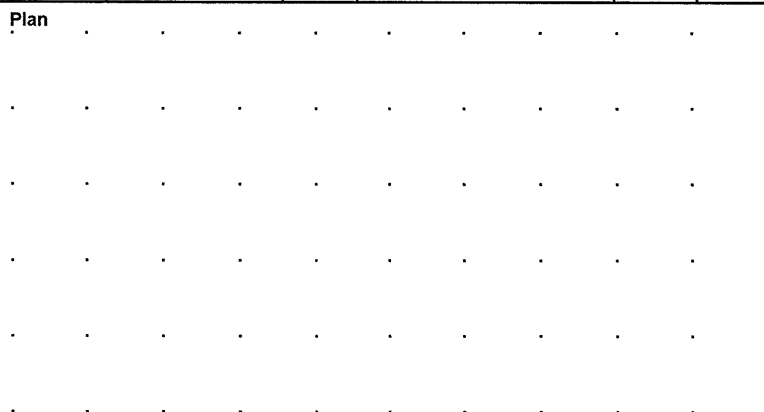


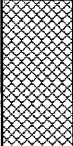
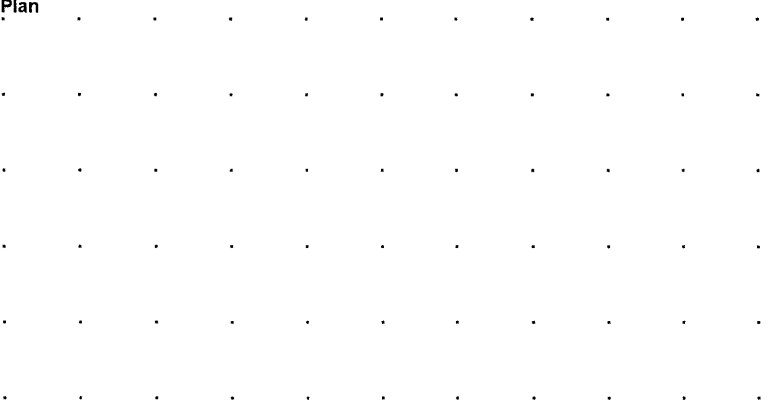
103 BIGDALE DRIVE, KIRKBY, MERSEYSIDE

TP1

Job
Number
7693A

Sheet
1/1

Plan 	Remarks No groundwater encountered. On completion backfilled with gravel and soakaway test carried out.		
	Scale (approx) 1:10	Logged By JR/VW	Figure No. 7693A.M1

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site 103 BIGDALE DRIVE, KIRKBY, MERSEYSIDE		Trial Pit Number TP2	
Excavation Method MECHANICAL EXCAVATOR		Dimensions 1.30m x 0.45m		Ground Level (mOD)		Client ADVENT CONSTRUCTION LIMITED		Job Number 7693A	
		Location AS PLAN				Dates 20/07/2023		Engineer	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.05-0.15	B				0.10	MADE GROUND: bituminous macadam.			
0.25-0.40	B				0.50	MADE GROUND: dark grey ashy gravelly slightly clayey silty fine to coarse sand with cobble sized fragments of brick and stone. Gravel sized fragments are brick, stone and clinker.			
0.65-0.75	B				0.60	MADE GROUND: dark grey ashy slightly gravelly slightly clayey silty fine to coarse SAND. Gravel sized fragments are stone and brick.			
0.90-1.00	B				0.80	Dark greyish brown slightly gravelly silty fine to medium SAND with occasional pockets of clay. Gravel is subrounded to subangular fine to coarse sandstone, mudstone and siltstone.			
1.30-1.40	B				1.25	Light grey slightly clayey silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone, mudstone and siltstone.			
1.50-1.55	B				1.50	Stiff light greyish brown slightly gravelly silty CLAY. Gravel is subangular to rounded fine to coarse siltstone, mudstone and quartz.			
Plan 						Remarks No groundwater encountered. On completion backfilled with gravel and soakaway test carried out.			
						Scale (approx) 1:10		Logged By JR/VW	



103 BIGDALE DRIVE, KIRKBY, MERSEYSIDE

**Trial Pit
Number**
TP2

Job
Number
7693A

Sheet
2/2

Water

2.00

20/07/2023:DRY

Complete at 2.00m

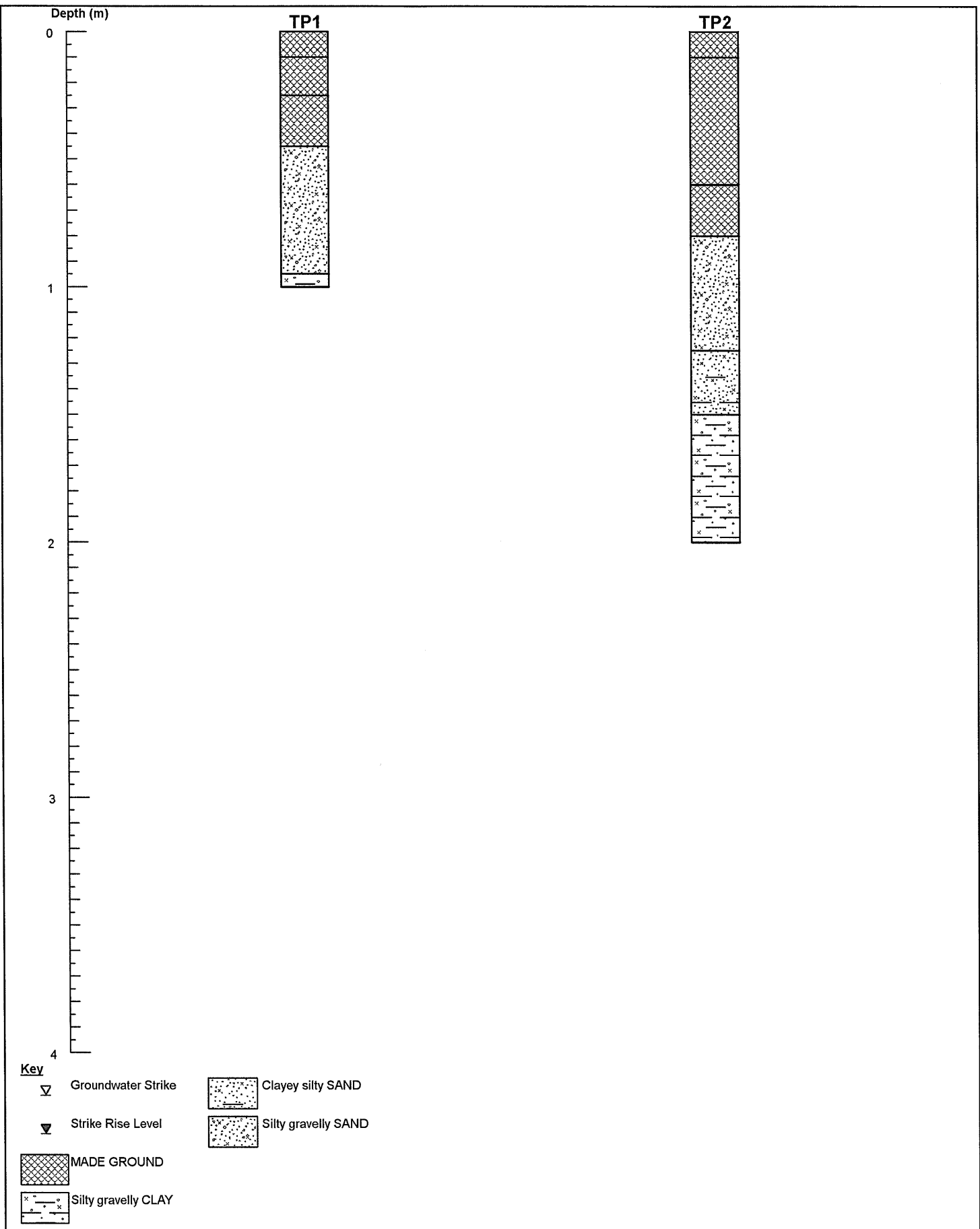
Plan

Remarks

1:10

JR/MW

7693A.M2



S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Nominal Section		
Site 103 BIGDALE DRIVE, KIRKBY, MERSEYSIDE		Date Drawn 26/07/2023	Date Checked	Sheet 1/1
Client ADVENT CONSTRUCTION LIMITED		Drawn By	Checked By	Job Number 7693A
			Scale 1:20[V]	Figure No. 7693A.1

**SUB SURFACE**

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Insitu Test Results

Site: 103 BIRKDALE DRIVE, KIRKBY.

Client: ADVENT CONSTRUCTION LIMITED.

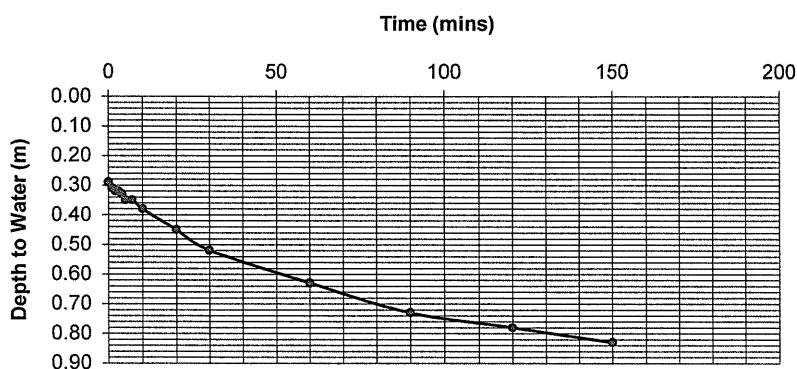
Engineer:

Job Number
7693ASheet:
1 / 1**SOAKAWAY TEST (WITH GRAVEL INFILL)**

Position: TP1

Test Number: 1

Date: 20/07/23



Time (min)	Depth (m)
0	0.29
1	0.31
2	0.32
3	0.32
4	0.33
5	0.35
7	0.35
10	0.38
20	0.45
30	0.52
60	0.63
90	0.73
120	0.78
150	0.83

Length of pit: L = 1.70 m
 Width of pit: W = 0.45 m
 Depth of pit: D = 1.00 m
 Base area of pit: A = 0.77 m²

100% effective depth D100 = 0.29 m
 75% effective depth D75 = 0.47 m
 50% effective depth D50 = 0.65 m
 25% effective depth D25 = 0.82 m

time to D75 T75 = 1371 sec
 time to D25 T25 = 8640 sec

time from D75 to D25 t_{p75-25} = 7269 sec
 (T25 - T75)

volume between D75 & D25* V_{p75-25} = 0.08 m³

(A x (D25 - D75)) x 30%
 surface area to D50 inc. base a_{p50} = 2.29 m²
 ((2x(D-D50)x(W+L)) + A)

SOIL INFILTRATION RATE

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

$$f = 4.89E-06 \text{ m/sec}$$

Test Strata:

See TP1 Log.

Remarks: * 30% correction applied to volume to allow for gravel infill.



SUB SURFACE

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Insitu Test Results

Site: 103 BIRKDALE DRIVE, KIRKBY.

Client: ADVENT CONSTRUCTION LIMITED.

Engineer:

Job Number
7693A

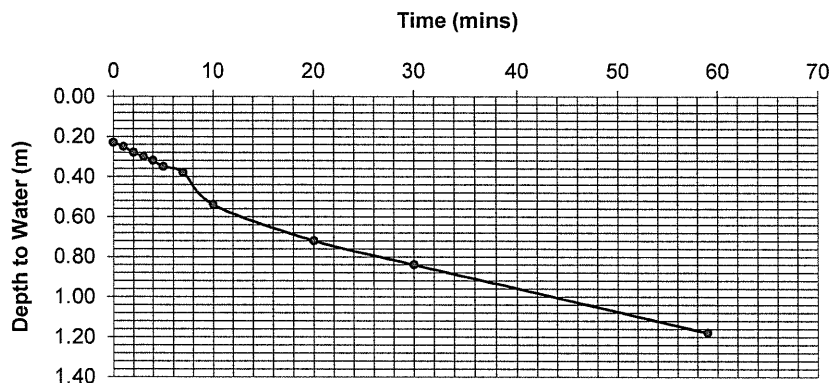
Sheet:
1 / 4

SOAKAWAY TEST (WITH GRAVEL INFILL)

Position: TP2

Test Number: 1

Date: 20/07/23



Time (min)	Depth (m)
0	0.23
1	0.25
2	0.28
3	0.30
4	0.32
5	0.35
7	0.38
10	0.54
20	0.72
30	0.84
59	1.18

#

Length of pit: L = 1.30 m
Width of pit: W = 0.45 m
Depth of pit: D = 1.50 m
Base area of pit: A = 0.59 m²

100% effective depth D100 = 0.23 m
75% effective depth D75 = 0.55 m
50% effective depth D50 = 0.87 m
25% effective depth D25 = 1.18 m

time to D75 T75 = 633 sec
time to D25 T25 = 3540 sec

time from D75 to D25 t_{p75-25} = 2907 sec
(T25 - T75)

volume between D75 & D25* V_{p75-25} = 0.11 m³
(A x (D25 - D75)) x 30%
surface area to D50 inc. base a_{p50} = 2.81 m²
((2x(D-D50)x(W+L)) + A)

SOIL INFILTRATION RATE

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

$$f = 1.37E-05 \text{ m/sec}$$

Test Strata:

See TP2 Log.

Remarks: * 30% correction applied to volume to allow for gravel infill.
Extrapolated value



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Insitu Test Results

Site: 103 BIRKDALE DRIVE, KIRKBY.

Client: ADVENT CONSTRUCTION LIMITED.

Engineer:

Job Number

7693A

Sheet:

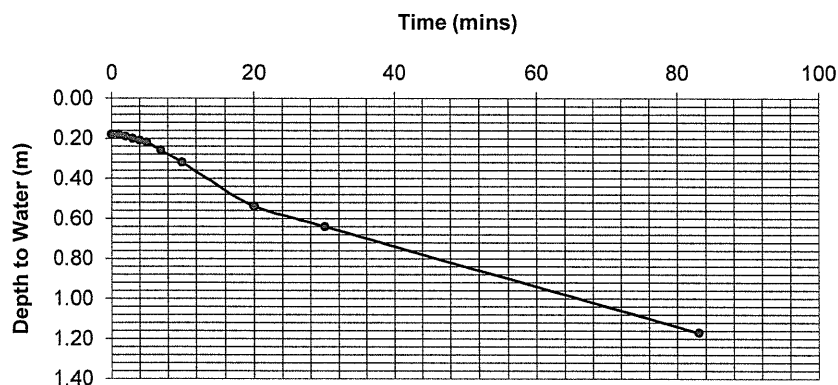
2 / 4

SOAKAWAY TEST (WITH GRAVEL INFILL)

Position: TP2

Test Number: 2

Date: 20/07/23



Time (min)	Depth (m)
0	0.18
1	0.18
2	0.19
3	0.20
4	0.21
5	0.22
7	0.26
10	0.32
20	0.54
30	0.64
83	1.17

Length of pit: L = 1.30 m
 Width of pit: W = 0.45 m
 Depth of pit: D = 1.50 m
 Base area of pit: A = 0.59 m²

100% effective depth D100 = 0.18 m
 75% effective depth D75 = 0.51 m
 50% effective depth D50 = 0.84 m
 25% effective depth D25 = 1.17 m

time to D75 T75 = 1118 sec
 time to D25 T25 = 4980 sec

time from D75 to D25 $t_{p75-25} = 3862$ sec
 (T25 - T75)
 volume between D75 & D25* $V_{p75-25} = 0.12$ m³
 (A x (D25 - D75)) x 30%
 surface area to D50 inc. base $a_{p50} = 2.90$ m²
 ((2x(D-D50)x(W+L)) + A)

SOIL INFILTRATION RATE

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

$$f = 1.04E-05 \text{ m/sec}$$

Test Strata:

See TP2 Log.

Remarks: * 30% correction applied to volume to allow for gravel infill.
 #Extrapolated value



SUB SURFACE

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Insitu Test Results

Site: 103 BIRKDALE DRIVE, KIRKBY.

Client: ADVENT CONSTRUCTION LIMITED.

Engineer:

Job Number

7693A

Sheet:

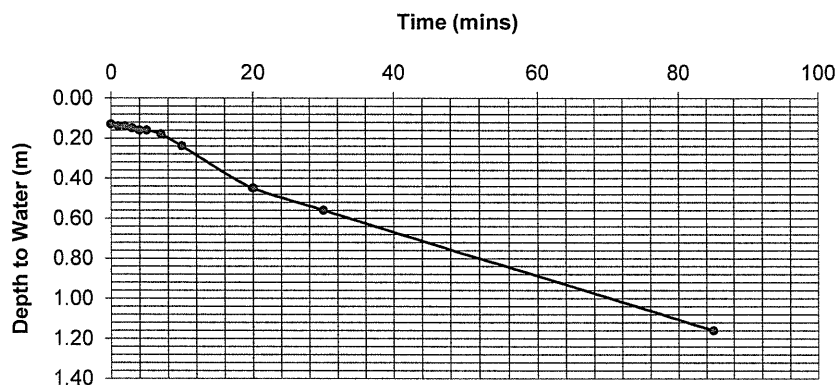
3 / 4

SOAKAWAY TEST (WITH GRAVEL INFILL)

Position: TP2

Test Number: 3

Date: 20/07/23



Time (min)	Depth (m)
0	0.13
1	0.14
2	0.14
3	0.15
4	0.16
5	0.16
7	0.18
10	0.24
20	0.45
30	0.56
85	1.16

#

Length of pit: L = 1.30 m
Width of pit: W = 0.45 m
Depth of pit: D = 1.50 m
Base area of pit: A = 0.59 m²

100% effective depth D100 = 0.13 m
75% effective depth D75 = 0.47 m
50% effective depth D50 = 0.82 m
25% effective depth D25 = 1.16 m

time to D75 T75 = 1309 sec
time to D25 T25 = 5100 sec

time from D75 to D25 t_{p75-25} = 3791 sec
(T25 - T75)

volume between D75 & D25* V_{p75-25} = 0.12 m³
(A x (D25 - D75)) x 30%
surface area to D50 inc. base a_{p50} = 2.98 m²
((2x(D-D50)x(W+L)) + A)

SOIL INFILTRATION RATE

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

$$f = 1.06E-05 \text{ m/sec}$$

Test Strata:

See TP2 Log.

Remarks: * 30% correction applied to volume to allow for gravel infill.
Extrapolated value



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Insitu Test Results

Site: 103 BIRKDALE DRIVE, KIRKBY.

Client: ADVENT CONSTRUCTION LIMITED.

Engineer:

Job Number
7693A

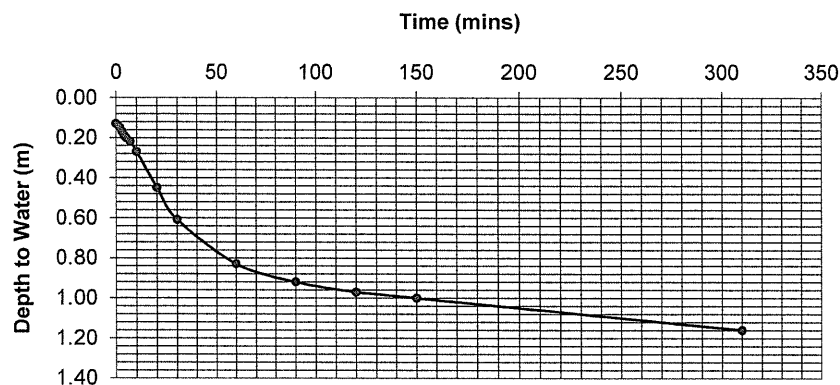
Sheet:
4 / 4

SOAKAWAY TEST (WITH GRAVEL INFILL)

Position: TP2

Test Number: 4

Date: 20/07/23



Time (min)	Depth (m)
0	0.13
1	0.14
2	0.15
3	0.17
4	0.19
5	0.20
7	0.22
10	0.27
20	0.45
30	0.61
60	0.83
90	0.92
120	0.97
150	1.00
310	1.16

Length of pit: L = 1.30 m
Width of pit: W = 0.45 m
Depth of pit: D = 1.50 m
Base area of pit: A = 0.59 m²

100% effective depth D100 = 0.13 m
75% effective depth D75 = 0.47 m
50% effective depth D50 = 0.82 m
25% effective depth D25 = 1.16 m

time to D75 T75 = 1275 sec
time to D25 T25 = 18600 sec

time from D75 to D25 t_{p75-25} = 17325 sec
(T25 - T75)

volume between D75 & D25* V_{p75-25} = 0.12 m³
(A x (D25 - D75)) x 30%
surface area to D50 inc. base a_{p50} = 2.98 m²
((2x(D-D50)x(W+L)) + A)

SOIL INFILTRATION RATE

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

$$f = 2.33E-06 \text{ m/sec}$$

Test Strata:

See TP2 Log.

Remarks: * 30% correction applied to volume to allow for gravel infill.
Extrapolated value

NOTES:
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REV.	DATE	DESCRIPTION	BY:
A	30.3.22	Areas increased	PO
B	21.07.22	Entrance to apartment relocated.	RD
C	22.09.22	Layout Re-Design of two end units (Brook Hey Dr)	RD
D	18.10.22	Updated layout to suit redesigned footprint.	RD
E	27.10.22	Planning Issue	RD

	Ground Floor Apartment 50sqm Apartment Type 1
	8no. units
	Ground Floor Apartment 52sqm Apartment Type 2
	2no. units
	First Floor Apartment 55sqm (5+50) Apartment Type 3
	10no. units

External works to be a combination of hard and soft landscaping in the form of shrubbery/ low-no maintenance planting and paving.



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DRAWING NUMBER: 22017-PJA-00-ZZ-DR-A-1000-E
SCALE: 1:500@A3
DATE: 23.3.22
STATUS: PLANNING
BY: PO
CHECKED: SH

CLIENT: Advent Construction Ltd/ Liw Housing Group
PROJECT: Residential Development Bigdale Drive, Kirkby
DRAWING TITLE: Proposed Site Plan



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SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Soakaway Location Plan

Site 103 BIGDALE DRIVE, KIRKBY, MERSEYSIDE, L33 6US	Date Drawn 25/07/2023	Date Checked -	Orientation 	Job No. 7693A
Client ADVENT CONSTRUCTION LIMITED	Drawn By JR	Checked By -	Scale -	Figure No. 1 / 1