

# Appendix 5





(\*11932) Wt.30370/0370 10,000 9/39 A.& E.W.Ltd. Gp.685

ST98SE/25

Name and Number of Shaft or Bore given by Geological Survey:

ST98/35

252

73

Reclassified on authority of J. Day 7/2/68

GEOLOGICAL  
CLASSIFICATION

DESCRIPTION

THICKNESS

DEPTH

ST9682 8259

(On behalf of Messrs Mullins Bath)

at Great Somerford for the  
Malmesbury R.D.C.  
Mar. 1938.

Kl B  
isol. KPS  
87' 10" 10"  
13'

Top soil  
Brown clay  
Rough stone  
Blue clay sand mixed  
Limestone

3

7

4

79

13

22

3

2

12

1

15

8

30

6

10

15

87

100

122

125

127

139

140

155

163

193

199

FMB  
? Wyke Bed

Blue clay  
Stone  
Blue clay  
Layers of stone & clay  
Blue clay  
Rough stone  
Blue clay  
Limestone with clay joints  
Blue stone

? FMB. o/GC

3/68

Water struck 193' - 199' 1/2"  
overflowed at about  
Yield c 330 g p h.

CD 191 - electric pump  
Supplies 6 pairs of cement houses  
water meter on Wilts 13 SE E

C 20 28 6 48

Diamond covered

MDR  
23.4.59

Made by H. I. Godwin,  
for J. Mullins, Bath.



ST 98 SE/26.

1-inch Map 9578 8252

252 1' 252  
168

At West Street Farm  
Town or Village Great Somerford  
County Wilts. Six-inch quarter sheet 13 53/4  
For Mr. Col. W. Llewellyn Palmer D.S.O.

Exact site of well Near Farm Buildings

Attach a tracing from  
a map, or a sketch-  
map, if possible.

Level of ground surface above sea-level (O.D.) c. 230 ft. If well-top is not at ground level, state how far ... above; below; ft.

SHAFT ft.; diameter ft. Details of headings

BORE 200 ft.; diameter of bore: at top 8 ins.; at bottom 8 ins. Lengths, diameters, perforations, etc., of lining tubes 20ft of 8" i/d from surface 200ft of 6" i/d from surface 20ft perforated at base

Water struck at depths below well top, of (feet) 119/138 ft and 149/184ft above surface yielding 4 g.p.m.  
Rest-level of water ft. above well-top. Suction at 100 ft. Yield on 8 hours' pumping, 1232 gal. per hour with depression to 55 ft. below well-top, Capacity of pump 1232 g.p.h. Recovery to rest level in 5 mins. Date of measurements July 1948 Date of well July 1948

Quality of water (attach copy of analysis if available)

Well made by Messrs H.J. Godwin Ltd. Guenington...Glos

Information from W.J. Godwin F.G.S.

Additional notes in space overleaf.

| (For Survey use only)<br>GEOLOGICAL<br>CLASSIFICATION                                                                                                                                                         | NATURE OF STRATA                                                                                  | THICKNESS |        | DEPTH |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------|--------|-------|--------|
|                                                                                                                                                                                                               |                                                                                                   | Feet      | Ins.   | Feet  | Ins.   |
|                                                                                                                                                                                                               | If measurements start below ground surface, e.g., from bottom of an existing shaft, state how far |           | Metres |       | Metres |
| KLS<br>KLB<br>Cb<br>? Cb<br>? FHL<br>? GO                                                                                                                                                                     | Soil and Sand                                                                                     | 3         | 0.91   | 3     | 0.91   |
|                                                                                                                                                                                                               | Brown Sand                                                                                        | 5         | 1.53   | 8     | 2.44   |
|                                                                                                                                                                                                               | Blue Sand                                                                                         | 7         | 2.13   | 15    | 4.57   |
|                                                                                                                                                                                                               | Blue Clay                                                                                         | 66        | 20.12  | 81    | 24.69  |
|                                                                                                                                                                                                               | Blue Stone                                                                                        | 6         | 1.83   | 87    | 26.52  |
|                                                                                                                                                                                                               | Blue Stone and clay                                                                               | 2         | 0.61   | 89    | 27.13  |
|                                                                                                                                                                                                               | Blue clay                                                                                         | 24        | 7.31   | 113   | 34.27  |
|                                                                                                                                                                                                               | Blue & White Stone                                                                                | 19        | 5.79   | 138   | 42.06  |
|                                                                                                                                                                                                               | Blue Clay                                                                                         | 11        | 3.36   | 149   | 45.42  |
|                                                                                                                                                                                                               | Brown Stone                                                                                       | 35        | 10.66  | 184   | 56.08  |
|                                                                                                                                                                                                               | Blue Stone                                                                                        | 16        | 4.88   | 200   | 60.96  |
| Disused. Used to supply 2000-5000 gal to Manor Farm, Cottages & field troughs. Overflows all year in May, fields, Farm Manager. Overflowing about 2 g.p.m. when used, complaints of slight salinity. 22.4.59. |                                                                                                   |           |        |       |        |
| Overflowing at same rate as on 23/4/59 23/4/59                                                                                                                                                                |                                                                                                   |           |        |       |        |
| Continued over leaf                                                                                                                                                                                           |                                                                                                   |           |        |       |        |

GEOLOGICAL SURVEY AND MUSEUM,  
SOUTH KENSINGTON,  
LONDON, S.W.7.

Date  
received  
11.10.49

Correspond-  
ence File No.

1" N.S. Map  
No.

1" O.S. Map  
No.

Site marked (use symbol)  
on 1" Map on 6" Map



1063 Wt. 22438/0384 10m 7/45 (51) F&S.

ST98 SE/26  
RECORD OF WELL (SHAFT OR BORE)

(For Survey use only) N.1822  
1-inch Map Registered No.

252  
ST98/36 168

At West Street Farm  
Town or Village Great Somerford  
County Wilts. Six-inch quarter sheet 13 SE/2  
For Mr. Col. W. Llewellyn Palmer D.S.O.

Exact site of well Near Farm Buildings  
ST9578 8252

Attach a tracing from  
a map, or a sketch-  
map, if possible.

Level of ground surface above sea level (O.D.) c. 230 ft. If well-top is not at ground level, state how far ... {above; level, state how far ... {below; level, state how far ...

SHAFT ft.; diameter ft. Details of headings

BORE 200 ft.; diameter of bore: at top 8 ins.; at bottom 8 ins. Lengths, diameters, perforations, etc., of lining tubes 20ft of 8" i/d from surface 200ft of 6" i/d from surface 20ft perforated at base

Water struck at depths below well-top, of (feet) 119/138 ft and 149/184ft  
above surface yielding 4 g.p.m.  
Rest-level of water ft. above well-top. Suction at 100 ft. Yield on 8 hours' pumping, 1232 gal.  
per hour with depression to 55 ft. below well-top. Capacity of pump 1232 g.p.h. Recovery to rest level in 5 mins. Date of measurements July 1948 Date of well July 1948

Quality of water (attach copy of analysis if available)

Well made by Messrs H.J. Godwin Ltd. Quenington...Glos

Information from W.J. Godwin F.G.S.

Additional notes in space overleaf.

| (For Survey use only)<br>GEOLOGICAL<br>CLASSIFICATION | NATURE OF STRATA                                                                                                                                                                                           | THICKNESS |      | DEPTH |      |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------|------|
|                                                       |                                                                                                                                                                                                            | Feet      | Ins. | Feet  | Ins. |
| KLS<br>KLB<br>Cb<br>? Cb<br>? FHL<br>? GO             | If measurements start below ground surface, e.g., from bottom of an existing shaft, state how far                                                                                                          |           |      |       |      |
|                                                       | Soil and Sand                                                                                                                                                                                              | 3         |      | 3     |      |
|                                                       | Brown Sand                                                                                                                                                                                                 | 5         |      | 8     |      |
|                                                       | Blue Sand                                                                                                                                                                                                  | 7         |      | 15    |      |
|                                                       | Blue Clay                                                                                                                                                                                                  | 66        |      | 81    |      |
|                                                       | Blue Stone                                                                                                                                                                                                 | 6         |      | 87    |      |
|                                                       | Blue Stone and clay                                                                                                                                                                                        | 3         |      | 90    |      |
|                                                       | Blue clay                                                                                                                                                                                                  | 24        |      | 114   |      |
|                                                       | Blue & White Stone                                                                                                                                                                                         | 19        |      | 133   |      |
|                                                       | Blue Clay                                                                                                                                                                                                  | 11        |      | 144   |      |
|                                                       | Brown Stone                                                                                                                                                                                                | 35        |      | 179   |      |
|                                                       | Blue Stone                                                                                                                                                                                                 | 16        |      | 195   |      |
| LK 3/68<br>(See also 252/77)<br>Amended 23/4/71       | Dimmed. Used to supply 4000-5000 gpd. to Manor, Farm, Cottage & field troughs. Overflows all year re Maj. floods, from Manor. Overflowing about 2 g.p.m. when used, complaints of slight salinity. 22.4.59 |           |      |       |      |
|                                                       | Continued over leaf                                                                                                                                                                                        |           |      |       |      |
|                                                       | Continued over leaf                                                                                                                                                                                        |           |      |       |      |

GEOLOGICAL SURVEY AND MUSEUM,  
SOUTH KENSINGTON,  
LONDON, S.W.7.

Date received  
11.10.49

Correspondence File No.

1" N.S. Map No.  
252

1" O.S. Map No.

Site marked (use symbol on 1" Map on 6" Map)

[illegible]

167

ST98/86

MSB/D/1093

MSB/49

Table 5.1

Transmissivity calculated from specific capacity determinations

| Locality and well number            | Aquifer                  | Discharge<br>l/s (g.p.h.) | Drawdown<br>m.(ft.) | Time in days.<br>*Assumed 1 day<br>where not given | Spec. Capacity<br>l/s per m.<br>(g.p.h./ft.) | Transmissivity<br>m <sup>2</sup> /d<br>(g.p.d./ft.) |
|-------------------------------------|--------------------------|---------------------------|---------------------|----------------------------------------------------|----------------------------------------------|-----------------------------------------------------|
| ST944 873<br>Milbourne Farm 202     | ST98/5<br>Forest Marble  | 1 (800)                   | 4.2 (14)            | *1                                                 | 0.23(57.1)                                   | 35.3 (2,370)                                        |
| ST923 841<br>Corston 99             | ST98/9B<br>Forest Marble | 1.8 (1400)                | 20.3(66)            | 14                                                 | 0.87(210)                                    | 146 (9,816)                                         |
| ST9416 8230<br>Grove Farm 188       | ST98/14<br>Forest Marble | 1.1 (850)                 | 28.9(95)            | 0.3                                                | .04 (8.9)                                    | 5.3 (354)                                           |
| ST9580 8250<br>West Street Fm. 232  | ST98/36<br>Forest Marble | 1.6 (1,232)               | 16.8(55)            | 0.3                                                | .09 (22.4)                                   | 13 (875)                                            |
| ST9430 8010<br>Harding Farm 87      | ST98/54<br>Great Oolite  | 1.6 (1,240)               | 17.1(56)            | 0.3                                                | .09 (22.4)                                   | 13 (875)                                            |
| ST9410 7850<br>Sutton Benger 81     | ST97/9AB<br>Great Oolite | 4.9 (3,890)               | 33.2(109)           | 0.3                                                | 0.15(35.4)                                   | 20.8 (1,394)                                        |
| ST9221 7365<br>United Dairies 30    | ST97/11<br>Great Oolite  | 4.4 (3,500)               | 28.3(93)            | 0.3                                                | 0.15(37.6)                                   | 22.1 (1,482)                                        |
| ST878 6532<br>Hayes Atworth 12a     | ST86/39<br>Great Oolite  | 0.6 (500)                 | 27.7(91)            | 5                                                  | .02 (5.4)                                    | 3.9 (260)                                           |
| ST9038 7103<br>Thingley Junction 21 | ST97/15<br>Great Oolite  | 2.52 (2,000)              | 0.6 (2)             | 0.3                                                | 4.1 (1,000)                                  | 587 (39,400)                                        |
| Ivyfield, 3 25                      | ST97/19C<br>Great Oolite | 215 (170,700)             | 19.8 (65)           | 3.9                                                | 10.8(2,626)                                  | 162 (109,000)                                       |
| Ivyfield, 2 25                      | ST97/19B<br>Great Oolite | 25.2 (20,000)             | 1.1 (3.5)           | .04                                                | 23.6(5,714)                                  | 2,540(170,700)                                      |
| Westmead, 4 26                      | ST97/19D<br>Great Oolite | 25.2 (20,000)             | 36.5(120)           | .04                                                | 4.1 (990)                                    | 486 (32,650)                                        |
| Ivyfield, 5 25                      | ST97/19E<br>Great Oolite | 25.2 (20,000)             | 1.8 (6)             | .04                                                | 13.8(3,333)                                  | 1,634(109,700)                                      |
| ST8690 8679<br>Park Farm 113        | ST88/8<br>Great Oolite   | 1.3 (1,064)               | 3 (10)              | 0.3                                                | 0.4 (106)                                    | 62 (4,192)                                          |
| ST949 876<br>Milbourne 114          | ST98/25<br>Great Oolite  | 53.6 (42,600)             | 12.2(40)            | 1                                                  | 4.4 (1,065)                                  | 378 (38,800)                                        |
| ST973 892<br>Charlton 115           | ST98/11<br>Great Oolite  | 76 (60,400)               | 10.4(34.2)          | 0.1                                                | 7.3 (1,766)                                  | 844 (56,670)                                        |
| Chavenage 130                       | ST89/14<br>Great Oolite  | 1.5 (1,200)               | 5.2 (17)            | *1                                                 | 0.29(70.6)                                   | 46.6 (3,130)                                        |
| ST937 841<br>Rodbourn 98            | ST98/24<br>Great Oolite  | 32.6 (25,900)             | 3.8 (12)            | .03                                                | 8.6 (2,072)                                  | 1,225(82,228)                                       |
| ST90767136<br>Patterdown 22         | ST97/17<br>Great Oolite  | 17.9 (14,220)             | 14.6(48)            | 7                                                  | 1.2 (296)                                    | 205 (13,800)                                        |
| Lacock 15                           | ST96/517<br>Great Oolite | 50.4 (40,000)             | 1.6 (5.4)           | 1                                                  | 30.5(7,407)                                  | 4,008(269,000)                                      |
| ST8706253<br>Holt No. 1 3           | ST86/11<br>Great Oolite  | 12.5 (9,950)              | 2.9 (9.5)           | .37                                                | 4.3 (1,047)                                  | 536 (36,900)                                        |
| ST8599 6211<br>Holt No. 2 2         | ST86/9C<br>Great Oolite  | 25.2 (20,000)             | 3.9 (12.8)          | 1                                                  | 6.5 (1,562)                                  | 847 (56,874)                                        |
| Holt No. 2 2                        | Great Oolite             | 108.4(86,000)             | 32.9(108)           | 1                                                  | 3.3 (796)                                    | 431 (28,900)                                        |
| ST8681 8040<br>Grittleton 85        | ST88/21<br>Great Oolite  | 1.3 (1,050)               | 3 (10)              | *1                                                 | .43 (105)                                    | 65.2 (4,578)                                        |

Continued

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MJB/D/1094

MJB/149

Table 5.1 (Continued)

| Locality and well number                             | Aquifer                    | Discharge<br>l/s (g.p.h.) | Drawdown<br>m.(ft.) | Time in days.<br>*Assumed 1 day<br>where not given | Spec. Capacity<br>l/s per m.<br>(g.p.h./ft.) | Transmissivity<br>m <sup>2</sup> /d<br>(g.p.d./ft.) |
|------------------------------------------------------|----------------------------|---------------------------|---------------------|----------------------------------------------------|----------------------------------------------|-----------------------------------------------------|
| Goodshill (a) 13 <i>ST 867 672 ST 86/59</i>          | Great Oolite               | 2.0 (1,650)               | 4.3 (14)            | 14                                                 | .48 (117)                                    | 77.5 (5,200)                                        |
| Goodshill (b) 13                                     | Great Oolite               | 5 (3,954)                 | 5.2 (17)            | 14                                                 | .96 (232)                                    | 153 (10,304)                                        |
| Atworth Engineering 11 <i>ST 869 1 6587 ST 86/37</i> | Great Oolite               | 1.9 (1,500)               | 2.1 (7)             | *1                                                 | .88 (214)                                    | 133 (8,923)                                         |
| Crows Hall Farm 104 <i>ST 776 840 ST 78/8</i>        | Great Oolite               | 0.6 (500)                 | 2.1 (7)             | .3                                                 | .3 (71.4)                                    | 37.6 (2,525)                                        |
| Long Furlong Farm 123 <i>ST 876 4 9223 ST 89/33</i>  | Great Oolite               | 0.6 (510)                 | 8.8 (29)            | *1                                                 | .07 (17.5)                                   | 11.6 (780)                                          |
| Wilts Bacon 139 <i>ST 920 738 ST 97/12</i>           | Great Oolite & Inf. Oolite | 2.2 (1,750)               | 79 (260)            | *1                                                 | .03 (6.7)                                    | 3.6 (245)                                           |
| Long Newton 153 <i>ST 917 913 ST 99/36A/B</i>        | Inf. Oolite                | 30.1 (23,900)             | 19.5 (64)           | 3.2                                                | 1.5 (373)                                    | 229 (15,412)                                        |
| Oldford (not on map) <i>ST 775 78A</i>               | Inf. Oolite                | 33.1 (26,300)             | 1.7 (5.5)           | 1                                                  | 19.6 (4,747)                                 | 2,249 (151,000)                                     |
| Westonbirt 154                                       | Inf. Oolite                | 5 (4,000)                 | 14 (46)             | .04                                                | 5.0 (1,219)                                  | 694 (46,584)                                        |
| Ilsom Estate 163 <i>ST 9075 9456 ST 99/50B</i>       | Inf. Oolite                | 1.9 (1,500)               | 12.4 (41)           | 1                                                  | 0.14 (36)                                    | 24.2 (1,622)                                        |
| Manor Farm 158 <i>ST 927 927 ST 99/5B</i>            | Inf. Oolite                | 0.76 (600)                | 1.8 (6)             | 1                                                  | 0.4 (100)                                    | 62.5 (419)                                          |
| Upton Grove 162 <i>ST 8622 4550 ST 89/20</i>         | Inf. Oolite                | .4 (320)                  | 8.5 (28)            | .3                                                 | .05 (11.4)                                   | 7.15 (480)                                          |
| Tetbury (a) 161 <i>ST 869 0946 ST 89/25A</i>         | Inf. Oolite                | 11.5 (9,000)              | 4.6 (15)            | *1                                                 | 2.5 (600)                                    | 372 (25,000)                                        |
| Tetbury (b) 161 <i>ST 89/25B</i>                     | Inf. Oolite                | 12.6 (10,000)             | 7 (23)              | *1                                                 | 1.8 (455)                                    | 270 (18,150)                                        |
| West End Town Farm 145 <i>ST 767 742 ST 77/14</i>    | Inf. Oolite                | .75 (600)                 | 5.8 (19)            | .4                                                 | 0.15 (31.5)                                  | 22.1 (1,484)                                        |

T values not corrected for well loss  
because of low discharges.

# Appendix 6

**Land North of Seagry Road,  
Great Somerford SN15 5EQ**

**BRE365 INFILTRATION TESTING**



**Nick Davies and Emma Turtle**

**August 2025**

**P25-207inf**

---

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## TABLES

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| ISSUE                                                | DATE       | Written by:                     | Comment |
|------------------------------------------------------|------------|---------------------------------|---------|
| 1                                                    | 07/08/2025 | Edoardo Angelone MSc FGS        | -       |
|                                                      |            | <b>Reviewed and approved by</b> |         |
|                                                      |            | Matt Paddock MSc FGS            |         |
| For and on behalf of Paddock Geo Engineering Limited |            |                                 |         |

## APPENDICES

|   |                                        |
|---|----------------------------------------|
| A | Exploration Point Location Plan        |
| B | Trial Pit and Borehole Logs            |
| C | Laboratory Analysis Results – Not used |
| D | Infiltration Testing Results           |
| E | Site Photographs                       |

## 1.0 INTRODUCTION

Further to instructions received from Nick Davies and Emma Turtle; the Client, infiltration testing has been carried out to the BRE365 methodology in relation to assessing the infiltration properties of the underlying ground on the subject site referred as Land North of Seagry Road, Great Somerford SN15 5EQ.

### 1.1 Objectives

This assessment has been carried out to a scope of works as detailed by the Client prior to commencement. The assessment has been designed to assess the infiltration properties of the near surface strata and determine feasibility of soakaways design if applicable.

### 1.2 Scope of Works

The works comprised the forming of 5no. machine excavated trial pit, with infiltration testing carried out in accordance with the BRE365 methodology.

In addition, one of the boreholes was extended to the maximum depth achievable with the machine employed to allow the installation of a standpipe monitoring well for future groundwater monitoring if required.

### 1.3 Terms of Reference

The assessment has been carried out generally in accordance with the following guidance.

- BRE Digest 365 – Soakaway Design 2016
- BS5930: 2015 - Code of Practice for Site Investigations, British Standards Institution

## 2.0 SITE DESCRIPTION

The site is situated within a semirural setting in close proximity of the centre of Great Somerford village, around 19.1 km west of Swindon city centre and c.10.3 km northeast of Chippenham town centre. It forms part of a wider farmland, surrounded by open farmland and soft landscaping to the south and west sides and by residential properties to the north and east sides.

The topography of the site generally flat and sloping slightly towards south on the southern area of the site, consistent with the prevailing landform of the surrounding area. Access to the site is gained via a private road off Seagry Road.

### 2.1 Sitework

The sitework was carried out on 5<sup>th</sup> August 2025 and involved the forming 5no. machine excavated trial pits (SA1 to SA5) to depth between 0.80m and 2.20m below ground level (bgl) with infiltration testing conducted in accordance with the BRE365 methodology.

Following the termination of the infiltration test, trial pit SA4 was extended to max depth achievable with the excavator employed in order to assess the deeper geology and groundwater condition and to install a standpipe monitoring well for future groundwater monitoring if required.

---

Report on behalf of Nick Davies and Emma Turtle

P25-207inf - Land North of Seagry Road, Great Somerford SN15 5EQ

The trial pits were formed in locations as indicated by the Client's Engineer and in areas clear of obstruction and any buried services following a Cable Avoidance Tool (CAT) and Signal Generator survey. The testing locations are indicated on the enclosed Exploratory Location Plan presented in Appendix A.

The trial pits arisings were logged by a Geotechnical Engineer generally in accordance with BS5930:2015. No samples were recovered from the exploratory points.

The trial pits were reinstated upon completion of testing with compacted arisings.

## 2.2 Encountered Strata

A log of the trial pits and boreholes, and an exploratory Location Plan showing the positions investigated are presented in Appendix B and A respectively.

The strata encountered within the Trial Pits and Boreholes is summarised in the table below. These details are also included on the Trial Pit and Borehole Logs presented in Appendix B.

**Table 1: Encountered Strata**

| Encountered Strata – Trial Pit Strata                                                                      | Exploratory Hole and Basal Depth (m bgl) |             |             |               |             |
|------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|-------------|---------------|-------------|
|                                                                                                            | SA1                                      | SA2         | SA3         | SA4           | SA5         |
| <b>TOPSOIL</b><br>Grass onto dark brown very sandy silty organic CLAY.                                     | 0.30                                     | 0.40        | 0.35        | 0.35          | 0.40        |
| <b>KELLAWAYS SAND MEMBER</b><br>Orange brown very sandy silty CLAY.                                        | -                                        | 0.70        | -           | 1.00          | -           |
| <b>KELLAWAYS SAND MEMBER</b><br>Orange brown to grey with depth variable clayey silty fine to medium SAND. | 1.50                                     | 1.20        | 2.20        | 1.70<br>*2.50 | 0.80        |
| <b>Total Depth (m bgl)</b>                                                                                 | <b>1.50</b>                              | <b>1.20</b> | <b>2.20</b> | <b>2.50</b>   | <b>0.80</b> |

\*Note

Trial pit extended following infiltration test termination

## 2.3 Groundwater Details

Groundwater was not encountered within any exploration points to the maximum depth investigated of 2.50m bgl.

As mentioned within Section 2.1, a standpipe monitoring well was installed within exploration point SA4 for future groundwater if required.

It should be noted that groundwater levels may vary seasonally and with other factors. The reviewer should satisfy themselves with the groundwater levels at the time of any construction works.

## 3.0 LABORATORY ANALYSIS

Samples were not recovered from the arisings and laboratory analysis was not carried out.

## 4.0 INFILTRATION TESTING

### 4.1 Surface Water Soakaways

Infiltration testing was carried out within the trial pits (SA1 to SA5) to the BRE365 methodology to provide an estimate infiltration factor for the subject site. The trial pits were formed at depths between 0.90m and 2.20m bgl and filled with c. 0.40m of water at its base to limit the amount water used and reduce the likelihood of trial pit instabilities.

Three successfully cycles were carried out within trial pit SA5.

A single infiltration cycle was completed within trial pit SA1; however, due to the slow rate of water infiltration, it was estimated that completing the required three test cycles would have taken several days. Following consultation with the Client's Engineer, the test was terminated. An indicative infiltration rate was subsequently calculated using the available data for informational purposes only.

The infiltration testing within trial pits SA2 to SA4 were terminated part way the first cycle due slow infiltration rate and lack of water level movement over a period of time of 4 hours.

The test results are summarised in the table below.

**Table 2: Infiltration Factors**

| Trial Pit | Soil Tested           | Tested Depth (m bgl) | Infiltration Factor ( $\text{ms}^{-1}$ ) |                       |                       |
|-----------|-----------------------|----------------------|------------------------------------------|-----------------------|-----------------------|
|           |                       |                      | Cycle 1                                  | Cycle 2               | Cycle 3               |
| SA1       | Kellaways Sand Member | 1.06 – 1.50          | $2.45 \times 10^{-6}$ *                  |                       |                       |
| SA2       |                       | 0.78 – 1.20          | Test Failed $<10^{-7}$                   | -                     | -                     |
| SA3       |                       | 1.74 – 2.20          | Test Failed $<10^{-7}$                   | -                     | -                     |
| SA4       |                       | 1.22 – 1.70          | Test Failed $<10^{-7}$                   | -                     | -                     |
| SA5       |                       | 0.38 – 0.80          | $1.13 \times 10^{-5}$                    | $1.01 \times 10^{-5}$ | $1.21 \times 10^{-5}$ |

**Note**

\* Results obtained through extrapolation due to very slow infiltration and should not be used for design.

## General Notes

This report is produced for the sole use of the Client, and no responsibility of any kind, whether for negligence or otherwise, can be accepted for any Third Party who may rely upon it.

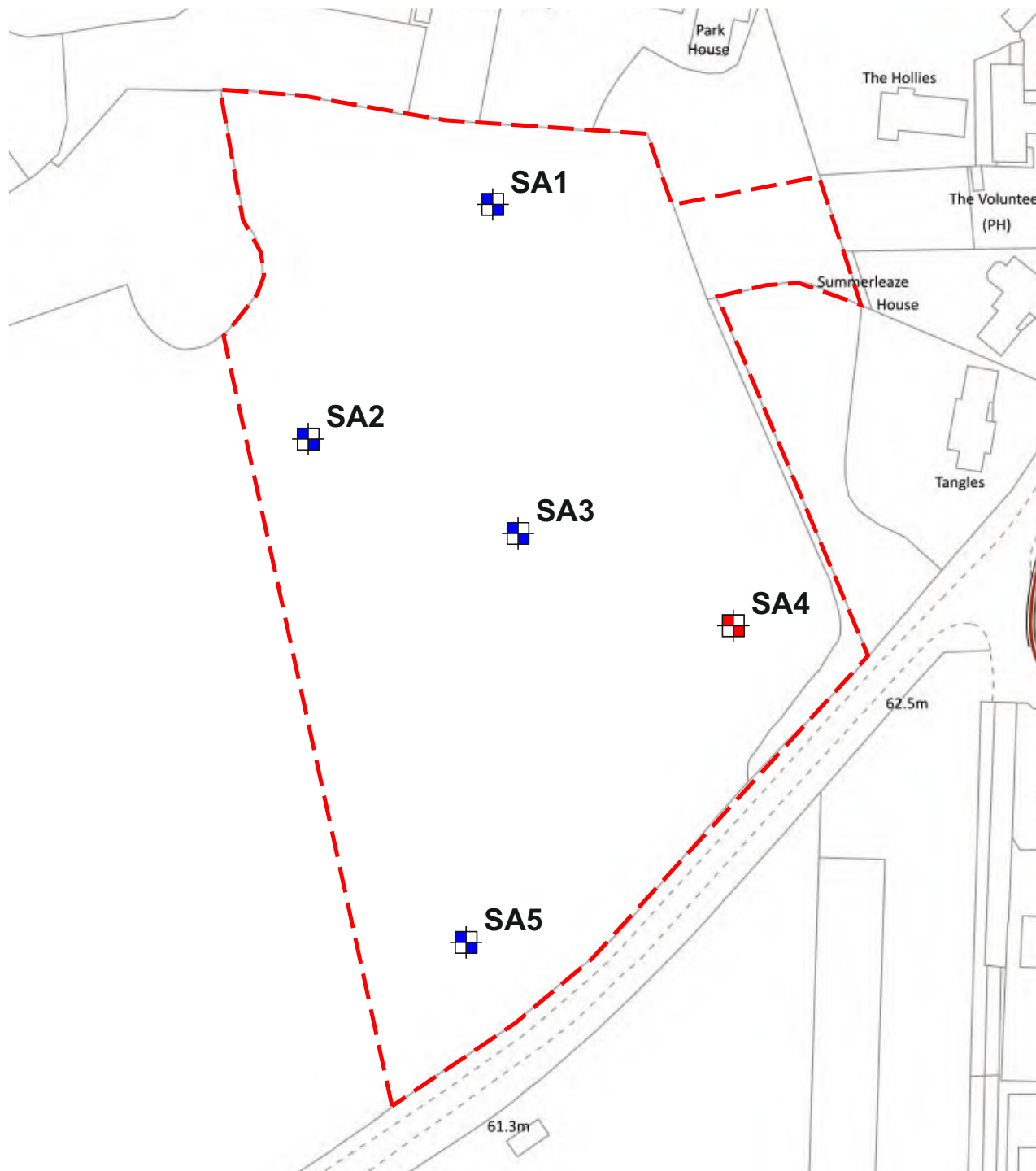
The conclusions and recommendations given in this report are based on our understanding of the future plans for the site and based on a scope of works agreed by the Client and afforded by the agreed budget. No responsibility is accepted for conditions not encountered, which are between exploratory points or outside of the agreed scope of work or if construction is commenced before regulatory approval of designs.

The report has been prepared following the guidelines and principles established in the British Standards, BS 5930, CIRIA Guidance and NHBC Standards. It necessarily relies on the co-operation of other organisations and the free availability of information and total access. No responsibility can, therefore, be accepted for conditions arising from information that was inaccurate or not available to the investigating team as a result of information being withheld or access being denied.

This report may suggest an opinion on a suspected configuration of strata or conditions between exploratory points and below the maximum depth of investigation. However, this is for guidance only and no liability can be accepted for its accuracy. Comments on the groundwater conditions are based on observations made at the time of the investigation unless otherwise stated. It should be noted, however, that groundwater levels might vary due to seasonal or other effects.

## APPENDIX A

### Exploration Points Location Plan



**Exploratory Point Location Plan  
(Existing Site Layout)**

**P25-207**

**Land North of Seagry Road,  
Great Somerford  
SN15 5EQ**

**Nick Davies & Emma Turtle**

**August 2025**

**Legend:**

-  Infiltration Testing Location With Standpipe Install
-  Infiltration testing Locations

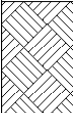
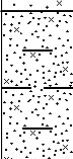
**Notes:**

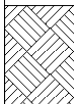
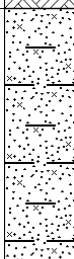
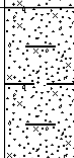
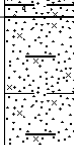
- 1) Not to scale
- 2) Dimensions as shown
- 3) All positions are approximate
- 4) Drawing to be viewed in colour
- 5) Drawing to be viewed digitally
- 6) Not for construction detail
- 7) Based on plans provided the Client

## APPENDIX B

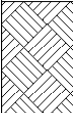
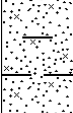
### Trial Pit Logs

|                                                                                     |                       |                                   |                      |                            |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                                                                                                                                                            |  |                                  |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------------------|----------------------|----------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|
|      |                       |                                   |                      |                            | <b>Site</b><br>Land North of Seagry Road, Great Somerford SN15 5EQ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Trial Pit Number</b><br><b>SA1</b> |                                                                                                                                                                            |  |                                  |
| <b>Excavation Method</b><br>2.5 Tonne Excavator                                     |                       | <b>Dimensions</b><br>0.30 x 1.50m |                      | <b>Ground Level (mOD)</b>  |                                                                    | <b>Client</b><br>Nick Davies and Emma Turtle                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       | <b>Job Number</b><br>P25-207                                                                                                                                               |  |                                  |
|                                                                                     |                       | <b>Location</b>                   |                      | <b>Dates</b><br>05/08/2025 |                                                                    | <b>Engineer</b><br>PGE                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | <b>Sheet</b><br>1/1                                                                                                                                                        |  |                                  |
| <b>Depth (m)</b>                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b>            | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>                                       | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | <b>Legend</b>                                                                                                                                                              |  |                                  |
|                                                                                     |                       |                                   |                      |                            | 0.30<br>0.30<br>0.80<br>1.10<br>0.40<br>1.50                       | Grass onto dark brown very sandy silty organic CLAY with frequent rootlets. (TOPSOIL)<br>Orange brown slightly clayey silty fine to medium SAND with occasional calcareous sandstone nodules up to medium gravel size. (KELLAWAYS SAND MEMBER)<br>Orange brown to occasional light grey slightly gravelly slightly clayey silty fine to medium SAND. Gravel is fine to medium subangular to subrounded sandstone lithorelics. (KELLAWAYS SAND MEMBER)<br>Complete at 1.50m |                                       | <br> |  |                                  |
|  |                       |                                   |                      |                            |                                                                    | <b>Remarks</b><br>Infiltration test carried out to the BRE365 methodology.<br>Trial pit terminated at 1.50m depth<br>Trial pit backfilled with arising<br>No groundwater encountered<br>Trial pit stable upon completion<br><br>Logged in accordance BS5930:2015                                                                                                                                                                                                           |                                       |                                                                                                                                                                            |  |                                  |
|                                                                                     |                       |                                   |                      |                            |                                                                    | <b>Scale (approx)</b><br>1:25                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | <b>Logged By</b><br>EA                                                                                                                                                     |  | <b>Figure No.</b><br>P25-207.SA1 |

|                                                                                     |                       |                                   |                      |                            |                                                    |                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                   |              |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------------------|----------------------|----------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|      |                       |                                   |                      |                            |                                                    | <b>Site</b><br>Land North of Seagry Road, Great Somerford SN15 5EQ                                                                                                                                                                                                                      |  | <b>Trial Pit Number</b><br><b>SA2</b>                                                                                                                                                                                                                             |              |
| <b>Excavation Method</b><br>2.5 Tonne Excavator                                     |                       | <b>Dimensions</b><br>0.30 x 1.30m |                      | <b>Ground Level (mOD)</b>  |                                                    | <b>Client</b><br>Nick Davies and Emma Turtle                                                                                                                                                                                                                                            |  | <b>Job Number</b><br>P25-207                                                                                                                                                                                                                                      |              |
|                                                                                     |                       | <b>Location</b>                   |                      | <b>Dates</b><br>05/08/2025 |                                                    | <b>Engineer</b><br>PGE                                                                                                                                                                                                                                                                  |  | <b>Sheet</b><br>1/1                                                                                                                                                                                                                                               |              |
| <b>Depth (m)</b>                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b>            | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>                       | <b>Description</b>                                                                                                                                                                                                                                                                      |  | <b>Legend</b>                                                                                                                                                                                                                                                     | <b>Water</b> |
|                                                                                     |                       |                                   |                      |                            | (0.40)<br>0.40<br>(0.30)<br>0.70<br>(0.50)<br>1.20 | Grass onto dark brown very sandy silty organic CLAY with frequent rootlets. (TOPSOIL)<br><br>Orange brown very sandy silty CLAY. (KELLAWAYS SAND MEMBER)<br><br>Orange brown to yellow grey slightly clayey silty fine to medium SAND. (KELLAWAYS SAND MEMBER)<br><br>Complete at 1.20m |  | <br><br> |              |
|  |                       |                                   |                      |                            |                                                    | <b>Remarks</b><br><br>Trial pit terminated at 1.20m depth<br>Trial pit backfilled with arising<br>Groundwater encountered at 2.50m depth<br>Trial pit stable upon completion                                                                                                            |  |                                                                                                                                                                                                                                                                   |              |
|                                                                                     |                       |                                   |                      |                            |                                                    | Logged in accordance BS5930:2015                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                   |              |
|                                                                                     |                       |                                   |                      |                            |                                                    | <b>Scale (approx)</b><br>1:25                                                                                                                                                                                                                                                           |  | <b>Logged By</b><br>EA                                                                                                                                                                                                                                            |              |

|                                                                                                |                           |                                               |                          |                                        |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |                                            |  |                                              |  |
|------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------|--------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--|----------------------------------------------|--|
| <div>PADDOCK<br/>GEO ENGINEERING</div>                                                         |                           |                                               |                          |                                        |                                                                                                                                                                                                    | <div>Site</div> <div>Land North of Seagry Road, Great Somerford SN15 5EQ</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                              | <div>Trial Pit Number</div> <div>SA3</div> |  |                                              |  |
| <div>Excavation Method</div> <div>2.50 Tonne Excavator</div>                                   |                           | <div>Dimensions</div> <div>0.30 x 1.60m</div> |                          | <div>Ground Level (mOD)</div>          |                                                                                                                                                                                                    | <div>Client</div> <div>Nick Davies and Emma Turtle</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                              | <div>Job Number</div> <div>P25-207</div>   |  |                                              |  |
|                                                                                                |                           | <div>Location</div>                           |                          | <div>Dates</div> <div>05/08/2025</div> |                                                                                                                                                                                                    | <div>Engineer</div> <div>PGE</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                              | <div>Sheet</div> <div>1/1</div>            |  |                                              |  |
| <div>Depth (m)</div>                                                                           | <div>Sample / Tests</div> | <div>Water Depth (m)</div>                    | <div>Field Records</div> | <div>Level (mOD)</div>                 | <div>Depth (m) (Thickness)</div>                                                                                                                                                                   | <div>Description</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <div>Legend</div>                                                                                                                                                                                                                                                                                                                                                                            | <div>Water</div>                           |  |                                              |  |
|                                                                                                |                           |                                               |                          |                                        | <div><div></div><div>(0.35)</div><div>0.35</div><div></div><div>(0.85)</div><div></div><div>1.20</div><div>(0.55)</div><div></div><div>1.75</div><div>(0.45)</div><div></div><div>2.20</div></div> | <div>Grass onto dark brown very sandy silty organic CLAY with frequent rootlets. (TOPSOIL)</div> <div>Orange brown clayey silty fine to medium SAND with occasional calcareous sandstone nodules up to medium gravel size. (KELLAWAYS SAND MEMBER)</div> <div>Orange brown to yellow grey slightly gravelly slightly clayey silty fine to medium SAND. Gravel is fine to coarse subangular sandstone lithorelics. (KELLAWAYS SAND MEMBER)</div> <div>Grey to blue grey very clayey silty fine to medium SAND. (KELLAWAYS SAND MEMBER)</div> <div>Complete at 2.20m</div> | <div></div> <div></div> <div></div> <div></div> |                                            |  |                                              |  |
| <div></div> |                           |                                               |                          |                                        |                                                                                                                                                                                                    | <div>Remarks</div> <div>Infiltration test carried out to the BRE365 methodology<br/>Trial pit terminated at 2.20m depth<br/>Trial pit backfilled with arising<br/>No groundwater encountered<br/>Trial pit stable upon completion</div> <div>Logged in accordance BS5930:2015</div>                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                              |                                            |  |                                              |  |
|                                                                                                |                           |                                               |                          |                                        |                                                                                                                                                                                                    | <div>Scale (approx)</div> <div>1:25</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                              | <div>Logged By</div> <div>EA</div>         |  | <div>Figure No.</div> <div>P25-207.SA3</div> |  |
|                                                                                                |                           |                                               |                          |                                        |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |                                            |  |                                              |  |

|                                                                                                |                           |                                               |                          |                                        |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |  |                                              |  |
|------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------|--------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--|----------------------------------------------|--|
| <div><div>PADDOCK</div><div>GEO ENGINEERING</div></div>                                        |                           |                                               |                          |                                        |                                                                                                                                                        | <div>Site</div> <div>Land North of Seagry Road, Great Somerford SN15 5EQ</div>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>Trial Pit Number</div> <div>SA4</div> |  |                                              |  |
| <div>Excavation Method</div> <div>2.50 Tonne Excavator</div>                                   |                           | <div>Dimensions</div> <div>0.30 x 1.70m</div> |                          | <div>Ground Level (mOD)</div>          |                                                                                                                                                        | <div>Client</div> <div>Nick Davies and Emma Turtle</div>                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>Job Number</div> <div>P25-207</div>   |  |                                              |  |
|                                                                                                |                           | <div>Location</div>                           |                          | <div>Dates</div> <div>05/08/2025</div> |                                                                                                                                                        | <div>Engineer</div> <div>PGE</div>                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>Sheet</div> <div>1/1</div>            |  |                                              |  |
| <div>Depth (m)</div>                                                                           | <div>Sample / Tests</div> | <div>Water Depth (m)</div>                    | <div>Field Records</div> | <div>Level (mOD)</div>                 | <div>Depth (m) (Thickness)</div>                                                                                                                       | <div>Description</div>                                                                                                                                                                                                                                                                                                                                                                                                                          | <div>Legend</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div>Water</div>                           |  |                                              |  |
|                                                                                                |                           |                                               |                          |                                        | <div><div></div><div>(0.35)</div><div>0.35</div><div>(0.45)</div><div>0.80</div><div>(0.20)</div><div>1.00</div><div>(1.50)</div><div>2.50</div></div> | <div>Grass onto dark brown very sandy silty organic CLAY with frequent rootlets. (TOPSOIL)</div> <div>Orange brown very sandy silty CLAY with occasional calcareous sandstone nodules up to medium gravel size. (KELLAWAYS SAND MEMBER)</div> <div>Grey slightly sandy silty CLAY (KELLAWAYS SAND MEMBER)</div> <div>Grey mottled yellow grey very clayey silty fine to medium SAND. (KELLAWAYS SAND MEMBER)</div> <div>Complete at 2.50m</div> | <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> |                                            |  |                                              |  |
| <div></div> |                           |                                               |                          |                                        |                                                                                                                                                        | <div>Remarks</div> <div>Trial pit extended to 2.50m depth after Infiltration test termination.<br/>Standpipe well installed to full depth<br/>Infiltration test carried out at 1.70m depth to the BRE365 methodology<br/>Trial pit backfilled with arising<br/>No groundwater encountered<br/>Trial pit stable upon completion</div> <div>Logged in accordance BS5930:2015</div>                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |  |                                              |  |
|                                                                                                |                           |                                               |                          |                                        |                                                                                                                                                        | <div>Scale (approx)</div> <div>1:25</div>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>Logged By</div> <div>EA</div>         |  | <div>Figure No.</div> <div>P25-207.SA4</div> |  |

|                                                                                     |                       |                                   |                      |                           |                              |                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                |              |                                  |  |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------------------|----------------------|---------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|--|
|      |                       |                                   |                      |                           |                              | <b>Site</b><br>Land North of Seagry Road, Great Somerford SN15 5EQ                                                                                                                                                                                                      |  | <b>Trial Pit Number</b><br><b>SA5</b>                                                                                                                                          |              |                                  |  |
| <b>Excavation Method</b><br>2.50 Tonne Excavator                                    |                       | <b>Dimensions</b><br>0.30 x 1.70m |                      | <b>Ground Level (mOD)</b> |                              | <b>Client</b><br>Nick Davies and Emma Turtle                                                                                                                                                                                                                            |  | <b>Job Number</b><br>P25-207                                                                                                                                                   |              |                                  |  |
|                                                                                     |                       | <b>Location</b>                   |                      |                           |                              | <b>Dates</b><br>05/08/2025                                                                                                                                                                                                                                              |  | <b>Engineer</b><br>PGE                                                                                                                                                         |              | <b>Sheet</b><br>1/1              |  |
| <b>Depth (m)</b>                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b>            | <b>Field Records</b> | <b>Level (mOD)</b>        | <b>Depth (m) (Thickness)</b> | <b>Description</b>                                                                                                                                                                                                                                                      |  | <b>Legend</b>                                                                                                                                                                  | <b>Water</b> |                                  |  |
|                                                                                     |                       |                                   |                      |                           | 0.40<br>0.40<br>0.40<br>0.80 | Grass onto dark brown very sandy silty organic CLAY with frequent rootlets and roots up to 15mm diameter. (TOPSOIL)<br><br>Orange brown slightly clayey silty fine to medium SAND. (KELLAWAYS SAND MEMBER)<br><br>Complete at 0.80m                                     |  | <br><br> |              |                                  |  |
|  |                       |                                   |                      |                           |                              | <b>Remarks</b><br><br>Infiltration test carried out to the BRE365 methodology<br>Trial pit terminated at 0.90m depth<br>Trial pit backfilled with arising<br>No groundwater encountered<br>Trial pit stable upon completion<br><br><br>Logged in accordance BS5930:2015 |  |                                                                                                                                                                                |              |                                  |  |
|                                                                                     |                       |                                   |                      |                           |                              | <b>Scale (approx)</b><br>1:25                                                                                                                                                                                                                                           |  | <b>Logged By</b><br>EA                                                                                                                                                         |              | <b>Figure No.</b><br>P25-207.SA5 |  |

## APPENDIX C

### Laboratory Analysis Results – Not Used

## APPENDIX D

### Infiltration Testing Results

# Infiltration Test to BRE365 - SA1 - TEST 1

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 1.06                        |
|      | 1.20               | 72.00              | 1.07                        |
|      | 3.15               | 189.00             | 1.08                        |
|      | 20.12              | 1207.00            | 1.11                        |
|      | 91.23              | 5474.00            | 1.17                        |
|      | 136.85             | 8211.00            | 1.21                        |
|      | 216.57             | 12994.00           | 1.26                        |
|      | 258.35             | 15501.00           | 1.28                        |
|      | 326.60             | 19596.00           | 1.30                        |
|      | 633.73             | 38023.52           | 1.39                        |

Location: SA1

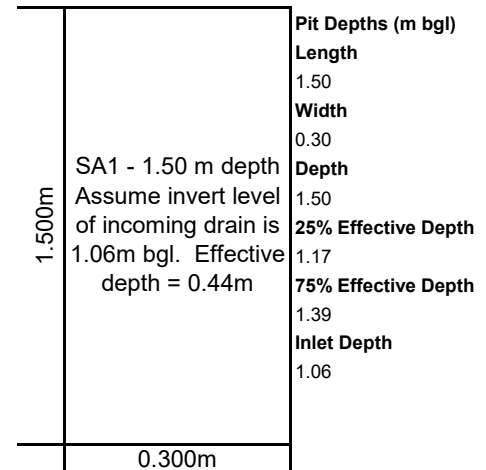
TEST 1

Weather: Sunny

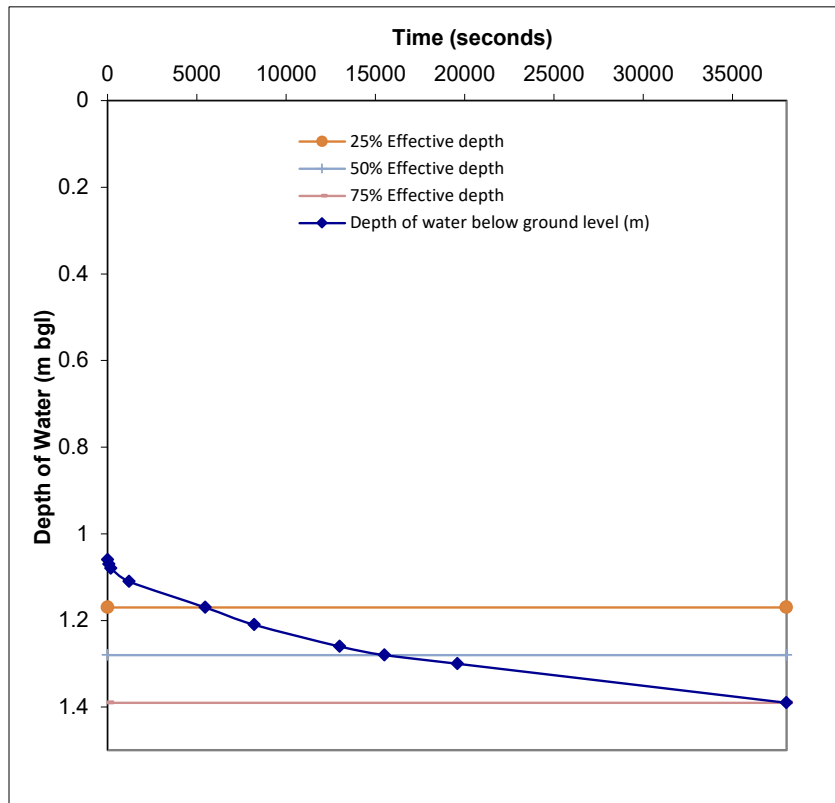
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER



Invert Level of incoming pipe (m): 1.06



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth

$$1.50 \times 0.30 \times (1.39 - 1.17) = 0.099$$

$$ap_{50} = \text{internal area of TP upto 50\% effective depth + base of TP} \\ 2(1.50 \times ) + 2(0.30 \times ) + (1.50 \times 0.30) = 1.242$$

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth

$$= 32550 \text{ secs}$$

$$f = 2.45E-06 \text{ m/s}$$

Comment



Client: Nick Davies & Emma Turtle  
 Project No: P25-207  
 Project: Land North of Seagry Road, Great Somerford  
 SN15 5EQ

# Infiltration Test to BRE365 - SA2 - TEST 1

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 0.78                        |
|      | 1.25               | 75.00              | 0.78                        |
|      | 3.15               | 189.00             | 0.78                        |
|      | 7.62               | 457.00             | 0.79                        |
|      | 77.98              | 4679.00            | 0.81                        |
|      | 119.62             | 7177.00            | 0.82                        |
|      | 197.93             | 11876.00           | 0.85                        |
|      | 240.93             | 14456.00           | 0.86                        |
|      | 309.38             | 18563.00           | 0.88                        |

Location: SA2

TEST 1

Weather: Sunny

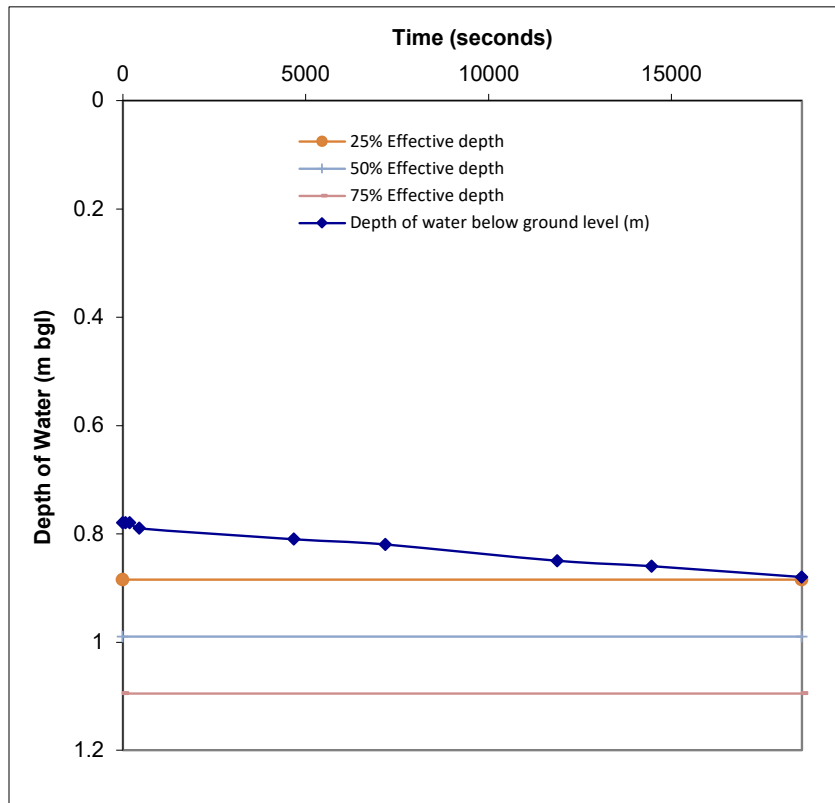
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER

|             |                                                                                                            |                     |
|-------------|------------------------------------------------------------------------------------------------------------|---------------------|
| 1.300m      | SA2 - 1.20 m depth<br>Assume invert level<br>of incoming drain is<br>0.78m bgl. Effective<br>depth = 0.42m | Pit Depths (m bgl)  |
|             |                                                                                                            | Length              |
|             |                                                                                                            | 1.30                |
|             |                                                                                                            | Width               |
|             |                                                                                                            | 0.30                |
|             |                                                                                                            | Depth               |
|             |                                                                                                            | 1.20                |
|             |                                                                                                            | 25% Effective Depth |
|             |                                                                                                            | 0.89                |
|             |                                                                                                            | 75% Effective Depth |
| 1.10        |                                                                                                            |                     |
| Inlet Depth |                                                                                                            |                     |
| 0.78        |                                                                                                            |                     |
|             | 0.300m                                                                                                     |                     |

Invert Level of incoming pipe (m): 0.78



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth

$$1.30 \times 0.30 \times (1.095 - 0.885) = 0.0819$$

$$ap_{50} = \text{internal area of TP upto 50\% effective depth + base of TP} \\ 2(1.30 \times ) + 2(0.30 \times ) + (1.30 \times 0.30) = 1.062$$

$$tp_{75-25} = \text{the time for water level to fall from 75\% - 25\% effective depth} \\ = 0 \text{ secs}$$

f= **Failed** m/s

## Comment

Infiltration test terminated after c.4hrs due to failure to reach 25% in the allowed time.



Client: Nick Davies & Emma Turtle  
 Project No: P25-207  
 Project: Land North of Seagry Road, Great Somerford  
 SN15 5EQ

# Infiltration Test to BRE365 - SA3 - TEST 1

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 1.74                        |
|      | 2.15               | 129.00             | 1.75                        |
|      | 48.27              | 2896.00            | 1.75                        |
|      | 87.12              | 5227.00            | 1.76                        |
|      | 164.30             | 9858.00            | 1.77                        |
|      | 208.35             | 12501.00           | 1.76                        |
|      | 276.07             | 16564.00           | 1.78                        |

Location: SA3

TEST 1

Weather: Sunny

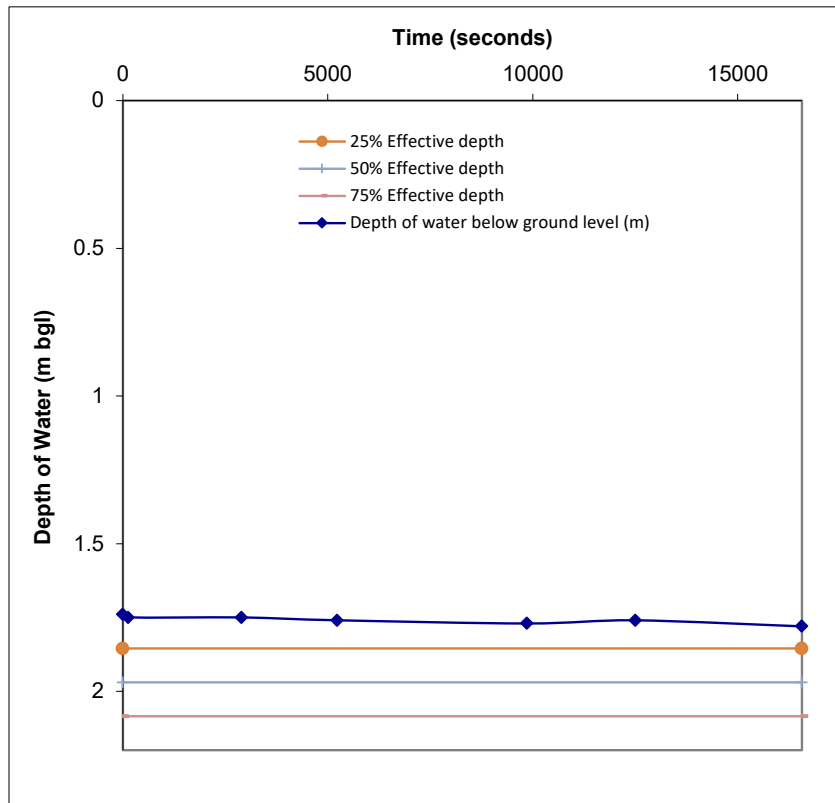
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER

|             |                                                                                                            |                     |
|-------------|------------------------------------------------------------------------------------------------------------|---------------------|
| 1.600m      | SA3 - 2.20 m depth<br>Assume invert level<br>of incoming drain is<br>1.74m bgl. Effective<br>depth = 0.46m | Pit Depths (m bgl)  |
|             |                                                                                                            | Length              |
|             |                                                                                                            | 1.60                |
|             |                                                                                                            | Width               |
|             |                                                                                                            | 0.30                |
|             |                                                                                                            | Depth               |
|             |                                                                                                            | 2.20                |
|             |                                                                                                            | 25% Effective Depth |
|             |                                                                                                            | 1.86                |
|             |                                                                                                            | 75% Effective Depth |
| 2.09        |                                                                                                            |                     |
| Inlet Depth |                                                                                                            |                     |
| 1.74        |                                                                                                            |                     |
|             | 0.300m                                                                                                     |                     |

Invert Level of incoming pipe (m): 1.74



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth  
 $1.60 \times 0.30 \times (2.085 - 1.855)$   
 = **0.1104**

$ap_{50}$  = internal area of TP upto 50% effective depth + base of TP  
 $2(1.60 \times ) + 2(0.30 \times ) + (1.60 \times 0.30)$   
 = **1.354**

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth  
 = **0** secs

f= **Failed** m/s

## Comment

Infiltration test terminated after c.4hrs due to failure to reach 25% in the allowed time.



Client: Nick Davies & Emma Turtle  
 Project No: P25-207  
 Project: Land North of Seagry Road, Great Somerford  
 SN15 5EQ

# Infiltration Test to BRE365 - SA4 - TEST 1

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 1.22                        |
|      | 1.27               | 76.00              | 1.22                        |
|      | 2.82               | 169.00             | 1.23                        |
|      | 4.87               | 292.00             | 1.23                        |
|      | 31.03              | 1862.00            | 1.23                        |
|      | 66.82              | 4009.00            | 1.24                        |
|      | 143.82             | 8629.00            | 1.24                        |
|      | 188.05             | 11283.00           | 1.24                        |
|      | 238.15             | 14289.00           | 1.25                        |

Location: SA4

TEST 1

Weather: Sunny

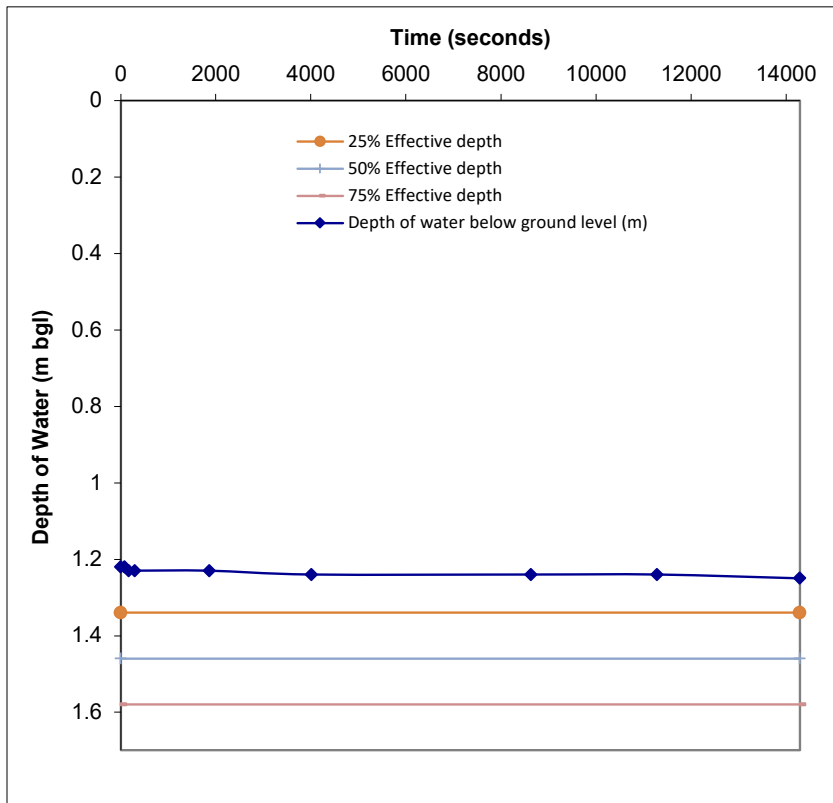
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER

|             |                                                                                                            |                     |
|-------------|------------------------------------------------------------------------------------------------------------|---------------------|
| 1.700m      | SA4 - 1.70 m depth<br>Assume invert level<br>of incoming drain is<br>1.22m bgl. Effective<br>depth = 0.48m | Pit Depths (m bgl)  |
|             |                                                                                                            | Length              |
|             |                                                                                                            | 1.70                |
|             |                                                                                                            | Width               |
|             |                                                                                                            | 0.30                |
|             |                                                                                                            | Depth               |
|             |                                                                                                            | 1.70                |
|             |                                                                                                            | 25% Effective Depth |
|             |                                                                                                            | 1.34                |
|             |                                                                                                            | 75% Effective Depth |
| 1.58        |                                                                                                            |                     |
| Inlet Depth |                                                                                                            |                     |
| 1.22        |                                                                                                            |                     |
|             | 0.300m                                                                                                     |                     |

Invert Level of incoming pipe (m): 1.22



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth  
 $1.70 \times 0.30 \times (1.58 - 1.34)$   
 = **0.1224**

$ap_{50}$  = internal area of TP upto 50% effective depth + base of TP  
 $2(1.70 \times ) + 2(0.30 \times ) + (1.70 \times 0.30)$   
 = **1.47**

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth  
 = **0** secs

f= **Failed** m/s

## Comment

Infiltration test terminated after c.4hrs due to failure to reach 25% in the allowed time.



Client: Nick Davies & Emma Turtle  
 Project No: P25-207  
 Project: Land North of Seagry Road, Great Somerford  
 SN15 5EQ

# Infiltration Test to BRE365 - SA5 - TEST 1

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 0.38                        |
|      | 1.13               | 68.00              | 0.40                        |
|      | 2.67               | 160.00             | 0.41                        |
|      | 3.62               | 217.00             | 0.42                        |
|      | 14.68              | 881.00             | 0.47                        |
|      | 20.01              | 1200.50            | 0.48                        |
|      | 46.63              | 2798.00            | 0.56                        |
|      | 73.28              | 4397.00            | 0.60                        |
|      | 136.58             | 8194.62            | 0.70                        |

Location: SA5

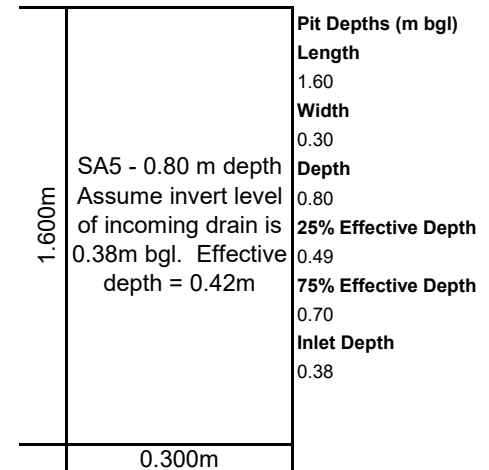
TEST 1

Weather: Sunny

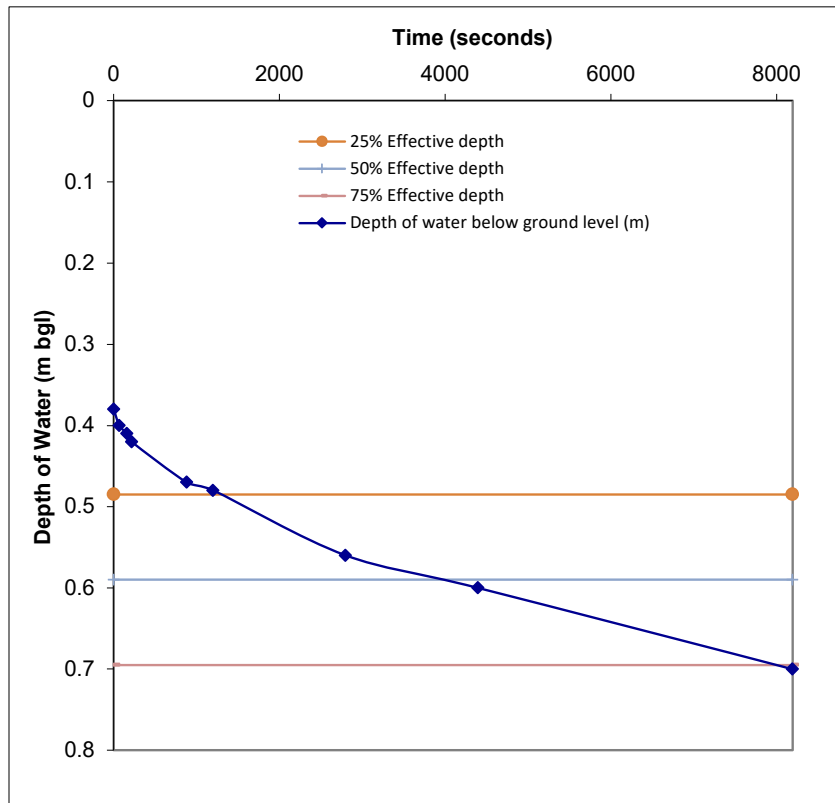
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER



Invert Level of incoming pipe (m): 0.38



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth  
 $1.60 \times 0.30 \times (0.695 - 0.485)$   
 = **0.1008**

$ap_{50}$  = internal area of TP upto 50% effective depth + base of TP  
 $2(1.60 \times ) + 2(0.30 \times ) + (1.60 \times 0.30)$   
 = **1.278**

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth  
 = **6994** secs

f = **1.13E-05** m/s

Comment

## Infiltration Test to BRE365 - SA5 - TEST 2

### Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 0.40                        |
|      | 10.28              | 617.00             | 0.43                        |
|      | 13.70              | 822.00             | 0.44                        |
|      | 47.78              | 2867.00            | 0.50                        |
|      | 88.65              | 5319.00            | 0.58                        |
|      | 175.49             | 10529.50           | 0.70                        |

**Location:** SA5

**TEST 2**

**Weather:** Sunny

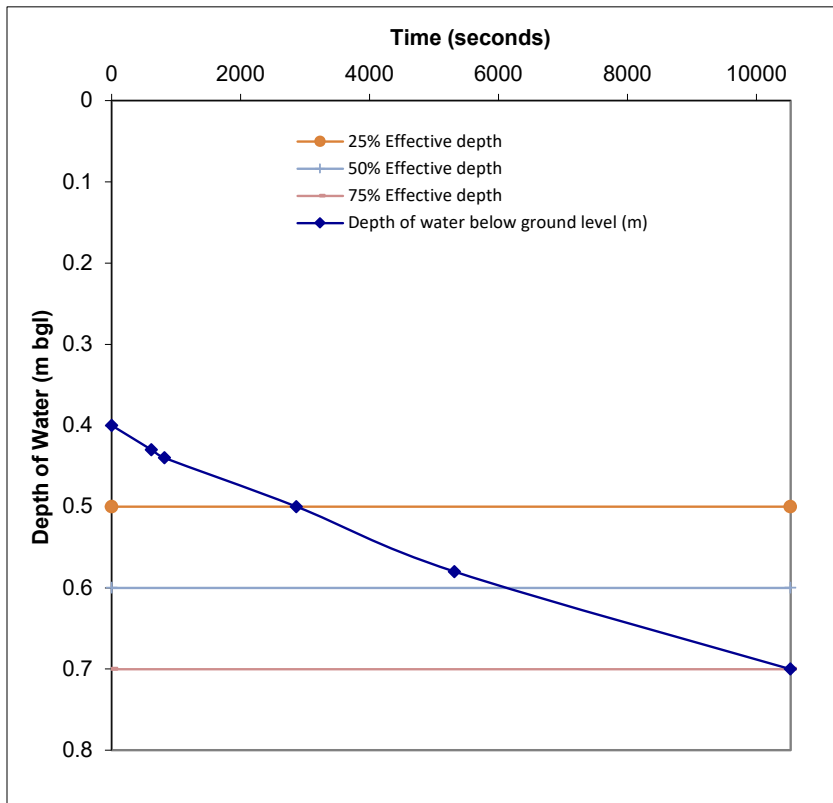
**Engineer:** EA

**Date:** 05/08/2025

**Strata Tested** KELLAWAYS SAND MEMBER

|             |                                                                                                          |                     |
|-------------|----------------------------------------------------------------------------------------------------------|---------------------|
| 1.600m      | SA5 - 0.80 m depth<br>Assume invert level<br>of incoming drain is<br>0.4m bgl. Effective<br>depth = 0.4m | Pit Depths (m bgl)  |
|             |                                                                                                          | Length              |
|             |                                                                                                          | 1.60                |
|             |                                                                                                          | Width               |
|             |                                                                                                          | 0.30                |
|             |                                                                                                          | Depth               |
|             |                                                                                                          | 0.80                |
|             |                                                                                                          | 25% Effective Depth |
|             |                                                                                                          | 0.50                |
|             |                                                                                                          | 75% Effective Depth |
| 0.70        |                                                                                                          |                     |
| Inlet Depth |                                                                                                          |                     |
| 0.40        |                                                                                                          |                     |
|             | 0.300m                                                                                                   |                     |

Invert Level of incoming pipe (m): 0.40



### CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth

$$1.60 \times 0.30 \times (0.7 - 0.5) = 0.096$$

$$ap_{50} = \text{internal area of TP upto 50\% effective depth + base of TP} \\ 2(1.60 \times 0.30) + 2(0.30 \times 0.30) + (1.60 \times 0.30) = 1.24$$

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth

$$= 7663 \text{ secs}$$

$$f = 1.01E-05 \text{ m/s}$$

**Comment**

# Infiltration Test to BRE365 - SA5 - TEST 3

## Field Data

| Time | Time Elapsed (min) | Time Elapsed (sec) | Depth of Water below GL (m) |
|------|--------------------|--------------------|-----------------------------|
|      | 0.00               | 0.00               | 0.38                        |
|      | 1.85               | 111.00             | 0.39                        |
|      | 11.50              | 690.00             | 0.43                        |
|      | 32.60              | 1956.00            | 0.47                        |
|      | 39.68              | 2380.80            | 0.49                        |
|      | 44.40              | 2664.00            | 0.50                        |
|      | 84.30              | 5058.00            | 0.55                        |
|      | 88.72              | 5323.00            | 0.56                        |
|      | 148.34             | 8900.50            | 0.70                        |

Location: SA5

TEST 3

Weather: Sunny

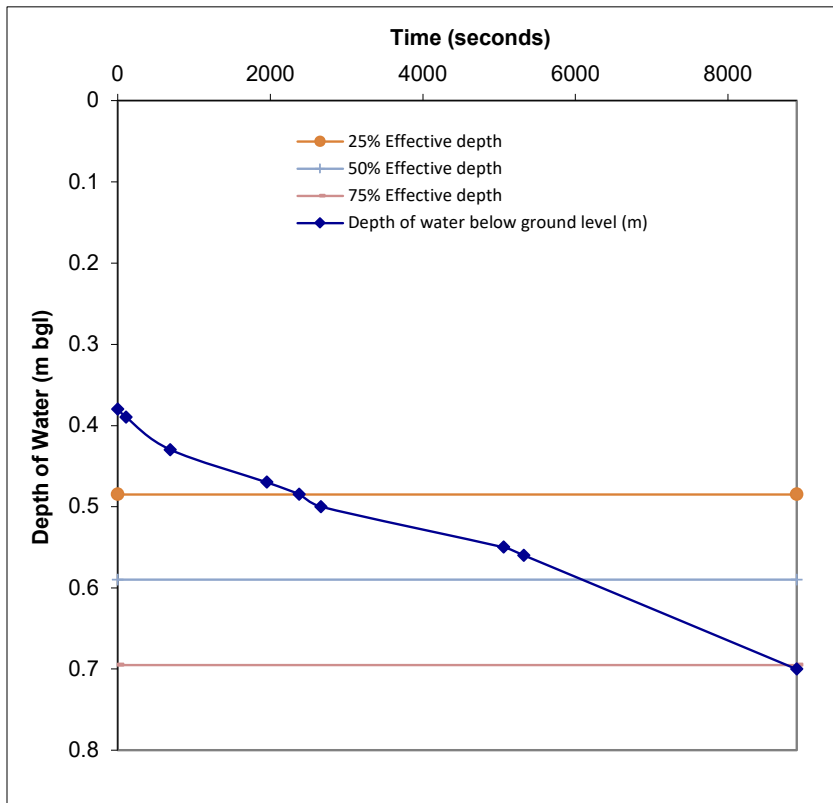
Engineer: EA

Date: 05/08/2025

Strata Tested KELLAWAYS SAND MEMBER

|             |                                                                                                            |                     |
|-------------|------------------------------------------------------------------------------------------------------------|---------------------|
| 1.600m      | SA5 - 0.80 m depth<br>Assume invert level<br>of incoming drain is<br>0.38m bgl. Effective<br>depth = 0.42m | Pit Depths (m bgl)  |
|             |                                                                                                            | Length              |
|             |                                                                                                            | 1.60                |
|             |                                                                                                            | Width               |
|             |                                                                                                            | 0.30                |
|             |                                                                                                            | Depth               |
|             |                                                                                                            | 0.80                |
|             |                                                                                                            | 25% Effective Depth |
|             |                                                                                                            | 0.49                |
|             |                                                                                                            | 75% Effective Depth |
| 0.70        |                                                                                                            |                     |
| Inlet Depth |                                                                                                            |                     |
| 0.38        |                                                                                                            |                     |
|             | 0.300m                                                                                                     |                     |

Invert Level of incoming pipe (m): 0.38



## CALCULATION:

Soil Infiltration Rate(f) =  
 $V_{p75-25} / (ap_{50} \times tp_{75-25})$

Where:

$V_{p75-25}$  = effective storage volume between 75% and 25% effective depth  
 $1.60 \times 0.30 \times (0.695 - 0.485)$   
 = **0.1008**

$ap_{50}$  = internal area of TP upto 50% effective depth + base of TP  
 $2(1.60 \times ) + 2(0.30 \times ) + (1.60 \times 0.30)$   
 = **1.278**

$tp_{75-25}$  = the time for water level to fall from 75% - 25% effective depth  
 = **6520** secs

f = **1.21E-05** m/s

Comment

## APPENDIX E

### Site Photographs



Photo of the site facing north



Photo of the site facing east



**Photo of the site facing south**



**Photo of the site facing southwest**



Photo of SA1



Photo of SA1 arisings



Photo of SA2



Photo of SA2 arisings



Photo of SA3



Photo of SA3 arisings



**Photo of SA4**



**Photo of SA4 arisings**



**Photo of SA4 extended**



**Photo of SA4 with standpipe installed**



Photo of SA5



Photo of SA5 arisings

# Appendix 7

**Our ref:** PL53735

**Site address:** Land North of Seagry Road

**Development:** 8 Houses

Thank you for your online pre planning enquiry submission. Please find attached a map showing the approximate location of our services near the site.

Wessex Water can advise the following.

**Existing assets**

There are no known Wessex Water assets within the development site.

**Surface water drainage**

Surface water must be disposed of via the SuDS Hierarchy which is subject to Building Regulations and NPPF.

No surface water runoff, land drainage or ground water will be accepted into a public sewer that carries sewerage, either directly or indirectly. Our rainwater drainage policy can be found on our [website](#).

The National Planning Policy Framework (NPPF) mandates that Sustainable Drainage Systems (SuDS) must be incorporated into new developments to manage surface water runoff, mitigate flood risks, and provide additional benefits, including enhanced water quality and green spaces

In line with the drainage hierarchy outlined in Approved Document H of the Building Regulations, Planning Practice Guidance, and the necessity to address water scarcity, all surface water runoff should aim to be discharged as high up the surface water discharge hierarchy as feasible.

Defra have announced new national standards for SuDS. The national surface water hierarchy has been updated and runoff from the development shall be discharged to the following final destinations, to the maximum extent practicable, in accordance with the below hierarchy:

- collected for non-potable use (water re-use)
- infiltrated to ground
- discharged to an above ground surface water body
- discharged to a surface water sewer, or another piped surface water drainage system

Note: To utilise a lesser priority final destination, appropriate evidence shall be provided that demonstrates all higher priority final destinations have been utilised to the maximum extent practicable. Higher cost alone shall not be a reason to utilise lower priority final destinations.

Review of the mapping indicates that you are in an area of moderate suitability for infiltration and many neighbouring properties successfully utilise soakaway. It is recommended that Surface Water is discharged via infiltration / soakaway.

Surface Water Discharge Strategy to be agreed with the Lead Local Flood Authority (LLFA)

The developer is required to undertake soakaway testing in line with the legislative requirements.

If you are offering the shared drainage for Section 104 adoption please refer to the Sewerage Sector Guidance [Sector guidance on sewerage and water adoption agreements](#)

### **Foul drainage**

Wessex Water will accommodate domestic type foul flows in the public foul sewer with connections made on a size for size basis, Developers fund the cost of connecting to the nearest 'size for size' sewer and Wessex Water will manage the sewer network to accommodate foul flows from granted development. We fund this through our infrastructure charging arrangements.

The nearest suitable size for size point of discharge is the 150mm Public foul Sewer in the road to the South East of the development site. Connection can be made via manhole ref: ST96823501 – FWMH 3501 as shown on the attached map.

Cover Level (m AOD): 62.671

Lowest Invert (m AOD): 61.201

The point of connection to the public foul network is by application and agreement only.

Separated systems of drainage are required: Wessex Water will not accept surface water or land drainage flows to the public foul sewer and treatment works, either directly or indirectly.

### **Water Supply**

Wessex Water will provide a point of connection for new water mains to be laid into the development site, either through a Section 41 agreement or a self-lay arrangement.

There is 3" Water distribution main located in the road to the South East of the development site from which a suitable point of connection could be made.

Developers may connect to our water network on a size for size basis at their cost and Wessex Water will undertake any network reinforcement that may be required to accommodate granted development, this is funded through our infrastructure charging arrangements.

For more details and guidance for applying to connect to our networks please see our website:

<https://www.wessexwater.co.uk/services/building-and-developing/building-multiple-properties-or-largedevlopments>

For further assistance please contact Planning Liaison via [planning.liaison@wessexwater.co.uk](mailto:planning.liaison@wessexwater.co.uk)

**Note:** These comments are based upon known circumstances prevailing at the time of writing. A review of the contents of this email is required where 18 months or more have elapsed since issue or in the light of significant changes likely to impact upon the response (e.g. changes in development numbers or phasing). Please email review requests to [planning.liaison@wessexwater.co.uk](mailto:planning.liaison@wessexwater.co.uk)

Kind regards

**Camilla Wharton**

Planning Liaison Technician



**Wessex Water**

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