CCTV REPORT FOR: 28 DAMASK GARDENS
WATERLOOVILLE
PO7 8QZ

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Site Visit: 25-May-23
Report Date: 28-Jun-23

The Drainage Repair Company Ltd | Office 6 | Unit 14/4 Station Road | Coleshill | Birmingham | B46 1HT
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Registered in England & Wales Number: 08570351 | Registered Office: Bourne House, 475 Godstone Road, Whyteleafe, Surrey, CR3 0BL
www.thedrainagerepaircompany.com

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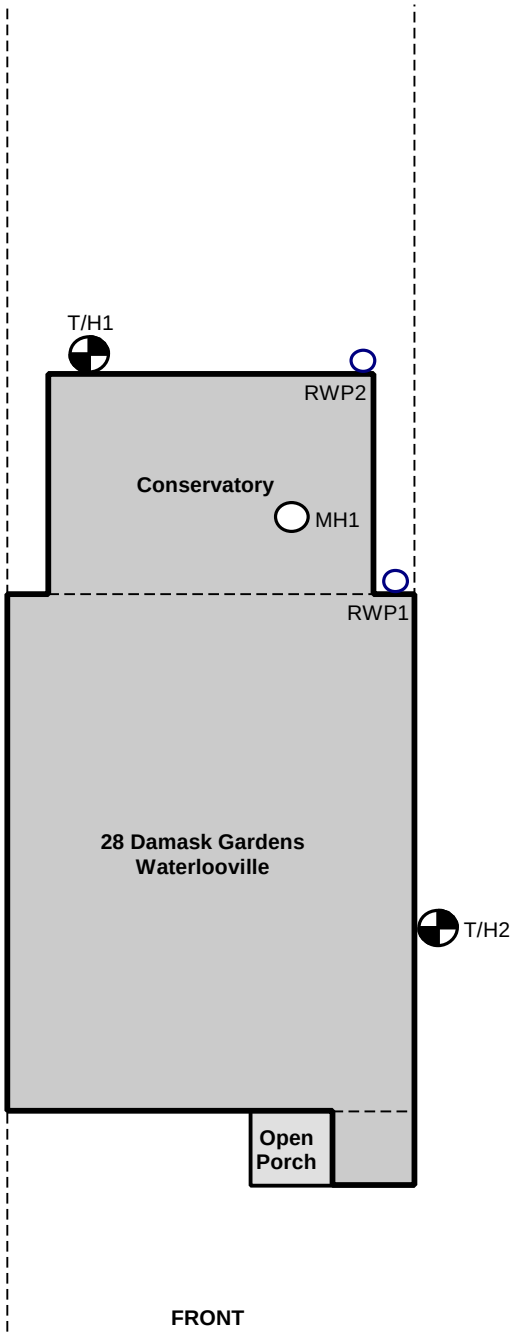
SITE LAYOUT

Site Crew: AJE	Date: 25-May-23



(This plan is not to be scaled and is provided to illustrate general layout only)

General Comments:

Note: Runs shown in red have been adopted by the local water authority.

Key : = Storm Gully = Storm Pipe = Foul Gully = W/C or Soil Pipe = Inspection Chamber
= Rodding Eye = Surveyed pipe indicating flow = Unsurveyed pipe
= Exploratory Hole (hand dug pit and/or hand auger) = Boundary line
= Hedges & Shrubs = Trees & bushes = Area of damage

Address: 28 DAMASK GARDENS, WATERLOOVILLE, PO7 8QZ

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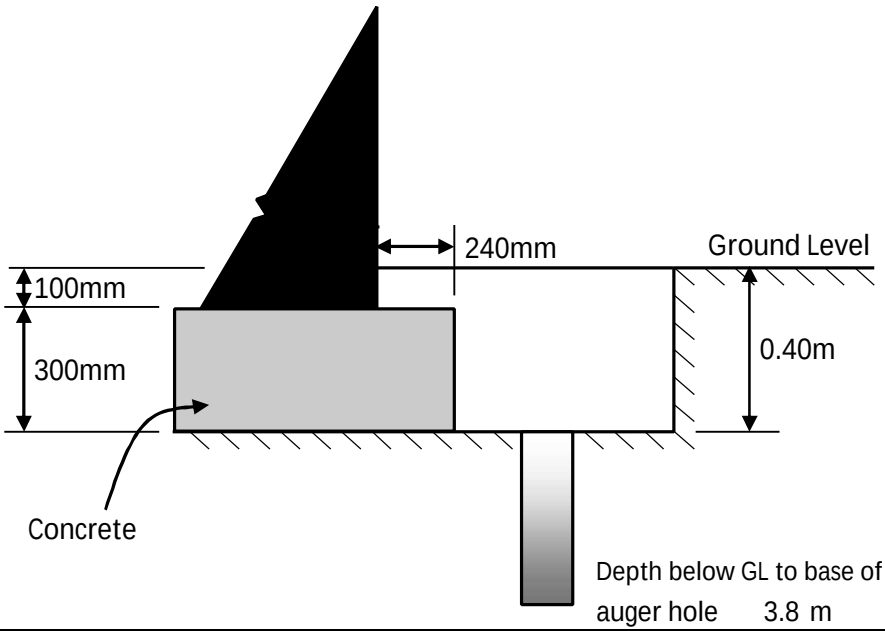
FOUNDATION RECORD

Location: Rear Left Corner of Conservatory		T/H No. 1
Ground Surface: Dry	Weather: Dry	Date: 25-May-23

Foundation Cross Section (Not to Scale)



Roots Depth & Diameter:
From 0.4m
Down to 3.4m
up to 10mm diameter

Water Depth Hit & Rise:
None observed on site

Reason for Termination:
Encountered obstruction
Stone / rock

Depth (m)	Soil Descriptions (NB: Field crew description only)	Test Type		Depth (m) From	Depth (m) To
G.L.					
0.40	Soft/firm brown CLAY with rare medium gravel (inc. brick) & roots	V(n)	34	0.400	
1.00	Soft/firm brown CLAY with rare medium gravel & roots	V(n)	52	0.500	
1.50	Soft/firm light grey/brown CLAY with rare medium gravel & rootlets	V(n)	70	1.000	
2.00	Firm/stiff grey/brown CLAY with rare medium gravel & rootlets	V(n)	88	1.500	
3.00	Firm/stiff grey/brown CLAY with rare medium gravel	V(n)	126	2.000	
3.80	End of Borehole	V(n)	140+	2.500	
		V(n)	140+	3.000	
	Photograph	V(n)	140+	3.500	

General Comments :

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

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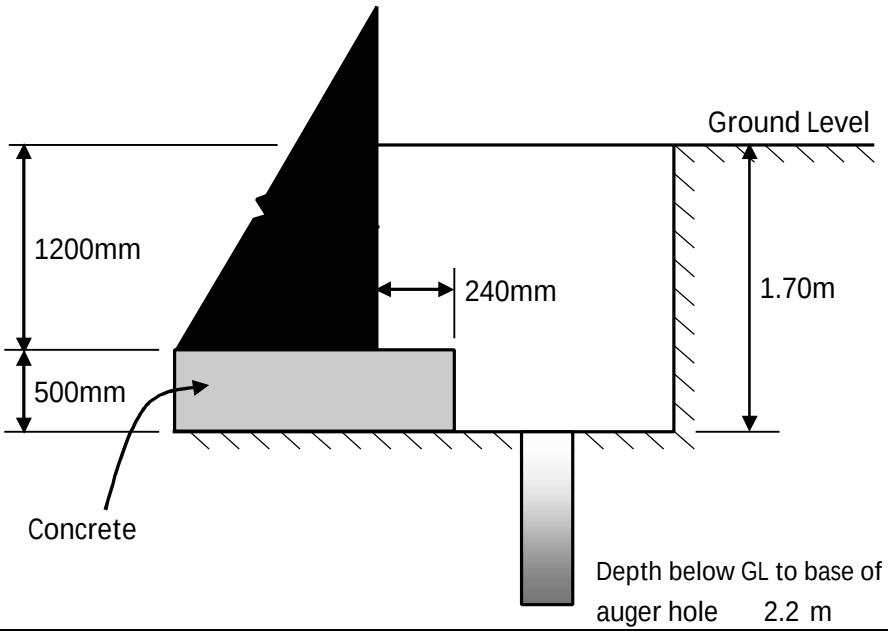
FOUNDATION RECORD

Location: Right Hand Side of House		T/H No. 2
Ground Surface: Dry	Weather: Dry	Date: 25-May-23

Foundation Cross Section (Not to Scale)



Roots Depth & Diameter:
None observed on site

Water Depth Hit & Rise:
Hit at 0.6m

Reason for Termination:
Suction

Depth (m)	Soil Descriptions (NB: Field crew description only)	Test Type	Depth (m) From	Depth (m) To
G.L.				
1.70	Soft brown CLAY with rare medium gravel			
2.20	End of Borehole			

Photograph

General Comments :
Difficult sample recovery due to suction pulling soils from auger.

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

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INVESTIGATION SUMMARY

EXECUTIVE SUMMARY

Brief:	The Drainage Repair Company Ltd were commissioned to undertake a CCTV survey / inspection of the drainage at the property.
Specific Area of Interest:	Accessible drainage at the rear of the property.
System Access:	Inspection chamber in conservatory.
Visual Survey:	N/A
Water Pressure Test:	Pass - no leak on water supply detected during acoustic testing.

SUMMARY OF FINDINGS

MH1:
We identified an inspection chamber beneath an access panel in the floor of the conservatory to the rear of the house. When we accessed this we found the pipework to be approximately 1.0m deep and holding high levels of grease/fat and washing machine residue.

We attempted rodding the clear the debris but this was not successful.

RWP1:
The down pipe is located at the rear right corner of the main house in a narrow gap between the conservatory and the boundary fence. The end panel of the fence is screwed in place and we could not lift this out to gain access to attempt a survey.

RWP2:
The down pipe is located at the rear right corner of the conservatory. It serves the conservatory only and discharges onto the ground against the boundary fence.

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RECOMMENDATIONS & QUOTATION

RECOMMENDATIONS

Further Investigation:
Return to site and carry out high pressure water jetting as required before performing a CCTV survey of the drainage connected to MH1, reporting further on the condition and destination of all pipework.

Carry out small access excavation at RWP1 and cut into the pipework below ground. Perform a CCTV survey of the drainage downstream, reporting further on the condition and destination of the pipework.

Should the pipework be found to discharge to a soakaway then perform a flow test to determine whether this is functioning adequately.

Enabling Work:
We will require the first fence panel at the rear right corner of the main house to be removed to allow us access to RWP1. In addition the conservatory area will need to be free of personal items to allow is clear access to MH1.

QUOTATION

Further Investigation:

- Carry out high pressure water jetting from MH1
- Internal surface protections as required
- Carry out small access excavation at RWP1
- Cut into pipework below ground
- Perform CCTV survey
- Carry out flow test if discharge from RWP1 is to soakaway
- Make good access cut to pipework
- Further report on condition and destination of surveyed pipework
- Backfill excavation, reinstate surface, remove spoil from site

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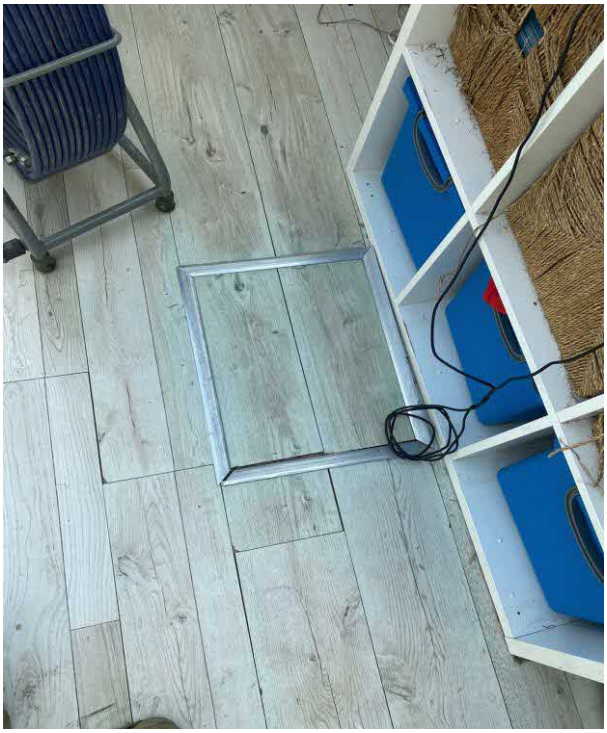
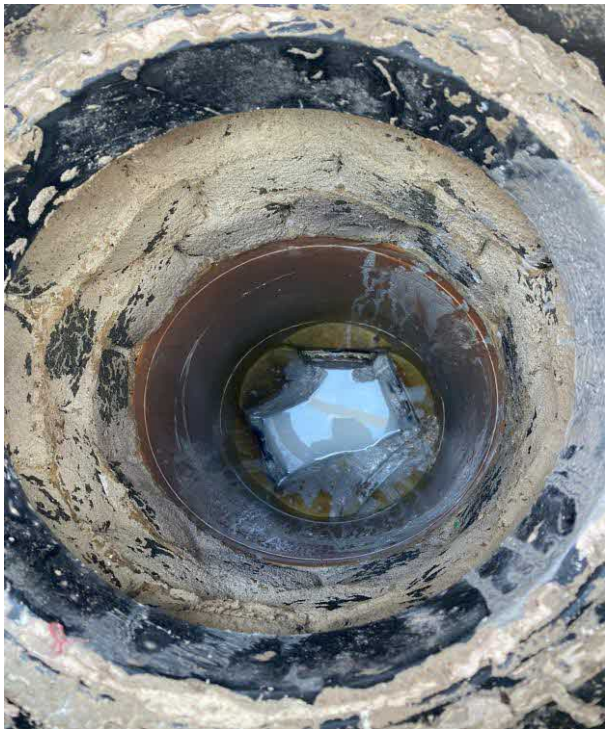
PHOTOGRAPHS



MH1 access panel



MH1

RWP1

RWP2

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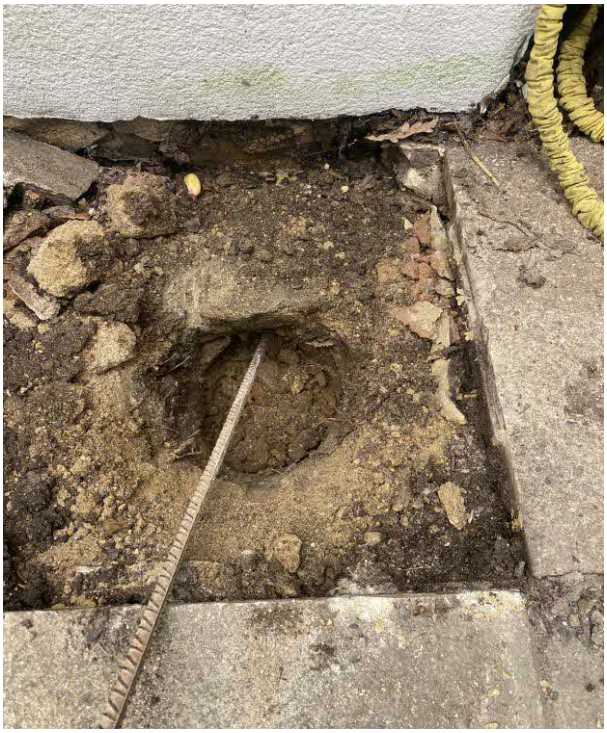
PHOTOGRAPHS



T/H1

T/H2

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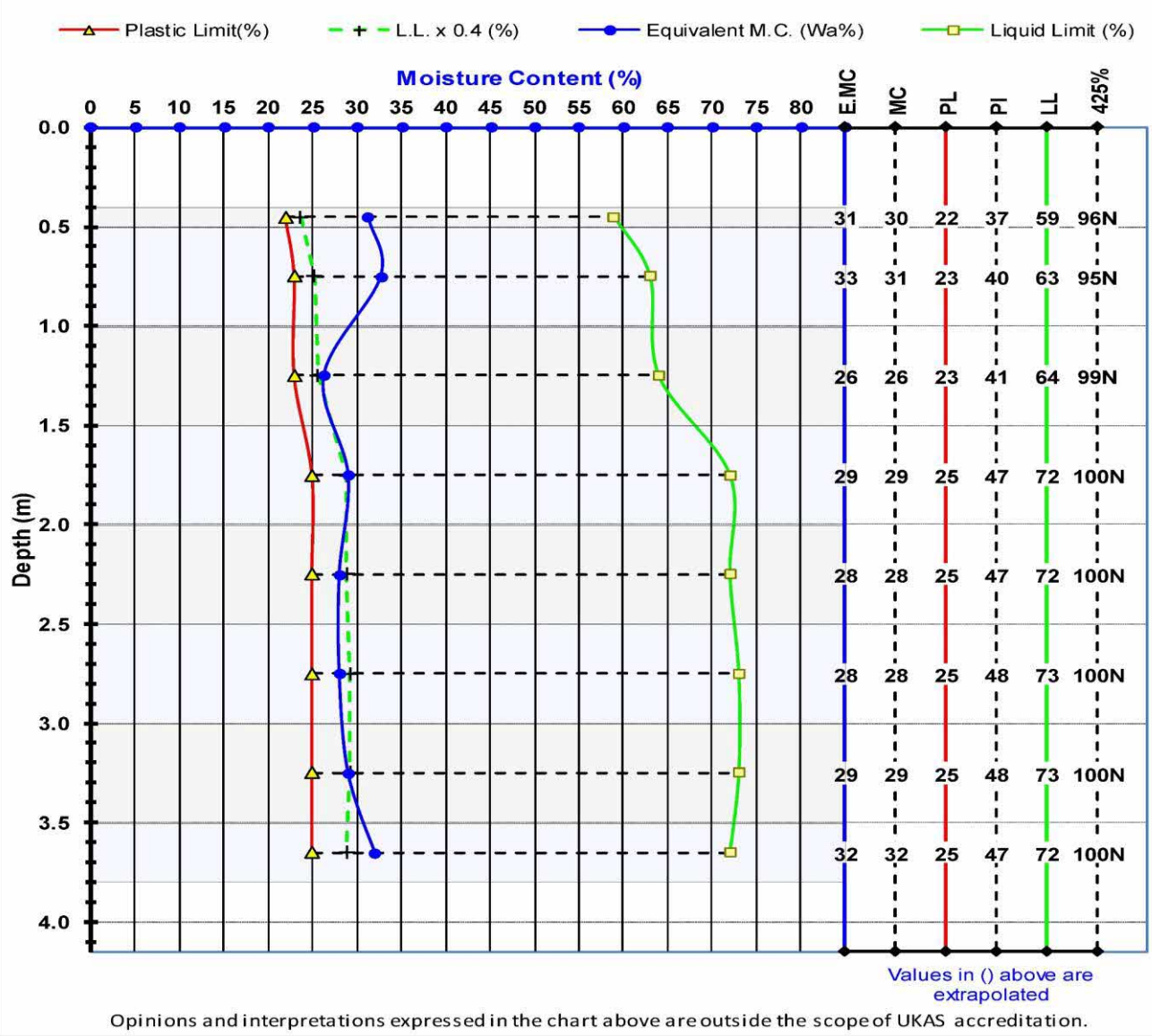
LABORATORY TESTING RESULTS

Depth T (m)	Depth B (m)	1 - Rear LHC of conservatory Brief Soil Description	Plasticity (BS 5930)	Volume Change M.PI	Volume Change (BRE 240)
0.4	0.5	Soft/firm brown CLAY with rare medium gravel (inc. brick) & roots	High CH	36%	Medium
0.5	1	Soft/firm brown CLAY with rare medium gravel & roots	High CH	38%	Medium
1	1.5	Soft/firm light grey/brown CLAY with rare medium gravel & rootlets	High CH	41%	High
1.5	2	Firm/stiff grey/brown CLAY with rare medium gravel & rootlets	V. high CV	47%	High
2	2.5	Firm/stiff grey/brown CLAY with rare medium gravel & rootlets	V. high CV	47%	High
2.5	3	Firm/stiff grey/brown CLAY with rare medium gravel & rootlets	V. high CV	48%	High
3	3.5	Firm/stiff grey/brown CLAY with rare medium gravel	V. high CV	48%	High
3.5	3.8	Firm/stiff grey/brown CLAY with rare medium gravel	V. high CV	47%	High



Opinions and interpretations expressed in the chart above are outside the scope of UKAS accreditation.

Key:

MC = Natural Moisture Content (%)
E.MC = Equivalent Moisture Content (%) = **MC** x 100 / **425%**
M.PI = Modified Plasticity Index (%) = **PI** x **425%** / 100
425% = Material passing the 425µm sieve (%) + (**N** = Natural or **S** = Sieved)
Notes: *All samples received as Disturbed unless noted below in the comments.*

PL = Plastic Limit (%)
PI = Plasticity Index (%) = **LL - PL**
LL = Liquid Limit (%)
LL x 0.4 = 40% of the **LL** (%)
NP = Non Plastic

Samples prepared in accordance to BS1377:Part 1:1990 Section 7 & described in general accordance with BS5930:1999.

Samples tested *in accordance to BS1377:Part 2:1990 Section 3.2, 4.4 & 5.*

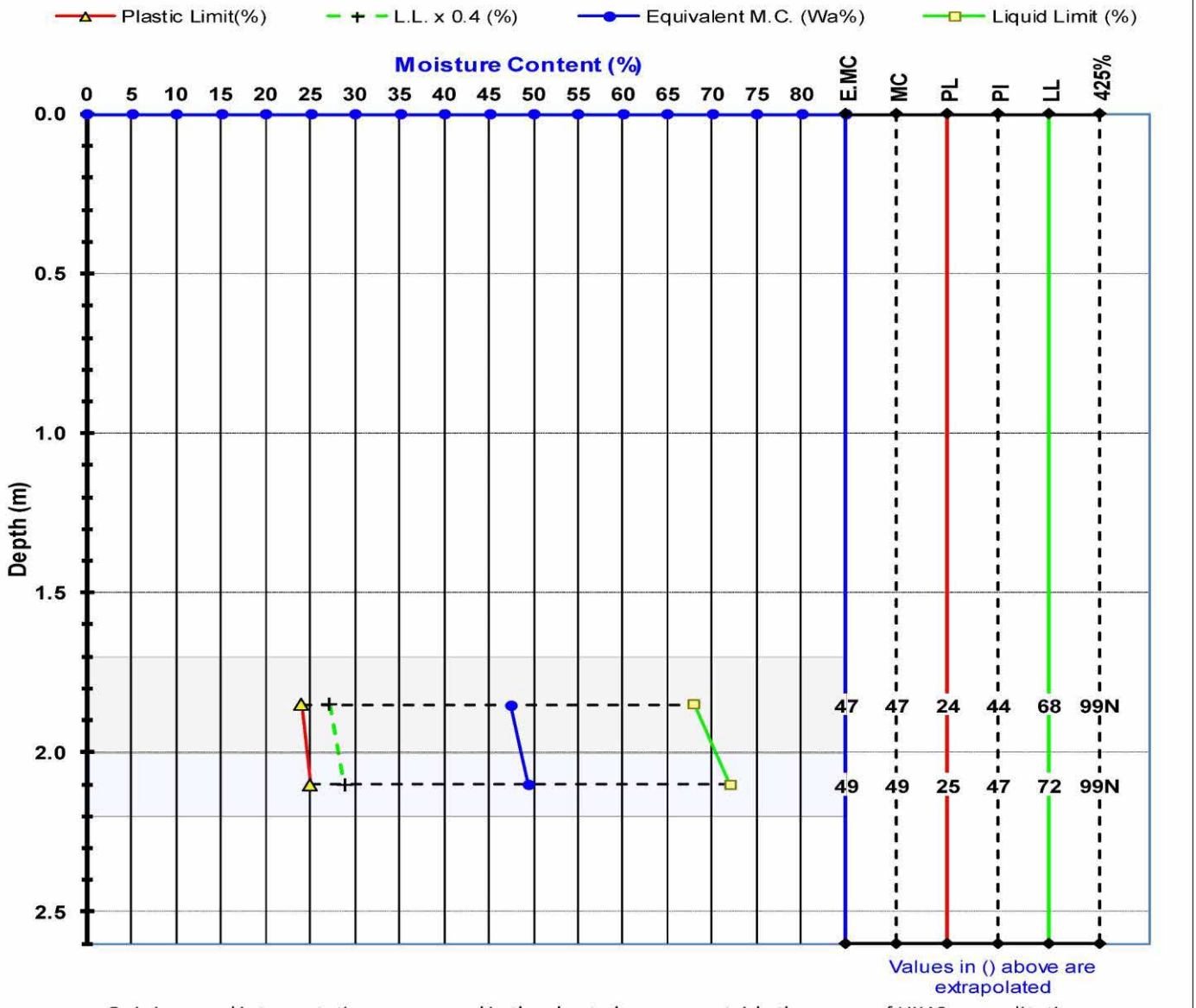
Comments:

Address: 28 DAMASK GARDENS, WATERLOOVILLE, PO7 8QZ

Drainage Repair Company

LABORATORY TESTING RESULTS

Depth T (m)	Depth B (m)	2 - R/H side of property Brief Soil Description	Plasticity (BS 5930)	Volume Change M.PI	Volume Change (BRE 240)
1.7	2	Soft brown CLAY with rare medium gravel	High CH	44%	High
2	2.2	Soft brown CLAY with rare medium gravel	V. high CV	47%	High



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M.PI = Modified Plasticity Index (%) = **PI** x **425%** / 100
425% = Material passing the 425µm sieve (%) + (**N** = Natural or **S** = Sieved)
Notes: *All samples received as Disturbed unless noted below in the comments.*

PL = Plastic Limit (%)
PI = Plasticity Index (%) = **LL - PL**
LL = Liquid Limit (%)
LL x 0.4 = 40% of the **LL** (%)
NP = Non Plastic

Samples prepared in accordance to BS1377:Part 1:1990 Section 7 & described in general accordance with BS5930:1999.

Samples tested *in accordance to BS1377:Part 2:1990 Section 3.2, 4.4 & 5.*

Comments:

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Drainage Repair Company

ROOT IDENTIFICATION

Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Dr Ian B K Richardson
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James Richardson
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71 Narrow Lane
AYLESTONE
Leicester LE2 8NA

Your ref: -

Our ref: 87/0710

27/06/2023

Dear Sirs

28 Damask Gardens, Waterlooville PO7 8QZ

The samples you sent in relation to the above on 25/05/2023 have been examined. Their structures were referable as follows:

TP/BH1, 0.4-1.4m		
18 no.	Examined root: QUERCUS (Oak).	Alive, recently*.
4 no.	All pieces of BARK only - not enough material for identification.	
10 no.	Unfortunately all with insufficient cells for identification.	
TP/BH1, 1.4-2.4m		
20 no.	Examined root: QUERCUS (Oak).	Alive, recently*.
3 no.	All pieces of BARK only - not enough material for identification.	
20 no.	Unfortunately all with insufficient cells for identification.	
TP/BH1, 2.4-3.4m		
6 no.	Examined root: could also be QUERCUS (Oak). This was a very IMMATURE sample.	Alive, recently*.

Click here for more information: QUERCUS

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

[redacted]

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

* * Try out our web site on www.botanical.net * *

Identified with no information on vegetation, on or off site.

Report commissioned by Drainage Repair Company

Address: **28 DAMASK GARDENS, WATERLOOVILLE, PO7 8QZ**

Drainage Repair Company

LIMITATION OF REPORT

We were commissioned to carry out an inspection of the accessible areas of the drainage to the property, identifying any major defects and recommending any repair works that may be necessary. It should be appreciated that the exact layout of the system cannot be confirmed without the exposure of inaccessible branches and connections etc.

The lack of any significant defects within the main drainage line should not be regarded as a guarantee of water tightness. Defects may be encountered upon exposure of inaccessible branches and gullies etc.

The contents of this report are strictly confined to comments concerning those terms outlined above. It is not a structural survey and must not be construed as such.

The views expressed in this report are based entirely upon a visual examination of the drainage, supported by information obtained from a CCTV inspection / water pressure test.