

**CCTV REPORT FOR: 9 RUDLANDS** 

**IPSWICH SUFFOLK** IP8 3RQ

**CONTENTS: SITE AND DRAINAGE LAYOUT** 

**CCTV SURVEY DETAILS FOUNDATION RECORD INVESTIGATION SUMMARY RECOMMENDATIONS** 

QUOTATION **PHOTOGRAPHS** 

LABORATORY TESTING RESULTS

**ROOT IDENTIFICATION** LIMITATION OF REPORT



Client: 360GlobalNet

**Regus House** Herald Way

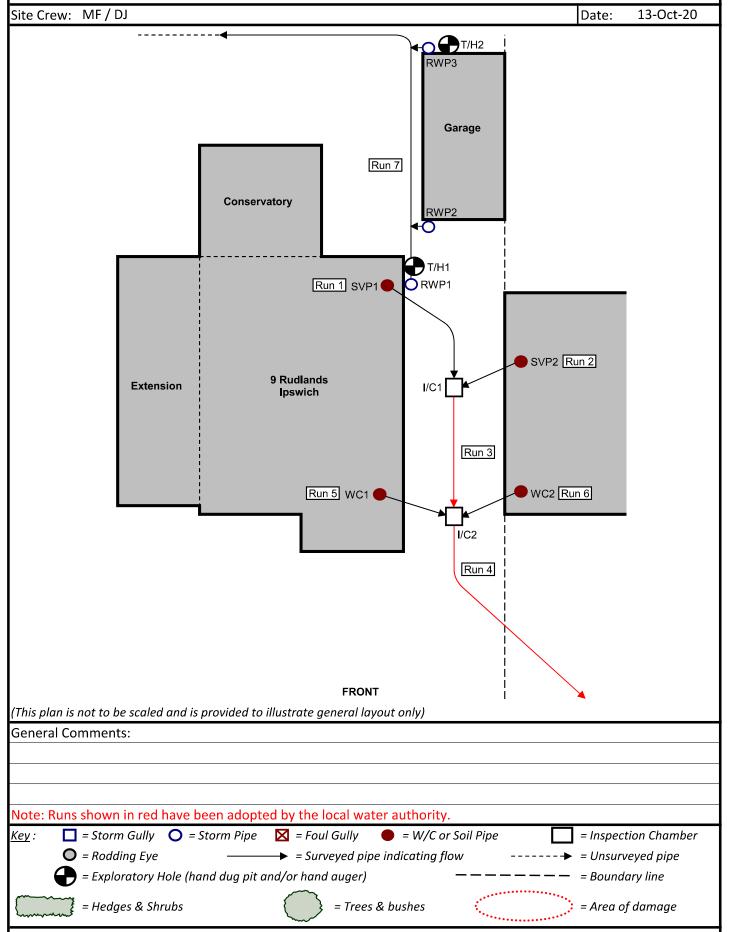
**Pegasus Business Park Castle Donnington** 

**DE74 2TZ** 

Insured: Mrs J Oakley

**Reference:** DLG-SN-20-002038 Ins Ref: 074634619

1st Site Visit: 13-Oct-20 2nd Site Visit: 03-Nov-20 **1st Report Date:** 25-Nov-20 2nd Report Date: 00-Jan-00





Site Crew:	MF / DJ					Date: 13-Oct-20					
<u>RUN:</u> 1	Pipe Dia. (mm):	100	System:	Foul Water	Made of:	Glazed Clay					
From:	I/C1		<b>Inv (m):</b> 0.70	Upstream	To: SVP1	<b>Inv (m):</b> n/a					
Metres		Fa	ults / Defects		Rer	marks					
0.00					At I/C1						
1.10					Pipe bends left						
1.30					Pipe bends left						
1.50	Circumferential (	Crack 1	2 to 6 o'clock								
2.20					At rest bend to SVP1						
					End of survey						
RUN: 2	Pipe Dia. (mm):	100	System:	Foul Water	Made of:	Glazed Clay					
From:	I/C1		<b>Inv (m):</b> 0.70	Upstream	To: SVP2	<b>Inv (m):</b> n/a					
Metres		Fa	ults / Defects		Rer	marks					
0.00					At I/C1						
1.00	No Visible Defect	ts			At rest bend to SVP2 (	next door)					
					End of survey						
RUN: 3	Pipe Dia. (mm):	100	•	Foul Water	Made of:	Glazed Clay					
From:	I/C1		Inv (m): 0.70	Downstream	To: I/C2	Inv (m): 0.9					
Metres		<u> </u>	ults / Defects		Remarks						
0.00	Nie Vertele Die Gerei				At I/C1						
3.00	No Visible Defect	<u>ts</u>			Into I/C2						
					End of survey						
	•										
RUN: 4	Pipe Dia. (mm):	100	System:	Foul Water	Made of:	Glazed Clay					
	Pipe Dia. (mm):	100	<b>System: Inv (m):</b> 0.90	Foul Water Downstream	Made of: To: Main Sewer	•					
			•		To: Main Sewer	•					
rom:			<b>Inv (m):</b> 0.90		To: Main Sewer	<b>Inv (m):</b> n/a					
rom: Metres			<b>Inv (m):</b> 0.90		To: Main Sewer	<b>Inv (m):</b> n/a					
Metres 0.00		Fa	<b>Inv (m):</b> 0.90		To: Main Sewer  Rer  At I/C2	<b>Inv (m):</b> n/a					
Metres 0.00 1.70	I/C2	Fa	<b>Inv (m):</b> 0.90		To: Main Sewer  Rer  At I/C2  Pipe bends left	<b>Inv (m):</b> n/a					
Metres 0.00 1.70	I/C2	Fa	<b>Inv (m):</b> 0.90		To: Main Sewer  Rer  At I/C2  Pipe bends left  Past area of concern	<b>Inv (m):</b> n/a					
Metres 0.00 1.70 5.00	I/C2	Fa ts	Inv (m): 0.90 ults / Defects		To: Main Sewer  Rer  At I/C2  Pipe bends left  Past area of concern	<b>Inv (m):</b> n/a					
Metres 0.00 1.70 5.00	No Visible Defect	Fa ts	Inv (m): 0.90 ults / Defects	Downstream	To: Main Sewer  Rer  At I/C2  Pipe bends left  Past area of concern  End of survey	Inv (m): n/a marks Glazed Clay					
Metres 0.00 1.70 5.00	No Visible Defect Pipe Dia. (mm):	Fa ts	Inv (m): 0.90 ults / Defects  System:	Downstream Foul Water	To: Main Sewer  Rer At I/C2 Pipe bends left Past area of concern End of survey  Made of: To: WC1	Inv (m): n/amarks  Glazed Clay					
Metres 0.00 1.70 5.00 RUN: 5 From:	No Visible Defect Pipe Dia. (mm):	Fa ts	Inv (m): 0.90 sults / Defects  System: Inv (m): 0.90	Downstream Foul Water	To: Main Sewer  Rer At I/C2 Pipe bends left Past area of concern End of survey  Made of: To: WC1	Inv (m): n/a marks Glazed Clay Inv (m): n/a					
0.00 1.70 5.00 RUN: 5 From:	No Visible Defect Pipe Dia. (mm):	Fa ts 100 Fa	Inv (m): 0.90 sults / Defects  System: Inv (m): 0.90	Downstream Foul Water	To: Main Sewer  Rer At I/C2 Pipe bends left Past area of concern End of survey  Made of: To: WC1  Rer	Inv (m): n/a marks Glazed Clay Inv (m): n/a					

Defects shown in RED relate to runs adopted by the Local Water Authority



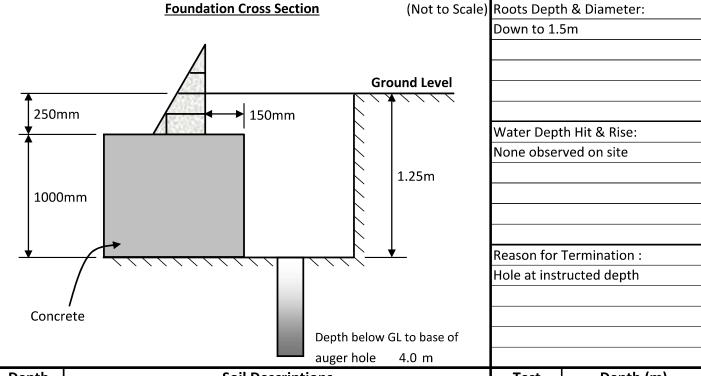
Site Crew:	MF / DJ					Date:	13-Oct-20		
<u>RUN:</u> 6	Pipe Dia. (mm):	100	System:	Foul Water	Made of:	Clay			
From:	I/C2		<b>Inv (m):</b> 0.90	Upstream	To: WC2		<b>Inv (m):</b> n/a		
Metres		Fau	lts / Defects		Remarks				
0.00					At I/C2				
1.00	No Visible Defect	ts		At rest hend to WC2 (next door)					

End of survey

<u>RUN:</u> 7	Pipe Dia. (mm): 100	System:	Storm Water	Made of: Glazed Clay							
From:	RWP1 Access Cut	<b>Inv (m):</b> n/a	Downstream	To: Unknown	<b>Inv (m):</b> n/a						
Metres	Fa	ults / Defects		Remarks							
0.00				At Access Cut							
1.40				Inlet at 3 o'clock to RWP2							
5.40				Inlet at 3 o'clock to RWP3							
10.00	No Visible Defects			Past area of concern							
				End of survey							
	RWP2 and RWP3 drop directly onto Run 7.										



Location: Rear Right Corner of House	T/H No.	1	
Ground Surface: Damp	Weather: Dry	Date:	13-Oct-20



	auger note 4.0 m				
<u>Depth</u>	Soil Descriptions	<u>Test</u>	<u>Depth</u> (m)		
(m)	(NB: Field crew description only)	Туре	From	То	
G.L.					
1.25	Friable light brown very gravelly very sandy CLAY				
1.50	Firm brown slightly gravelly CLAY				
3.50	Firm brown CLAY				
4.00	End of Borehole				
	Photograph				
	The same of the sa				
-					

Run 7 visible in trial hole.

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



Location:	Rear Left Corner of Garage			T/H No.	2
Ground Surf	ace: Damp	Weather: Dry		Date: 13	3-Oct-20
	Foundation Cross Section	on (Not to Scale)	Roots Dept	h & Diamete	er:
			Down to 1.	5m	
	Λ				
	$\mathcal{A}$				
_		Ground Level			
Ī			Water Dept	th Hit & Rise	:
400n	nm 60mm			ved on site	
<u> </u>		N I			
Ī		1.0m			
600n	am				
<u> </u>	*	<u> </u>	Reason for	Termination	:
			Encountere	ed obstructio	n
	/		Friable grou	und	
Concr	ete				
		Depth below GL to base of			
		auger hole 1.5 m			
<u>Depth</u>	Soil Descripti	<u>ons</u>	<u>Test</u>	Dept	<u>h</u> (m)
(m)	(NB: Field crew descrip	otion only)	Туре	From	То
G.L.					
1.00	Friable light brown gravelly sandy CLAY				
1.50	End of Borehole				
	Photograph	n constant of the constant of			
	A STATE OF THE PARTY OF THE PAR				
		Bissi			
0 10					
General Co					
Kun / Visibl	e in trial hole.				
	Key: Mac=Macintosh Probe, V(n)=I	Natural Shear Vano D.D Doo	kat Danatra	meter	
	ney. wiac-wiaciiilosii Piobe, V(N)=1	vatarar sirear varie, P.P. = POC	KEL PEHEUOI	ווכנכו	

### 1.0 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 to rear and right of the property.

System Access: Inspection chambers to right of property, access cur to RWP1.

**Visual Survey:** RWP2 and RWP3 drop directly on to Run 7.

Water Pressure Test: No

### 2.0 <u>SUMMARY OF FINDINGS</u>

**Defects requiring repair:** Yes

Is any damaged section shared: No

No. of properties sharing: N/A

Age of property / system: Unknown

Cause of damage: N/A



### 3.0 GENERAL SUMMARY

The results of the CCTV / inspection survey to the underground drainage system at the above addres	s are
as follows:	

### Run 1 - Foul - Private:

Circumferential crack.

### Run 2 - Foul - Private (next door):

No visible pipework defects.

### Run 3 - Foul - Shared, Local Water Authority:

No visible pipework defects.

### Run 4 - Foul - Shared, Local Water Authority:

No visible pipework defects.

### Run 5 - Foul - Private:

No visible pipework defects.

### Run 6 - Foul - Private (next door):

No visible pipework defects.

### **Run 7 - Storm - Private:**

No visible pipework defects.

Small section of Run 7 pipework was replaced due to damage caused when performing access cut and T/H1.

### 4.0 <u>RECOMMENDATIONS</u>

We would recommend returning the system to a watertight condition by repairing the defects as follows:

### Run 1:

Carry out high pressure water jetting to prepare pipework for lining. Install a flexible structural liner from I/C1 upstream to SVP1 rest bend.

### **5.0 QUOTATION**

### Run 1:

- Carry out high pressure water jetting
- Install a flexible structural liner from I/C1 upstream to SVP1 rest bend

£750.00	Total ex.VAT
£150.00	VAT
£900.00	Total inc.VAT

£750.00	Grand Total - All Works ex.VAT
£150.00	VAT
£900.00	Grand Total - All Works inc.VAT



T/H1 - Run 7 visible



T/H1 - Repair to Run 7 following survey











I/C1 I/C2

# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

	Description of Sample		Light brown very gravelly very sandy CLAY.	Brown slightly gravelly CLAY.	Brown CLAY.										
Base	Depth	ш	1.50	2.00	2.50	3.00	3.50	4.00							
Top	Depth	ш	1.20	1.50	2.00	2.50	3.00	3.50							
Sample	Туре														
Sample	Number														
Hole	Number		TP/BH1	TP/BH1	TP/BH1	TP/BH1	TP/BH1	TP/BH1							

9 Rudlands, Ipswich, Suffolk, IP8 3RQ

Contract No: PSL20/6231

DLG-SN-20-002038

Client Ref:





# SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377: PART 2: 1990)

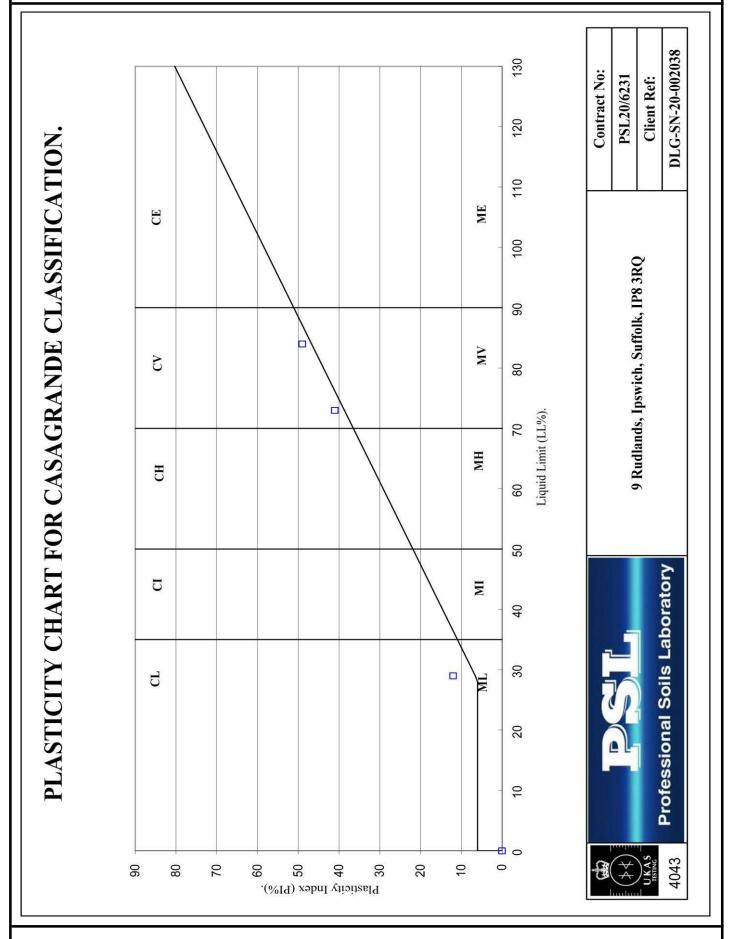
	Remarks			Low plasticity CL.		Very high plasticity CV.		Very high plasticity CV.									
Passing	.425mm	%		72		98		100									
Plasticity		%	Clause 5.4	12		65		41									
Plastic	Limit	%	Clause 5.3	17		35		32									
Liquid	Limit	%	Clause 4.3/4	29		84		73									
Particle	Density	Mg/m³	Clause 8.2														
Linear	Shrinkage	%	Clause 6.5														
Moisture	Content	%	Clause 3.2	19	37	36	39	64	15								
	Base	Depth	m	1.50	2.00	2.50	3.00	3.50	4.00								
	Top	Depth	ш	1.20	1.50	2.00	2.50	3.00	3.50								
		Type								,							
	Sample																
	Hole	Number		TP/BH1	TP/BH1	TP/BH1	TP/BH1	TP/BH1	TP/BH1							· · · · · · · · · · · · · · · · · · ·	

9 Rudlands, Ipswich, Suffolk, IP8 3RQ

\*: Liquid Limit and Plastic Limit Wet Sieved.

SYMBOLS: NP: Non Plastic







# **Summary of results**

One Dimensional Swell / Strain test - In House Method

Hole Number	Sample Number	Sample Type	Depth m	Strain	Dd (mm)	Moisture Content	Remarks
TP/BH1			1.20	0.0011	0.6	19	
TP/BH1			2.00	0.0162	6.5	36	
TP/BH1			3.00	0.0019	0.9	49	
			2 0				
			2				
			-				
	1 1	. Da me	/BH1 =	8.1 mm			

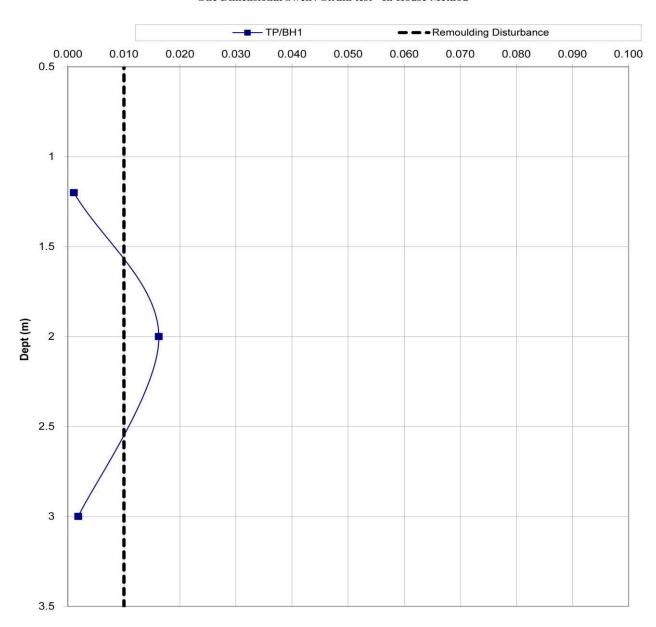




9 Rudlands, Ipswich, Suffolk, IP8 3RQ

## **Oedometer Strain**

One Dimensional Swell / Strain test - In House Method







9 Rudlands, Ipswich, Suffolk, IP8 3RQ

# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

		_	_	_	_	_	_	 		_	_		
Description of Sample	Light brown gravelly sandy CLAY.												
Base Depth m	1.50												
Top Depth m	1.00												
Sample Type													
Sample Number													
Hole	TP/BH2												

	3KQ
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11 33	Suffolk,
	ıpswich,
	Kudlands,
<	7



Contract No:	PSL20/6231	Client Ref:	DLG-SN-20-002038
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# SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377: PART 2: 1990)

Domonico	Кешагкз		Intermediate plasticity CI.										
Passing 425mm			82										
Plasticity Index	wanua %	Clause 5.4	20					3					
Plastic I imit	% %	Clause 5.3	11										
Liquid	<b>%</b>	Clause 4.3/4	37					20				, ,	
1	Density Mg/m <sup>3</sup>	Clause 8.2											
Linear	эшгикаge %	Clause 6.5								,			
Moisture	Content %	Clause 3.2	17										
Dogo	base Depth	ш	1.50								72		
Ton	r op Depth	ш	1.00										
$\overline{}$	Sample Type												
	Number												
Holo	Number		TP/BH2										

9 Rudlands, Ipswich, Suffolk, IP8 3RQ

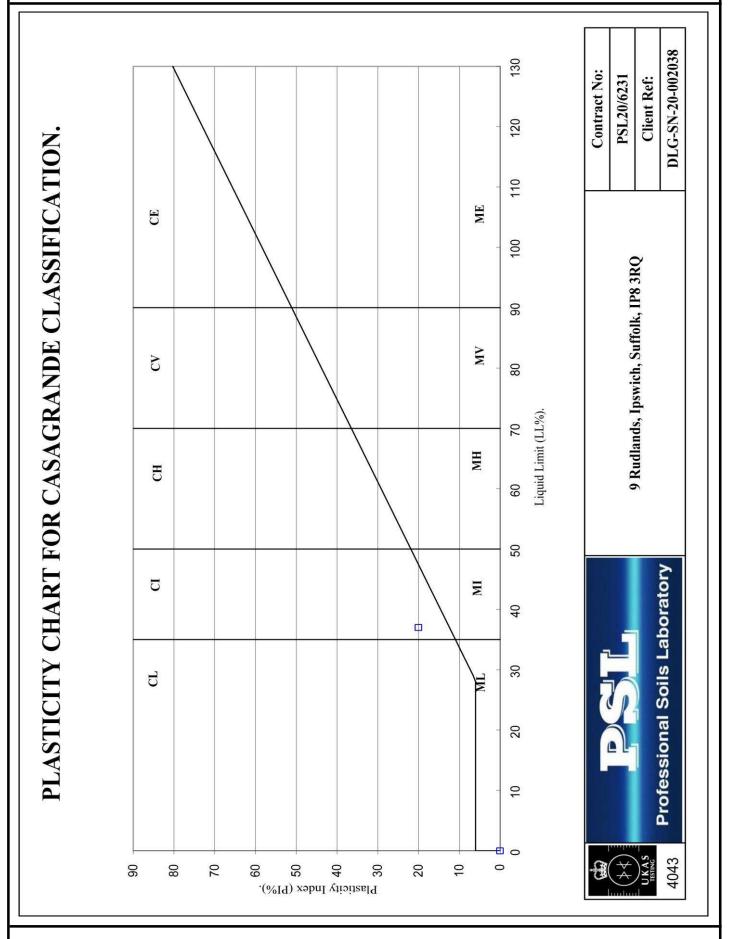
\*: Liquid Limit and Plastic Limit Wet Sieved.

SYMBOLS: NP: Non Plastic

Contract No:	PSL20/6231	Client Ref:	DLG-SN-20-002038
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# **Summary of results**

One Dimensional Swell / Strain test - In House Method

TP/BH2		1.00	0.0000	0.0	17	
				1		
	- 1					
i						
		15 5				
		300				
		101				
2 0 2		P/BH2 =	0.0 mm		200	

UKAS TESTING

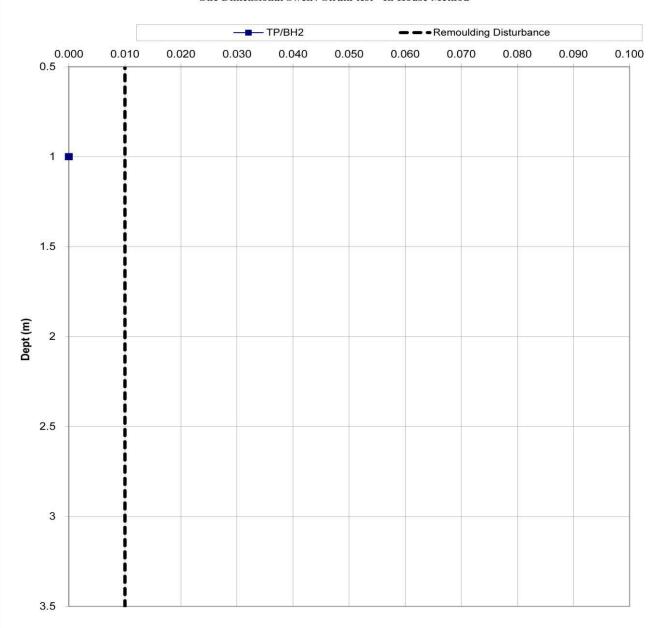


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## **Oedometer Strain**

One Dimensional Swell / Strain test - In House Method







9 Rudlands, Ipswich, Suffolk, IP8 3RQ





# Richardson's Botanical Identifications

Root identification Vegetation surveys Tree/Building investigations Plant taxonomy

The Drainage Repair Company
Suite 15, Leatherline House
71 Narrow Lane
AYLESTONE
Leicester LE2 8NA

23/11/2020

Dr lan B K Richardson BSc, MSc, PhD, MRSB, FLS James Richardson BSc (Hons. Biology)

Enterprise House 49-51 Whiteknights Road Reading RG6 7BB

Tel: (0118) 986 9552 (Direct line)
E-mail: richardsons@botanical.net
Web: www.botanical.net

Your ref: Root ID

Our ref: 81/0704

Dear Lisa

### 9 Rudlands Ipswich IP8 3RQ

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

TP/BH1, 1	.25-1.50m				
4 no.	Examined root: most referable to QUERCUS (Oak). This was a very IMMATURE sample.				
<b>TP/BH2</b> , 1	.00-1.50m				
2 no.	Examined root: QUERCUS (Oak).				
2 no.	Examined root: PRUNUS species (Cherries, Plums and Damsons, Almonds, Peaches and Apricots, Blackthorn/Sloe, as well as the shrubby Cherry-laurel and Portugal-laurel).				
1 no.	A piece of BARK only, insufficient material for identification.				

Click here for more information: PRUNUS QUERCUS

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

Yours sincerely

Dr Ian B K Richardson

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



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.