Technical Note - Infiltration Testing

Project:	Elsa Road, Levenshulme, Manchester	Project Ref:	M225-362
Doc Ref:	M225-362 ERL-AJP-XX-XX-R-G-0011	Revision:	Rev00
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Checked by:	John Baron	Date:	20.05.26

1.0 Introduction

AJP Midlands Ltd (AJP) have undertaken infiltration testing at the Seddon Construction Limited development site at Elsa Road, Levenshulme, Manchester to assess the potential for adopting soakaways for the disposal of storm water.

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This report should be read together with Phase II Site Appraisal report undertaken by AJP (ref: M225-362 ERL-AJP-OO-XX-RP-G-0002 Rev01, dated December 2025).

2.0 Soakaway Testing

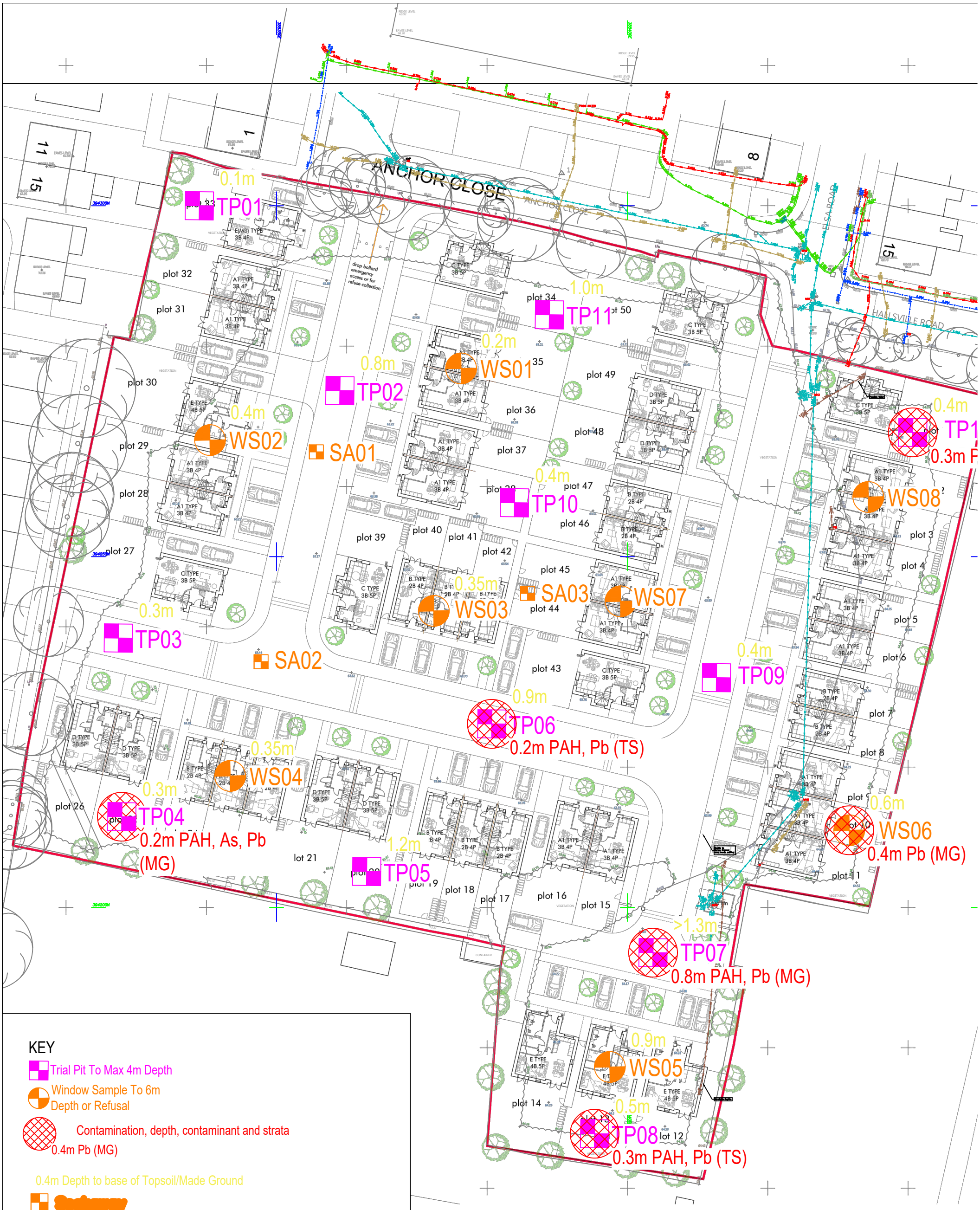
Soakaway testing was undertaken at three locations onsite where feasibly a soakaway tank could be constructed, i.e. proposed access roads and within the rear garden of the plots (Plot 44). Testing was undertaken in accordance with BRE365 within the excavated trial pits.

The trial pits were excavated to depth between 1.80m and 2.10m begl and the ground conditions were recorded to comprise varying thicknesses of made ground topsoil, underlain by cohesive Glacial Till. The soakaway tests were performed wholly within the Glacial Till. The hole location plan and exploratory hole logs are enclosed for reference.

All of the tests performed recorded negligible infiltration over a period of 24 hours such that neither the 75% or 25% drainage levels were reached, and the tests were deemed to have failed. As the first test was considered to have failed repeat tests were not undertaken. None of the tests drained sufficiently within 24 hours to allow the calculation of an infiltration rate. The results of the testing are enclosed.

3.0 Conclusion

Based on the results of the soakaway testing the site is considered unsuitable for the adoption of soakaway drainage and a positive connection to the local sewer network will be required for the disposal of storm water.



KEY

- Trial Pit To Max 4m Depth
- Window Sample To 6m Depth or Refusal
- Contamination, depth, contaminant and strata
  0.4m Pb (MG)
- 0.4m Depth to base of Topsoil/Made Ground
- Sadsway

ELSA ROAD, FORMER LEVENSH
SOUTHWAY HOUSING TRUST

REV	DATE	DESCRIPTION	BY	APP
P01	13.11.2025	First Issue	AG	JB

SCALE @ A3:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:500	AG	CO	JB	JB	MAY 2026

PROJECT: Elsa Road, Manchester

TITLE: Proposed Exploratory Hole Location Plan

STATUS:	PROJECT No:	DRAWING No:	REV:
S2	M225-362	M225-362-AJP--XX-00-DR-G-0703	P02

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INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 2007

Client: **Seddon Construction Limited**

Site: **Elsa Road, Levenshulme, Manchester**

Job No: **M225-362** **Test No: SA01 Test 1**

CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (m)
0	0.72
1	0.72
2	0.72
3	0.72
4	0.72
5	0.72
10	0.72
20	0.72
30	0.72
40	0.72
50	0.72
60	0.72
90	0.72
120	0.72
180	0.72
240	0.72
240	0.72
300	0.72
360	0.72
1440	0.74

Gravel Filled	Y/N	
Depth at start of test (m bgl) =		0.72
Depth at end of test (m bgl) =		0.74
Depth of Loss in test (m)		0.02
75% level =	0.99	
50% level =	1.26	
25% level =	1.53	

Size of Soakaway

	Pit Dimensions	Depth of Water
Length (m) =	1.80	1.08
Width (m) =	0.70	
Depth (m) =	1.80	

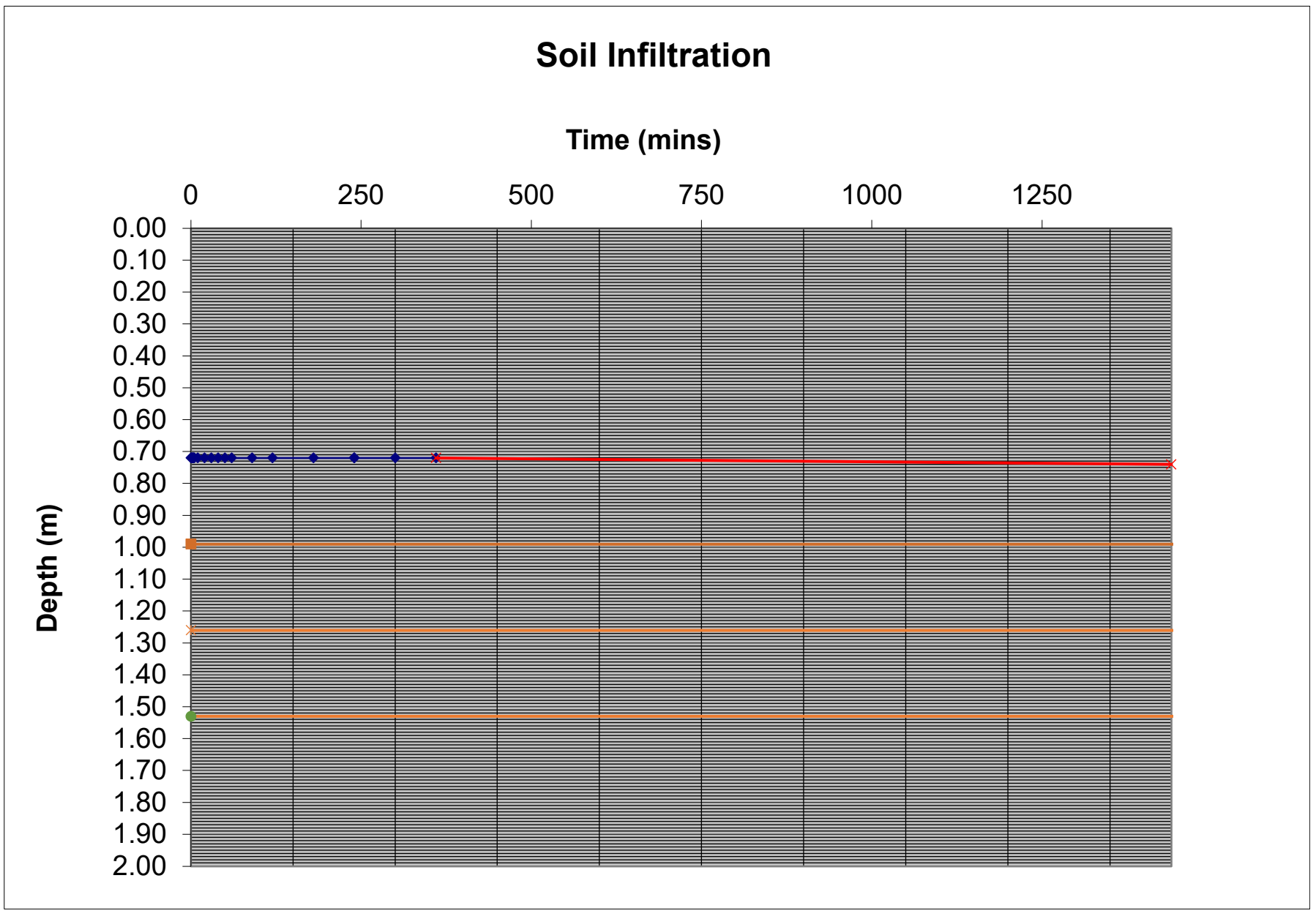
Base area of pit (m2)	=	1.260
ap_{50}, area of loss (m2)	=	3.960
Volume outflow 75 - 25% (m3)	=	0.680

From the graph:	
tp 75 (min) =	Not Reached
tp 25 (min) =	Not Reached

Test Type

Soil infiltration rate, f, (m/s) = **Insufficent Infiltration to calculate rate.**

Input:	**CO**	**Checked:**	**JPB**	**Date:**	**20.05.26**



INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 2007

Client: **Seddon Construction Limited**

Site: **Elsa Road, Levenshulme, Manchester**

Job No: **M225-362** **Test No: SA02 Test 1**

CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (m)
0	1.00
1	1.00
2	1.00
3	1.00
4	1.00
5	1.00
10	1.00
20	1.00
30	1.00
40	1.00
50	1.00
60	1.00
90	1.00
120	1.00
150	1.00
180	1.00
240	1.00
300	1.00
360	1.00
1440	1.00

Gravel Filled Y/N

Depth at start of test (m bgl) =	1.00
Depth at end of test (m bgl) =	1.00
Depth of Loss in test (m)	0.00

75% level =	1.28
50% level =	1.55
25% level =	1.83

Size of Soakaway

	Pit Dimensions	Depth of Water
Length (m) =	1.90	1.10
Width (m) =	0.70	
Depth (m) =	2.10	

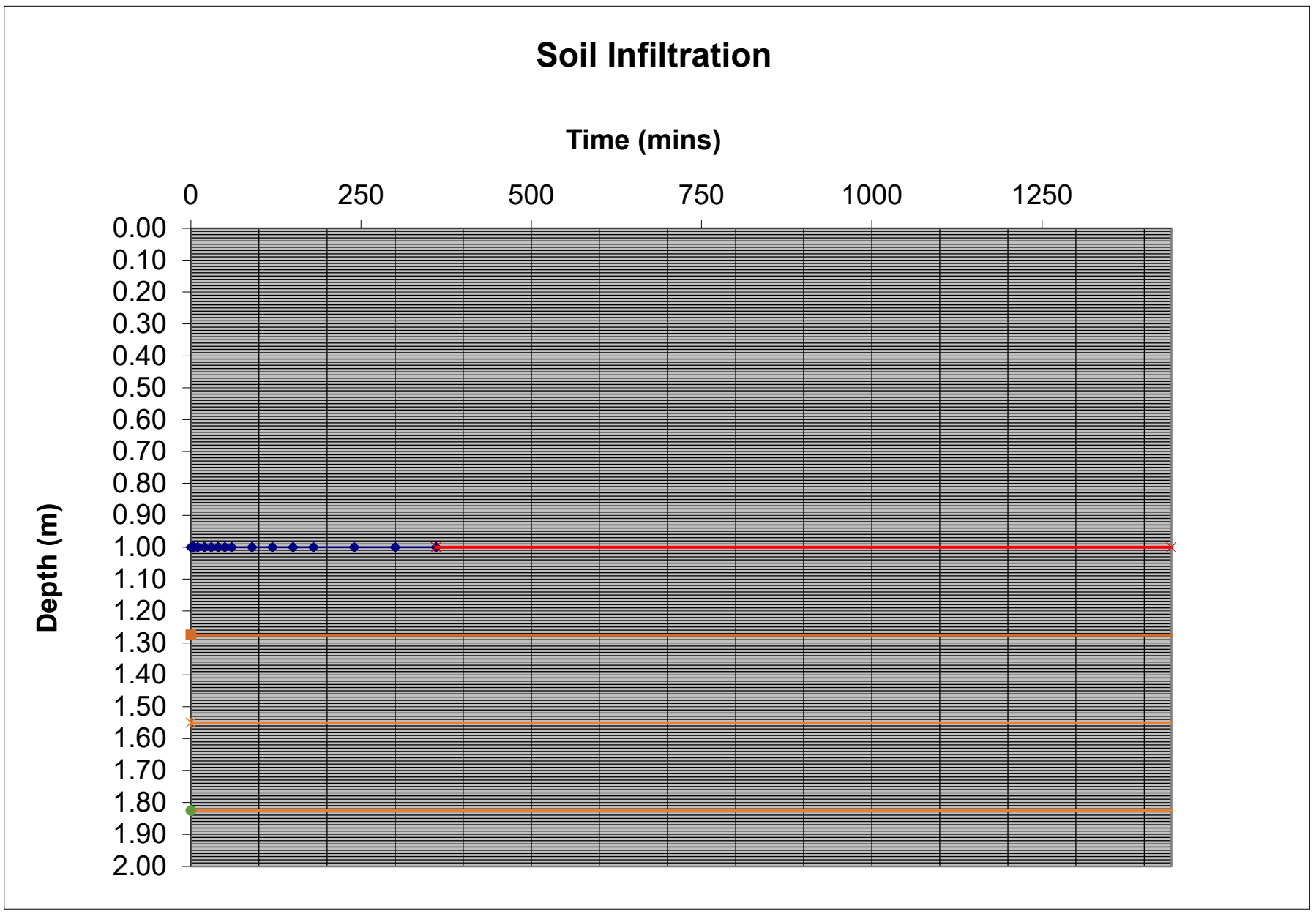
Base area of pit (m2)	=	1.330
ap_{50}, area of loss (m2)	=	4.190
Volume outflow 75 - 25% (m3)	=	0.732

From the graph:	
tp 75 (min) =	Not Reached
tp 25 (min) =	Not Reached

Test Type

Soil infiltration rate, f, (m/s) = **Insufficent Infiltration to calculate rate.**

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INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 2007

Client: **Seddon Construction Limited**

Site: **Elsa Road, Levenshulme, Manchester**

Job No: **M225-362** **Test No: SA03 Test 1**

CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (m)
0	0.70
1	0.70
2	0.70
3	0.70
4	0.70
5	0.70
10	0.70
20	0.70
30	0.70
40	0.70
50	0.70
60	0.70
90	0.70
120	0.70
150	0.70
180	0.70
240	0.70
300	0.70
360	0.70
1440	0.70

Gravel Filled	Y/N	
Depth at start of test (m bgl) =		0.70
Depth at end of test (m bgl) =		0.70
Depth of Loss in test (m)		0.00
75% level =	0.98	
50% level =	1.25	
25% level =	1.53	

Size of Soakaway

	Pit Dimensions	Depth of Water
Length (m) =	2.30	1.10
Width (m) =	0.70	
Depth (m) =	1.80	

Base area of pit (m2)	=	1.610
ap_{50}, area of loss (m2)	=	4.910
Volume outflow 75 - 25% (m3)	=	0.886

From the graph:	
tp 75 (min) =	Not Reached
tp 25 (min) =	Not Reached

Test Type

Soil infiltration rate, f, (m/s) = **Insufficent Infiltration to calculate rate.**

Input:	**CO**

Checked:	**JPB**

Date:	**20.05.26**

