



Project

Project Name: GR51719_CCTV
Project Description: CCTV SURVEY
Project Number: GR51719
Project Status: Complete
Project Date: 10/11/2022
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)



**CCTV
DRAINAGE
SURVEYS**

**THE UK'S LEADING
INTEGRATED
SURVEY SPECIALISTS**

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GR51719 CCTV

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Project Date
10/11/2022

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Project Information

Project Name
GR51719 CCTV

Project Number
GR51719

Project Date
10/11/2022

Client

Company: Lochailort Investments
Contact: Hugo Haig
Street: Eagle house, 108-110 Jermyn Street
Town or City: London
County: Greater London
Post Code: SW1Y 6EE
Phone: 0203 468 4933
Mobile: 07983 608208
Email: hugo@lochailort-investments.com



Site

Street: B1506, Forest Heath
Town or City: Newmarket
County: Suffolk
Post Code: CB8 7QD

Contractor

Company: Subscan UDS Limited
Description: Subscan House
Contact: Chris Smith
Department: CCTV Coordinator
Street: 126 Whitehall Road
Town or City: Leeds
County: West Yorkshire
Post Code: LS12 1AE
Phone: 0344 499 5220
Email: chris.smith@subscan.com



Scoring Summary

Project Name
GR51719_CCTV

Project Number
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Project Date
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Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
11	MH14X	3	Multiple defects

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
2	MH2X	3	Multiple defects
3	MH3X	3	Multiple defects
4	MH4X	3	Multiple defects
5	MH6X	3	Multiple defects
7	MH7X	3	Joint displaced, medium
8	MH16X	3	Joint displaced, medium
10	MH14X	5	Roots, mass at joint, 20% cross-sectional area loss
12	MH13AX	3	Joint displaced, medium
13	MH13X	3	Multiple defects
14	MH12X	5	Roots, mass at joint, 30% cross-sectional area loss, finish
15	MH11X	3	Multiple defects

Information

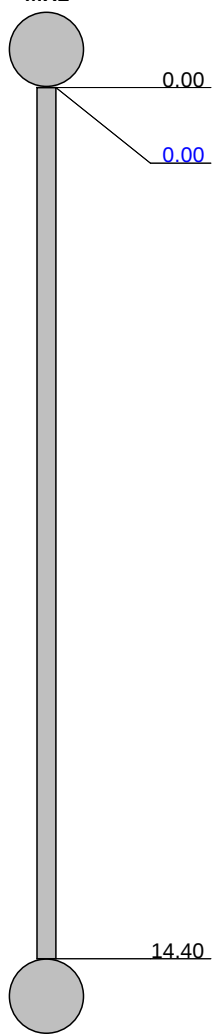
These scoring summaries are based on the SRM grading from the WRc.

Section Inspection - 10/11/2022 - MH1X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	10/11/22	7:41	Not Specified	No Rain Or Snow	Yes	MH1X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
KS01		Not Specified		Not Specified	Not Specified	Private Sewer	Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Upstream	Upstream Node:	MH1
Road:	Sire Lane	Inspected Length:	14.40 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	14.40 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:125	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH2 							
		0.00	MH	Start node, manhole, reference: MH2	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
		14.40	MHF	Finish node, manhole, reference: MH1	00:02:09		
Depth: m MH1							

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

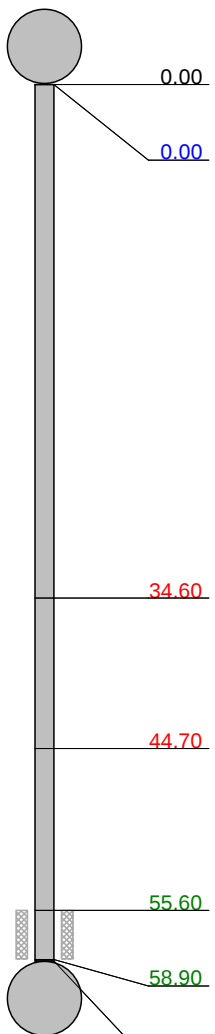
Section Inspection - 10/11/2022 - MH2X

Item No. 2	Insp. No. 1	Date 10/11/22	Time 7:46	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH2X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH2
Road:	Sire Lane	Inspected Length:	59.00 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	59.00 m	Downstream Node:	MH3
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:509	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH2 						
	0.00	MH	Start node, manhole, reference: MH2	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		
	34.60	OJM	Open joint, medium	00:05:48	1	1
	44.70	JDM	Joint displaced, medium	00:07:38	2	1 / 3
	55.60	S01 DERJ	Settled deposits, coarse at joint, 5% cross-sectional area loss, start	00:09:29	3	
	58.90	F01 DERJ	Settled deposits, coarse at joint, 5% cross-sectional area loss, finish	00:10:13		3
	59.00	MHF	Finish node, manhole, reference: MH3	00:12:27		

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	1.0	0.0	2.0	1.0	2	2.0	0.2	10.0	3.0

Section Pictures - 10/11/2022 - MH2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	MH2X		



1, 00:05:48, 34.60 m
 Open joint, medium



2, 00:07:38, 44.70 m
 Joint displaced, medium



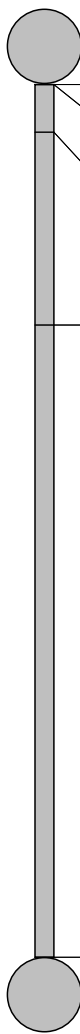
3, 00:09:29, 55.60 m
 Settled deposits, coarse at joint, 5% cross-sectional area loss, start

Section Inspection - 10/11/2022 - MH3X

Item No. 3	Insp. No. 1	Date 10/11/22	Time 8:31	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH3X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH3
Road:	Sire Lane	Inspected Length:	12.70 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	12.70 m	Downstream Node:	MH4
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:110	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH3 						
0.00	MH	Start node, manhole, reference: MH3	00:00:00			
0.00	WL	Water level, 5% of the vertical dimension	00:00:05			
0.70	DEC	Settled deposits, hard or compacted, 5% cross-sectional area loss	00:00:18	1	3	
3.50	DER	Settled deposits, coarse, 5% cross-sectional area loss	00:00:46	2	3	
12.70	MHF	Finish node, manhole, reference: MH4	00:02:36			
Depth: m MH4						

Construction Features
Miscellaneous Features
Structural Defects
Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	2.0	0.3	4.0	3.0

Section Pictures - 10/11/2022 - MH3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH3X		



1, 00:00:18, 0.70 m
 Settled deposits, hard or compacted, 5% cross-sectional area loss



2, 00:00:46, 3.50 m
 Settled deposits, coarse, 5% cross-sectional area loss

Section Pictures - 10/11/2022 - MH4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	MH4X		



1, 00:00:35, 2.60 m
 Settled deposits, fine at joint, 5% cross-sectional area loss,
 start



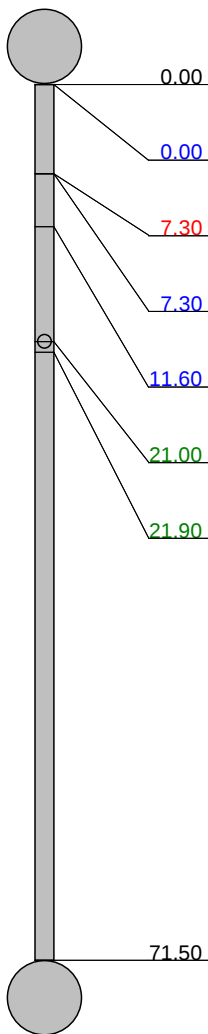
2, 00:04:12, 20.10 m
 Settled deposits, coarse at joint, 5% cross-sectional area loss,
 start

Section Inspection - 10/11/2022 - MH6X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	10/11/22	8:54	Not Specified	No Rain Or Snow	Yes	MH6X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
KS01		Not Specified		Not Specified	Not Specified	Private Sewer	Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Upstream	Upstream Node:	MH6
Road:	Sire Lane	Inspected Length:	71.50 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	71.50 m	Downstream Node:	MH5
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:	
Recommendations:	

Scale:	1:617	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH5 							
		0.00	MH	Start node, manhole, reference: MH5	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
		7.30	JDM	Joint displaced, medium	00:01:04	1	1 / 3
		7.30	WL	Water level, 10% of the vertical dimension	00:01:06		
		11.60	WL	Water level, 5% of the vertical dimension	00:01:31		
		21.00	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 150mm dia, intrusion: 10%	00:03:03	2	3
		21.90	RF	Roots, fine	00:03:22		2
		71.50	MHF	Finish node, manhole, reference: MH6	00:28:05		
Depth: m MH6							

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	3	2.0	0.1	5.0	3.0

Section Pictures - 10/11/2022 - MH6X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Upstream	MH6X		



1, 00:01:04, 7.30 m
 Joint displaced, medium



2, 00:03:03, 21.00 m
 Connection defective, connecting pipe is intruding at 12 o'clock, 150mm dia, intrusion: 10%

Section Inspection - 10/11/2022 - MH5X

Item No. 6	Insp. No. 1	Date 10/11/22	Time 10:26	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH5X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH5
Road:	Sire Lane	Inspected Length:	14.20 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	14.20 m	Downstream Node:	MH7
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:123	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH5 0.00 0.00 14.20 MH7 Depth: m							
			MH	Start node, manhole, reference: MH5	00:00:00		
			WL	Water level, 5% of the vertical dimension	00:00:03		
			MHF	Finish node, manhole, reference: MH7	00:01:31		

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 10/11/2022 - MH7X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	1	10/11/22	10:33	Not Specified	No Rain Or Snow	Yes	MH7X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
KS01		Not Specified		Not Specified	Not Specified	Private Sewer	Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH7
Road:	Sire Lane	Inspected Length:	11.30 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	11.30 m	Downstream Node:	PUMP ST
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:98	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH7							
		0.00	MH	Start node, manhole, reference: MH7	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:05		
		10.90	JDM	Joint displaced, medium	00:01:29	1	1 / 3
		11.30	MHF	Finish node, manhole, reference: PUMP ST	00:01:47		
PUMP ST Depth: m							

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.1	1.0	1.0	1	2.0	0.2	2.0	3.0

Section Pictures - 10/11/2022 - MH7X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH7X		

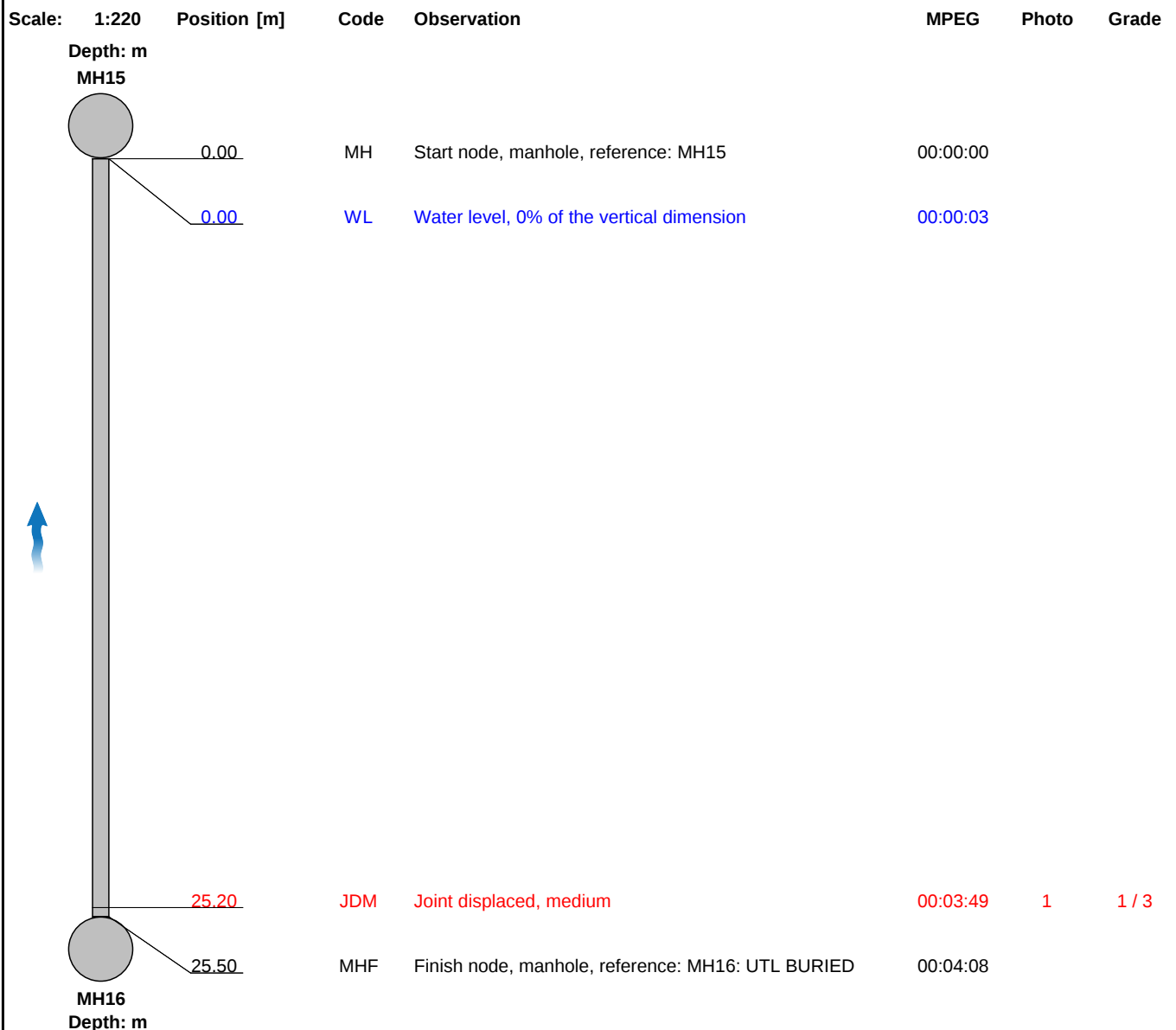


1, 00:01:29, 10.90 m
 Joint displaced, medium



Item No. 8	Insp. No. 1	Date 10/11/22	Time 12:18	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH16X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Upstream	Upstream Node:	MH16
Road:	Sire Lane	Inspected Length:	25.50 m	Upstream Pipe Depth:	
Location:	Verge	Total Length:	25.50 m	Downstream Node:	MH15
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Recommendations:

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	1	2.0	0.1	2.0	3.0

Section Pictures - 10/11/2022 - MH16X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	MH16X		



1, 00:03:49, 25.20 m
 Joint displaced, medium



Item No. 9	Insp. No. 1	Date 10/11/22	Time 12:32	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH15X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH15
Road:	Sire Lane	Inspected Length:	46.50 m	Upstream Pipe Depth:	
Location:	Verge	Total Length:	46.50 m	Downstream Node:	MH14
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Recommendations:

Scale:	1:401	Position [m]	Code	Observation	MPEG	Photo	Grade	
		0.00	MH	Start node, manhole, reference: MH15	00:00:00			
		0.00	WL	Water level, 5% of the vertical dimension	00:00:03			
		45.50	S01	RF	Roots, fine, start	00:05:52	1	
		46.50	F01	RF	Roots, fine, finish	00:06:33		2
		46.50	MHF	Finish node, manhole, reference: MH14	00:06:38			

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.0	1.0	2.0

Section Pictures - 10/11/2022 - MH15X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	MH15X		



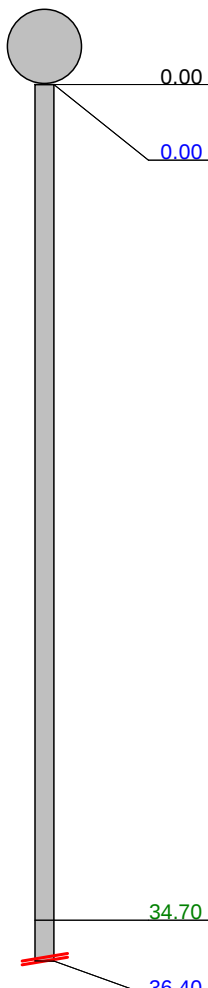
1, 00:05:52, 45.50 m
Roots, fine, start

Section Inspection - 10/11/2022 - MH14X

Item No. 10	Insp. No. 1	Date 10/11/22	Time 12:40	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH14X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH14
Road:	Sire Lane	Inspected Length:	36.40 m	Upstream Pipe Depth:	
Location:	Verge	Total Length:	36.40 m	Downstream Node:	MH13
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:314	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH14 						
	0.00	MH	Start node, manhole, reference: MH14	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
	34.70	RMJ	Roots, mass at joint, 20% cross-sectional area loss	00:07:01	1	5
	36.40	SA	Survey abandoned: RMJ	00:14:09		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	0.3	10.0	5.0

Section Pictures - 10/11/2022 - MH14X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	MH14X		



1, 00:07:01, 34.70 m

Roots, mass at joint, 20% cross-sectional area loss

Section Inspection - 10/11/2022 - MH14X

Item No. 11	Insp. No. 1	Date 10/11/22	Time 13:12	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH14X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH14
Road:	Sire Lane	Inspected Length:	75.50 m	Upstream Pipe Depth:	
Location:	Verge	Total Length:	75.50 m	Downstream Node:	MH13
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:651	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH14						
	0.00	MH	Start node, manhole, reference: MH14	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:05		
	35.30	JDM	Joint displaced, medium	00:05:38	1	1 / 3
	41.50	RMJ	Roots, mass at joint, 5% cross-sectional area loss	00:06:42	2	3
	41.70	JN	Junction at 3 o'clock, 100mm dia	00:06:51		
	74.00 S01	FLJ	Fracture, longitudinal at joint at 3 o'clock, start	00:22:26	3	
	74.00 S02	FLJ	Fracture, longitudinal at joint at 9 o'clock, start	00:22:26	4	
	75.50 F01	FLJ	Fracture, longitudinal at joint at 3 o'clock, finish	00:22:26		3 / 2
	75.50 F02	FLJ	Fracture, longitudinal at joint at 9 o'clock, finish	00:22:26		3 / 2
	75.50	MHF	Finish node, manhole, reference: MH13	00:24:13		
	Depth: m					

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	1.0	1.0	79.0	3.0	4	4.0	0.1	4.0	3.0

Section Pictures - 10/11/2022 - MH14X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Downstream	MH14X		



1, 00:05:38, 35.30 m
 Joint displaced, medium



2, 00:06:42, 41.50 m
 Roots, mass at joint, 5% cross-sectional area loss



3, 00:22:26, 74.00 m
 Fracture, longitudinal at joint at 3 o'clock, start



4, 00:22:26, 74.00 m
 Fracture, longitudinal at joint at 9 o'clock, start

Section Pictures - 11/11/2022 - MH13AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	MH13AX		



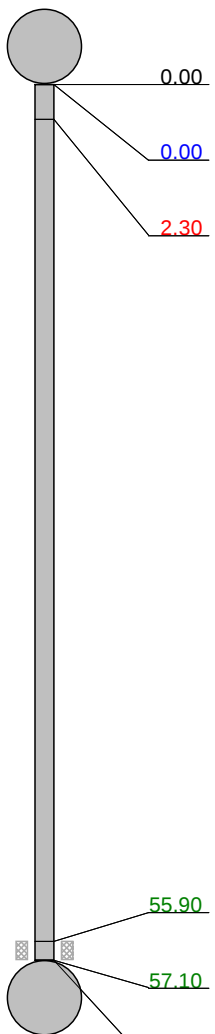
1, 00:00:25, 2.90 m
Joint displaced, medium

Section Inspection - 11/11/2022 - MH13X

Item No. 13	Insp. No. 1	Date 11/11/22	Time 8:25	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH13X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Upstream	Upstream Node:	MH13
Road:	Sire Lane	Inspected Length:	57.10 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	57.10 m	Downstream Node:	MH13A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:493	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH13A 						
0.00	MH		Start node, manhole, reference: MH13A	00:00:00		
0.00	WL		Water level, 0% of the vertical dimension	00:00:04		
2.30	JDM		Joint displaced, medium	00:00:27	1	1 / 3
55.90	S01	RMJ	Roots, mass at joint, 10% cross-sectional area loss, start	00:14:30	2	
57.10	F01	RMJ	Roots, mass at joint, 10% cross-sectional area loss, finish	00:14:36		3
57.10	MHF		Finish node, manhole, reference: MH13	00:14:43		
Depth: m MH13						

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	2	4.0	0.2	10.0	3.0

Section Pictures - 11/11/2022 - MH13X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Upstream	MH13X		



1, 00:00:27, 2.30 m
 Joint displaced, medium



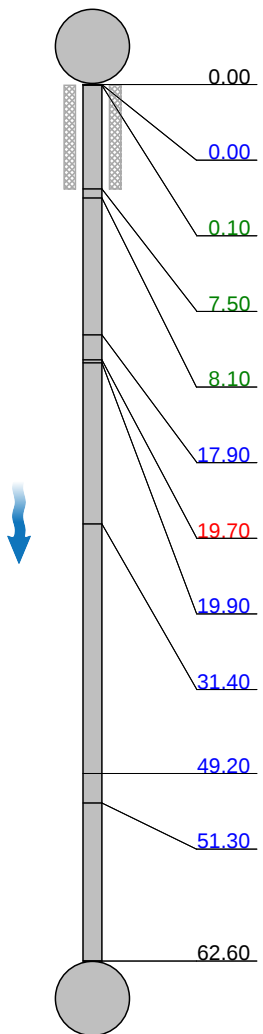
2, 00:14:30, 55.90 m
 Roots, mass at joint, 10% cross-sectional area loss, start

Section Inspection - 11/11/2022 - MH12X

Item No. 14	Insp. No. 1	Date 11/11/22	Time 9:23	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH12X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Downstream	Upstream Node:	MH12
Road:	Sire Lane	Inspected Length:	62.60 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	62.60 m	Downstream Node:	MH11
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:540	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH12  Depth: m MH11						
	0.00	MH	Start node, manhole, reference: MH12	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:05		
	0.10	S01	RMJ	Roots, mass at joint, 30% cross-sectional area loss, start	00:00:25	1
	7.50	F01	RMJ	Roots, mass at joint, 30% cross-sectional area loss, finish	00:01:20	5
	8.10	RFJ	Roots, fine at joint	00:01:29	2	2
	17.90	WL	Water level, 10% of the vertical dimension	00:02:29		
	19.70	JDM	Joint displaced, medium	00:02:33	3	1 / 3
	19.90	WL	Water level, 0% of the vertical dimension	00:02:37		
	31.40	WL	Water level, 5% of the vertical dimension	00:03:45		
	49.20	WL	Water level, 10% of the vertical dimension	00:05:30		
	51.30	WL	Water level, 5% of the vertical dimension	00:05:43		
	62.60	MHF	Finish node, manhole, reference: MH11	00:08:10		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	3	12.0	1.3	83.0	5.0

Section Pictures - 11/11/2022 - MH12X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
14	Downstream	MH12X		



1, 00:00:25, 0.10 m
 Roots, mass at joint, 30% cross-sectional area loss, start



2, 00:01:29, 8.10 m
 Roots, fine at joint



3, 00:02:33, 19.70 m
 Joint displaced, medium

Section Inspection - 11/11/2022 - MH11X

Item No. 15	Insp. No. 1	Date 11/11/22	Time 10:25	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH11X
Operator KS01		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Kentford Newmarket	Inspection Direction:	Upstream	Upstream Node:	MH11
Road:	Sire Lane	Inspected Length:	69.70 m	Upstream Pipe Depth:	
Location:	Fields, farmland etc	Total Length:	69.70 m	Downstream Node:	MH6
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:601	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH6 0.00 0.00 38.50 43.30 44.70 44.70 47.70 50.80 53.80 57.00 57.50 69.70 MH11 Depth: m						
	0.00	MH	Start node, manhole, reference: MH6	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
	38.50	JDM	Joint displaced, medium	00:10:13	1	1 / 3
	43.30	JDM	Joint displaced, medium	00:14:56	2	1 / 3
	44.70	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss	00:16:41	3	3
	44.70	WL	Water level, 10% of the vertical dimension	00:16:59		
	47.70	WL	Water level, 5% of the vertical dimension	00:18:05		
	50.80	JDM	Joint displaced, medium	00:22:02	4	1 / 3
	53.80	S01 DERJ	Settled deposits, coarse at joint, 5% cross-sectional area loss, start	00:25:34	5	
	57.00	F01 DERJ	Settled deposits, coarse at joint, 5% cross-sectional area loss, finish	00:25:51		3
	57.50	JDM	Joint displaced, medium	00:26:07	6	1 / 3
	69.70	MHF	Finish node, manhole, reference: MH11	00:33:15		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	4.0	0.1	4.0	1.0	6	10.0	0.3	18.0	5.0

Section Pictures - 11/11/2022 - MH11X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
15	Upstream	MH11X		



1, 00:10:13, 38.50 m
 Joint displaced, medium



2, 00:14:56, 43.30 m
 Joint displaced, medium



3, 00:16:41, 44.70 m
 Settled deposits, hard or compacted, 10% cross-sectional area loss



4, 00:22:02, 50.80 m
 Joint displaced, medium

Section Pictures - 11/11/2022 - MH11X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
15	Upstream	MH11X		



5, 00:25:34, 53.80 m
 Settled deposits, coarse at joint, 5% cross-sectional area loss, start



6, 00:26:07, 57.50 m
 Joint displaced, medium