

Ground and Environmental Services Limited

Unit 2 Montpelier Business Park Dencora Way Ashford Kent TN23 4FG 01233 646237

Rob Fountain

Date: 4th April 2024

Our ref: 13249

Dear Rob,

RE: 58 Albany Park Road, Kingston-Upon-Thames

Introduction

Ground and Environmental Services Ltd (GES) was commissioned by Rob Fountain to undertake soakage testing to the rear of 58 Albany Park Road.

The purpose of the ground investigation was to carry out soakage testing in order to obtain infiltration characteristics for use in assessing the feasibility of adopting shallow soakaways.

This report specifically excludes comment or advice with regards to contaminated land or pollution related issues.

Fieldwork

The site works were carried out on the 3rd April 2024 and comprised the following:

BRE DG365 Soakage Testing:

Trial Pitting

One trial pit SP1 was excavated to a depth of 1.53m begl by hand prior to the arrival of a GES engineer.

Soakage Testing

Infiltration testing was carried out in the trial pit(SP1) using water pumped from a 2000L water bowser. The test was carried out in accordance with the methodology given in BRE DG365 'Soakaway design' and comprised discharging water into the trial excavation and monitoring the fall in water level against time.

The results are appended and are summarised below:

Page 2 of 2

Trial Pit ID	Test No	Test Depth (m)	Test duration (minutes)	Volume of water drained (%)	Infiltration rate (m/s)	Comment
SP 1	1	0.84 – 1.53	84	76	2.96 x 10 ⁻⁵	Moderate to Good Infiltration potential – complete test
SP 1	2	0.91 – 1.53	78	152	2.04 x 10 ⁻⁵	Moderate Infiltration potential – complete test
SP 1	3	0.815 – 1.53	108	139	1.99 x 10 ⁻⁵	Moderate Infiltration potential – complete test

We trust that this is satisfactory and addresses your requirements, but should you have any queries please do not hesitate to contact this office. We look forward to hearing from you in the near future.

Yours sincerely,

Steve Perham Senior Site Technician Ground and Environmental Services Limited

Enc: Trial Pit Log Soakage Test Results



Ground and Environmental Services Limited Unit 2 Montpelier Business Park Tel: 01233 646237 Tel: 01233 646237

Trial Pit No. SP 1

75	Der Ker	ncora Wa nt TN23	ay, Ashford 4FG			Sheet: 1 of 1									
Equipment & Methods.					Project Name: 58 Albany Park Road		Job No:								
2000L water bow	serBack	kfill: Left	t open		Project Location: Kingston-Upon-Thames	13249									
					Client: Rob Fountain										
Co-ordinates:					Ground Level (m):	Date Started:03/04/2024									
E: N:						Date Completed:03/04/2024	4								
Samples	and In s	situ Tes	ting				Reduced Level		Depth (Thick)						
Depth	No.	Туре	Result	Field Records	DESCRIPTION		(m)	Legend	(m)						
(m)					MADE GROUND : Turf and topsoil			XXXXX							
					IMADE GROOND : Tull and topson										
-								\bowtie	(0.20)						
-					MADE GROUND : Soft to firm grey brown sl clay. Gravel is subangular to angular fine to	ightly gravelly very sandy	-0.20		_ 0.20						
					clay. Gravel is subangular to angular fine to	coarse of flint and brick									
-															
_								\bowtie	_						
_									ļ.						
-									(0.85)						
								\bowtie	(0.00)						
-									F						
-															
_															
_								\bowtie	<u> </u>						
					MADE GROUND : Dark grey/black layer of a	-1.05		1.05							
-					fragments	aophair and raio metai		\bowtie	}						
-									(0.35)						
-															
-							-1.40	\bowtie	1.40						
					Soft to firm brown slightly gravelly sandy CL fine to coarse flint	AY. Gravel is subangular			(0.12)						
_							4.50		(0.13)						
							-1.53	<u> </u>	1.53						
							(Thickr	f Trial Pit 1 ness of bas	al layer						
								not proven)						
Pomorko	Remarks:														
BRE DG365 Infili	ration te	est unde	ertaken			Logged SP		Checked By: PAD							
							Scale:		oved By:						
							1:10								
Notos: For ovalo	notion -	forms -	olo and abbre	viations, soo Koy SI	agent .		FIG No).							

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GROUND AND ENVIRONMENTAL SERVICES LIMITED

Unit 2 Montpelier Business Park, Dencora Way, Ashford, Kent TN23 4FG TEL: 01233 646237

SOAKAWAY TESTING

Test in accordance with BRE 365 Guidelines

Project Number: 13249 **Client:** Rob Fountain

SP1 Test 1 of 3

Site: 58 Albany Park Road

Weather: Overcast with some light rain Date of Test: 03/04/2024

Trial Pit Dimensions:

 Width (m):
 1.05
 Length (m):
 1.05

 Depth (m):
 1.53
 Invert Depth (m):
 0.84

Drainage time of test (mins): 84 (72% Drained)

Soakage Results:

Counage	ittoduito.																						
Depth	(%)	Time	20	° ==																			
0.84	100.00%	0	18	ه ا																			
0.88	94.20%	1																					
0.93	86.96%	3	16	0	$\overline{}$																		
1	76.81%	7	14																				
1.083	64.78%	15	14																				
1.126	58.55%	22	12	0 =																			
1.157	54.06%	28	mins)																				
1.215	45.65%	43	Time (mins)	° 🔚				1															=
1.266	38.26%	60	- 8	۰					X														
1.335	28.26%	84								1													
			6	٥ 🗀							*												
			4	。⊨																			
			2	۰=																			
1.53				ه ا														$\overline{}$	•	_	•		
				0.00%	10.	.00%	20.	.00%	30.	00%	40.	00%	50.0	00%	60.0	00%	70.	00%	80.0	00%	90.0	10%	100

Infiltration rate:

Depth (B.G.L) Infiltration Rate
(m) (m/s)

0.84 - 1.53 2.96E-05

Capacity

Departures from the specified test method:

Remarks: Moderate to Good Infiltration potential

Authorised Signatory: P.A.V.Pay—e Date: 04/04/2024



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SOAKAWAY TESTING

Test in accordance with BRE 365 Guidelines

Project Number: 13249 **Client:** Rob Fountain

SP1 Test 2 of 3

Site: 58 Albany Park Road

Weather: Overcast with some light rain Date of Test: 03/04/2024

Trial Pit Dimensions:

 Width (m):
 1.05
 Length (m):
 1.05

 Depth (m):
 1.53
 Invert Depth (m):
 0.91

Drainage time of test (mins): 152 (79% Drained)

Soakage Results:

Ocarage	itcouito.																						
Depth	(%)	Time	20	· —																			
0.91	100.00%	0	18																				
0.96	91.94%	5	10	"		_																	
1.032	80.32%	15	16	•																			
1.07	74.19%	24						1															
1.112	67.42%	33	14	"																			
1.153	60.81%	44	12	. =					_	•													
1.215	50.81%	64	Time (mins)																				
1.28	40.32%	92	ш) ₁₀																				
1.34	30.65%	122	8	, =																			
1.4	20.97%	152											1										
			6																				
			4	, =																			
																	1						
			2																				
1.53				, <u> </u>																		•	
				0.00%	10.0	00%	20.0	00%	30.	00%	40.0	00%	50.0		60.0	00%	70.0	00%	80.0	00%	90.0	00%	100.0
													Capac	ity									

Infiltration rate:

Depth (B.G.L) Infiltration Rate
(m) (m/s)

0.91 - 1.53 2.04E-05

Departures from the specified test method:

Remarks: Moderate Infiltration potential

Authorised Signatory: P. A. V. Pay Date: 04/04/2024



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SOAKAWAY TESTING

Test in accordance with BRE 365 Guidelines

Project Number: 13249 Client: Rob Fountain

SP1 Test 3 of 3

Site: 58 Albany Park Road

Weather: **Date of Test:** Overcast with some light rain 03/04/2024

Trial Pit Dimensions:

Width (m): Length (m): 1.05 1.05 Depth (m): 1.53 Invert Depth (m): 0.815

(73% Drained) Drainage time of test (mins): 139

Soakage Results:

Suakaye	Results.																							
Depth	(%)	Time		300 -																				_
0.815	100.00%	0																						
0.858	93.99%	3																						_
0.95	81.12%	14		250 -																				
1.057	66.15%	34																						
							_																	_
1.117	57.76%	49		200 -	\vdash		1													\vdash	\vdash			_
1.145	53.85%	57																						
1.21	44.76%	79	ins)																					
			Ē	150 -	\vdash																\vdash			
1.254	38.60%	99	Time (mins)							X											\vdash			_
1.295	32.87%	119																			\blacksquare			_
1.334	27.41%	139		100 -																				_
									_												\vdash			_
													_											=
					\vdash									-							\vdash			
				50 -												*								
																	_	•						
					\vdash																			_
1.53				0 -																		$\overline{}$	-	_
					00%	10.0	00%	20.0	00%	30.0	00%	40.0	00%	50.0	00%	60.0	0%	70.0	00%	80.0)0%	90.0	0%	10

Infiltration rate:

Depth (B.G.L) **Infiltration Rate** (m/s) (m) 0.815 - 1.53 1.99E-05

Departures from the specified test method:

Remarks: Moderate Infiltration potential

P. A. V. Pay - 8 **Authorised Signatory:** 04/04/2024 Date: