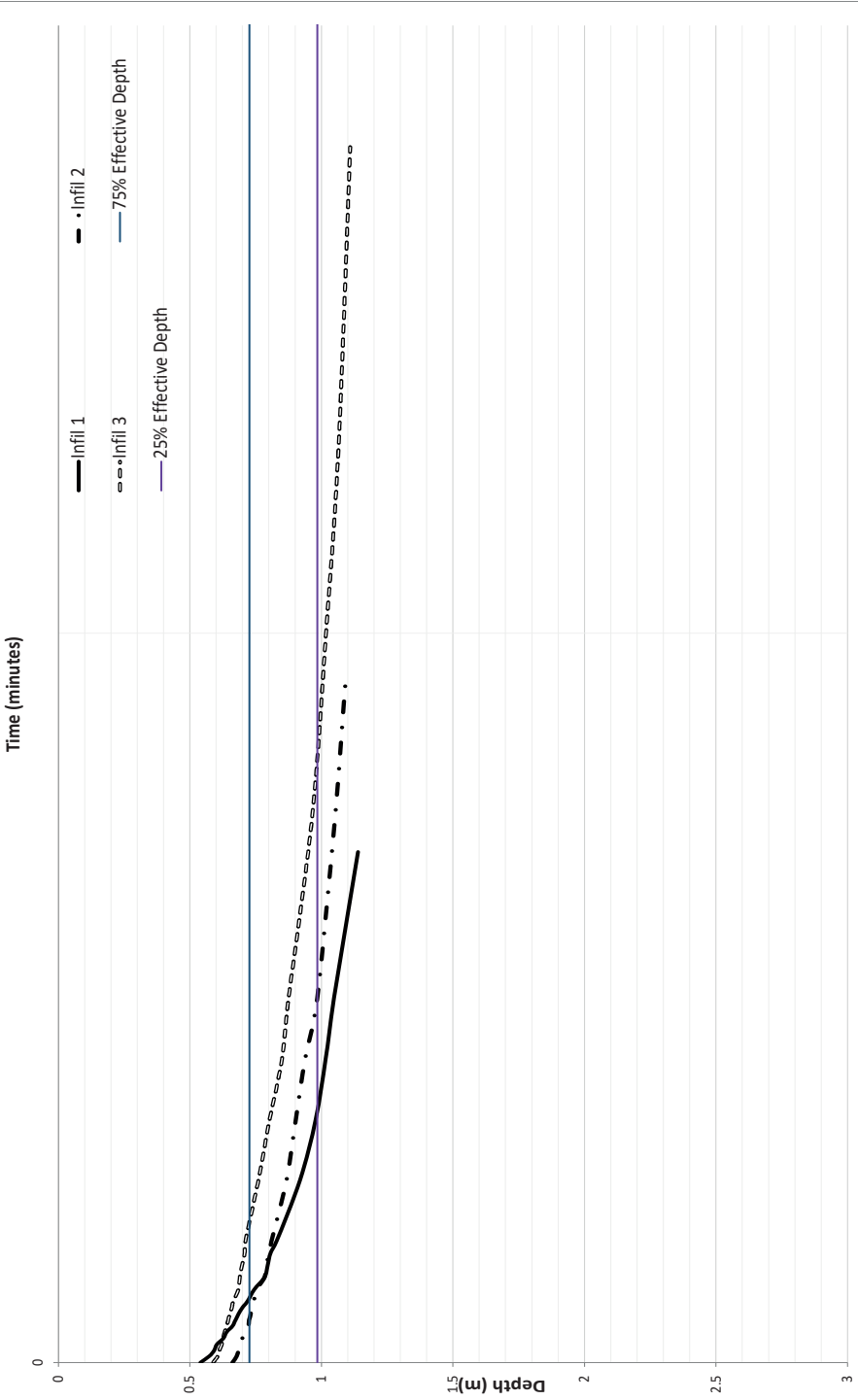
LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Crop stuble over soft brown TOPSOIL	0.0	Arisings	0.0
Soft light brown CLAY	0.3		
Weak white CHALK	0.5		
	1.4		1.4

SOAKAWAY TEST RESULTS		DATE	PROJECT NUMBER
In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		Nov-23	2899.00
		TP-031	SOAKAWAY NUM/FILL NUMBER
			1-3

Recommended soil infiltration rate	
4.27E-05	m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 3 - Soil infiltration rate based on effective drainage only

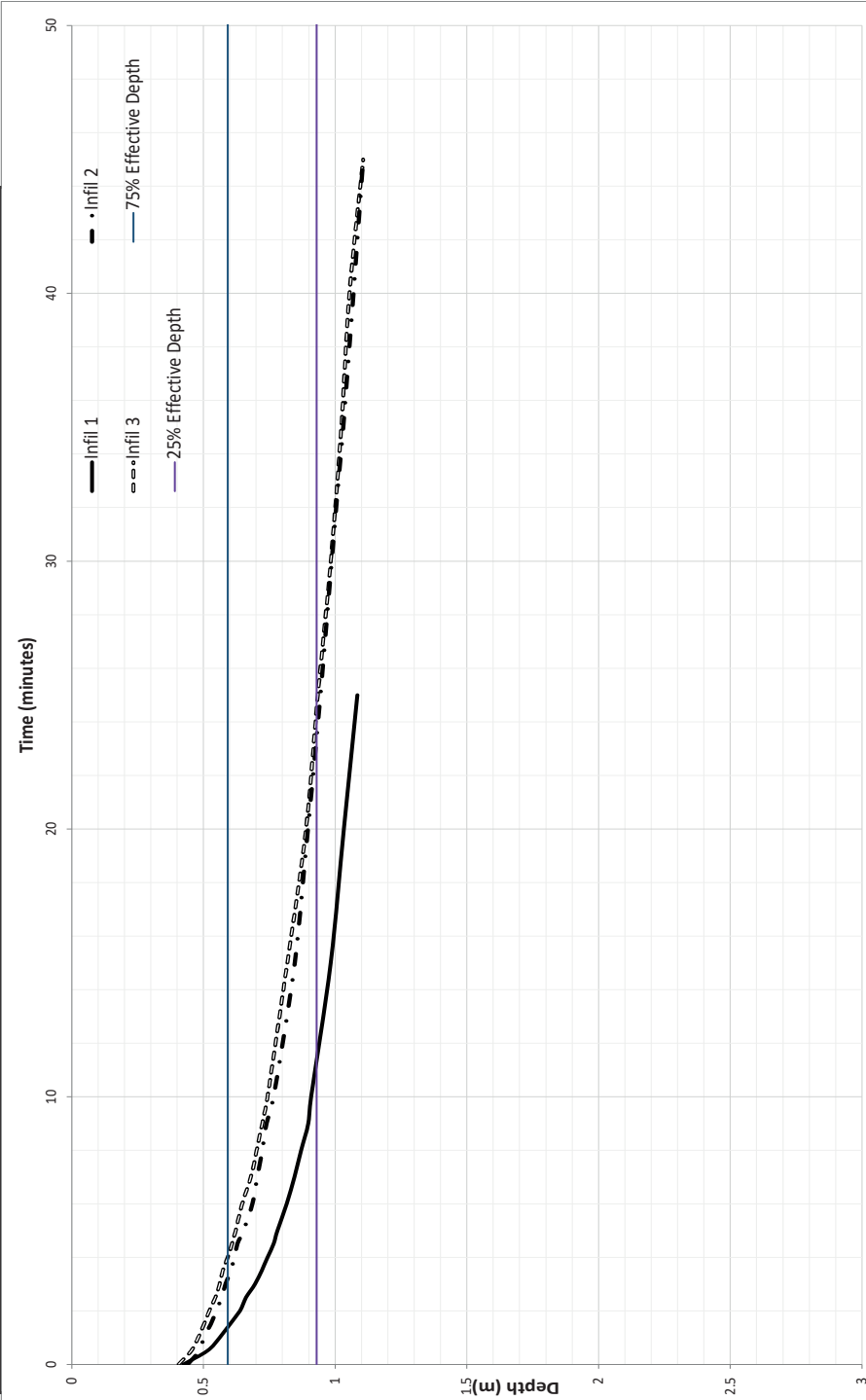


LOG	DEPTH (m)	BACKFILL	DEPTH (m)
Crop stuble over TOPSOIL	0.0	Arisings	0.0
Weak to moderately strong CHALK	0.4		
	1.2		1.2

SOAKAWAY TEST RESULTS		DATE	PROJECT NUMBER
In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		Nov-23	2899.00
		TP-039	SOAKAWAY NUM/FILL NUMBER
			1-3

Recommended soil infiltration rate	
9.98E-05	m/s

Depth (final reading)	units	Fill 1	Fill 2	Fill 3
Pit depth	m	1.08	1.11	1.11
Pit length	m	1.30		
Pit width	m	1.80		
Depth to first reading	m	0.50		
Maximum effective depth	m	0.42	0.44	0.41
Depth at 75% full	m	0.66	0.67	0.70
Depth at 25% full	m	0.59	0.61	0.58
Time at 75% full	mins	0.92	0.94	0.93
Time at 25% full	mins	2.09	5.09	5.27
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	mins	24.68	42.16	42.14
Mean surface area for outflow (50% effective depth)	m3	0.395	0.387	0.403
Time for outflow	m2	2.92	2.88	2.96
Soil infiltration rate, f =	mins	22.59	37.07	36.87
or		0.0000998019	0.0000604506	0.0000615384
		9.98E-05	6.05E-05	6.15E-05



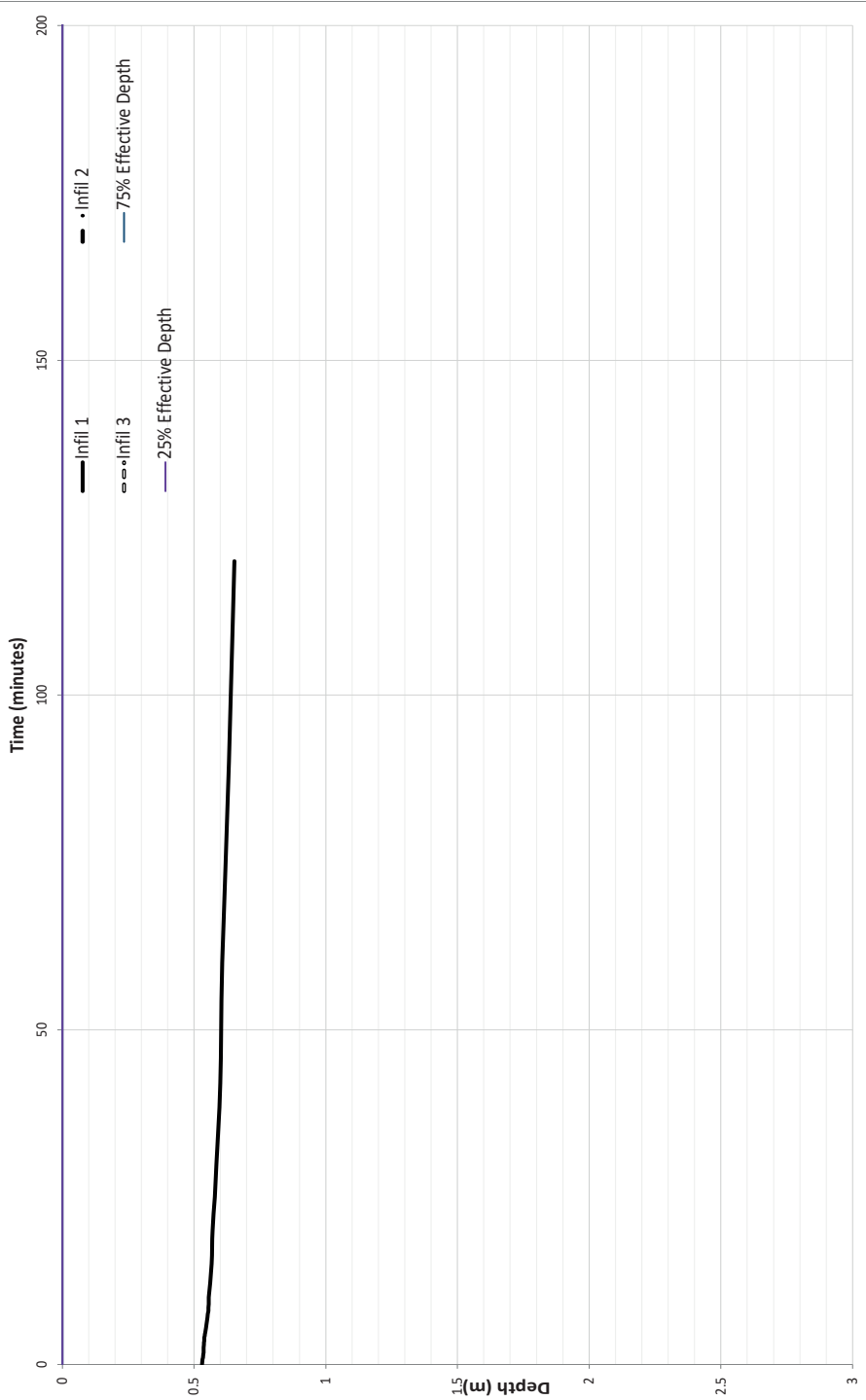
LOG		BACKFILL	
DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
0.0	0.0	0.0	0.0
0.4	0.4	0.4	0.4
1.3	1.3	1.3	1.3
Scrub over TOPSOIL		Anisings	
Weak to moderately strong white CHALK			

PROJECT NAME	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
DATE	Nov-23	PROJECT NUMBER	2899.00	
CLIENT	Urban and Civic	SOAKAWAY NUM/FILL NUMBER	TP-045	1-3

Recommended soil infiltration rate	
5.22E-06	m/s

NOTE:
Water level did not fall to below the 25% full level within 24 hrs for fills 1 and 3 - Soil infiltration rate based on effective drainage only

Depth (final reading)	units	Fill 1	Fill 2	Fill 3
Pit depth	m	0.65	1.30	
Pit length	m	1.75		
Pit width	m	0.50		
Depth to first reading	m	0.53		
Maximum effective depth	m	0.12		
Depth at 75% full	m	0.56		
Depth at 25% full	m	0.62		
Time at 75% full	mins	12.38		
Time at 25% full	mins	78.30		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.054		
Mean surface area for outflow (50% effective depth)	m2	2.61		
Time for outflow	mins	65.92		
Soil infiltration rate, f =		0.000052174		
or		5.22E-06		



LOG		BACKFILL	
DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
0.0	0.0	0.0	0.0
0.4	0.4	0.4	0.4
1.3	1.3	1.3	1.3
Scrub over TOPSOIL		Anisings	
Weak to moderately strong white CHALK			

PROJECT NAME	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
DATE	Nov-23	PROJECT NUMBER	2899.00	
CLIENT	Urban and Civic	SOAKAWAY NUM/FILL NUMBER	TP-048	1

Recommended soil infiltration rate	
8.41E-06	m/s

NOTE:
Water level did not fall to below the
for fills 1 and 3 - Soil infiltration rate
only

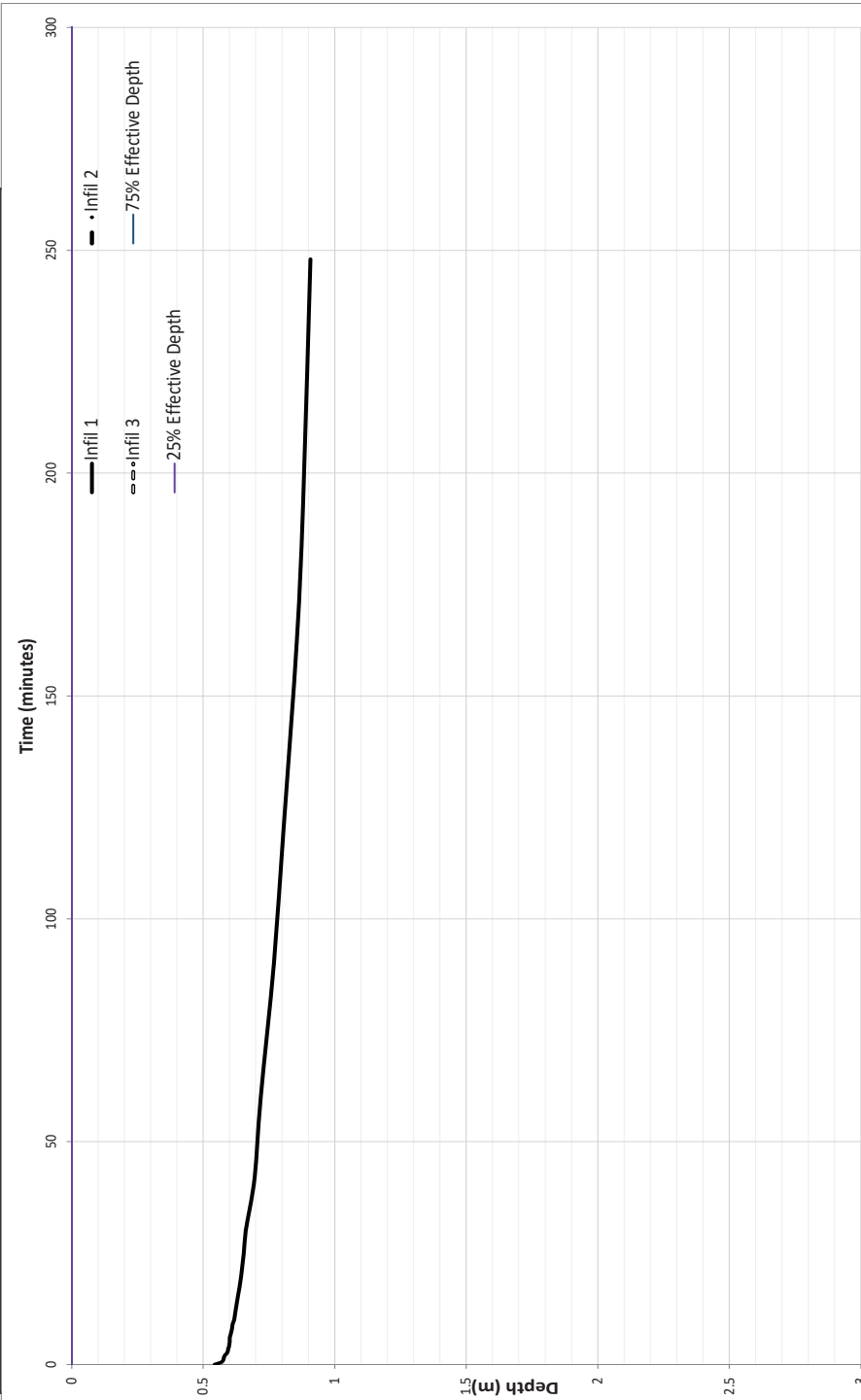


Figure 1 is a stratigraphic log showing the upper 1.4 m of the study area. The log is divided into two main sections: 'LOG' on the left and 'BACKFILL' on the right. The 'LOG' section shows 'Crop stubble over TOPSOIL' from 0.0 to 0.4 m depth and 'Weak brown CHALK' from 0.4 to 1.4 m depth. The 'BACKFILL' section shows '0.01 m' at the top, followed by a hatched area from 0.01 to 1.4 m depth, and '1.4' at the bottom. The depth scale is in meters (m) and ranges from 0.0 to 1.4.

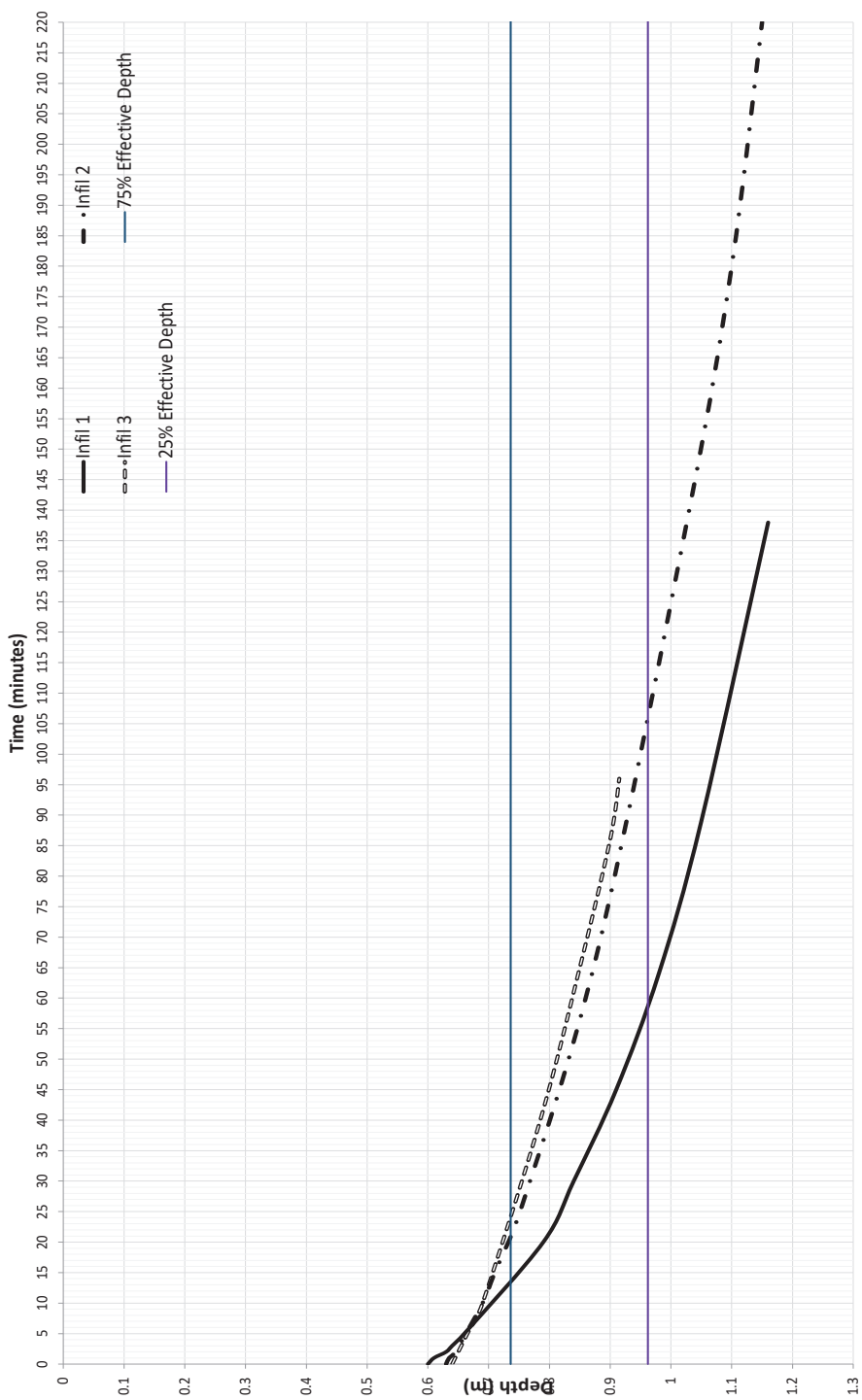
PROJECT NAME		SOAKAWAY TEST RESULTS		DATE	PROJECT NUMBER
Baldock				Nov-23	2899.00
CLIENT				SOAKAWAY NUM	FILL NUMBER
Urban and Civic				TP-055	1

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

Recommended soil infiltration rate	
1.43E-05	m/s

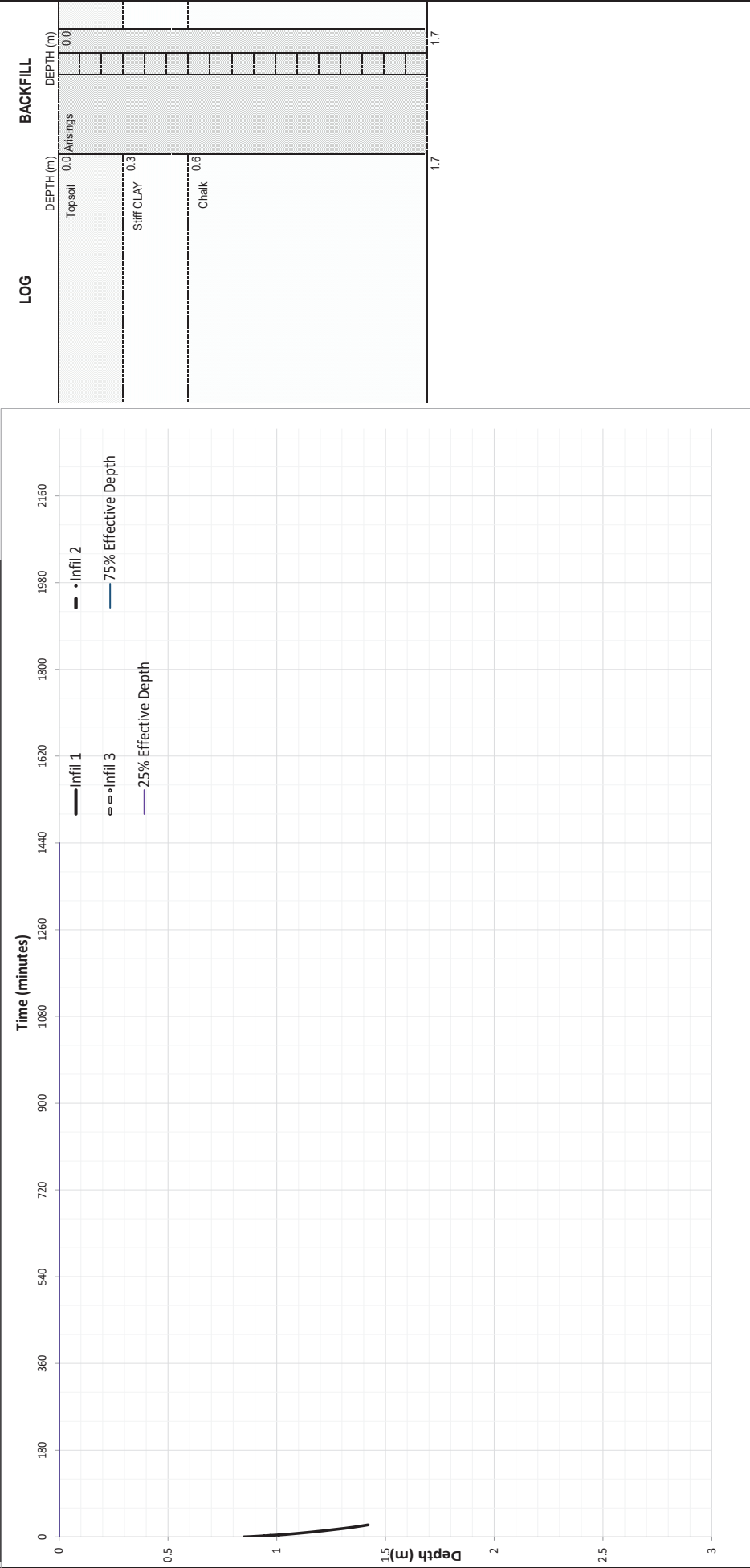
NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fill 3 - Soil infiltration rate based on effective drainage only

[illegible]

 SHADBOLT ENVIRONMENTAL	PROJECT NAME		SOAKAWAY TEST RESULTS <i>In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)</i>	DATE	PROJECT NUMBER
	Baldock North			May-24	2899.00
	CLIENT			SOAKAWAY NUM/FILL NUMBER	
	Urban and Civic			TP-068	1-3

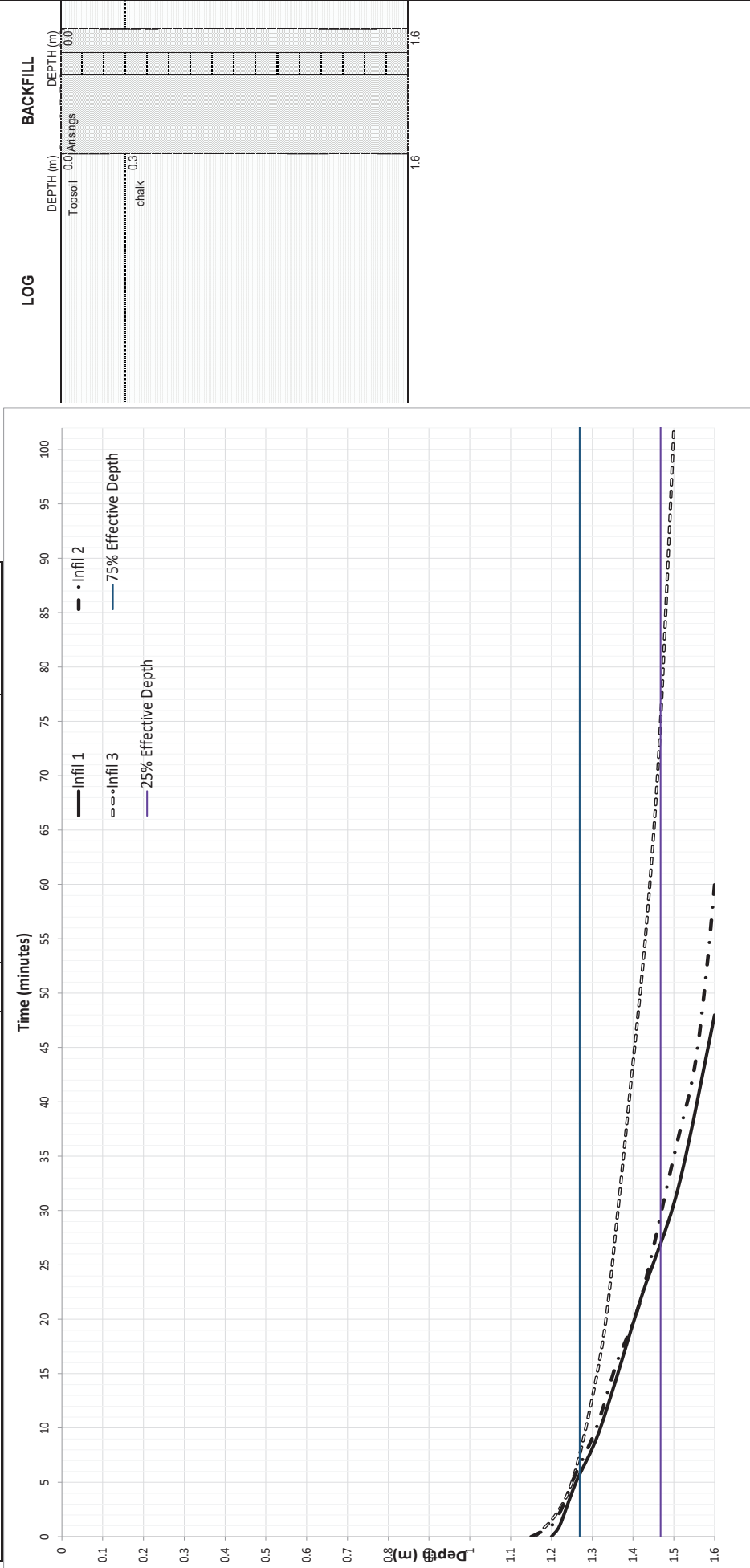
Recommended soil infiltration rate	
1.42E-04	m/s
NOTE: Water level did not fall to below the 25% full level within 24 hrs for fills 1, 2 and 3 - Soil infiltration rate based on effective drainage only	



PROJECT NAME Baldock U&C	SOAKAWAY TEST RESULTS		
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		
	DATE Nov-23	PROJECT NUMBER 2899.00	
	SOAKAWAY NUM TP-094	FILL NUMBER 1	

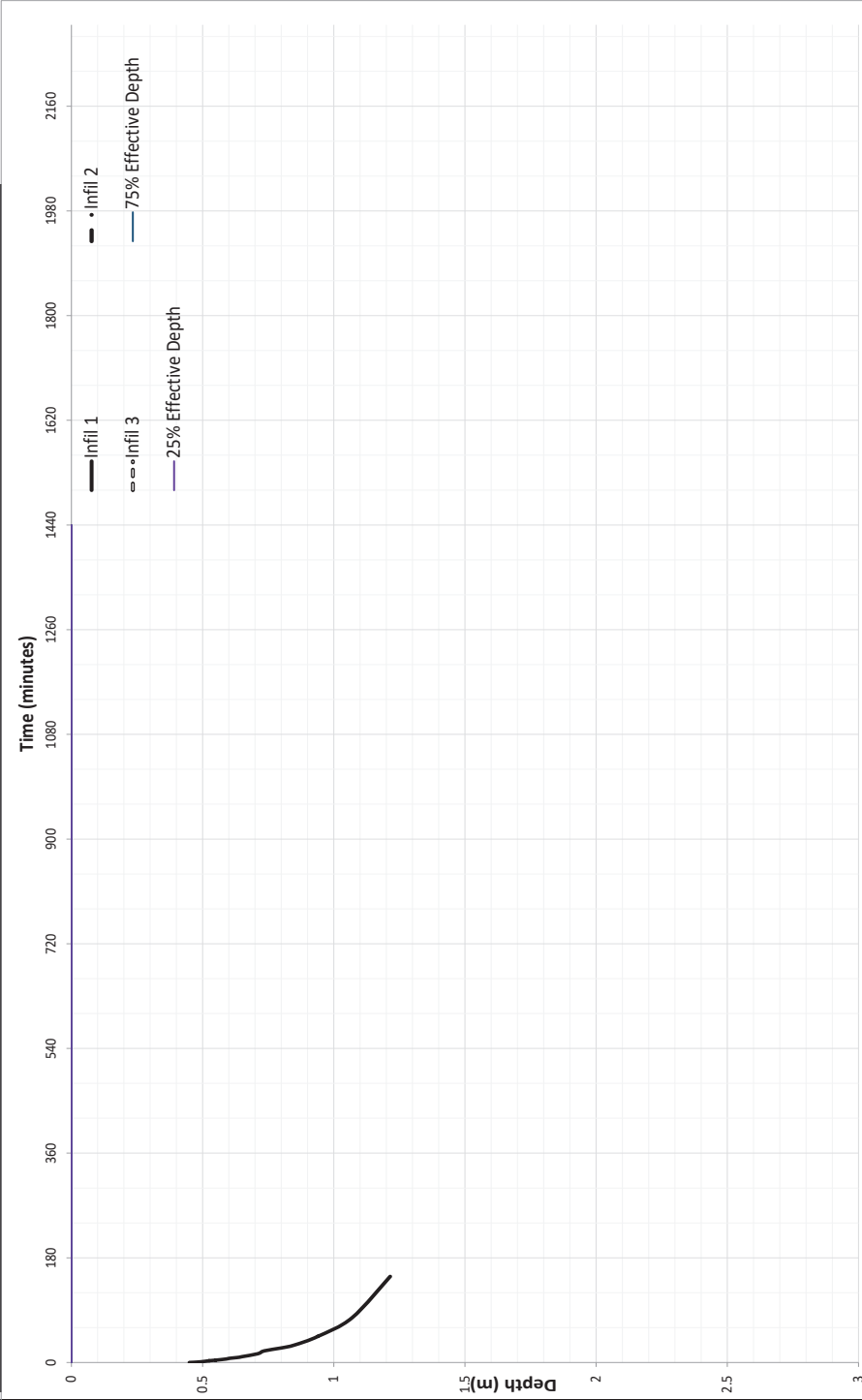
Recommended soil infiltration rate	
2.27E-05	m/s

Depth (final reading)		Fill 1	Fill 2	Fill 3
Pit depth		1.60	1.60	1.50
Pit length		1.60	1.60	1.50
Pit width		1.70	1.70	1.50
Depth to first reading		1.20	1.15	1.16
Maximum effective depth		0.40	0.45	0.34
Depth at 75% full		1.30	1.26	1.25
Depth at 25% full		1.50	1.49	1.42
Time at 75% full		8.33	6.04	8.00
Time at 25% full		30.89	32.97	93.50
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)		m3	0.238	0.262
Mean surface area for outflow (50% effective depth)		m2	2.15	2.27
Time for outflow		mins	22.56	26.93
Soil infiltration rate, f =			0.0000817963	0.0000730068
or			8.18E-05	7.30E-05
			0.0000227218	0.0000227218
			2.27E-05	2.27E-05



PROJECT NAME Baldock North Urban and Civic	SOAKAWAY TEST RESULTS		
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)		
	DATE May-24	PROJECT NUMBER 2899.00	
	SOAKAWAY NUM TP-105	FILL NUMBER 1-3	

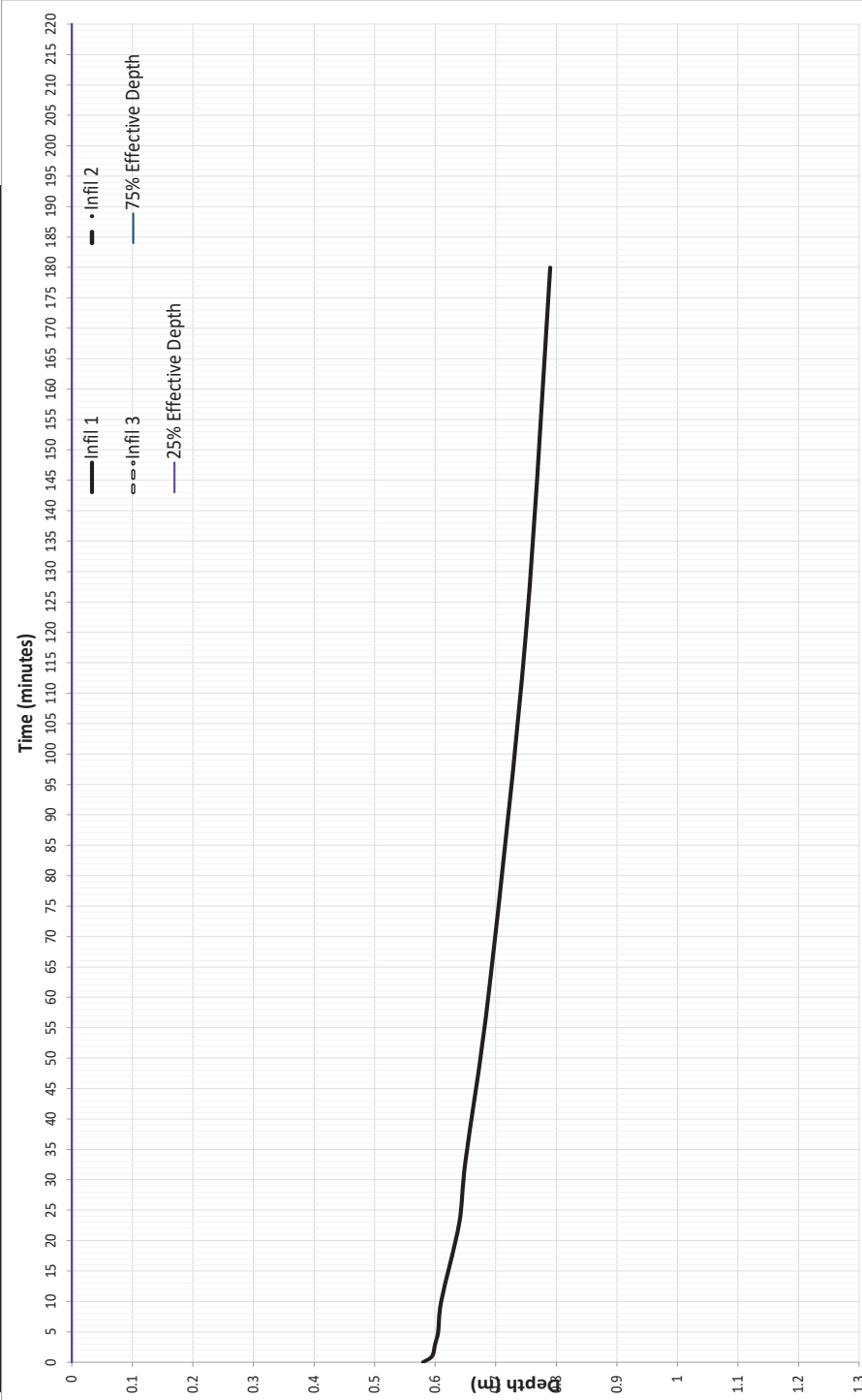
Recommended soil infiltration rate	
2.84E-05	m/s
NOTE: Water level did not fall to below the 25% full level within 24 hrs for fills 1, 2 and 3 - Soil infiltration rate based on effective drainage only	



LOG		BACKFILL	
DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
Topsoil 0.0	Arisings 0.0		
	Stiff CLAY 0.3		
	Chalk 0.6		

PROJECT NAME Baldock U&C	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
	DATE Nov-23	PROJECT NUMBER 2899.00	SOAKAWAY NUM FILL NUMBER	
	TP-127		1	

Recommended soil infiltration rate	
8.17E-06	m/s
NOTE: Water level did not fall to below the 25% full level within 24 hrs for fill 1 - Soil infiltration rate based on effective drainage only	

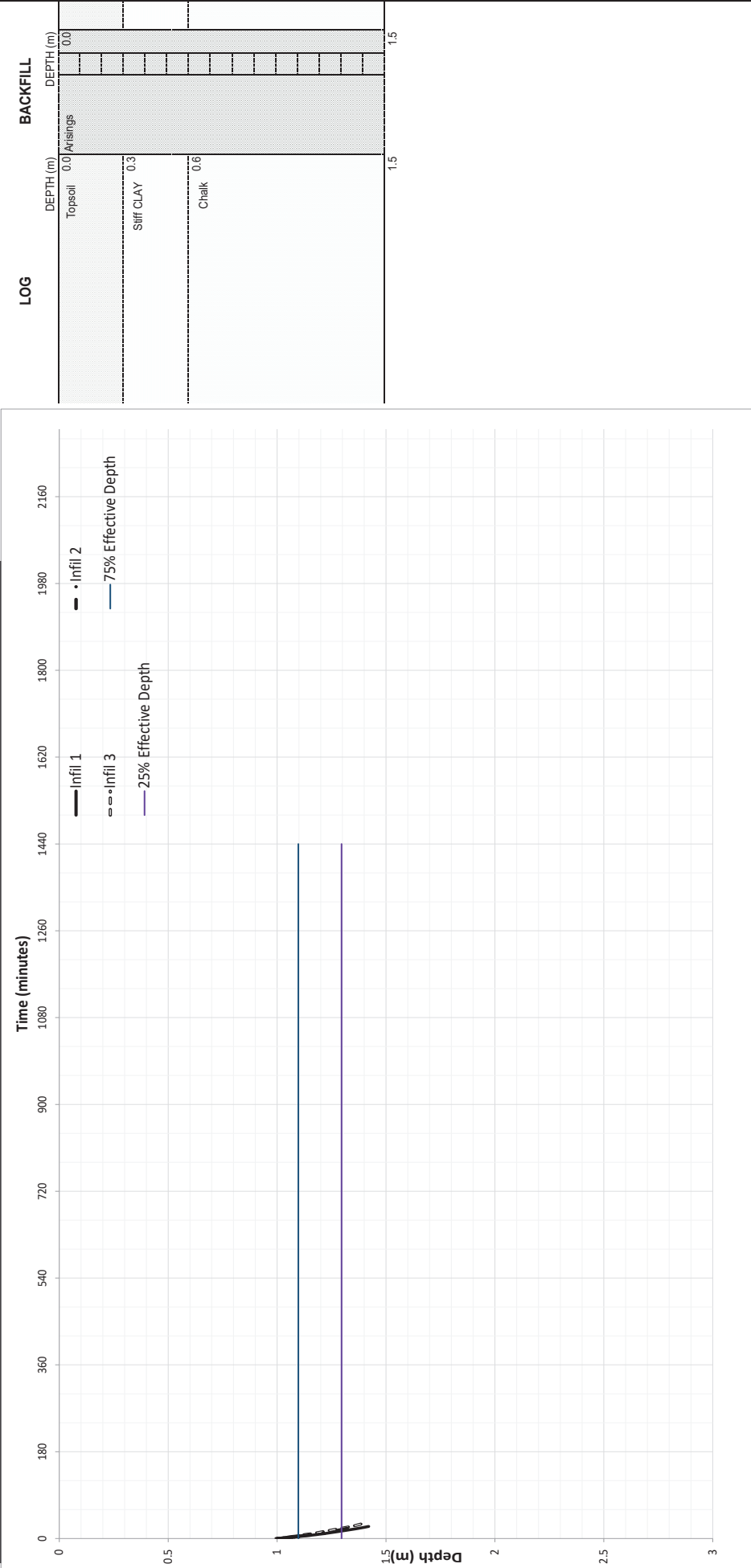


LOG		BACKFILL	
DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
Topsoil 0.0	Arisings 0.0		
	SAND 0.2		
	CHALK 0.5		

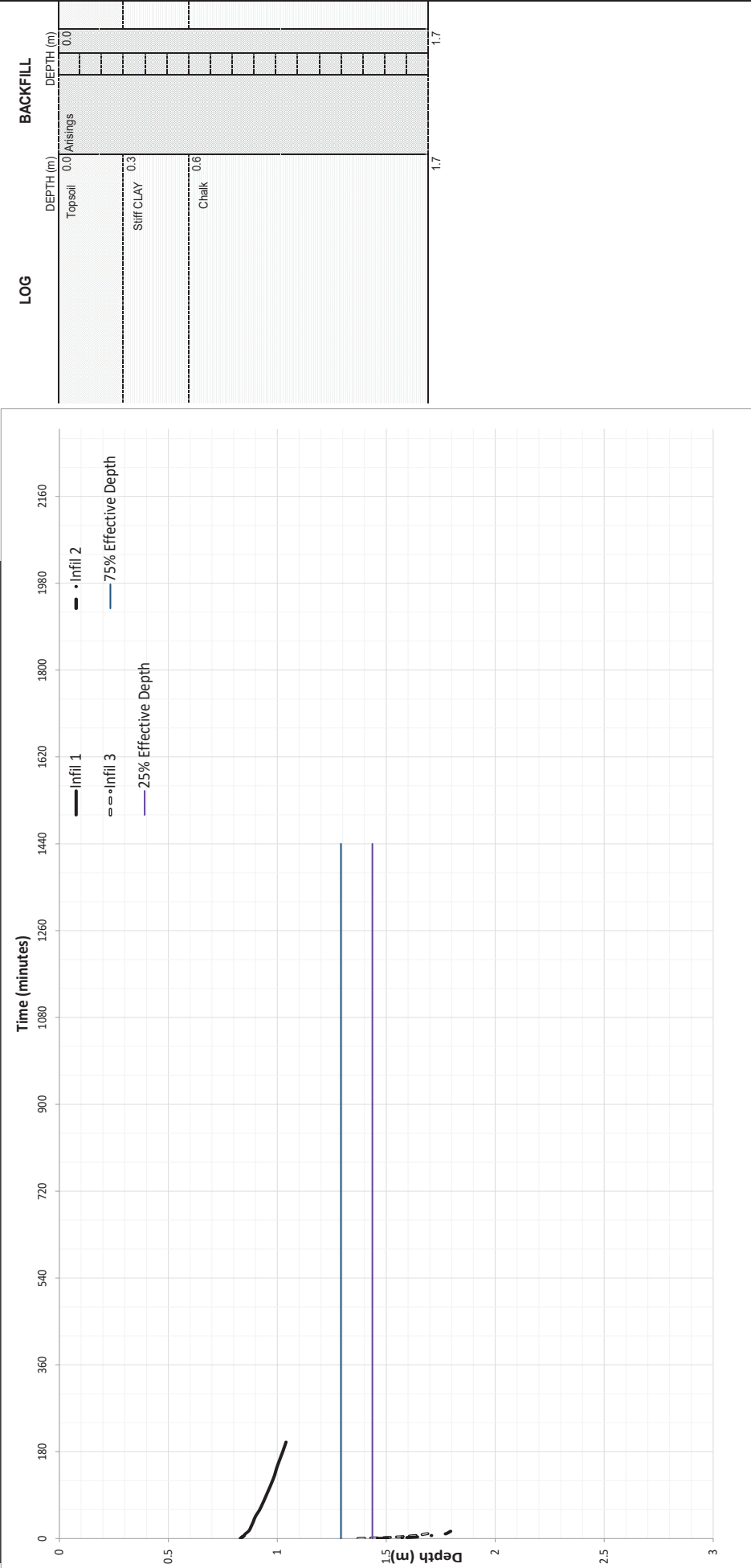
PROJECT NAME Baldock North Urban and Civic	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
	DATE May-24	PROJECT NUMBER 2899.00	SOAKAWAY NUM FILL NUMBER	
	TP-131		1	

Recommended soil infiltration rate			
1.12E-04		m/s	
NOTE: Water level did not fall to below the 25% full level within 24 hrs for fills 2 and 3 - Soil infiltration rate based on effective drainage only			

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.42	1.38	1.39
Pit depth	m	1.50		
Pit length	m	1.60		
Pit width	m	0.50		
Depth to first reading	m	1.00	1.00	1.00
Maximum effective depth	m	0.42	0.38	0.39
Depth at 75% full	m	1.11	1.10	1.09
Depth at 25% full	m	1.32	1.29	1.29
Time at 75% full	mins	5.20	4.50	5.50
Time at 25% full	mins	21.25	17.73	20.63
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.200	0.152	0.156
Mean surface area for outflow (50% effective depth)	m2	1.85	1.85	1.86
Time for outflow	mins	16.05	13.23	15.13
Soil infiltration rate, f =		0.0001122618	0.0001035262	0.0000923950
or		1.12E-04	1.04E-04	9.24E-05



PROJECT NAME	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
	U&C			

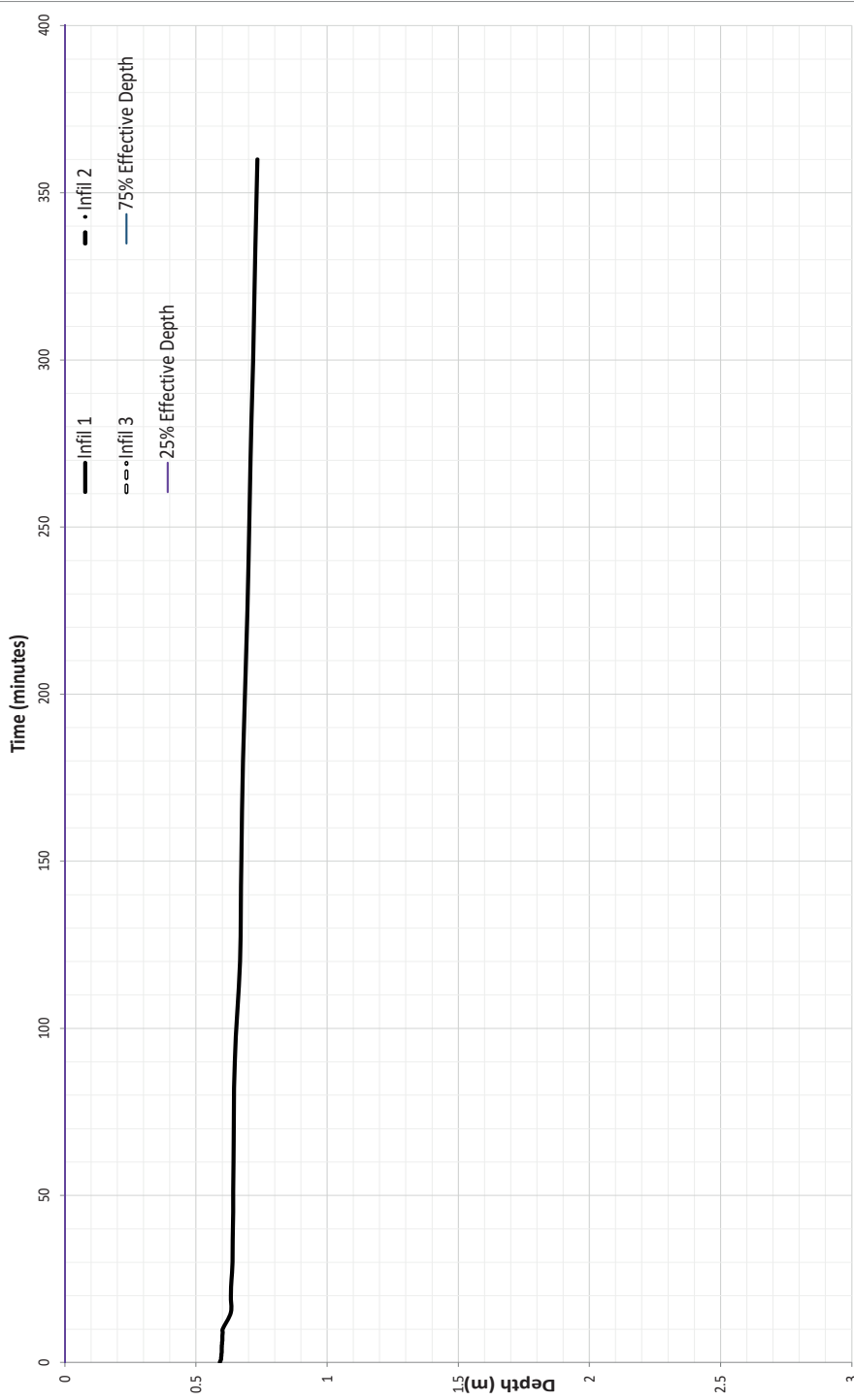


PROJECT NAME	SOAKAWAY TEST RESULTS			
	In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)			
	U&C			

DATE		PROJECT NUMBER	
Nov-23		2899.00	
SOAKAWAY NUM		FILL NUMBER	
TP-149		1-3	

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	0.73		
Pit depth	m		1.05	
Pit length	m		0.80	
Pit width	m		1.70	
Depth to first reading	m	0.59		
Maximum effective depth	m	0.14		
Depth at 75% full	m	0.63		
Depth at 25% full	m	0.70		
Time at 75% full	mins	13.99		
Time at 25% full	mins	231.75		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m ³	0.097		
Mean surface area for outflow (50% effective depth)	m ²	2.51		
Time for outflow	mins	217.76		
Soil infiltration rate, f =		0.0000029651		
or		2.97E-06		

Water level did not fall to below the 25% full level within 24 hrs for fill 1 - Soil infiltration rate based on effective drainage only



LOG		BACKFILL	
DEPTH (m)	Topsoil	DEPTH (m)	Arisings
0.0		0.0	
	Reddish brown silty al. gravelly fine SAND		
0.3			
	Weak cream mottled white CHALK		
0.4			

Recommended soil infiltration rate	
2.97E-06	m/s

PROJECT NAME
Baldock North
CLIENT
Urban and Civic



SOAKAWAY TEST RESULTS

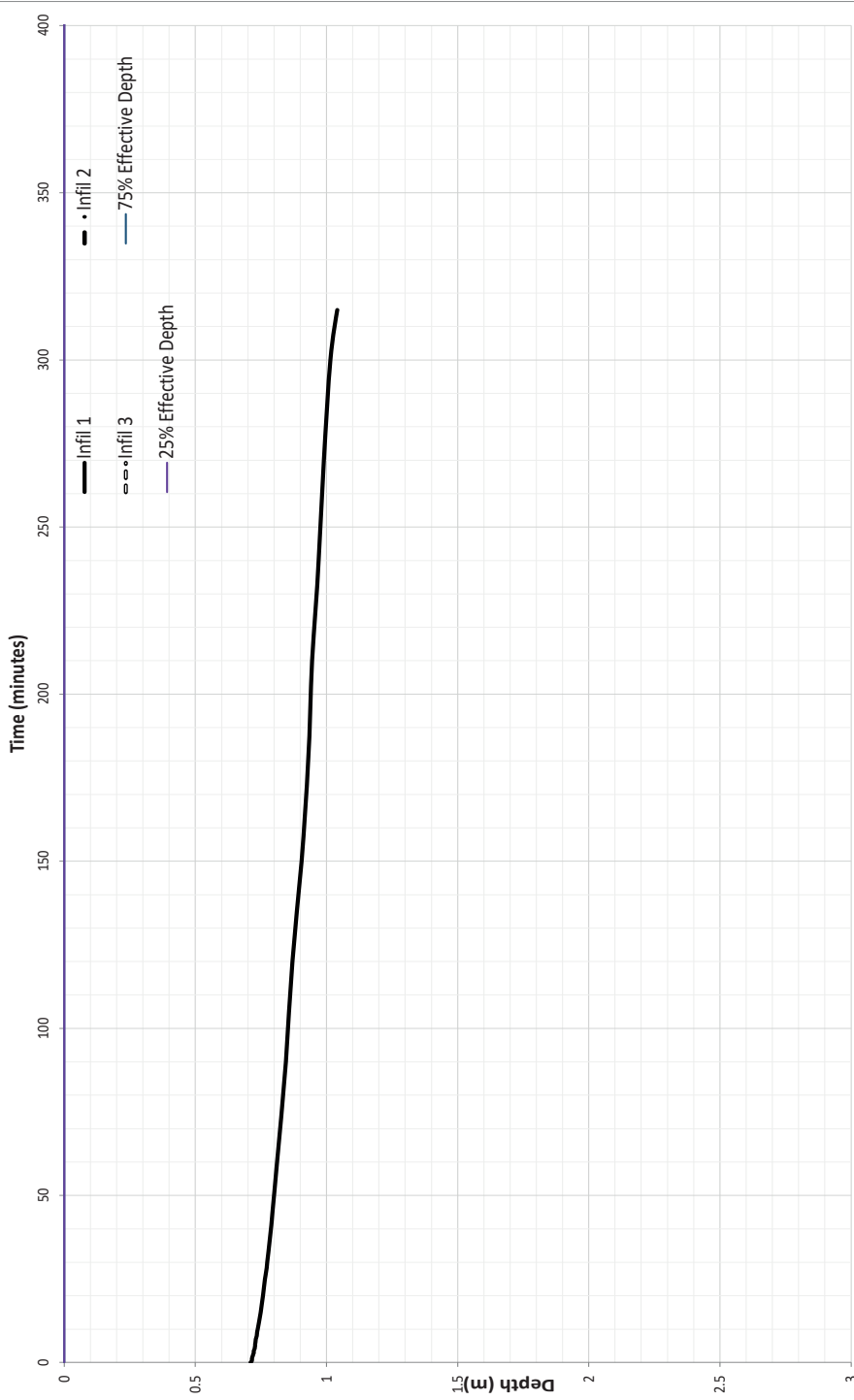
In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE	PROJECT NUMBER
Mar-24	2899.00
SOAKAWAY NUMBER	FILL NUMBER
TP-161	1

	units	Fill 1	Fill 2	Fill 3
Depth (final reading)	m	1.04		
Pit depth	m		1.10	
Pit length	m		0.80	
Pit width	m		1.60	
Depth to first reading	m	0.71		
Maximum effective depth	m	0.33		
Depth at 75% full	m	0.79		
Depth at 25% full	m	0.96		
Time at 75% full	mins	56.91		
Time at 25% full	mins	258.60		
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.250		
Mean surface area for outflow (50% effective depth)	m2	2.22		
Time for outflow	mins	201.69		
Soil infiltration rate, f =		0.0000093077		
or		9.31E-06		

Recommended soil infiltration rate

9.31E-06	m/s
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LOG

DEPTH (m)

0.0

0.3

0.4

0.5

Topsoil

Gravels

Topsoil

Weak cream mottled white CHALK

BACKFILL

DEPTH (m)

0.0

PROJECT NAME
Baldock North
CLIENT
Urban and Civic



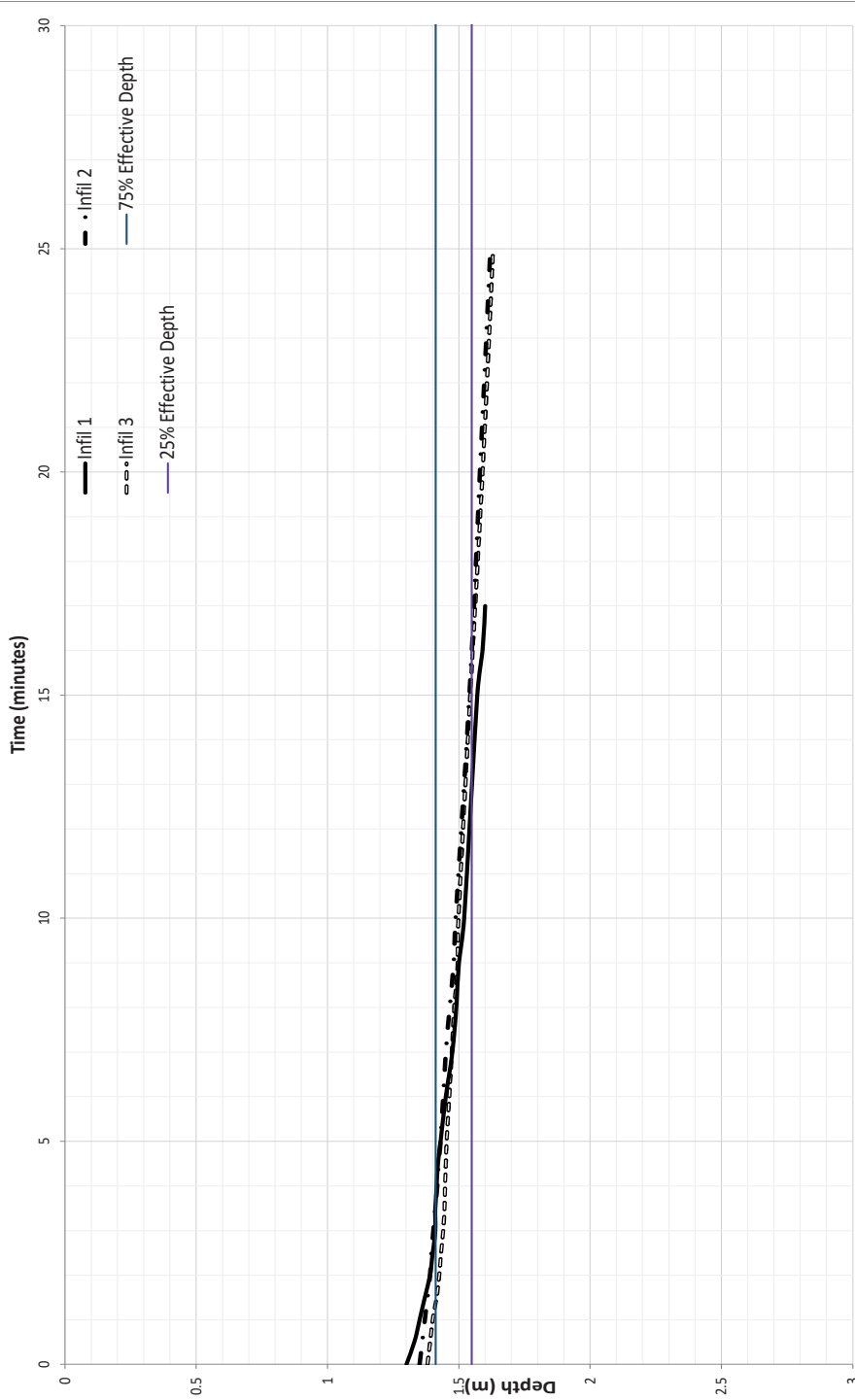
SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE	PROJECT NUMBER
Mar-24	2899.00
SOAKAWAY NUMBER	FILL NUMBER
TP-176	1

Recommended soil infiltration rate	
9.23E-05	m/s

	units	FIII 1	FIII 2	FIII 3
Depth (final reading)	m	1.60	1.62	1.63
Pit depth	m		1.70	
Pit length	m		1.60	
Pit width	m		0.80	
Depth to first reading	m	1.30	1.35	1.38
Maximum effective depth	m	0.30	0.27	0.25
Depth at 75% full	m	1.38	1.42	1.44
Depth at 25% full	m	1.53	1.55	1.57
Time at 75% full	mins	2.50	5.75	5.70
Time at 25% full	mins	17.00	24.06	23.75
Vp75 - 25 (volume outflowing between 75% and 25% effective depth) Mean surface area for outflow (50% effective depth)	m ³	0.256	0.224	0.205
Time for overflow	m ²	2.24	2.12	2.05
Soil infiltration rate, f = or	mins	14.50	18.31	18.05
		0.0001313629 1.31E-04	0.0000961642 9.62E-05	0.0000923361 9.23E-05



LOG

DEPTH (m)

Topsoil 0.0

Arisings

subsoil 0.4

Weak yellowish white CHALK 0.6

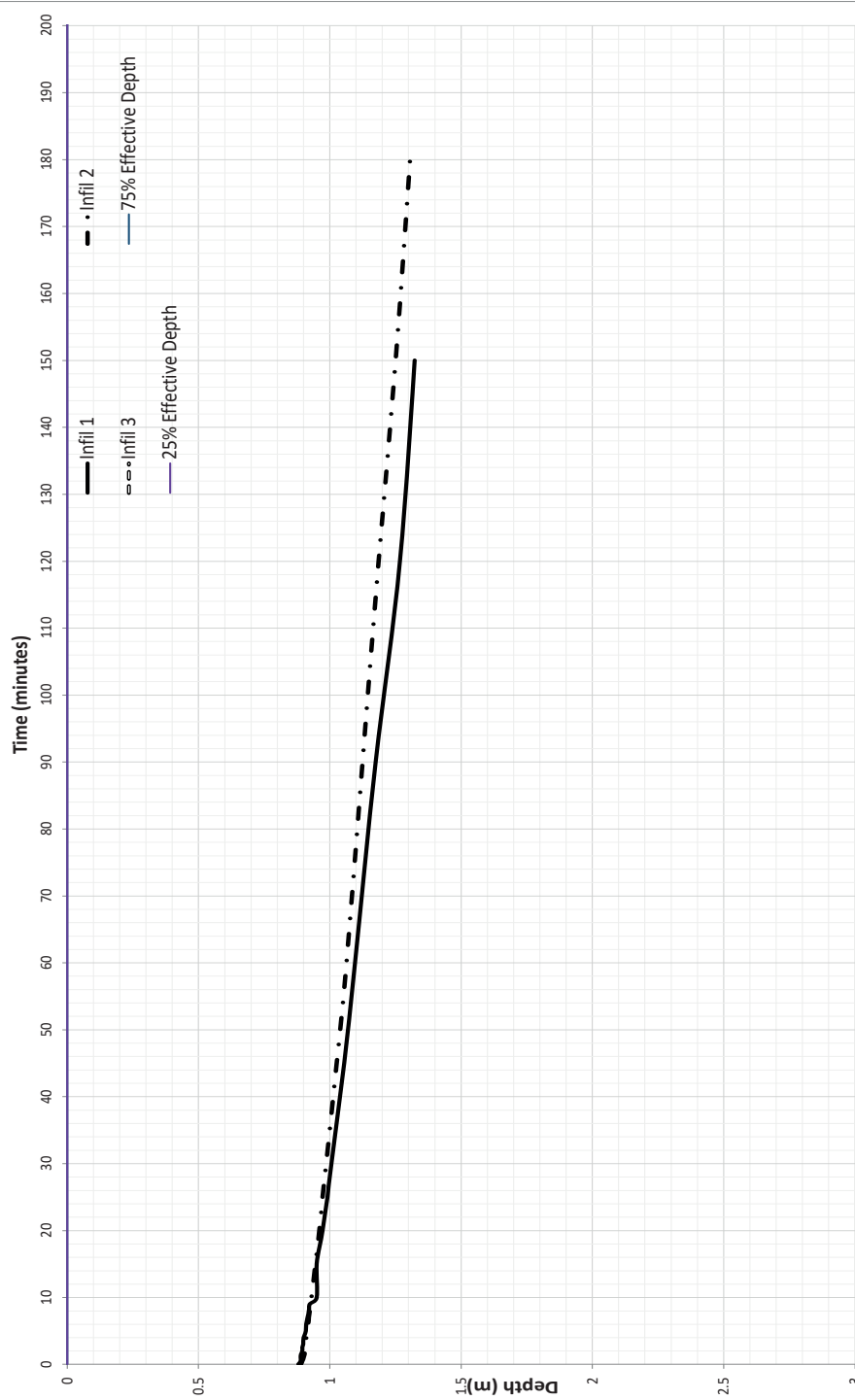
BACKFILL

DEPTH (m)

0.0

 SHADBOLT ENVIRONMENTAL	PROJECT NAME		SOAKAWAY TEST RESULTS <i>In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)</i>	DATE	PROJECT NUMBER
	Baldock North			Jul-20	2899.00
	CLIENT			SOAKAWAY INFILL NUMBER	
	Urban and Civic			TP-191	1-3

Recommended soil infiltration rate	
1.71E-05	m/s



The diagram illustrates a stratigraphic column with two distinct layers. The upper layer, labeled 'LOG', is 0.3m deep and consists of 'Weak white CHALK'. The lower layer, labeled 'BACKFILL', is 0.0m deep and consists of 'Topsoil'. The total depth of the column is 0.3m.

Section	Material	Depth (m)
LOG	Weak white CHALK	0.3
BACKFILL	Topsoil	0.0

 SHADBOLT ENVIRONMENTAL	PROJECT NAME	SOAKAWAY TEST RESULTS <i>In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)</i>			DATE	PROJECT NUMBER
	Baldock North				Mar-24	2899.00
	CLIENT				SOAKAWAY NUFFILL NUMBER	
	Urban and Civic				TP-203	1-2

Recommended soil infiltration rate

2.36E-05

m/s

NOTE:

Water level did not fall to below the 25% full level within 24 hrs for fills 2 and 3 - Soil infiltration rate based on effective drainage only

LOG

DEPTH (m)

Topsoil 0.0

Arisings

0.0

1.2

1.2

BACKFILL

DEPTH (m)

0.0

0.3

0.6

1.2

1.2

DEPTH (m)

0

0.5

1

1.5

2

2.5

3

Time (minutes)

0

180

360

540

720

900

1080

1260

1440

1620

1800

1980

2160

— Infil 1

--- Infil 3

— 75% Effective Depth

— 25% Effective Depth

PROJECT NAME

Baldock

CLIENT

U&C

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE

Dec-23

PROJECT NUMBER

2899.00

SA-01

1-2

LOG

DEPTH (m)

Topsoil 0.0

Arisings

0.0

1.2

1.2

BACKFILL

DEPTH (m)

0.0

0.3

0.6

1.2

1.2

DEPTH (m)

0

0.5

1

1.5

2

2.5

3

Time (minutes)

0

180

360

540

720

900

1080

1260

1440

1620

1800

1980

2160

— Infil 1

--- Infil 3

— 75% Effective Depth

— 25% Effective Depth

PROJECT NAME

Baldock

CLIENT

U&C

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE

Dec-23

PROJECT NUMBER

2899.00

SA-02

1-3

	units	FILL 1	FILL 2	FILL 3
Depth (final reading)	m	1.12	0.83	
Pit depth	m		1.20	
Pit length	m		1.10	
Pit width	m		0.50	
Depth to first reading	m	0.55	0.52	
Maximum effective depth	m	0.57	0.31	
Depth at 75% full	m	0.69	0.60	
Depth at 25% full	m	0.98	0.75	
Time at 75% full	mins	45.33	29.13	
Time at 25% full	mins	124.83	94.67	
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.179	0.084	
Mean surface area for outflow (50% effective depth)	m2	1.59	1.64	
Time for outflow	mins	79.50	65.54	
Soil infiltration rate, f =		0.0000235671	0.0000130212	
or		2.36E-05	1.30E-05	

LOG

DEPTH (m)

Topsoil 0.0

Arisings

0.0

1.2

1.2

BACKFILL

DEPTH (m)

0.0

0.3

0.6

1.2

1.2

DEPTH (m)

0

0.5

1

1.5

2

2.5

3

Time (minutes)

0

180

360

540

720

900

1080

1260

1440

1620

1800

1980

2160

— Infil 1

--- Infil 3

— 75% Effective Depth

— 25% Effective Depth

PROJECT NAME

Baldock

CLIENT

U&C

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE

Dec-23

PROJECT NUMBER

2899.00

SA-01

1-2

LOG

DEPTH (m)

Topsoil 0.0

Arisings

0.0

1.2

1.2

BACKFILL

DEPTH (m)

0.0

0.3

0.6

1.2

1.2

DEPTH (m)

0

0.5

1

1.5

2

2.5

3

Time (minutes)

0

180

360

540

720

900

1080

1260

1440

1620

1800

1980

2160

— Infil 1

--- Infil 3

— 75% Effective Depth

— 25% Effective Depth

PROJECT NAME

Baldock

CLIENT

U&C

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE

Dec-23

PROJECT NUMBER

2899.00

SA-02

1-3

	units	FILL 1	FILL 2	FILL 3
Depth (final reading)	m	1.34	1.33	1.25
Pit depth	m		1.40	
Pit length	m		1.50	
Pit width	m		0.70	
Depth to first reading	m	0.88	0.85	0.76
Maximum effective depth	m	0.46	0.48	0.49
Depth at 75% full	m	1.00	0.97	0.88
Depth at 25% full	m	1.23	1.21	1.12
Time at 75% full	mins	16.67	17.60	14.83
Time at 25% full	mins	76.25	74.55	66.33
Vp75 - 25 (volume outflowing between 75% and 25% effective depth)	m3	0.273	0.252	0.255
Mean surface area for outflow (50% effective depth)	m2	2.19	2.26	2.46
Time for outflow	mins	59.58	56.95	51.50
Soil infiltration rate, f =		0.0000348057	0.0000326349	0.0000335244
or		3.48E-05	3.26E-05	3.35E-05

LOG

DEPTH (m)

Topsoil 0.0

Arisings

0.0

1.4

1.4

BACKFILL

DEPTH (m)

0.0

0.3

0.6

1.4

1.4

DEPTH (m)

0

0.5

1

1.5

2

2.5

3

Time (minutes)

0

180

360

540

720

900

1080

1260

1440

1620

1800

1980

2160

— Infil 1

--- Infil 3

— 75% Effective Depth

— 25% Effective Depth

PROJECT NAME

Baldock

CLIENT

U&C

SOAKAWAY TEST RESULTS

In accordance with BRE Digest 365 (1991 with amendments in 2003 and 2007)

DATE

Dec-23

PROJECT NUMBER

2899.00

SA-02

1-3