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21<sup>st</sup> May 2021

### **Soakaway tests at The Old Vicarage, Asthall, Burford – GI1742**

Geotechnical Investigations Limited (this Company) was instructed by Amanda Hanley on behalf of Mr & Mrs Wait (the Client) to undertake a site investigation at the above site.

The sitework was conducted on 20<sup>th</sup> May 2021 and comprised the formation of two trial pits with associated soakaway tests, referenced TP01 & TP02.

The exploratory hole locations were set out by this company and were formed using a 1.5T Takeuchi tracked excavator, supplied and operated by Nigel Cox Builders, using a 0.50m wide bucket.

Prior to excavation, a review of the services was undertaken and a scan of the area using a CAT (cable avoidance tool) was carried out by this company.

Arisings from TP01 & TP02 were logged at surface by an engineering geologist and the descriptions are presented on the respective logs.

Photographs of the trial pits were taken prior to soakaway testing and are attached to this letter.

The exploratory hole locations are shown in figure 1.

A supply of clean rainwater from the existing disused swimming pool was used, which was pumped using a 2" petrol pump, provided and operated by Nigel Cox Builders.

The trial pits were rapidly filled with water and the soakaway tests were then conducted in general accordance with BRE DG 365 (2016). A single test was undertaken at each location and the trial pit sides remained stable throughout the tests. The results of the test are attached.

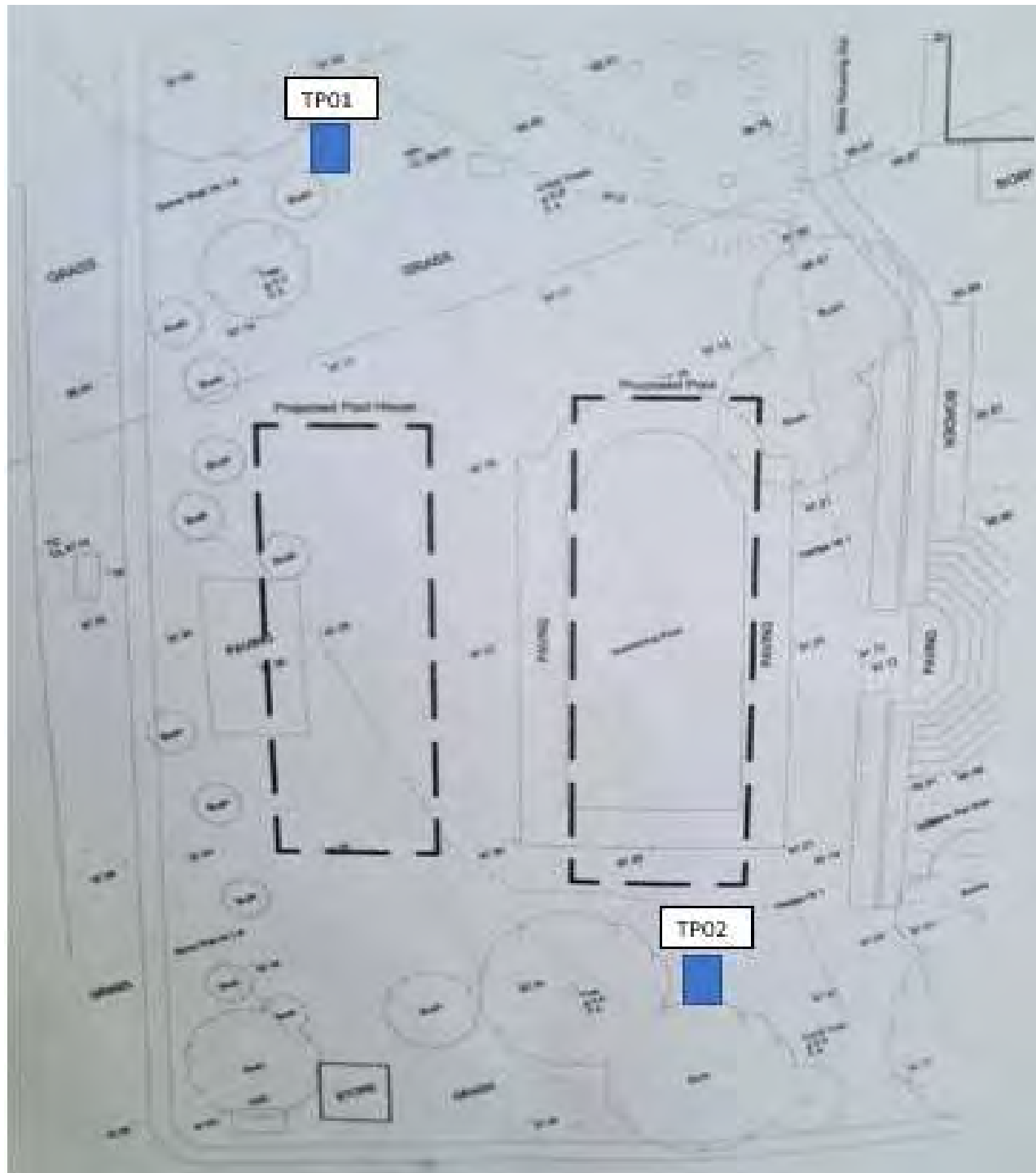
On completion of the tests the trial pits were backfilled and the surface was made good by Nigel Cox Builders.

This written report has been prepared by Geotechnical Investigations Limited solely for the benefit of Amanda Hanley By Design Ltd. It shall not be relied upon or transferred to any third party without the prior written authorisation of Geotechnical Investigations Limited.



**Robert Ewens BSC (Hons) PGC FGS**

**Director**



**GEOTECHNICAL  
INVESTIGATIONS  
LIMITED**

<b>CLIENT</b>	Amanda Hanley By Design Ltd
<b>SITE</b>	The Old Vicarage, Asthall, Burford
<b>CONTRACT</b>	GI1742
<b>Figure 1.</b>	<b>NOT TO SCALE</b>



**GEOTECHNICAL  
INVESTIGATIONS  
LIMITED**

**Soakaway Test**

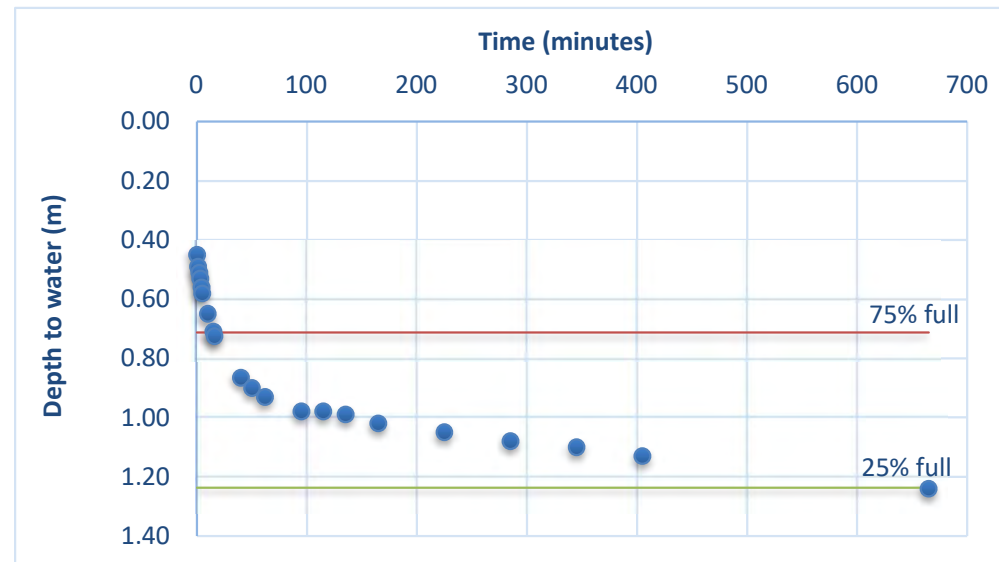
**CLIENT** Amanda Hanley By Design Ltd  
**SITE** The Old Vicarage, Asthall, Burford  
**CONTRACT** 1742  
**DATE** 20/05/2021  
**HOLE ID** TP01

**TEST 1**

**LENGTH** 1.70 m  
**BREADTH** 0.55 m  
**DEPTH** 1.50 m  
**WATER LEVEL PRE TEST** Dry  
**FILL LEVEL To 100%** 0.45 m

**V<sub>p75-25</sub>** 0.49 m<sup>3</sup>  
**a<sub>p50</sub>** 3.30 m<sup>2</sup>  
**t<sub>p75-25</sub>** 643.9 min

**soil infiltration rate, f =** 0.39 x 10<sup>-5</sup> ms<sup>-1</sup>



**Remarks** Soakaway test carried out in general accordance with BRE DG 365 (2016).

<b>Geological Description (BS5930 2015)</b>	0.00-0.40m	MADE GROUND: Dark brown sandy SILT with occasional subangular fine to coarse limestone gravel. Roots up to 30mm.
	0.40-1.25m	MADE GROUND: Firm friable brown slightly sandy slightly gravelly CLAY with occasional limestone cobbles and 1No dressed limestone boulder and 1No brick. Gravel is angular medium to coarse limestone.
	1.25-1.50m	Reddish-brown and orangish-brown slightly silty slightly gravelly SAND. Gravel is subangular fine to medium limestone.



# GEOTECHNICAL INVESTIGATIONS LIMITED

## Soakaway Test

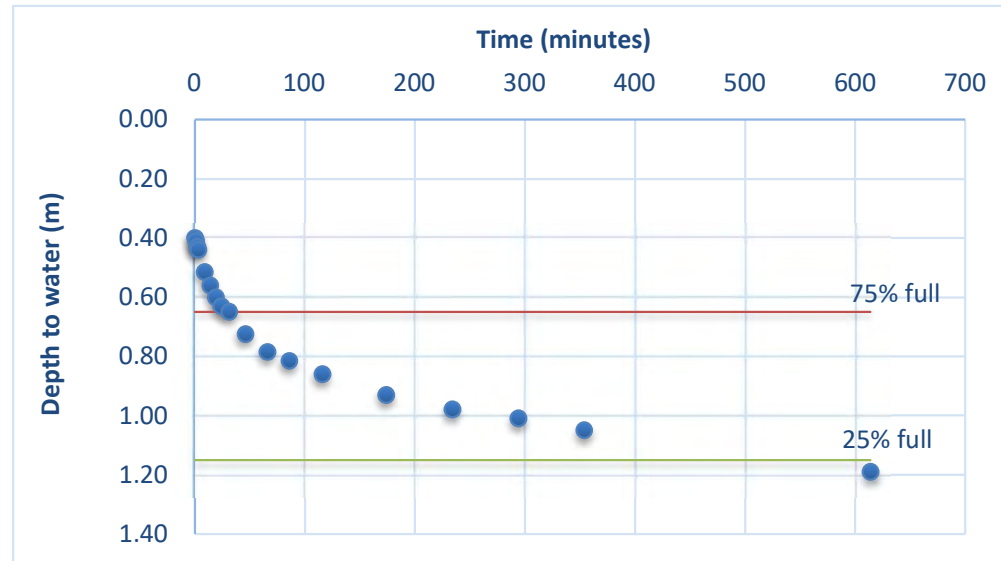
**CLIENT** Amanda Hanley By Design Ltd  
**SITE** Tha Old Vicarage, Asthall, Burford  
**CONTRACT** 1742  
**DATE** 20/05/2021  
**HOLE ID** TP01

### TEST 1

**LENGTH** 1.60 m  
**BREADTH** 0.55 m  
**DEPTH** 1.40 m  
**WATER LEVEL PRE TEST** Dry  
**FILL LEVEL To 100%** 0.40 m

**V<sub>p75-25</sub>** 0.44 m<sup>3</sup>  
**a<sub>p50</sub>** 3.03 m<sup>2</sup>  
**t<sub>p75-25</sub>** 508.7 min

**soil infiltration rate, f =** 0.48 x 10<sup>-5</sup> ms<sup>-1</sup>



### Remarks

Soakaway test carried out in general accordance with BRE DG 365 (2016).

### Geological Description (BS5930 2015)

0.00-0.40m	MADE GROUND: Dark brown sandy SILT with occasional subangular fine to coarse limestone gravel. Roots up to 30mm.
0.40-0.85m	Firm friable brown slightly sandy slightly gravelly CLAY with occasional limestone cobbles. Gravel is angular medium to coarse limestone. Probably made ground?
0.85-1.40m	Reddish-brown and orangish-brown slightly silty slightly gravelly SAND. Gravel is subangular fine to medium limestone.



**GEOTECHNICAL**  
**INVESTIGATIONS**  
L I M I T E D

CLIENT: Amanda Hanley By Design Ltd  
SITE: The Old Vicarage, Asthall, Burford  
CONTRACT NUMBER: GI1742



GI1742 TP01.01 1.50m



GI1742 TP01.02 1.50m





GI1742 TP01.03 1.50m



GI1742 TP02.01 1.40m



GI1742 TP02.02 1.40m



GI1742 TP02.03 1.40m