

Subsidence Investigation Report

Date: 10/05/2023

Insurance Company: BVS

Insurer Claim Number: 0715931

Catalyst Claim Number: 119141

Policyholder Name & Risk Address:

Peter Scott and Christine Scott, The Old School, The Common, Mellis, Eye Suffolk IP23 8EE

Description of Risk address

Detached House

Description of Drainage System

100mm Clay Pipe

Circumstances

We were asked to inspect and report on the cause of potential movement at the property.

Works Completed

We attended site and completed the following tests, the locations of the trial pits / boreholes are detailed on the site plan.

- Excavated two trial pits and boreholes.
- Completed Shear Vane / Mackintosh Probe testing.
- Tested root samples.
- Performed CCTV survey to accessible drainage.

Further Action

Drains require rectification and a further survey will need to be carried out to ensure Rain Water Gully 1 and Rain Water Pipes 1-2 are functional.

Excavate and replace RWG1 with up to 1m pipework and further CCTV survey.

Excavate and replace the rest bend of RWP1 & 2 with up to 1m pipework, perform further CCTV survey.

Registered address

Catalyst Services UK Ltd,

Gatehead Business Park,

Delph New Road, Oldham. OL3 5DE

Registered in England and Wales No: 09166356

Catalyst Services UK Ltd is authorised and regulated by the Financial Conduct Authority. (942818)

Drains | Water Supply Pipe | Septic Tanks
Subsidence | Leak Detection | Home Emergency

0800 870 8080 | info@catalystservicesuk.com
www.catalystservicesuk.com

Repairs are also required to S1 and S2, however, it is likely internal excavations will be necessary to complete the repairs. We will assess this whilst on site conducting further investigations and provide recommendations.

S3: Carry out high pressure water jetting / root cutting. Install 9m x 100mm structural liner.

S4: Carry out high pressure water jetting / root cutting. Install structural patch liner at 3.34m.

Live roots noted beneath foundation level in stiff clay subsoil.

Reserves

Investigations: £540.00 + VAT

Root Cost: £160.00 + VAT

Total Investigation Cost: £700.00 + VAT

Further Work:

Further Investigations to RWG1, RWP1, RWP2: £1486.73 + VAT

S1 & S2: TBC

S3 Repairs: £808.07 + VAT

S4 Repairs: £420.18 + VAT

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Site Investigation and Drainage Report



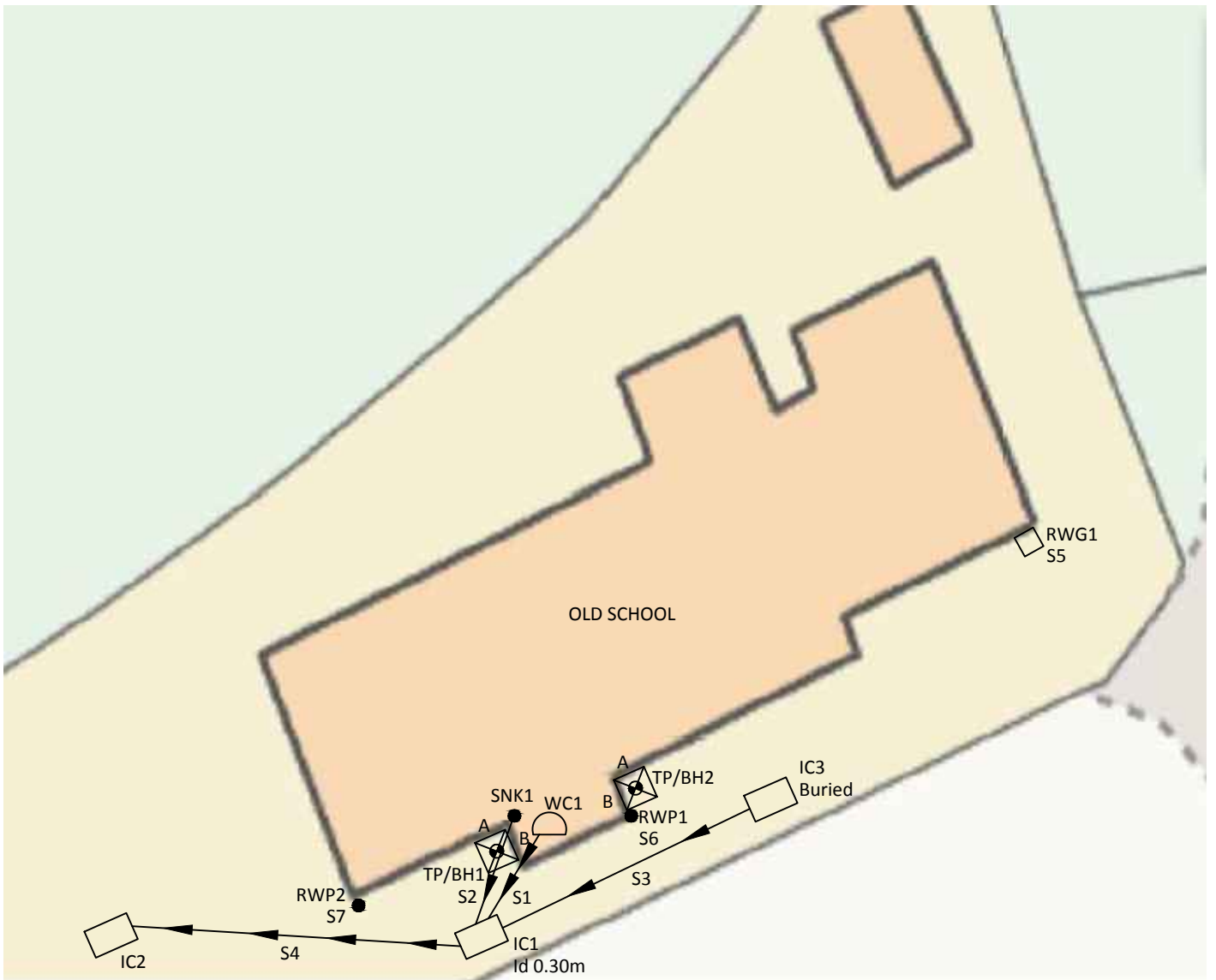
Site	The Old School The Common Mellis Eye Suffolk IP23 8EE Ref: 119141 Peter Scott and Christine Scott
Client	Catalyst Services UK
Date	28/03/23
Our Ref	13137

SITE INVESTIGATION AND DRAINAGE REPORT CONTENT

- 1.0 SITE PLAN
- 2.0 TRIAL PIT SECTION DRAWINGS
- 3.0 BOREHOLE LOGS
- 4.0 TRIAL PIT PHOTOGRAPHS
- 5.0 ROOT IDENTIFICATION
- 6.0 CCTV DRAINAGE SURVEY
- 7.0 REPORT NOTES



Site:	The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Client:		Identification:
	Catalyst Services UK		SP		
Contract Number:	Date:	Logged By:	Checked by:	Drawn by:	Sheet 1 of 1
13137	28.03.23	LS	MCE	DJE	
Sketch Site Plan	Easting:	Northing:	Ground Level:	Plan:	Weather:
	ND	ND	ND	ND	Raining
					Scale:
					NTS



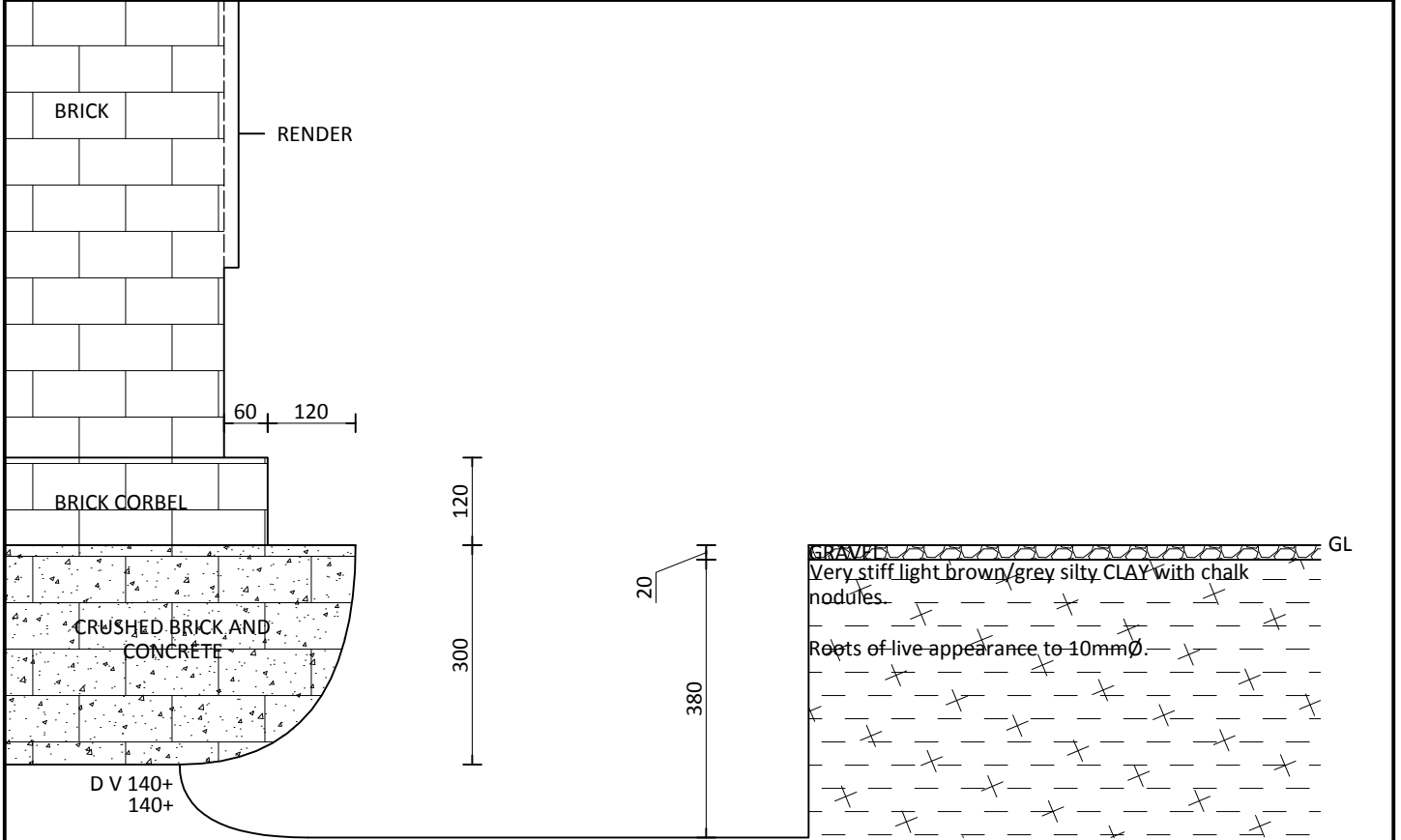
Remarks: On site tree identification for guidance only. Not authenticated.
All dimension in metres unless stated otherwise.

Key:

ND	NTS	A B TP/BH	IC Id	RWP	WC	SNK
No Data	Not to Scale	Trial Pit & Sections & Borehole	Inspection Chamber & Invert Depth	Rainwater Pipe	Water Closet	Sink
RWG	→	S				
Rainwater Gully	Drain/Sewer Surveyed	Drainage Survey Number				



Trial Pit/Borehole Log	Site: The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Client: Catalyst Services UK		TP1 SECTION A
	Contract Number: 13137	Date: 28.03.23	Logged By: LS	Checked by: MCE	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Raining

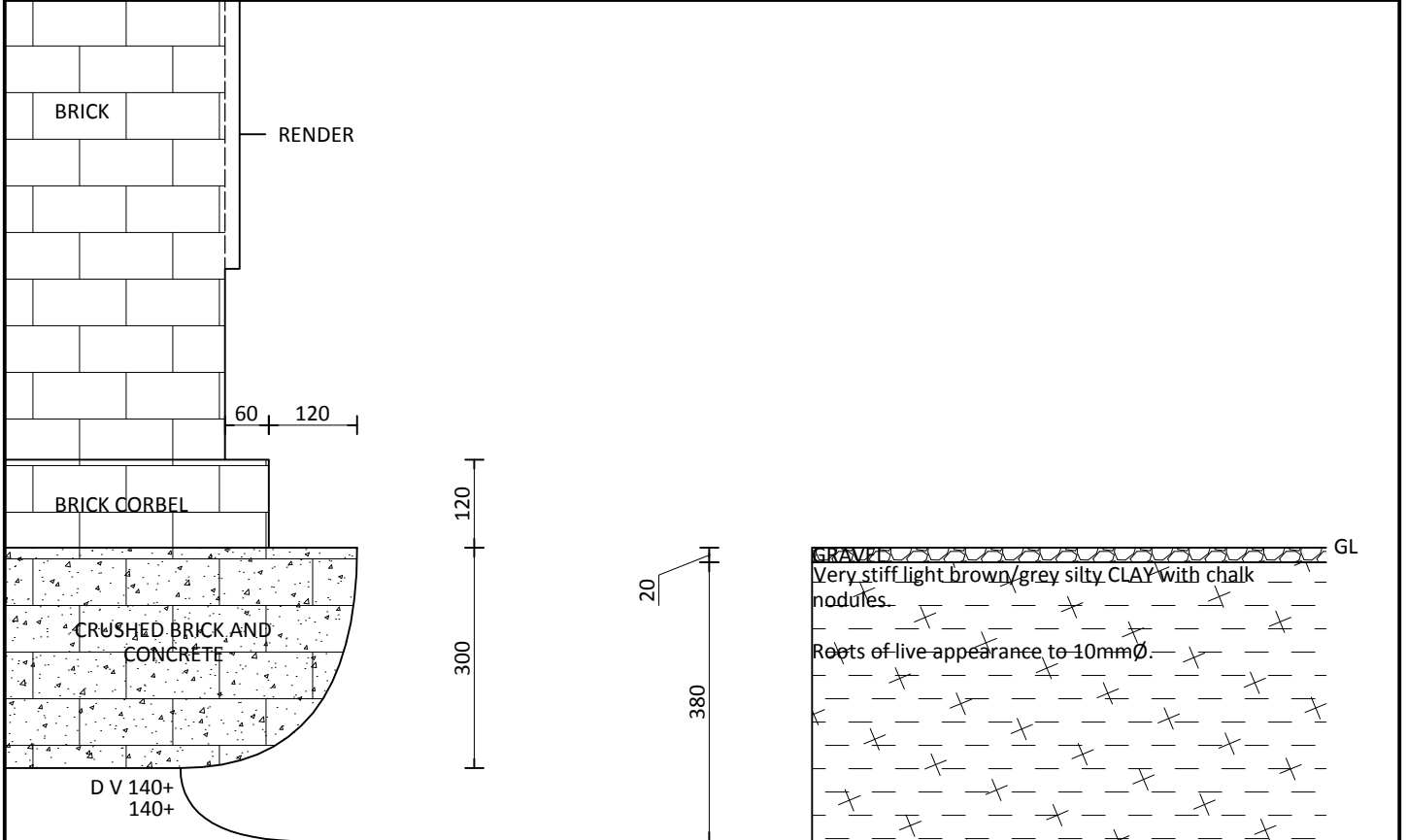


TRIAL PIT 1 SECTION A ENDS AT 400mm
FOR STRATA BELOW 400mm SEE BOREHOLE 1 LOG

Remarks: No water encountered. All dimensions in millimetres.	Key: ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (kPa)
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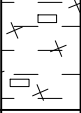
Trial Pit/Borehole Log	Site: The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Client: Catalyst Services UK		TP1 SECTION B
	Contract Number: 13137	Date: 28.03.23	Logged By: LS	Checked by: MCE	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Raining



TRIAL PIT 1 SECTION B ENDS AT 400mm

Remarks: No water encountered. All dimensions in millimetres.	Key: ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (kPa)
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	Site:		Client:		Identification
	The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Catalyst Services UK		
Borehole Log	Contract Number:	Date:	Logged By:	Checked by:	Drawn by:
	13137	28.03.23	LS	MCE	DJE
	Easting:	Northing:	Ground Level:	Plant Used:	Weather:
ND	ND	ND	Hand Auger	Raining	NTS

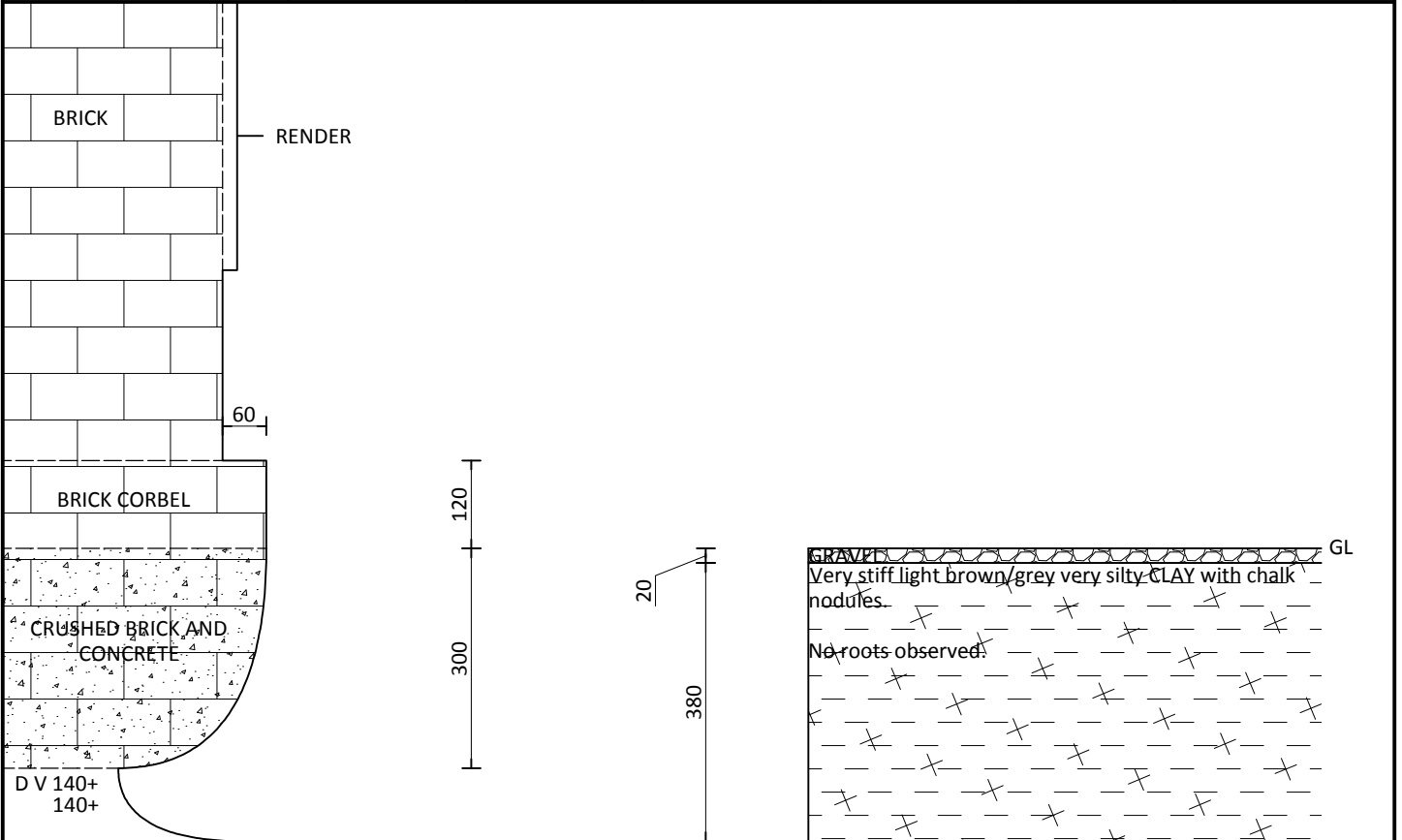
Samples & In Situ Testing			Strata Details				Roots and Groundwater	
Depth (m)	Sample	Test Result	Depth (m)	Thickness (m)	Legend	Strata Description	Roots Information	Groundwater (m)
GL			GL					
0.50	D	V 140+ 140+	0.40	0.40		AS TP1 SECTION A Very stiff light brown/grey chalky very silty CLAY with chalk nodules.	Roots of live appearance to 6mmØ to 1.20m.	
1.00	D	V 140+ 140+	1.20	0.80				
1.20		M TDTD				BOREHOLE ENDS AT 1.20m TOO DENSE TO HAND AUGER		

Remarks:	Key:
Borehole 'dry' on completion. Borehole 'open' on completion.	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (KPa) M Mackintosh Probe TDTD Too Dense to Drive

All dimensions in metres.



Trial Pit/Borehole Log	Site: The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Client: Catalyst Services UK		TP2 SECTION A
	Contract Number: 13137	Date: 28.03.23	Logged By: LS	Checked by: MCE	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Raining

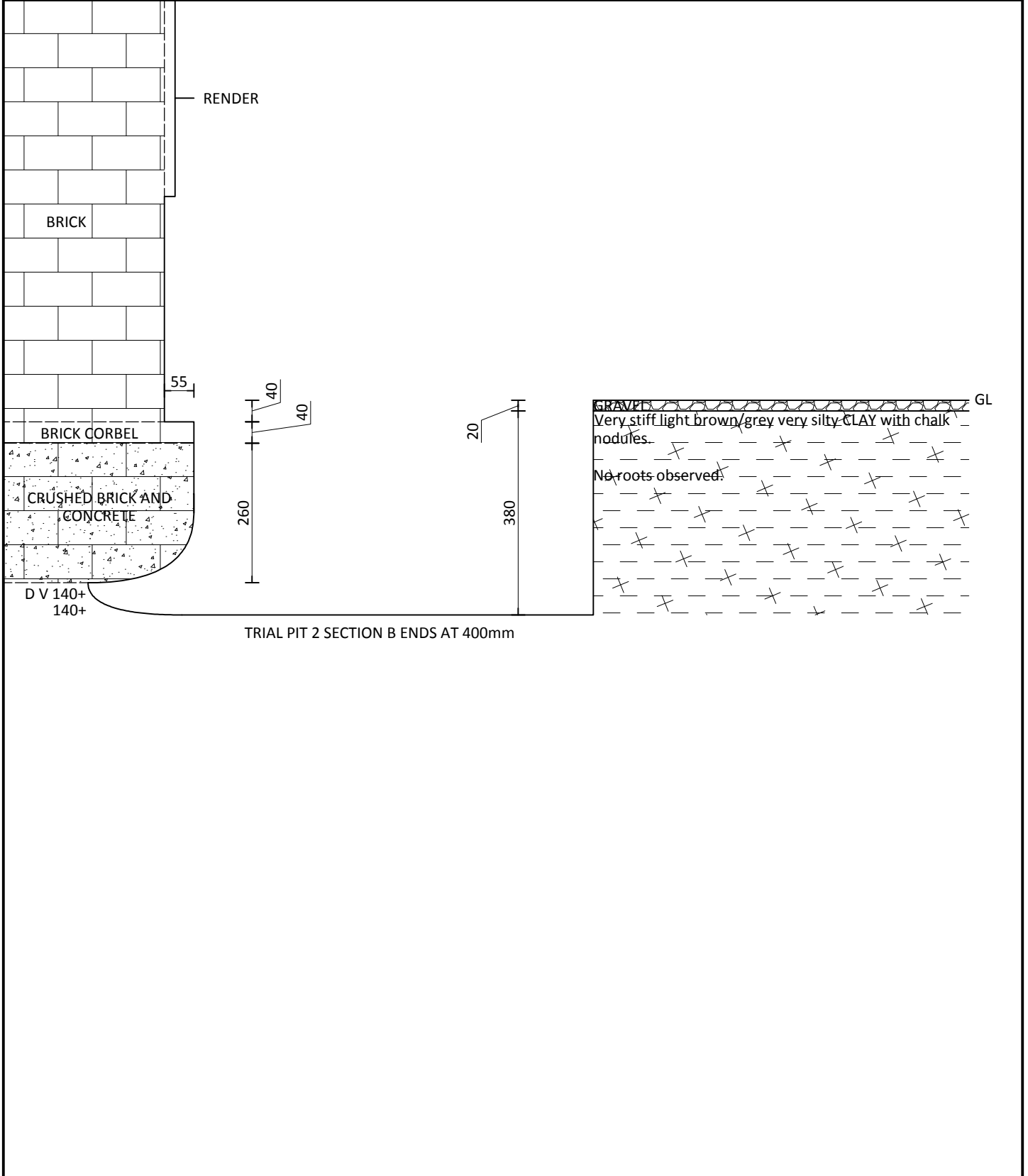


TRIAL PIT 2 SECTION A ENDS AT 400mm
FOR STRATA BELOW 400mm SEE BOREHOLE 2 LOG


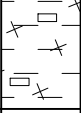
Remarks: No water encountered. All dimensions in millimetres.	Key: ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (kPa)
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Trial Pit/Borehole Log	Site: The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE		Client: Catalyst Services UK		TP2 SECTION B
	Contract Number: 13137	Date: 28.03.23	Logged By: LS	Checked by: MCE	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Raining



Remarks: No water encountered. All dimensions in millimetres.	Key: ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (kPa)
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			Site:			Client:			Identification				
			The Old School, The Common, Mellis, Eye, Suffolk, IP23 8EE			Catalyst Services UK			BH2				
Borehole Log			Contract Number:		Date:		Logged By:		Checked by:		Drawn by:		
			13137		28.03.23		LS		MCE		DJE		
			Easting:		Northing:		Ground Level:		Plant Used:		Weather:		Scale:
			ND		ND		ND		Hand Auger		Raining		NTS
Samples & In Situ Testing			Strata Details						Roots and Groundwater				
Depth (m)	Sample	Test Result	Depth (m)	Thickness (m)	Legend	Strata Description			Roots Information	Groundwater (m)			
GL			GL			AS TP2 SECTION A			No roots observed.				
0.50	D	V 140+ 140+	0.40	0.40		Very stiff light brown/grey chalky very silty CLAY with chalk nodules.							
1.00	D	V 140+ 140+	1.20	0.80		BOREHOLE ENDS AT 1.20m TOO DENSE TO HAND AUGER							
Remarks:						Key:							
Borehole 'dry' on completion.						ND No Data							
Borehole 'open' on completion.						NTS Not to Scale							
All dimensions in metres.						GL Ground Level							
						D Small Disturbed Sample							
						V Pilcon Vane (KPa)							

Photograph 1 - Trial Pit 1



Photograph 2 - Trial Pit 2



28th April 2023

JCA Ref: 20672/TT

To whom it may concern,

Re: The Old School, The Common Mellis, Eye, Suffolk, IP23 8EE.

Please find overleaf, details of our analysis of root material recovered during the ground investigation at the above site and an explanation of the results and methods used.

We hope that this report meets your requirements.

Assuring you of our best attention at all times.

Yours sincerely,

T. Thwaites

Toby Thwaites BSc (Hons) HND (Arboriculture), MArborA.

Tree Root Identification Report

at: The Old School, The Common Mellis, Eye, Suffolk, IP23 8EE.

JCA Ref: 20672/TT

28th April 2023

1. Microscopic Analysis

Trial Pit/ Borehole	Sample Depth (mm)	Family	Genus	Diameter (mm)	Starch Test
TP1	U/S Foundation 400 (A and B)	<i>Salicaceae (x4)</i>	<i>Salix</i> or <i>Populus</i> (x4)	2 to 15	Positive
BH1	400 – 1200	<i>Salicaceae (x1)</i>	<i>Salix</i> or <i>Populus</i> (x1)	1	Positive

Salicaceae includes Willows and Osier (*Salix spp.*) and Poplar and Aspen (*Populus spp.*).

2. MICROSCOPIC ANALYSIS

- 2.1 Microscopic examination generally enables the genus of roots recovered during the ground investigation to be established. However, it rarely identifies individuals to species level.
- 2.2 Certain species, for instance Willows and Poplars, are indistinguishable by these methods and identification can only be made at family level.
- 2.3 The diameter of the root and the direction in which it is growing can be an indication of its significance. In addition, the depth at which it is found is critical.
- 2.4 To establish whether the root is alive, iodine is used to test for starch, which is stored in some cells of living tree roots. Starch is broken down by micro-organisms upon the death of a root in the soil.

3. METHOD

- 3.1 Freshly collected sample material is washed to remove any soil from the root surface.
- 3.2 Root samples are then boiled in water to prepare them for sectioning.
- 3.3 Sectioning is carried out using a Reichert OME sliding microtome or a surgical blade to produce transverse and tangential longitudinal root sections of 15 μ m and 30 μ m (micrometres) in thickness.
- 3.4 The sliced root sample is then placed on a glass microscope slide and stained with Chlor-zinc-iodine (Schulze's solution).
- 3.5 The slide is then observed under a high-power microscope and compared to known root samples.

Drainage Report



Site	The Old School The Common Mellis Eye Suffolk IP23 8EE Ref: 119141 Peter Scott and Christine Scott
Client	Catalyst Services UK
Date	28.03.23

REPORT CONTENTS

- 1.0** Drainage investigation summary
- 2.0** Drainage layout plan
- 3.0** CCTV survey recommendations
- 4.0** Detail and condition survey
- 5.0** CCTV survey report

1.0 DRAINAGE INVESTIGATION SUMMARY

A CCTV survey was instructed to establish the structural and operational condition of the drainage system, as part of a subsidence claim.

The fine detail of this CCTV survey is given together with a summary of the findings and relevant recommendations where appropriate (recommendations based solely on *visual* condition of pipework). The following CCTV survey was limited to what was instructed by the engineer and accessible on site.

SUMMARY OF CCTV SURVEY

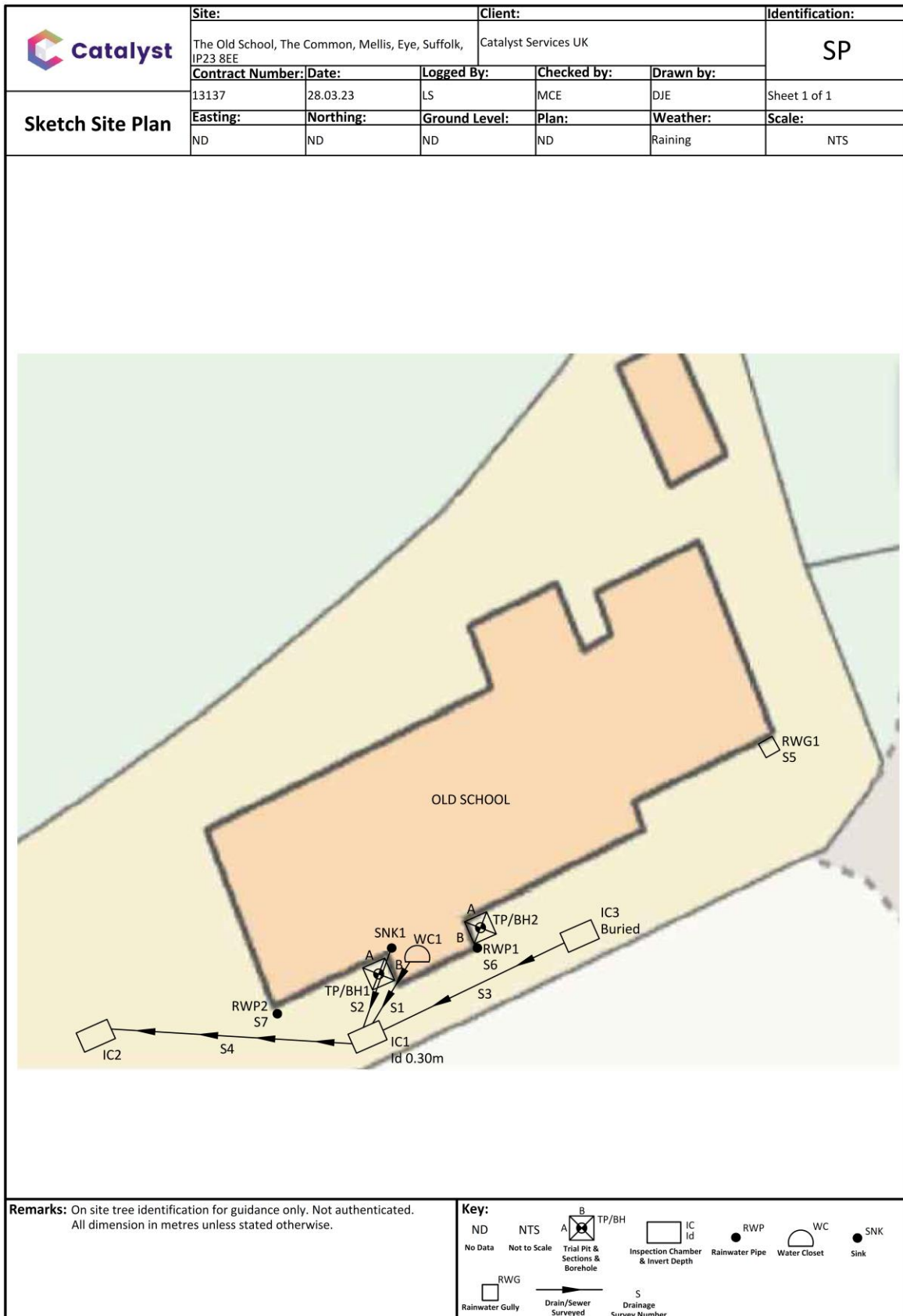
CCTV Section No:	Section of drainage	Duty	Pipe diameter (mm)	Material	Invert depth (m)	Structural Condition Grade	Serviceable? Y/N	Repair Item Y/N
1	IC1 U S WC1	Foul	100	Clay	0.3	C	Y	Y
2	IC1 U S SNK1	Foul	100	Clay	0.3	B	Y	Y
3	IC1 D S IC2	Combined	100	Clay	0.3	B	Y	Y
4	IC1 U S IC3	Combined	100	Clay	0.3	A	Y	Y
5	RWG1 D S U1	Surface	ND	ND	ND	TBC	N	Y
6	RWP1 D S U2	Surface	ND	ND	ND	TBC	N	Y
7	RWP2 D S U3	Surface	ND	ND	ND	TBC	N	Y

A	Structurally sound with no leakage evident. Slight cracks/defects permitted.
B	Cracks and/or fractures observed but pipe provides sufficient arching support. Some leakage may be evident.
C	Structurally unsound with insufficient arching support. Total collapse/blockage likely in the future.

A drain is considered to be serviceable if it is functioning correctly (i.e. carrying away wastewater) at the time of the site inspection and it is judged that it will continue to function correctly for the foreseeable future.









	<i>Abandoned</i>		<i>High Priority</i>		<i>Medium Priority</i>		<i>Low Priority</i>
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2.0 DRAINAGE LAYOUT PLAN



Remarks: On site tree identification for guidance only. Not authenticated.
All dimension in metres unless stated otherwise.

Key:

ND No Data	NTS Not to Scale	 Trial Pit & Sections & Borehole	 Inspection Chamber & Invert Depth	 Rainwater Pipe	 Water Closet	 Sink
 Rainwater Gully	 Drain/Sewer Surveyed	 S Drainage Survey Number				

4.0 DETAIL AND CONDITION SUMMARY

Key: IC Inspection Chamber, m metres, NA Not Applicable, ND No Data, RWP Rainwater Pipe, Rainwater Gully



IC1

Invert depth: 0.3m

Construction: Brick

Condition: Satisfactory



IC2

Invert depth: ND

Construction: ND

Condition: Satisfactory

IC3

Invert depth: ND

Construction: ND

Condition: Buried



RWP1

Invert depth: NA

Construction: ND

Condition: Satisfactory condition



RWP2

Invert depth: NA

Construction: ND

Condition: Satisfactory condition



RWG1

Invert depth: NA

Construction: ND

Condition: Satisfactory condition



Section Inspection - 28/03/2023 - WC1X

Section 1	Inspection 1	Date 28. March 2023	Client's Ref 01	Contractor's Ref	Surface Type	PLR WC1X
Operator CE		Vehicle	Camera	Temperature Above freezing	Pre Cleaned No	Weather No rain or snow

Town or Village: Eye	Inspection Direction: Upstream	US MH: WC1
Road: The Old School, The Common, Mellis Road	Use: Foul	US Depth: 0.00 m
Location: Under a building	Total Length: 3.23 m	DS MH: IC1
Post Code:		DS Depth: 0.30 m

Inspection Purpose	Pipe Shape: Circular
Surface Defects:	Height / Width: 100 / 0mm
Lining Type: None	Pipe Material: Vitrified Clay
Lining Material: None	Standard: BS EN 13508-2:2003

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																																						
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p style="text-align: center;">Depth: 0.30</p> <p style="text-align: center;">Depth: 0.00</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: right;">0.00</td> <td style="width: 5%;">IC</td> <td style="width: 45%;">Start inspection chamber</td> <td style="width: 10%;">00:00:02</td> <td style="width: 10%;">20230328-092631-sn ap0000.jpg</td> <td></td> </tr> <tr> <td style="text-align: right;">0.00</td> <td>WL</td> <td>Water level, 0% of the height</td> <td>00:00:04</td> <td>20230328-092631-sn ap0001.jpg</td> <td style="text-align: center;">A</td> </tr> <tr> <td style="text-align: right;">0.24</td> <td>DES</td> <td>Fine settled deposits, 20% area loss</td> <td>00:02:58</td> <td>20230328-092631-sn ap0002.jpg</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: right;">1.29</td> <td>OJL</td> <td>Large open joint</td> <td>00:03:27</td> <td>20230328-092631-sn ap0003.jpg</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: right;">2.20</td> <td>OJM</td> <td>Medium open joint</td> <td>00:03:51</td> <td>20230328-092631-sn ap0004.jpg</td> <td></td> </tr> <tr> <td style="text-align: right;">2.85</td> <td>OJM</td> <td>Medium open joint</td> <td>00:04:02</td> <td>20230328-092631-sn ap0005.jpg</td> <td></td> </tr> <tr> <td style="text-align: right;">2.93</td> <td>LUF</td> <td>Line deviates up, full</td> <td>00:04:07</td> <td>20230328-092631-sn ap0006.jpg</td> <td></td> </tr> <tr> <td style="text-align: right;">3.15</td> <td>OJM</td> <td>Medium open joint</td> <td>00:04:21</td> <td>20230328-092631-sn ap0007.jpg</td> <td></td> </tr> <tr> <td style="text-align: right;">3.23</td> <td>BRF</td> <td>Finish connection without manhole</td> <td>00:05:02</td> <td>20230328-092631-sn ap0008.jpg</td> <td></td> </tr> </table> </div>							0.00	IC	Start inspection chamber	00:00:02	20230328-092631-sn ap0000.jpg		0.00	WL	Water level, 0% of the height	00:00:04	20230328-092631-sn ap0001.jpg	A	0.24	DES	Fine settled deposits, 20% area loss	00:02:58	20230328-092631-sn ap0002.jpg	B	1.29	OJL	Large open joint	00:03:27	20230328-092631-sn ap0003.jpg	C	2.20	OJM	Medium open joint	00:03:51	20230328-092631-sn ap0004.jpg		2.85	OJM	Medium open joint	00:04:02	20230328-092631-sn ap0005.jpg		2.93	LUF	Line deviates up, full	00:04:07	20230328-092631-sn ap0006.jpg		3.15	OJM	Medium open joint	00:04:21	20230328-092631-sn ap0007.jpg		3.23	BRF	Finish connection without manhole	00:05:02	20230328-092631-sn ap0008.jpg	
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Structural Defects	Construction Features
Service & Operational Observations	Miscellaneous Features

Section Pictures - 28/03/2023 - WC1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	WC1X	01	



20230328-092631-snap0000.jpg, 00:00:02, 0.00 m
Start inspection chamber



20230328-092631-snap0001.jpg, 00:00:04, 0.00 m
Water level, 0% of the height



20230328-092631-snap0002.jpg, 00:02:58, 0.24 m
Fine settled deposits, 20% area loss



20230328-092631-snap0003.jpg, 00:03:27, 1.29 m
Large open joint

Section Pictures - 28/03/2023 - WC1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	WC1X	01	



20230328-092631-snap0004.jpg, 00:03:51, 2.20 m
Medium open joint



20230328-092631-snap0005.jpg, 00:04:02, 2.85 m
Medium open joint



20230328-092631-snap0006.jpg, 00:04:07, 2.93 m
Line deviates up, full



20230328-092631-snap0007.jpg, 00:04:21, 3.15 m
Medium open joint

Section Pictures - 28/03/2023 - WC1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	WC1X	01	



20230328-092631-snap0008.jpg, 00:05:02, 3.23 m
Finish connection without manhole

Section Inspection - 28/03/2023 - SNK1X

Section 2	Inspection 2	Date 28. March 2023	Client's Ref 01	Contractor's Ref	Surface Type	PLR SNK1X
Operator CE		Vehicle	Camera	Temperature Above freezing	Pre Cleaned No	Weather No rain or snow

Town or Village: Eye	Inspection Direction: Upstream	US MH: SNK1
Road: The Old School, The Common, Mellis Road	Use: Foul	US Depth: 0.00 m
Location: Property or buildings	Total Length: 2.01 m	DS MH: IC1
Post Code:		DS Depth: 0.30 m

Inspection Purpose	Pipe Shape: Circular
Surface Defects:	Height / Width: 100 / 0mm
Lining Type: None	Pipe Material: Vitrified Clay
Lining Material: None	Standard: BS EN 13508-2:2003

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																														
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 5%;">IC</td> <td style="width: 45%;">Start inspection chamber</td> <td style="width: 10%;">00:00:04</td> <td style="width: 10%;">20230328-093329-sn ap0000.jpg</td> <td style="width: 5%;"></td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level, 0% of the height</td> <td>00:00:06</td> <td>20230328-093329-sn ap0001.jpg</td> <td style="color: green;">A</td> </tr> <tr> <td>0.46</td> <td>DES</td> <td>Fine settled deposits, 5% area loss</td> <td>00:00:29</td> <td>20230328-093329-sn ap0002.jpg</td> <td style="color: green;">B</td> </tr> <tr> <td>1.79</td> <td>OJM</td> <td>Medium open joint</td> <td>00:00:54</td> <td>20230328-093329-sn ap0003.jpg</td> <td></td> </tr> <tr> <td>2.01</td> <td>BRF</td> <td>Finish connection without manhole</td> <td>00:01:30</td> <td>20230328-093329-sn ap0004.jpg</td> <td></td> </tr> </table> </div>							0.00	IC	Start inspection chamber	00:00:04	20230328-093329-sn ap0000.jpg		0.00	WL	Water level, 0% of the height	00:00:06	20230328-093329-sn ap0001.jpg	A	0.46	DES	Fine settled deposits, 5% area loss	00:00:29	20230328-093329-sn ap0002.jpg	B	1.79	OJM	Medium open joint	00:00:54	20230328-093329-sn ap0003.jpg		2.01	BRF	Finish connection without manhole	00:01:30	20230328-093329-sn ap0004.jpg	
0.00	IC	Start inspection chamber	00:00:04	20230328-093329-sn ap0000.jpg																																
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0.46	DES	Fine settled deposits, 5% area loss	00:00:29	20230328-093329-sn ap0002.jpg	B																															
1.79	OJM	Medium open joint	00:00:54	20230328-093329-sn ap0003.jpg																																
2.01	BRF	Finish connection without manhole	00:01:30	20230328-093329-sn ap0004.jpg																																

Structural Defects	Construction Features
Service & Operational Observations	Miscellaneous Features

Section Pictures - 28/03/2023 - SNK1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SNK1X	01	



20230328-093329-snap0000.jpg, 00:00:04, 0.00 m
Start inspection chamber



20230328-093329-snap0001.jpg, 00:00:06, 0.00 m
Water level, 0% of the height



20230328-093329-snap0002.jpg, 00:00:29, 0.46 m
Fine settled deposits, 5% area loss



20230328-093329-snap0003.jpg, 00:00:54, 1.79 m
Medium open joint

Section Pictures - 28/03/2023 - SNK1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SNK1X	01	



20230328-093329-snap0004.jpg, 00:01:30, 2.01 m
Finish connection without manhole

Section Inspection - 28/03/2023 - IC1X

Section 3	Inspection 3	Date 28. March 2023	Client's Ref 01	Contractor's Ref	Surface Type	PLR IC1X
Operator CE		Vehicle	Camera	Temperature Above freezing	Pre Cleaned No	Weather No rain or snow

Town or Village: Eye	Inspection Direction: Downstream	US MH: IC1
Road: The Old School, The Common, Mellis Road	Use: Combined	US Depth: 0.30 m
Location: Property or buildings	Total Length: 8.89 m	DS MH: IC2
Post Code:		DS Depth: 0.00 m

Inspection Purpose	Pipe Shape: Circular
Surface Defects:	Height / Width: 100 / 0mm
Lining Type: None	Pipe Material: Vitrified Clay
Lining Material: None	Standard: BS EN 13508-2:2003

Comments:
Recommendations:

Scale: 1:75	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																		
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;"> <p>Depth: 0.30</p> <p>IC1</p> <p>IC2</p> <p>Depth: 0.00</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">0.00</td> <td style="width: 5%;">IC</td> <td style="width: 45%;">Start inspection chamber</td> <td style="width: 10%;">00:00:03</td> <td style="width: 10%;">20230328-094135-sn ap0000.jpg</td> <td style="width: 5%;"></td> </tr> <tr> <td style="text-align: right;">0.00</td> <td>WL</td> <td>Water level, 0% of the height</td> <td>00:00:06</td> <td>20230328-094135-sn ap0001.jpg</td> <td>A</td> </tr> <tr> <td style="text-align: right;">0.68</td> <td>WL</td> <td>Water level, 5% of the height</td> <td>00:00:21</td> <td>IC1X_a20c8c4d-f1f0-4193-a962</td> <td>A</td> </tr> <tr> <td style="text-align: right;">1.82</td> <td>R</td> <td>Roots</td> <td>00:00:32</td> <td>20230328-094135-sn ap0002.jpg</td> <td>B</td> </tr> <tr> <td style="text-align: right;">3.08</td> <td>R</td> <td>Roots</td> <td>00:00:47</td> <td>20230328-094135-sn ap0003.jpg</td> <td>B</td> </tr> <tr> <td style="text-align: right;">3.15</td> <td>DES</td> <td>Fine settled deposits, 20% area loss</td> <td>00:01:02</td> <td>20230328-094135-sn ap0004.jpg</td> <td>B</td> </tr> <tr> <td style="text-align: right;">4.29</td> <td>R</td> <td>Roots</td> <td>00:02:32</td> <td>20230328-094135-sn ap0005.jpg</td> <td>B</td> </tr> <tr> <td style="text-align: right;">4.33</td> <td>DES</td> <td>Fine settled deposits, 30% area loss</td> <td>00:02:37</td> <td>IC1X_25435ae2-dce b-4ab0-8d</td> <td>B</td> </tr> <tr> <td style="text-align: right;">5.24</td> <td>R</td> <td>Roots</td> <td>00:02:46</td> <td>20230328-094135-sn ap0006.jpg</td> <td>B</td> </tr> <tr> <td style="text-align: right;">6.76</td> <td>WL</td> <td>Water level, 25% of the height</td> <td>00:03:37</td> <td>20230328-094135-sn ap0007.jpg</td> <td>A</td> </tr> <tr> <td style="text-align: right;">8.89</td> <td>ICF</td> <td>Finish inspection chamber</td> <td>00:05:04</td> <td>20230328-094135-sn ap0008.jpg</td> <td></td> </tr> </table> </div>							0.00	IC	Start inspection chamber	00:00:03	20230328-094135-sn ap0000.jpg		0.00	WL	Water level, 0% of the height	00:00:06	20230328-094135-sn ap0001.jpg	A	0.68	WL	Water level, 5% of the height	00:00:21	IC1X_a20c8c4d-f1f0-4193-a962	A	1.82	R	Roots	00:00:32	20230328-094135-sn ap0002.jpg	B	3.08	R	Roots	00:00:47	20230328-094135-sn ap0003.jpg	B	3.15	DES	Fine settled deposits, 20% area loss	00:01:02	20230328-094135-sn ap0004.jpg	B	4.29	R	Roots	00:02:32	20230328-094135-sn ap0005.jpg	B	4.33	DES	Fine settled deposits, 30% area loss	00:02:37	IC1X_25435ae2-dce b-4ab0-8d	B	5.24	R	Roots	00:02:46	20230328-094135-sn ap0006.jpg	B	6.76	WL	Water level, 25% of the height	00:03:37	20230328-094135-sn ap0007.jpg	A	8.89	ICF	Finish inspection chamber	00:05:04	20230328-094135-sn ap0008.jpg	
0.00	IC	Start inspection chamber	00:00:03	20230328-094135-sn ap0000.jpg																																																																				
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1.82	R	Roots	00:00:32	20230328-094135-sn ap0002.jpg	B																																																																			
3.08	R	Roots	00:00:47	20230328-094135-sn ap0003.jpg	B																																																																			
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5.24	R	Roots	00:02:46	20230328-094135-sn ap0006.jpg	B																																																																			
6.76	WL	Water level, 25% of the height	00:03:37	20230328-094135-sn ap0007.jpg	A																																																																			
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Structural Defects	Construction Features
Service & Operational Observations	Miscellaneous Features

Section Pictures - 28/03/2023 - IC1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	IC1X	01	



20230328-094135-snap0000.jpg, 00:00:03, 0.00 m
Start inspection chamber



20230328-094135-snap0001.jpg, 00:00:06, 0.00 m
Water level, 0% of the height



IC1X_a20c8c4d-f1f0-4193-a962-74e9b010f8c6_20230403_095800_412.jpg, 00:00:21, 0.68 m
Water level, 5% of the height



20230328-094135-snap0002.jpg, 00:00:32, 1.82 m
Roots

Section Pictures - 28/03/2023 - IC1X

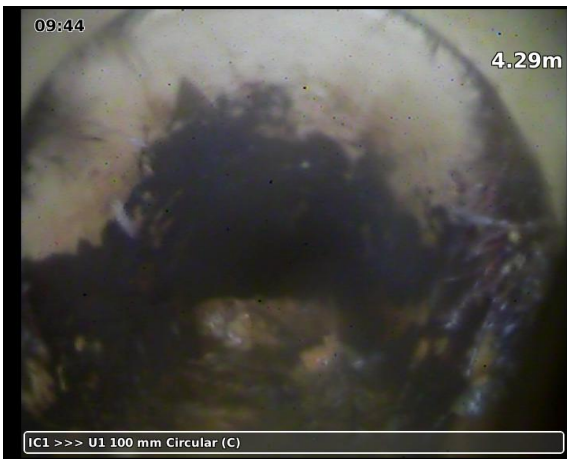
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	IC1X	01	



20230328-094135-snap0003.jpg, 00:00:47, 3.08 m
Roots



20230328-094135-snap0004.jpg, 00:01:02, 3.15 m
Fine settled deposits, 20% area loss



20230328-094135-snap0005.jpg, 00:02:32, 4.29 m
Roots



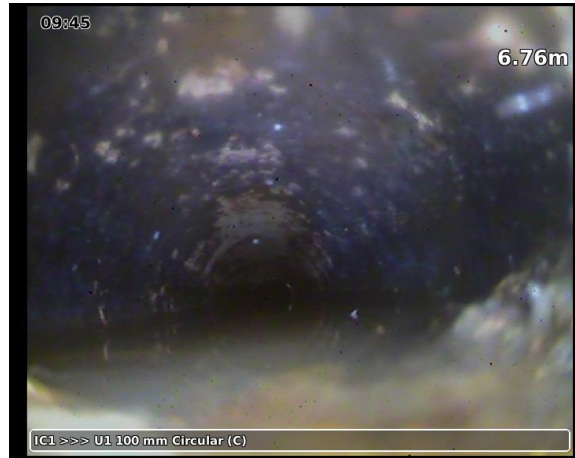
IC1X_25435ae2-dceb-4ab0-8dd4-7d4206f49c7d_20230403_1
00133_106.jpg, 00:02:37, 4.33 m
Fine settled deposits, 30% area loss

Section Pictures - 28/03/2023 - IC1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	IC1X	01	



20230328-094135-snap0006.jpg, 00:02:46, 5.24 m
Roots



20230328-094135-snap0007.jpg, 00:03:37, 6.76 m
Water level, 25% of the height



20230328-094135-snap0008.jpg, 00:05:04, 8.89 m
Finish inspection chamber

Section Inspection - 28/03/2023 - IC3X

Section 4	Inspection 4	Date 28. March 2023	Client's Ref 01	Contractor's Ref	Surface Type	PLR IC3X
Operator CE		Vehicle	Camera	Temperature Above freezing	Pre Cleaned No	Weather No rain or snow

Town or Village: Eye	Inspection Direction: Upstream	US MH: IC3
Road: The Old School, The Common, Mellis Road	Use: Combined	US Depth: 0.00 m
Location: Property or buildings	Total Length: 8.25 m	DS MH: IC1
Post Code:		DS Depth: 0.30 m

Inspection Purpose	Pipe Shape: Circular
Surface Defects:	Height / Width: 100 / 0mm
Lining Type: None	Pipe Material: Vitrified Clay
Lining Material: None	Standard: BS EN 13508-2:2003

Comments:
Recommendations:

Scale: 1:69	Position [m]	Code	Observation	MPEG	Photo	Grade																												
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p style="margin: 0;">Depth: 0.30</p> <p style="margin: 0;">IC1</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-left: 10px;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%;">0.00</td> <td style="width: 5%;">IC</td> <td style="width: 45%;">Start inspection chamber</td> <td style="width: 10%;">00:00:06</td> <td style="width: 10%;">20230328-095032-sn ap0000.jpg</td> <td style="width: 5%;"></td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level, 0% of the height</td> <td>00:00:10</td> <td>20230328-095032-sn ap0001.jpg</td> <td style="color: green;">A</td> </tr> <tr> <td></td> <td>3.34</td> <td>R</td> <td>Roots</td> <td>00:00:34</td> <td>20230328-095032-sn ap0002.jpg</td> <td style="color: green;">B</td> </tr> <tr> <td></td> <td>8.25</td> <td>ICF</td> <td>Finish inspection chamber</td> <td>00:04:05</td> <td>20230328-095032-sn ap0003.jpg</td> <td></td> </tr> </table> </div>								0.00	IC	Start inspection chamber	00:00:06	20230328-095032-sn ap0000.jpg			0.00	WL	Water level, 0% of the height	00:00:10	20230328-095032-sn ap0001.jpg	A		3.34	R	Roots	00:00:34	20230328-095032-sn ap0002.jpg	B		8.25	ICF	Finish inspection chamber	00:04:05	20230328-095032-sn ap0003.jpg	
	0.00	IC	Start inspection chamber	00:00:06	20230328-095032-sn ap0000.jpg																													
	0.00	WL	Water level, 0% of the height	00:00:10	20230328-095032-sn ap0001.jpg	A																												
	3.34	R	Roots	00:00:34	20230328-095032-sn ap0002.jpg	B																												
	8.25	ICF	Finish inspection chamber	00:04:05	20230328-095032-sn ap0003.jpg																													

Structural Defects	Construction Features
Service & Operational Observations	Miscellaneous Features

Section Pictures - 28/03/2023 - IC3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	IC3X	01	



20230328-095032-snap0000.jpg, 00:00:06, 0.00 m
Start inspection chamber



20230328-095032-snap0001.jpg, 00:00:10, 0.00 m
Water level, 0% of the height



20230328-095032-snap0002.jpg, 00:00:34, 3.34 m
Roots



20230328-095032-snap0003.jpg, 00:04:05, 8.25 m
Finish inspection chamber

REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (kN/m) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

Full terms and conditions are available upon request.