

Tower Surveys

Associates

Chartered Surveyors

Geomatics - Land, Utilities, Engineering & Building

Tower Surveys Associates

18-20 The Ropewalk, Nottingham

james.hulme@towersurveysassociates.biz

Section Inspection - 17/10/2023 - RE?

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
24	1	17/10/23	9:05	TSA-23-2537	No Rain Or Snow	No	RE?
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RE?
Road:	The Bank	Inspected Length:	0.48 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.48 m	Downstream Node:	MH9 C
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH9 C

0.00

0.00

0.00

0.48

0.48

MH

WL

CC

LU

SA

Start node, manhole, reference: MH9 C

Water level, 0% of the vertical dimension

Crack, circumferential from 3 o'clock to 9 o'clock

Line deviates up

Survey abandoned: Unable to pass upward deviation

00:00:00

00:00:03

00:00:43

00:00:43

1

2

2 / 2

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	10.0	20.8	10.0	2.0	1	1.0	2.1	1.0	3.0

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Section Pictures - 17/10/2023 - RE?

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
24	Upstream	RE?	TSA-23-2537	TSA-23-2537



1, 00:00:03, 0.00 m
Crack, circumferential from 3 o'clock to 9 o'clock



2, 00:00:43, 0.48 m
Line deviates up

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Item No. 25	Insp. No. 1	Date 17/10/23	Time 9:06	Client's Job Ref TSA-23-2537	Weather No Rain Or Snow	Pre Cleaned No	PLR DOWNPIPE
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

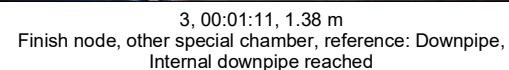
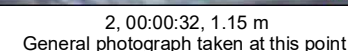
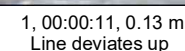
Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	The Bank	Inspected Length:	1.38 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.38 m	Downstream Node:	MH9 D
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

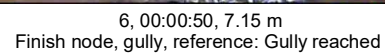
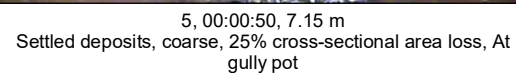
Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																									
Depth: m MH9 D 0.00 0.00 0.13 1.15 1.38 Downpipe Depth: m <table><tr><td>MH</td><td>Start node, manhole, reference: MH9 D</td><td>00:00:00</td><td></td><td></td></tr><tr><td>WL</td><td>Water level, 0% of the vertical dimension</td><td></td><td></td><td></td></tr><tr><td>LU</td><td>Line deviates up</td><td>00:00:11</td><td>1</td><td></td></tr><tr><td>GP</td><td>General photograph taken at this point</td><td>00:00:32</td><td>2</td><td></td></tr><tr><td>OCF</td><td>Finish node, other special chamber, reference: Downpipe: Internal downpipe reached</td><td>00:01:11</td><td>3</td><td></td></tr></table>							MH	Start node, manhole, reference: MH9 D	00:00:00			WL	Water level, 0% of the vertical dimension				LU	Line deviates up	00:00:11	1		GP	General photograph taken at this point	00:00:32	2		OCF	Finish node, other special chamber, reference: Downpipe: Internal downpipe reached	00:01:11	3	
MH	Start node, manhole, reference: MH9 D	00:00:00																													
WL	Water level, 0% of the vertical dimension																														
LU	Line deviates up	00:00:11	1																												
GP	General photograph taken at this point	00:00:32	2																												
OCF	Finish node, other special chamber, reference: Downpipe: Internal downpipe reached	00:01:11	3																												

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

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
25	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537





Scale:	1:77	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH10 X							
			MH	Start node, manhole, reference: MH10 X	00:00:00		
			WL	Water level, 0% of the vertical dimension			
			GP	General photograph taken at this point	00:00:02	1	
			LR	Line deviates right	00:00:06	2	
			LD	Line deviates down	00:00:13	3	
			LL	Line deviates left	00:00:17	4	
			LD	Line deviates down	00:00:17	5	
			GP	General photograph taken at this point	00:00:28	6	
			LD	Line deviates down	00:00:34	7	
			REM	General remark: Sewer levels out at this point	00:00:39	8	
MH7 Depth: m			MHF	Finish node, manhole, reference: MH7 reached	00:00:52	9	

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Section Pictures - 17/10/2023 - MH10 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
27	Downstream	MH10 X	TSA-23-2537	TSA-23-2537



1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:06, 0.51 m
Line deviates right



3, 00:00:13, 2.23 m
Line deviates down



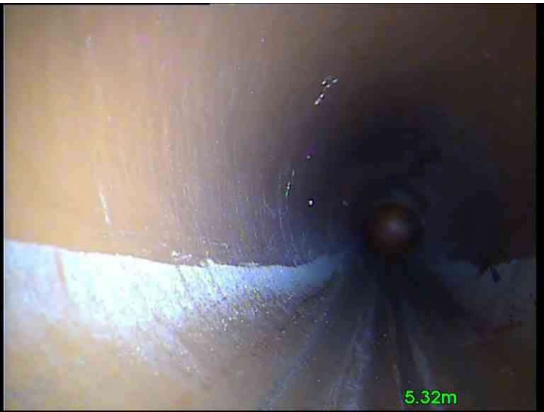
4, 00:00:17, 3.56 m
Line deviates left

Section Pictures - 17/10/2023 - MH10 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
27	Downstream	MH10 X	TSA-23-2537	TSA-23-2537



5, 00:00:17, 3.56 m
Line deviates down



6, 00:00:28, 5.32 m
General photograph taken at this point



7, 00:00:34, 6.62 m
Line deviates down



8, 00:00:39, 7.31 m
General remark, Sewer levels out at this point

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Section Pictures - 17/10/2023 - MH10 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
27	Downstream	MH10 X	TSA-23-2537	TSA-23-2537



9, 00:00:52, 8.78 m
Finish node, manhole, reference: MH7 reached

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Section Inspection - 17/10/2023 - MH11 UTL

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
28	1	17/10/23	9:06	TSA-23-2537	No Rain Or Snow	No	MH11 UTL
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

Road:

Location:

Surface Type:

Use:

Type of Pipe:

Flow Control:

Year Constructed:

Inspection Purpose:

London

The Bank

Property or buildings

Surface water

Gravity drain/sewer

No flow control

Not Specified

Routine inspection

Inspection Direction:

Inspected Length:

Total Length:

Joint Length:

Pipe Shape:

Dia/Height:

Pipe Material:

Lining Type:

Lining Material:

Upstream

28.37 m

28.37 m

Circular

150 mm

Polyvinyl chloride

No Lining

No Lining

Upstream Node: MH11 UTL

Upstream Pipe Depth:

Downstream Node: MH10 A

Downstream Pipe Depth:

Comments:

Recommendations:

Scale: 1:246

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH10 A

0.00

MH

Start node, manhole, reference: MH10 A

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

LU

Line deviates up

00:00:02

1

0.40

REM

General remark: Sewer levels out at this point

00:00:10

2

3.26

LL

Line deviates left

00:00:23

3

5.28

GP

General photograph taken at this point

00:00:32

4

10.32

GP

General photograph taken at this point

00:00:45

5

15.58

GP

General photograph taken at this point

00:00:59

6

20.34

GP

General photograph taken at this point

00:01:14

7

25.54

GP

General photograph taken at this point

00:01:26

8

28.37

MHF

Finish node, manhole, reference: MH11 UTL reached

00:01:34

9

MH11 UTL

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - MH11 UTL

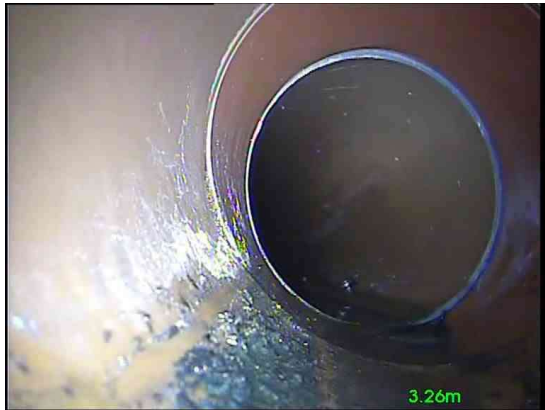
Item No. 28	Inspection Direction Upstream	PLR MH11 UTL	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:02, 0.00 m
Line deviates up



2, 00:00:10, 0.40 m
General remark, Sewer levels out at this point



3, 00:00:23, 3.26 m
Line deviates left



4, 00:00:32, 5.28 m
General photograph taken at this point



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Section Pictures - 17/10/2023 - MH11 UTL

Item No. 28	Inspection Direction Upstream	PLR MH11 UTL	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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5, 00:00:45, 10.32 m
General photograph taken at this point



6, 00:00:59, 15.58 m
General photograph taken at this point



7, 00:01:14, 20.34 m
General photograph taken at this point



8, 00:01:26, 25.54 m
General photograph taken at this point

Section Pictures - 17/10/2023 - MH11 UTL

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
28	Upstream	MH11 UTL	TSA-23-2537	TSA-23-2537



9, 00:01:34, 28.37 m
Finish node, manhole, reference: MH11 UTL reached

Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
29	1	17/10/23	9:06	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	5.51 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	5.51 m	Downstream Node:	MH11 A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

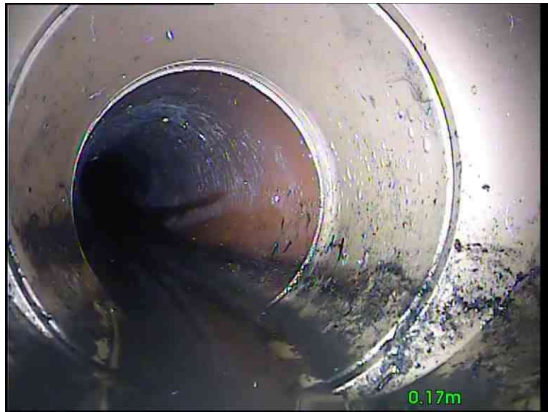
Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH11 A							
		0.00	MH	Start node, manhole, reference: MH11 A	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension			
		0.17	SC	Pipe size changes, new size(s), 100mm high	00:00:07	1	
		0.66	GP	General photograph taken at this point	00:00:13	2	
		3.25	LL	Line deviates left	00:00:24	3	
		3.25	LU	Line deviates up	00:00:24	4	
		4.13	GP	General photograph taken at this point	00:00:30	5	
		5.51	OCF	Finish node, other special chamber, reference: RWP: RWP reached	00:00:36	6	
RWP 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
29	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:07, 0.17 m
Pipe size changes, new size(s), 100mm high



2, 00:00:13, 0.66 m
General photograph taken at this point



3, 00:00:24, 3.25 m
Line deviates left



4, 00:00:24, 3.25 m
Line deviates up

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
29	Upstream	RWP	TSA-23-2537	TSA-23-2537



5, 00:00:30, 4.13 m
General photograph taken at this point



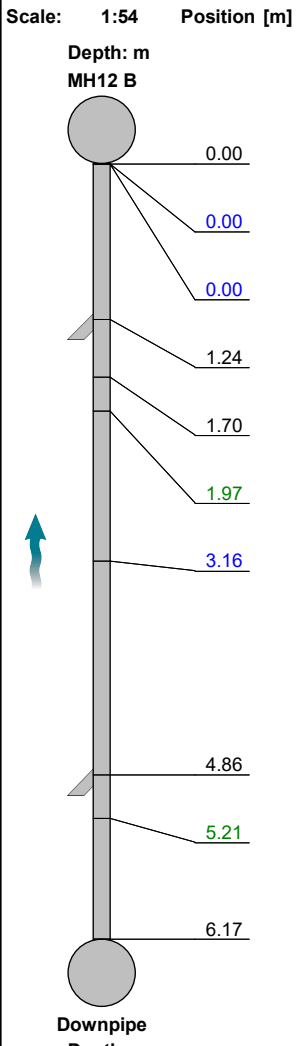
6, 00:00:36, 5.51 m
Finish node, other special chamber, reference: RWP, RWP reached

Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
30	1	17/10/23	9:07	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	The Bank	Inspected Length:	6.17 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	6.17 m	Downstream Node:	MH12 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments: Recommendations:
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Scale:	1:54	Position [m]	Code	Observation	MPEG	Photo	Grade
 Depth: m MH12 B Downpipe Depth: m	0.00	MH	Start node, manhole, reference: MH12 B	00:00:00			
	0.00	WL	Water level, 5% of the vertical dimension				
	0.00	GP	General photograph taken at this point	00:00:01	1		
	1.24	JN	Junction at 3 o'clock, 150mm dia	00:00:07	2		
	1.70	SC	Pipe size changes, new size(s), 100mm high	00:00:13	3		
	1.97	LL	Line deviates left	00:00:15	4		
	3.16	GP	General photograph taken at this point	00:00:23	5		
	4.86	JN	Junction at 3 o'clock, 100mm dia	00:00:30	6		
	5.21	LL	Line deviates left	00:00:34	7		
	6.17	OCF	Finish node, other special chamber, reference: Downpipe: Internal downpipe reached	00:00:45	8		

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 Pictures - 17/10/2023 - Downpipe

Item No. 30	Inspection Direction Upstream	PLR DOWNPIPE	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:01, 0.00 m
General photograph taken at this point



2, 00:00:07, 1.24 m
Junction at 3 o'clock, 150mm dia



3, 00:00:13, 1.70 m
Pipe size changes, new size(s), 100mm high



4, 00:00:15, 1.97 m
Line deviates left

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Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
30	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



5, 00:00:23, 3.16 m
General photograph taken at this point



6, 00:00:30, 4.86 m
Junction at 3 o'clock, 100mm dia



7, 00:00:34, 5.21 m
Line deviates left



8, 00:00:45, 6.17 m
Finish node, other special chamber, reference: Downpipe, Internal downpipe reached

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Section Inspection - 17/10/2023 - MH13 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
31	1	17/10/23	9:07	TSA-23-2537	No Rain Or Snow	No	MH13 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

Road:

Location:

Surface Type:

Use:

Type of Pipe:

Flow Control:

Year Constructed:

Inspection Purpose:

London

The Bank

Property or buildings

Surface water

Gravity drain/sewer

No flow control

Not Specified

Routine inspection

Inspection Direction:

Inspected Length:

Total Length:

Joint Length:

Pipe Shape:

Dia/Height:

Pipe Material:

Lining Type:

Lining Material:

Downstream

17.53 m

17.53 m

Circular

150 mm

Polyvinyl chloride

No Lining

No Lining

Upstream Node: MH13 X

Upstream Pipe Depth:

Downstream Node: MH7

Downstream Pipe Depth:

Comments:

Recommendations:

Scale: 1:152

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH13 X

0.00

MH

Start node, manhole, reference: MH13 X

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.26

GP

General photograph taken at this point

00:00:04

1

5.40

GP

General photograph taken at this point

00:00:16

2

9.12

LR

Line deviates right

00:00:26

3

10.64

GP

General photograph taken at this point

00:00:32

4

15.36

LD

Line deviates down

00:00:44

5

16.25

REM

General remark: Sewer levels out at this point

00:00:47

6

17.53

MHF

Finish node, manhole, reference: MH7 reached

00:01:28

7

MH7

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
0		0.0	0.0	0.0	1.0	0		0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - MH13 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
31	Downstream	MH13 X	TSA-23-2537	TSA-23-2537



1, 00:00:04, 0.26 m
General photograph taken at this point



2, 00:00:16, 5.40 m
General photograph taken at this point



3, 00:00:26, 9.12 m
Line deviates right



4, 00:00:32, 10.64 m
General photograph taken at this point

Section Pictures - 17/10/2023 - MH13 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
31	Downstream	MH13 X	TSA-23-2537	TSA-23-2537



5, 00:00:44, 15.36 m
Line deviates down



6, 00:00:47, 16.25 m
General remark, Sewer levels out at this point



7, 00:01:28, 17.53 m
Finish node, manhole, reference: MH7 reached

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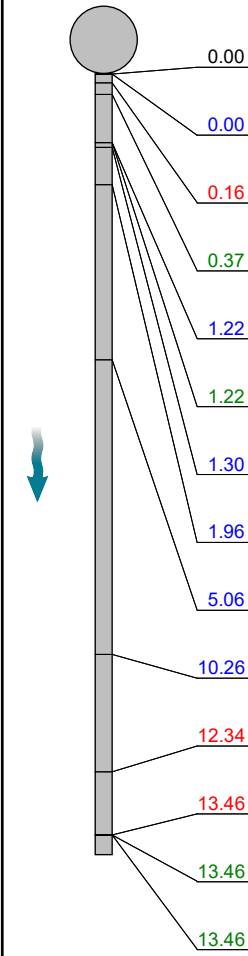
Section Inspection - 17/10/2023 - MH14 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
32	1	17/10/23	9:07	TSA-23-2537	No Rain Or Snow	No	MH14 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH14 X
Road:	The Bank	Inspected Length:	17.13 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	17.13 m	Downstream Node:	MH9
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:120	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH14 X							
							
	0.00	MH		Start node, manhole, reference: MH14 X	00:00:00		
	0.00	WL		Water level, 5% of the vertical dimension			
	0.16	CC		Crack, circumferential from 9 o'clock to 3 o'clock	00:00:03	1	2 / 2
	0.37	DECJ		Settled deposits, hard or compacted at joint, 10% cross-sectional area loss	00:00:05	2	3
	1.22	WL		Water level, 20% of the vertical dimension: Water standing due to debris at joint	00:00:10	3	
	1.22	DECJ		Settled deposits, hard or compacted at joint, 20% cross-sectional area loss	00:00:10	4	4
	1.30	WL		Water level, 5% of the vertical dimension	00:00:14		
	1.96	GP		General photograph taken at this point	00:00:15	5	
	5.06	GP		General photograph taken at this point	00:00:29	6	
	10.26	GP		General photograph taken at this point	00:00:49	7	
	12.34	CC		Crack, circumferential from 10 o'clock to 4 o'clock	00:01:00	8	2 / 2
	13.46	JDM		Joint displaced, medium	00:01:09	9	1 / 3
	13.46	LL		Line deviates left	00:01:09	10	
	13.46	LD		Line deviates down	00:01:09	11	

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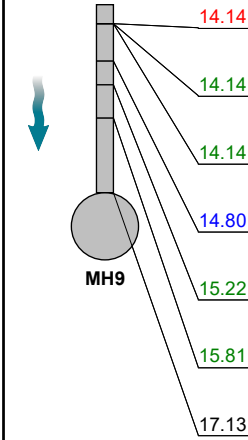
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Section Inspection - 17/10/2023 - MH14 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
32	1	17/10/23	9:07	TSA-23-2537	No Rain Or Snow	No	MH14 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Scale:	1:120	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH9							
							
	14.14	JDM		Joint displaced, medium	00:01:24	12	1 / 3
	14.14	LR		Line deviates right	00:01:29	13	
	14.14	LD		Line deviates down	00:01:29	14	
	14.80	GP		General photograph taken at this point	00:01:39	15	
	15.22	LL		Line deviates left	00:01:42	16	
	15.81	LD		Line deviates down	00:01:47	17	
	17.13	MHF		Finish node, manhole, reference: MH9 reached	00:02:11	18	

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	10.0	1.3	22.0	2.0	6	5.0	0.8	13.0	4.0

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Section Pictures - 17/10/2023 - MH14 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
32	Downstream	MH14 X	TSA-23-2537	TSA-23-2537



1, 00:00:03, 0.16 m
Crack, circumferential from 9 o'clock to 3 o'clock



2, 00:00:05, 0.37 m
Settled deposits, hard or compacted at joint, 10% cross-sectional area loss



3, 00:00:10, 1.22 m
Water level, 20% of the vertical dimension, Water standing due to debris at joint



4, 00:00:10, 1.22 m
Settled deposits, hard or compacted at joint, 20% cross-sectional area loss

Section Pictures - 17/10/2023 - MH14 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
32	Downstream	MH14 X	TSA-23-2537	TSA-23-2537



5, 00:00:15, 1.96 m
General photograph taken at this point



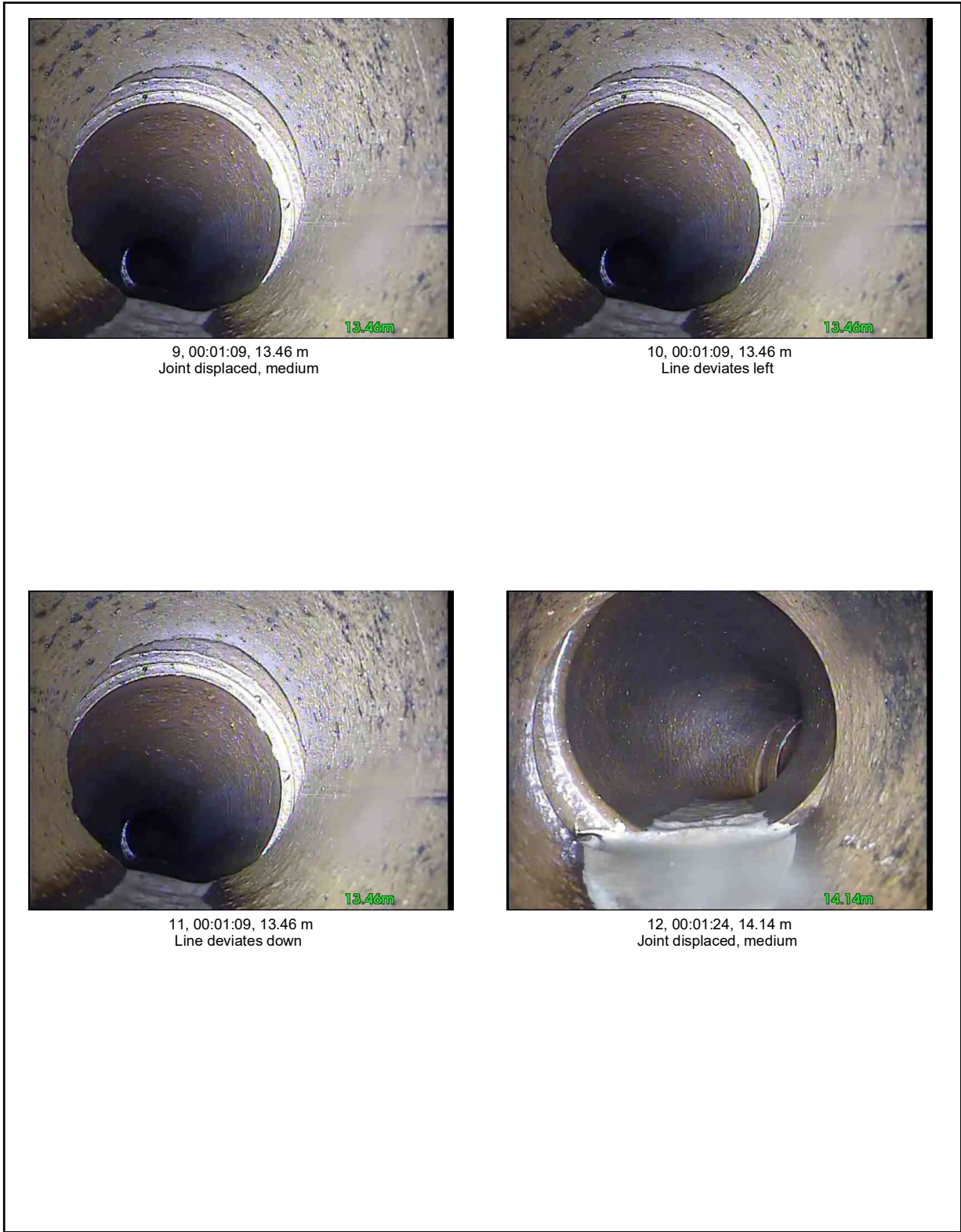
6, 00:00:29, 5.06 m
General photograph taken at this point



7, 00:00:49, 10.26 m
General photograph taken at this point



8, 00:01:00, 12.34 m
Crack, circumferential from 10 o'clock to 4 o'clock



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Section Pictures - 17/10/2023 - MH14 X

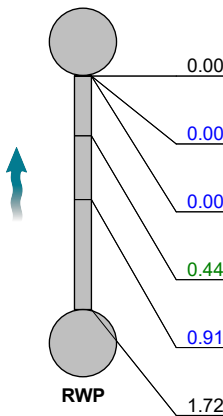
Item No. 32	Inspection Direction Downstream	PLR MH14 X	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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17, 00:01:47, 15.81 m
Line deviates down



18, 00:02:11, 17.13 m
Finish node, manhole, reference: MH9 reached

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Section Inspection - 17/10/2023 - RWP									
Item No. 33	Insp. No. 1	Date 17/10/23	Time 9:07	Client's Job Ref TSA-23-2537	Weather No Rain Or Snow	Pre Cleaned No	PLR RWP		
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		
Town or Village:		London		Inspection Direction:		Upstream			
Road:		The Bank		Inspected Length:		1.72 m			
Location:		Property or buildings		Total Length:		1.72 m			
Surface Type:				Joint Length:					
Use:		Surface water		Pipe Shape:		Circular			
Type of Pipe:		Gravity drain/sewer		Dia/Height:		100 mm			
Flow Control:		No flow control		Pipe Material:		Polyvinyl chloride			
Year Constructed:		Not Specified		Lining Type:		No Lining			
Inspection Purpose:		Routine inspection		Lining Material:		No Lining			
Comments:									
Recommendations:									
Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: m MH14 A  0.00 MH Start node, manhole, reference: MH14 A 00:00:00 0.00 WL Water level, 0% of the vertical dimension 0.00 GP General photograph taken at this point 00:00:03 1 0.44 LR Line deviates right 00:00:06 2 0.91 GP General photograph taken at this point 00:00:12 3 1.72 GYF Finish node, gully, reference: RWP reached 00:00:19 4 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
33	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:03, 0.00 m
General photograph taken at this point



2, 00:00:06, 0.44 m
Line deviates right



3, 00:00:12, 0.91 m
General photograph taken at this point



4, 00:00:19, 1.72 m
Finish node, gully, reference: RWP reached

Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
34	1	17/10/23	9:07	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	0.47 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.47 m	Downstream Node:	MH14 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH14 B							
		0.00	MH	Start node, manhole, reference: MH14 B	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension			
		0.23	LU	Line deviates up	00:00:10	1	
		0.27	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:00:13	2	
		0.47	GYF	Finish node, gully, reference: RWP reached	00:00:16	3	
RWP							
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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/10/2023 - RWP							
Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
35	1	17/10/23	9:08	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Scale:	1:114	Position [m]	Code	Observation	MPEG	Photo	Grade
	15.46	CCJ	Crack, circumferential at joint from 8 o'clock to 4 o'clock	00:01:44	13	2 / 2	
	15.54	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:01:50	14		
	15.56	JN	Junction at 2 o'clock, 100mm dia	00:01:52	15		
	15.92	MCVC	Pipe material changes to vitrified clay at this point	00:01:55	16		
	16.46	F02 DER	Settled deposits, coarse, 5% cross-sectional area loss, finish	00:02:00		3	
	16.46	JN	Junction at 10 o'clock, 100mm dia	00:02:00	17		
	17.17	JN	Junction at 10 o'clock, 100mm dia	00:02:06	18		
	17.83	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:02:08	19		
	20.51	GP	General photograph taken at this point	00:02:17	20		
	21.57	LL	Line deviates left	00:02:27	21		
	21.57	LU	Line deviates up	00:02:27	22		
	21.57	OJL	Open joint, large	00:02:27	23	1	
22.41	GYF	Finish node, gully, reference: RWP reached	00:02:38	24			

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	10.0	0.6	13.0	2.0	7	4.0	1.1	25.0	3.0

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



0.45m

1, 00:00:07, 0.45 m

Settled deposits, coarse, 5% cross-sectional area loss



1.74m

2, 00:00:16, 1.74 m

Settled deposits, hard or compacted at joint, 5% cross-sectional area loss



2.35m

3, 00:00:19, 2.35 m

Settled deposits, hard or compacted at joint, 5% cross-sectional area loss



5.00m

4, 00:00:31, 5.00 m

General photograph taken at this point

Section Pictures - 17/10/2023 - RWP				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



5, 00:00:48, 7.98 m
Pipe material changes to polyvinyl chloride at this point



6, 00:00:48, 7.98 m
Joint displaced, medium



7, 00:00:54, 8.18 m
Junction at 2 o'clock, 100mm dia



8, 00:00:56, 8.40 m
Settled deposits, coarse, 5% cross-sectional area loss, start

Section Pictures - 17/10/2023 - RWP				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



9, 00:00:56, 8.40 m
Pipe material changes to vitrified clay at this point



10, 00:01:09, 9.94 m
Junction at 10 o'clock, 100mm dia



11, 00:01:16, 10.48 m
Settled deposits, coarse, 5% cross-sectional area loss, start



12, 00:01:18, 10.82 m
General photograph taken at this point

Section Pictures - 17/10/2023 - RWP				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



13, 00:01:44, 15.46 m
Crack, circumferential at joint from 8 o'clock to 4 o'clock



14, 00:01:50, 15.54 m
Pipe material changes to polyvinyl chloride at this point



15, 00:01:52, 15.56 m
Junction at 2 o'clock, 100mm dia



16, 00:01:55, 15.92 m
Pipe material changes to vitrified clay at this point

Section Pictures - 17/10/2023 - RWP				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



17, 00:02:00, 16.46 m
Junction at 10 o'clock, 100mm dia



18, 00:02:06, 17.17 m
Junction at 10 o'clock, 100mm dia



19, 00:02:08, 17.83 m
Pipe material changes to polyvinyl chloride at this point



20, 00:02:17, 20.51 m
General photograph taken at this point

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
35	Upstream	RWP	TSA-23-2537	TSA-23-2537



21, 00:02:27, 21.57 m
Line deviates left



22, 00:02:27, 21.57 m
Line deviates up



23, 00:02:27, 21.57 m
Open joint, large



24, 00:02:38, 22.41 m
Finish node, gully, reference: RWP reached

Section Inspection - 17/10/2023 - MH15 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
36	1	17/10/23	9:11	TSA-23-2537	No Rain Or Snow	No	MH15 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH15 X
Road:	The Bank	Inspected Length:	5.91 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	5.91 m	Downstream Node:	MH9
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:52	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH15 X							
		0.00	MH	Start node, manhole, reference: MH15 X	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension			
		0.77	GP	General photograph taken at this point	00:00:06	1	
		2.29	GP	General photograph taken at this point	00:00:10	2	
		4.79	LD	Line deviates down	00:00:17	3	
		5.91	REM	General remark: Sewer levels out at entry to MH9	00:00:28	4	
		5.91	SA	Survey abandoned: Unable to pass deviation at entry to MH9	00:00:28		

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

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Section Inspection - 17/10/2023 - MH16

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
37	1	17/10/23	9:12	TSA-23-2537	No Rain Or Snow	No	MH16
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Scale: 1:215

Position [m]

25.21

26.00

27.23

MH16

Depth: m

GP

F03

DEC

MHF

General photograph taken at this point

Settled deposits, hard or compacted, 10% cross-sectional area loss, finish

Finish node, manhole, reference: MH16 reached

MPEG 00:04:11

00:04:25

00:04:52

Photo 13

14

Grade 3

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	4	2.0	0.7	20.0	3.0

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Section Pictures - 17/10/2023 - MH16

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
37	Upstream	MH16	TSA-23-2537	TSA-23-2537

1, 00:00:03, 0.30 m
General photograph taken at this point

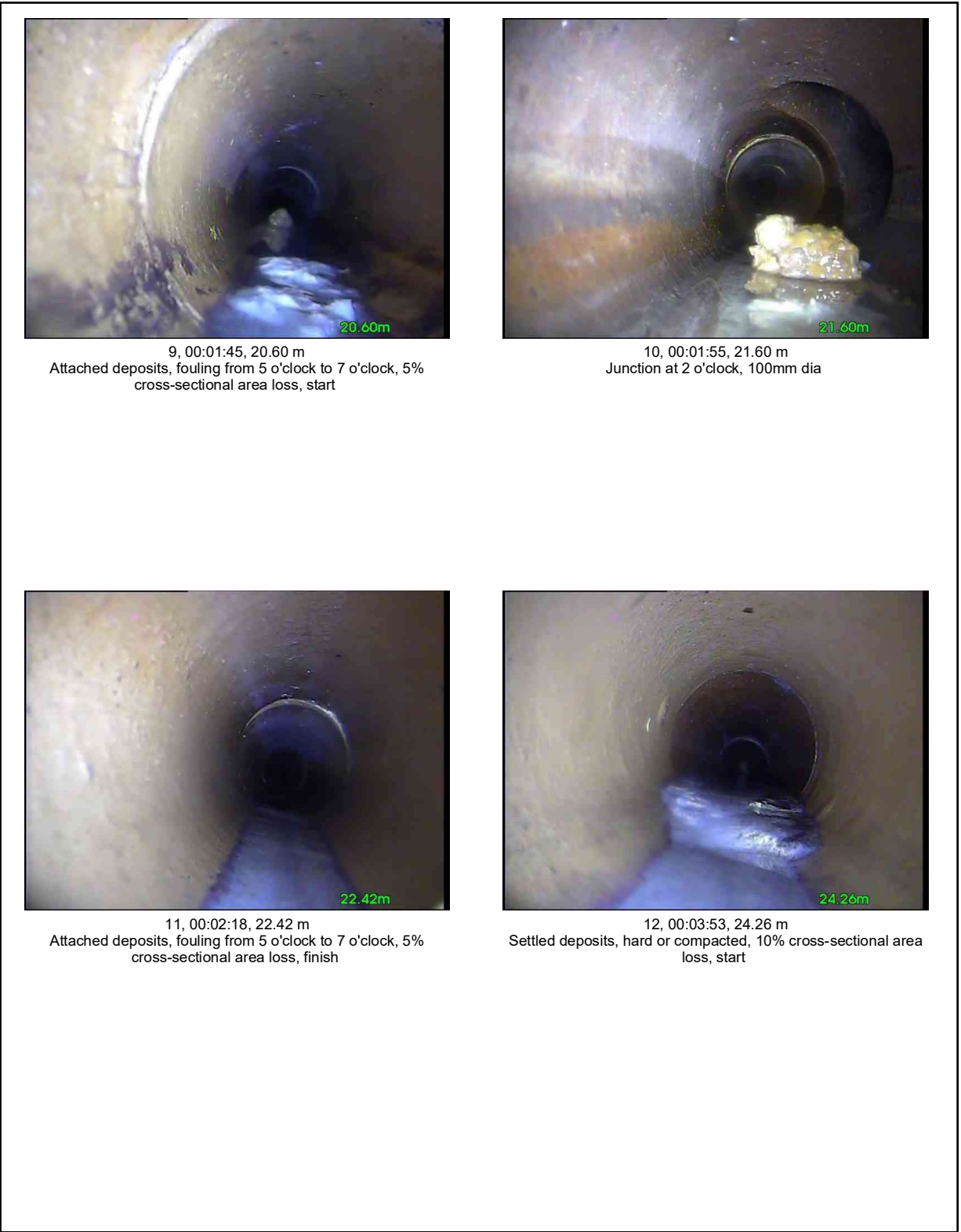
2, 00:00:13, 3.08 m
Line deviates up

3, 00:00:17, 3.86 m
Junction at 2 o'clock, 100mm dia

4, 00:00:26, 5.15 m
General photograph taken at this point

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Section Pictures - 17/10/2023 - MH16

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
37	Upstream	MH16	TSA-23-2537	TSA-23-2537

25.21m

13, 00:04:11, 25.21 m

General photograph taken at this point

27.23m

14, 00:04:52, 27.23 m

Finish node, manhole, reference: MH16 reached

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Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
38	1	17/10/23	9:12	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

London

Road:

The Bank

Location:

Property or buildings

Surface Type:

Use:

Foul

Type of Pipe:

Gravity drain/sewer

Flow Control:

No flow control

Year Constructed:

Not Specified

Inspection Purpose:

Routine inspection

Inspection Direction:

Upstream

Inspected Length:

1.29 m

Total Length:

1.29 m

Joint Length:

Pipe Shape:

Circular

Dia/Height:

100 mm

Pipe Material:

Vitrified clay

Lining Type:

No Lining

Lining Material:

No Lining

Upstream Node:

DOWNPIPE

Upstream Pipe Depth:

Downstream Node:

MH16 B

Downstream Pipe Depth:

Comments:

Recommendations:

Scale: 1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH16 B

0.00

MH

Start node, manhole, reference: MH16 B

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.58

GP

General photograph taken at this point

00:00:05

1

1.29

OCF

Finish node, other special chamber, reference: Downpipe: Internal downpipe reached

00:00:13

2

Downpipe 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
38	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



1, 00:00:05, 0.58 m
General photograph taken at this point



2, 00:00:13, 1.29 m
Finish node, other special chamber, reference: Downpipe, Internal downpipe reached

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Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
39	1	17/10/23	9:12	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

London

Road:

The Bank

Location:

Property or buildings

Surface Type:

Use:

Surface water

Type of Pipe:

Gravity drain/sewer

Flow Control:

No flow control

Year Constructed:

Not Specified

Inspection Purpose:

Routine inspection

Inspection Direction:

Upstream

Inspected Length:

0.73 m

Total Length:

0.73 m

Joint Length:

Pipe Shape:

Circular

Dia/Height:

100 mm

Pipe Material:

Vitrified clay

Lining Type:

No Lining

Lining Material:

No Lining

Upstream Node:

RWP

Upstream Pipe Depth:

Downstream Node:

MH16 C

Downstream Pipe Depth:

Comments:

Recommendations:

Scale:

1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH16 C

0.00

MH

Start node, manhole, reference: MH16 C

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

LU

Line deviates up

00:00:01

1

0.59

JDM

Joint displaced, medium: At entry to RWP gully pot

00:00:09

2

1 / 3

0.73

GYF

Finish node, gully, reference: RWP reached

00:00:11

3

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	1.4	1.0	1.0	1	2.0	2.7	2.0	4.0

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
39	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m
Line deviates up



2, 00:00:09, 0.59 m
Joint displaced, medium, At entry to RWP gully pot



3, 00:00:11, 0.73 m
Finish node, gully, reference: RWP reached

Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
40	1	17/10/23	9:09	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	0.38 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.38 m	Downstream Node:	MH18 A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH18 A							
	0.00	MH		Start node, manhole, reference: MH18 A	00:00:00		
	0.00	WL		Water level, 0% of the vertical dimension			
	0.00	GP		General photograph taken at this point	00:00:02	1	
	0.10	LU		Line deviates up	00:00:05	2	
	0.36	LR		Line deviates right	00:00:10	3	
	0.38	GYF		Finish node, gully, reference: RWP reached	00:00:12	4	

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

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
40	Upstream	RWP	TSA-23-2537	TSA-23-2537



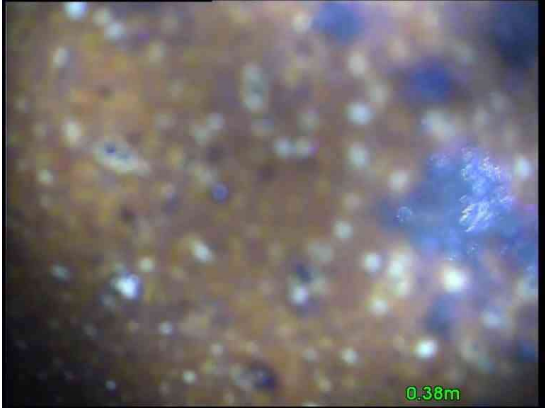
1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:05, 0.10 m
Line deviates up



3, 00:00:10, 0.36 m
Line deviates right



4, 00:00:12, 0.38 m
Finish node, gully, reference: RWP reached

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Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
41	1	17/10/23	9:09	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

London

Road:

The Bank

Location:

Property or buildings

Surface Type:

Use:

Foul

Type of Pipe:

Gravity drain/sewer

Flow Control:

No flow control

Year Constructed:

Not Specified

Inspection Purpose:

Routine inspection

Inspection Direction:

Upstream

Inspected Length:

6.51 m

Total Length:

6.51 m

Joint Length:

Pipe Shape:

Circular

Dia/Height:

100 mm

Pipe Material:

Vitrified clay

Lining Type:

No Lining

Lining Material:

No Lining

Upstream Node:

DOWNPIPE

Upstream Pipe Depth:

Downstream Node:

MH18 B

Downstream Pipe Depth:

Comments:

Recommendations:

Scale: 1:57

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH18 B

0.00

MH

Start node, manhole, reference: MH18 B

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.00

LR

Line deviates right

00:00:01

1

0.46

GP

General photograph taken at this point

00:00:11

2

2.95

DEF

Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss

00:00:26

3

3

2.95

MCPVC

Pipe material changes to polyvinyl chloride at this point

00:00:26

4

3.78

LR

Line deviates right

00:00:33

5

4.37

GP

General photograph taken at this point

00:00:41

6

6.51

OCF

Finish node, other special chamber, reference: Downpipe: Internal downpipe reached

00:00:54

7

Downpipe

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
0	0.0	0.0	0.0	1.0	1	2.0	0.3	2.0	3.0

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Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
41	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m

Line deviates right



2, 00:00:11, 0.46 m

General photograph taken at this point



3, 00:00:26, 2.95 m

Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss

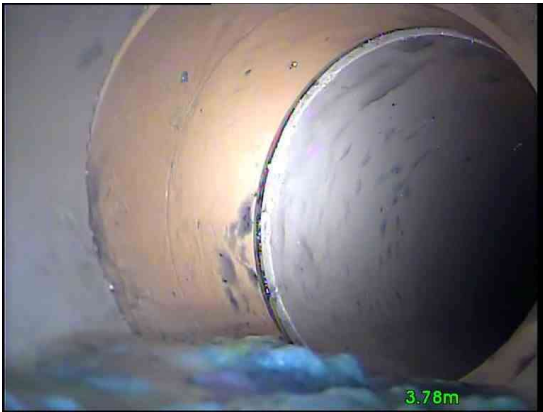


4, 00:00:26, 2.95 m

Pipe material changes to polyvinyl chloride at this point

Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
41	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



5, 00:00:33, 3.78 m

Line deviates right



6, 00:00:41, 4.37 m

General photograph taken at this point



7, 00:00:54, 6.51 m

Finish node, other special chamber, reference: Downpipe, Internal downpipe reached

Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
42	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



5, 00:00:15, 2.45 m
Finish node, other special chamber, reference: Downpipe,
Internal downpipe reached

Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
43	1	17/10/23	9:09	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	The Bank	Inspected Length:	0.26 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.26 m	Downstream Node:	MH18 D
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH18 D							
		0.00	MH	Start node, manhole, reference: MH18 D	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension			
		0.00	LR	Line deviates right	00:00:01	1	
		0.26	OCF	Finish node, other special chamber, reference: Downpipe: Downpipe reached	00:00:07	2	
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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
43	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m
Line deviates right



2, 00:00:07, 0.26 m
Finish node, other special chamber, reference: Downpipe,
Downpipe reached

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Section Inspection - 17/10/2023 - Gully

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
44	1	17/10/23	9:18	TSA-23-2537	No Rain Or Snow	No	GULLY
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

London

Road:

The Bank

Location:

Property or buildings

Surface Type:

Use:

Surface water

Type of Pipe:

Gravity drain/sewer

Flow Control:

No flow control

Year Constructed:

Not Specified

Inspection Purpose:

Routine inspection

Inspection Direction:

Upstream

Inspected Length:

7.62 m

Total Length:

7.62 m

Joint Length:

Upstream Node:

GULLY

Upstream Pipe Depth:

Downstream Node:

MH19 B

Downstream Pipe Depth:

Pipe Shape:

Circular

Dia/Height:

100 mm

Pipe Material:

Polyvinyl chloride

Lining Type:

No Lining

Lining Material:

No Lining

Comments:

Recommendations:

Scale: 1:66

Position [m]

Code

Observation

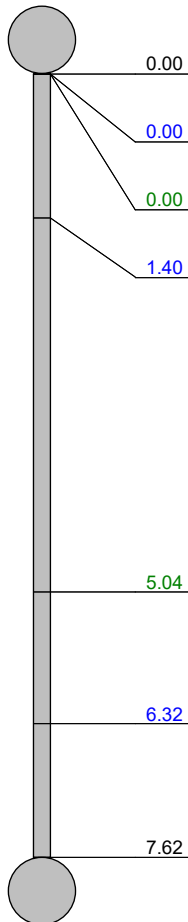
MPEG

Photo

Grade

Depth: m

MH19 B



0.00

MH

Start node, manhole, reference: MH19 B

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

LU

Line deviates up

00:00:03

1

1.40

GP

General photograph taken at this point

00:00:12

2

5.04

LU

Line deviates up

00:00:33

3

6.32

GP

General photograph taken at this point

00:00:45

4

7.62

GYF

Finish node, gully, reference: Gully reached

00:00:54

5

Gully

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - Gully

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
44	Upstream	GULLY	TSA-23-2537	TSA-23-2537



1, 00:00:03, 0.00 m
Line deviates up



2, 00:00:12, 1.40 m
General photograph taken at this point



3, 00:00:33, 5.04 m
Line deviates up



4, 00:00:45, 6.32 m
General photograph taken at this point

Section Pictures - 17/10/2023 - Gully

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
44	Upstream	GULLY	TSA-23-2537	TSA-23-2537



5, 00:00:54, 7.62 m
Finish node, gully, reference: Gully reached

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Section Pictures - 17/10/2023 - MH20 X

Item No. 45	Inspection Direction Downstream	PLR MH20 X	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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5, 00:00:41, 10.67 m
Settled deposits, coarse, 10% cross-sectional area loss, start



6, 00:00:50, 12.58 m
Settled deposits, coarse, 35% cross-sectional area loss, change



7, 00:00:50, 12.58 m
Fracture, circumferential from 12 o'clock to 12 o'clock

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Section Inspection - 17/10/2023 - RE									
Item No. 46	Insp. No. 1	Date 17/10/23	Time 9:09	Client's Job Ref TSA-23-2537	Weather No Rain Or Snow	Pre Cleaned No	PLR RE		
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		
Town or Village:		London		Inspection Direction:		Upstream			
Road:		The Bank		Inspected Length:		12.29 m			
Location:		Property or buildings		Total Length:		12.29 m			
Surface Type:				Joint Length:					
Use:		Surface water			Pipe Shape:		Circular		
Type of Pipe:		Gravity drain/sewer			Dia/Height:		100 mm		
Flow Control:		No flow control			Pipe Material:		Vitrified clay		
Year Constructed:		Not Specified			Lining Type:		No Lining		
Inspection Purpose:		Routine inspection			Lining Material:		No Lining		
Comments:									
Recommendations:									
Scale: 1:107 Position [m] Code Observation MPEG Photo Grade Depth: m MH20 A 0.00 MH Start node, manhole, reference: MH20 A 00:00:00 0.00 WL Water level, 0% of the vertical dimension 0.10 FC Fracture, circumferential from 9 o'clock to 11 o'clock 00:00:03 1 3 / 2 1.61 CCJ Crack, circumferential at joint from 10 o'clock to 2 o'clock 00:00:10 2 2 / 2 2.61 S01 DER Settled deposits, coarse, 20% cross-sectional area loss, start 00:00:14 3 5.16 F01 DER Settled deposits, coarse, 20% cross-sectional area loss, finish 00:00:25 4 4 8.33 S02 RF Roots, fine, start 00:00:34 5 10.17 GP General photograph taken at this point 00:00:40 6 11.89 S03 DER Settled deposits, coarse, 25% cross-sectional area loss, start 00:00:46 7 4 12.07 F02 RF Roots, fine, finish 00:00:49 2 12.07 JN Junction at 3 o'clock, 100mm dia 00:00:49 8 12.29 C03 DER Settled deposits, coarse, 75% cross-sectional area loss, change 00:00:53 9 12.29 REF Finish node, rodding eye, reference: RE reached 00:00:53 10 RE 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
2	40.0	4.1	50.0	3.0	5	5.0	2.1	26.0	4.0

Section Pictures - 17/10/2023 - RE				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
46	Upstream	RE	TSA-23-2537	TSA-23-2537



1, 00:00:03, 0.10 m
Fracture, circumferential from 9 o'clock to 11 o'clock



2, 00:00:10, 1.61 m
Crack, circumferential at joint from 10 o'clock to 2 o'clock



3, 00:00:14, 2.61 m
Settled deposits, coarse, 20% cross-sectional area loss, start



4, 00:00:25, 5.16 m
Settled deposits, coarse, 20% cross-sectional area loss, finish

Section Pictures - 17/10/2023 - RE				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
46	Upstream	RE	TSA-23-2537	TSA-23-2537



5, 00:00:34, 8.33 m
Roots, fine, start



6, 00:00:40, 10.17 m
General photograph taken at this point



7, 00:00:46, 11.89 m
Settled deposits, coarse, 25% cross-sectional area loss, start



8, 00:00:49, 12.07 m
Junction at 3 o'clock, 100mm dia

Section Pictures - 17/10/2023 - RE

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
46	Upstream	RE	TSA-23-2537	TSA-23-2537



9, 00:00:53, 12.29 m
Settled deposits, coarse, 75% cross-sectional area loss, change



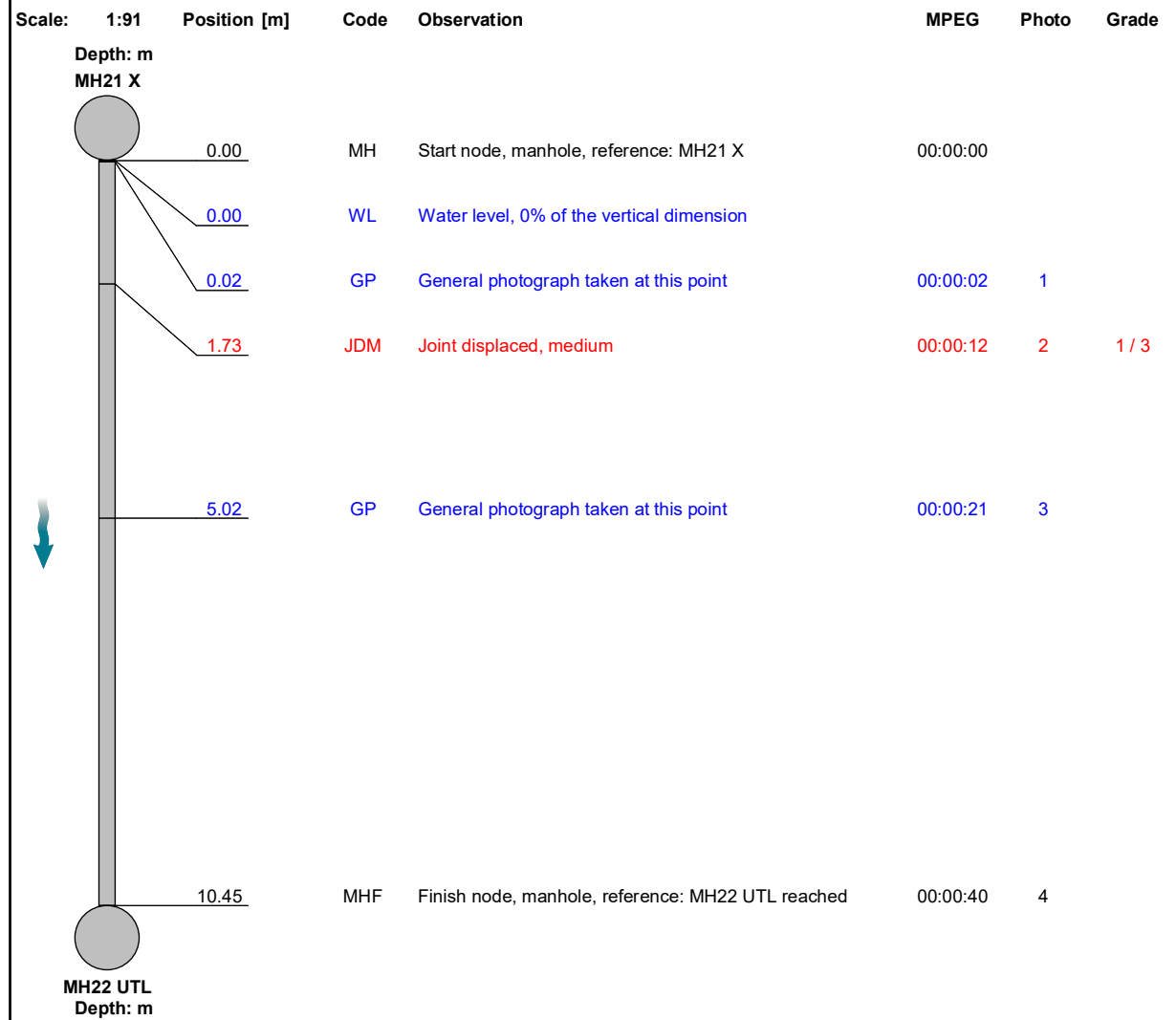
10, 00:00:53, 12.29 m
Finish node, rodding eye, reference: RE reached

Section Inspection - 17/10/2023 - MH21 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
47	1	17/10/23	9:09	TSA-23-2537	No Rain Or Snow	No	MH21 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

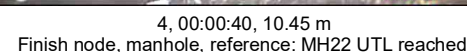
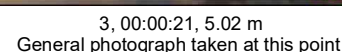
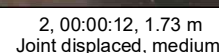
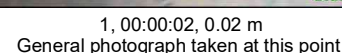
Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH21 X
Road:	The Bank	Inspected Length:	10.45 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	10.45 m	Downstream Node:	MH22 UTL
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
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	0.1	1.0	1.0	1	2.0	0.2	2.0	3.0

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
47	Downstream	MH21 X	TSA-23-2537	TSA-23-2537



Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
48	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	RWP
Operator Dominic White	Vehicle LM21 UHU	Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Comments:			
Recommendations:			

Depth: m

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
48	Upstream	RWP	TSA-23-2537	TSA-23-2537

1, 00:00:06, 0.29 m
Line deviates right

2, 00:00:14, 0.57 m
Line deviates right

3, 00:00:19, 0.87 m
Finish node, gully, reference: RWP reached

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Section Inspection - 17/10/2023 - MH20

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
49	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	MH20
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

Road:

Location:

Surface Type:

Use:

Type of Pipe:

Flow Control:

Year Constructed:

Inspection Purpose:

London

The Bank

Property or buildings

Surface water

Gravity drain/sewer

No flow control

Not Specified

Routine inspection

Inspection Direction:

Inspected Length:

Total Length:

Joint Length:

Pipe Shape:

Dia/Height:

Pipe Material:

Lining Type:

Lining Material:

Upstream

18.40 m

18.40 m

Circular

100 mm

Vitrified clay

No Lining

No Lining

Comments:

Recommendations:

Scale: 1:160

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH21 B

0.00

MH

Start node, manhole, reference: MH21 B

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

GP

General photograph taken at this point

00:00:02

1

5.22

JN

Junction at 2 o'clock, 100mm dia

00:00:24

2

5.86

GP

General photograph taken at this point

00:00:27

3

10.65

GP

General photograph taken at this point

00:00:45

4

15.67

JN

Junction at 2 o'clock, 100mm dia

00:01:01

5

18.40

JDL

Joint displaced, large

00:01:09

6

1 / 4

18.40

SA

Survey abandoned: Unable to pass displaced joint

00:01:09

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
1		2.0	0.1	2.0	1.0	1		5.0	0.3	5.0	4.0

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Section Pictures - 17/10/2023 - MH20

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
49	Upstream	MH20	TSA-23-2537	TSA-23-2537



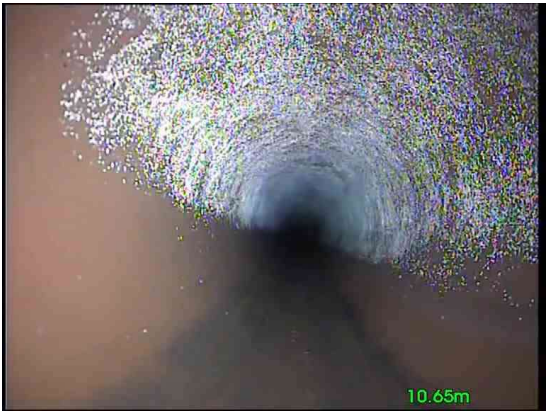
1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:24, 5.22 m
Junction at 2 o'clock, 100mm dia



3, 00:00:27, 5.86 m
General photograph taken at this point



4, 00:00:45, 10.65 m
General photograph taken at this point

Section Pictures - 17/10/2023 - MH20

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
49	Upstream	MH20	TSA-23-2537	TSA-23-2537



5, 00:01:01, 15.67 m
Junction at 2 o'clock, 100mm dia



6, 00:01:09, 18.40 m
Joint displaced, large

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Section Inspection - 17/10/2023 - MH22 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
50	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	MH22 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH22 X
Road:	The Bank	Inspected Length:	6.33 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	6.33 m	Downstream Node:	MAIN?
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:55	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH22 X							
	0.00	MH		Start node, manhole, reference: MH22 X	00:00:00		
	0.00	WL		Water level, 0% of the vertical dimension			
	0.00	GP		General photograph taken at this point	00:00:02	1	
	0.38	LR		Line deviates right	00:00:10	2	
	0.38	LD		Line deviates down	00:00:10	3	
	0.62	JDM		Joint displaced, medium	00:00:12	4	1 / 3
	1.68	GP		General photograph taken at this point	00:00:19	5	
	3.46	LL		Line deviates left	00:00:30	6	
	4.82	RTJ		Roots, tap at joint	00:00:45	7	4
	4.82	S01	RM	Roots, mass, 20% cross-sectional area loss, start	00:00:45	8	5
	6.33	C01	RM	Roots, mass, 35% cross-sectional area loss, change	00:00:55	9	
	6.33	SA		Survey abandoned: Unable to pass mass roots	00:00:55		

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	0.2	1.0	1.0	3	5.0	2.7	17.0	4.0

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Section Pictures - 17/10/2023 - MH22 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
50	Downstream	MH22 X	TSA-23-2537	TSA-23-2537

1, 00:00:02, 0.00 m
General photograph taken at this point

2, 00:00:10, 0.38 m
Line deviates right

3, 00:00:10, 0.38 m
Line deviates down

4, 00:00:12, 0.62 m
Joint displaced, medium

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Section Pictures - 17/10/2023 - MH22 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
50	Downstream	MH22 X	TSA-23-2537	TSA-23-2537



5, 00:00:19, 1.68 m
General photograph taken at this point



6, 00:00:30, 3.46 m
Line deviates left



7, 00:00:45, 4.82 m
Roots, tap at joint



8, 00:00:45, 4.82 m
Roots, mass, 20% cross-sectional area loss, start

Section Pictures - 17/10/2023 - MH22 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
50	Downstream	MH22 X	TSA-23-2537	TSA-23-2537



9, 00:00:55, 6.33 m
Roots, mass, 35% cross-sectional area loss, change

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Section Inspection - 17/10/2023 - MH23 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
51	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	MH23 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH23 X
Road:	The Bank	Inspected Length:	4.62 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	4.62 m	Downstream Node:	MH22 UTL
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH23 X

0.00

MH

Start node, manhole, reference: MH23 X

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

B

Broken pipe from 11 o'clock to 1 o'clock

00:00:01

1

4

1.70

GP

General photograph taken at this point

00:00:12

2

4.17

JDL

Joint displaced, large

00:00:21

3

1 / 4

4.62

MHF

Finish node, manhole, reference: MH22 UTL reached

00:00:31

4

MH22 UTL

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
2	80.0	17.7	82.0	4.0	1	5.0	1.1	5.0	4.0

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Section Pictures - 17/10/2023 - MH23 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
51	Downstream	MH23 X	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m
Broken pipe from 11 o'clock to 1 o'clock



2, 00:00:12, 1.70 m
General photograph taken at this point



3, 00:00:21, 4.17 m
Joint displaced, large



4, 00:00:31, 4.62 m
Finish node, manhole, reference: MH22 UTL reached

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Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
52	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	RWP
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	2.04 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	2.04 m	Downstream Node:	MH23 A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments: Recommendations:
--

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH23 A RWP Depth: m							
MH	Start node, manhole, reference: MH23 A	00:00:00					
WL	Water level, 0% of the vertical dimension						
GP	General photograph taken at this point	00:00:02	1				
LU	Line deviates up	00:00:12	2				
REF	Finish node, rodding eye, reference: RWP reached	00:00:20	3				

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 Pictures - 17/10/2023 - RWP

Item No. 52	Inspection Direction Upstream	PLR RWP	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:12, 1.50 m
Line deviates up



3, 00:00:20, 2.04 m
Finish node, rodding eye, reference: RWP reached

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Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
53	1	17/10/23	9:10	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	5.99 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	5.99 m	Downstream Node:	MH23 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:52	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH23 B							
0.00		MH		Start node, manhole, reference: MH23 B	00:00:00		
0.00		WL		Water level, 0% of the vertical dimension			
0.10		RFJ		Roots, fine at joint	00:00:05	1	2
2.31		GP		General photograph taken at this point	00:00:17	2	
4.64		LU		Line deviates up	00:00:26	3	
5.22		JDM		Joint displaced, medium	00:00:30	4	1 / 3
5.30		LU		Line deviates up	00:00:33	5	
5.99		GYF		Finish node, gully, reference: RWP reached	00:00:42	6	
RWP 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	0.2	1.0	1.0	2	2.0	0.5	3.0	3.0

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
53	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:05, 0.10 m
Roots, fine at joint



2, 00:00:17, 2.31 m
General photograph taken at this point



3, 00:00:26, 4.64 m
Line deviates up



4, 00:00:30, 5.22 m
Joint displaced, medium

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
53	Upstream	RWP	TSA-23-2537	TSA-23-2537



5, 00:00:33, 5.30 m
Line deviates up



6, 00:00:42, 5.99 m
Finish node, gully, reference: RWP reached

Section Inspection - 17/10/2023 - MH25 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
54	1	17/10/23	9:11	TSA-23-2537	No Rain Or Snow	No	MH25 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH25 X
Road:	The Bank	Inspected Length:	8.88 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	8.88 m	Downstream Node:	MH26
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:77	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH25 X							
	0.00	MH		Start node, manhole, reference: MH25 X	00:00:00		
	0.00	WL		Water level, 0% of the vertical dimension			
	0.83	GP		General photograph taken at this point	00:00:04	1	
	5.44	GP		General photograph taken at this point	00:00:17	2	
	7.93	JN		Junction at 3 o'clock, 100mm dia	00:00:30	3	
	8.28	JN		Junction at 6 o'clock, 150mm dia: External Backdrop	00:00:38	4	
	8.88	MHF		Finish node, manhole, reference: MH26 reached	00:00:52	5	
MH26 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 17/10/2023 - MH25 X

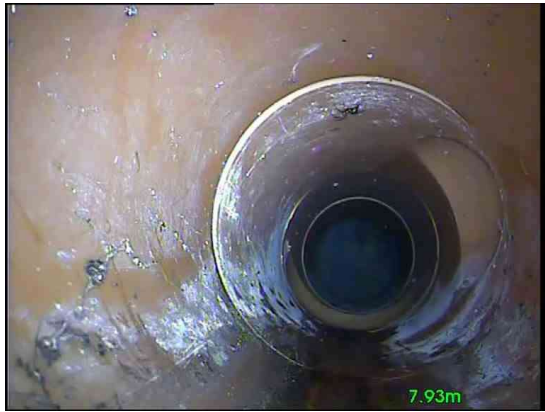
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
54	Downstream	MH25 X	TSA-23-2537	TSA-23-2537



1, 00:00:04, 0.83 m
General photograph taken at this point



2, 00:00:17, 5.44 m
General photograph taken at this point



3, 00:00:30, 7.93 m
Junction at 3 o'clock, 100mm dia



4, 00:00:38, 8.28 m
Junction at 6 o'clock, 150mm dia, External Backdrop

Section Pictures - 17/10/2023 - MH25 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
54	Downstream	MH25 X	TSA-23-2537	TSA-23-2537



5, 00:00:52, 8.88 m
Finish node, manhole, reference: MH26 reached

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Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
55	1	17/10/23	9:11	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	RWP
Road:	The Bank	Inspected Length:	12.54 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	12.54 m	Downstream Node:	MH25 A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:109

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH25 A

0.00

MH

Start node, manhole, reference: MH25 A

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.41

LU

Line deviates up

00:00:04

1

0.95

REM

General remark: Sewer levels out at this point

00:00:09

2

2.32

LU

Line deviates up

00:00:17

3

2.77

LL

Line deviates left

00:00:22

4

3.34

LR

Line deviates right

00:00:25

5

4.06

JN

Junction at 11 o'clock, 100mm dia

00:00:34

6

5.20

LU

Line deviates up

00:00:46

7

6.05

REM

General remark: Sewer levels out at this point

00:00:50

8

9.12

GP

General photograph taken at this point

00:01:01

9

12.54

OCF

Finish node, other special chamber, reference: RWP:
Internal RWP reached

00:01:20

10

RWP

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
55	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:04, 0.41 m
Line deviates up



2, 00:00:09, 0.95 m
General remark, Sewer levels out at this point



3, 00:00:17, 2.32 m
Line deviates up



4, 00:00:22, 2.77 m
Line deviates left

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
55	Upstream	RWP	TSA-23-2537	TSA-23-2537



5, 00:00:25, 3.34 m
Line deviates right



6, 00:00:34, 4.06 m
Junction at 11 o'clock, 100mm dia



7, 00:00:46, 5.20 m
Line deviates up



8, 00:00:50, 6.05 m
General remark, Sewer levels out at this point

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
55	Upstream	RWP	TSA-23-2537	TSA-23-2537



9, 00:01:01, 9.12 m
General photograph taken at this point



10, 00:01:20, 12.54 m
Finish node, other special chamber, reference: RWP, Internal RWP reached

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Section Inspection - 17/10/2023 - Unknown

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
56	1	17/10/23	9:11	TSA-23-2537	No Rain Or Snow	No	UNKNOWN
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN
Road:	The Bank	Inspected Length:	0.22 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.22 m	Downstream Node:	MH25 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50

Position [m]

Code

Observation

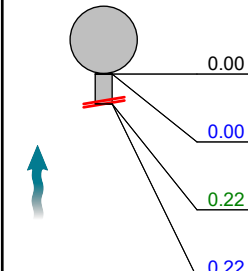
MPEG

Photo

Grade

Depth: m

MH25 B



0.00	MH	Start node, manhole, reference: MH25 B	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension			
0.22	DES	Settled deposits, fine, 35% cross-sectional area loss	00:00:05	1	4
0.22	SA	Survey abandoned: Unable to pass silt	00:00:05		

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	5.0	22.7	5.0	5.0

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Section Pictures - 17/10/2023 - Unknown

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
56	Upstream	UNKNOWN	TSA-23-2537	TSA-23-2537



1, 00:00:05, 0.22 m

Settled deposits, fine, 35% cross-sectional area loss

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Section Inspection - 17/10/2023 - MH26 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
57	1	17/10/23	9:19	TSA-23-2537	No Rain Or Snow	No	MH26 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH26 X
Road:	The Bank	Inspected Length:	7.36 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	7.36 m	Downstream Node:	MH27
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:64

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH26 X

0.00

MH

Start node, manhole, reference: MH26 X

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.00

GP

General photograph taken at this point

00:00:01

1

1.48

DER

Settled deposits, coarse, 5% cross-sectional area loss

00:00:05

2

3

3.26

JN

Junction at 1 o'clock, 100mm dia

00:00:14

3

5.06

S01

DES

Settled deposits, fine, 10% cross-sectional area loss, start

00:00:23

4

3

7.36

MHF

Finish node, manhole, reference: MH27 reached

00:00:30

5

MH27

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
0	0.0	0.0	0.0	1.0	2	2.0	0.5	4.0	3.0

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Section Pictures - 17/10/2023 - MH26 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
57	Downstream	MH26 X	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m
General photograph taken at this point



2, 00:00:05, 1.48 m
Settled deposits, coarse, 5% cross-sectional area loss



3, 00:00:14, 3.26 m
Junction at 1 o'clock, 100mm dia



4, 00:00:23, 5.06 m
Settled deposits, fine, 10% cross-sectional area loss, start

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Section Pictures - 17/10/2023 - MH26 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
57	Downstream	MH26 X	TSA-23-2537	TSA-23-2537



5, 00:00:30, 7.36 m
Finish node, manhole, reference: MH27 reached

Section Inspection - 17/10/2023 - Unknown

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
58	1	17/10/23	9:12	TSA-23-2537	No Rain Or Snow	No	UNKNOWN
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN
Road:	The Bank	Inspected Length:	6.32 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	6.32 m	Downstream Node:	MH26 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:55	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH26 B							
		0.00	MH	Start node, manhole, reference: MH26 B	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension			
		0.16	LU	Line deviates up	00:00:04	1	
		1.70	REM	General remark: Sewer levels out at this point	00:00:11	2	
		3.12	GP	General photograph taken at this point	00:00:18	3	
		6.01	LU	Line deviates up	00:00:26	4	
		6.32	OCF	Finish node, other special chamber, reference: Unknown: Unknown end point reached	00:00:30	5	
Unknown 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 17/10/2023 - Unknown				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
58	Upstream	UNKNOWN	TSA-23-2537	TSA-23-2537



1, 00:00:04, 0.16 m
Line deviates up



2, 00:00:11, 1.70 m
General remark, Sewer levels out at this point

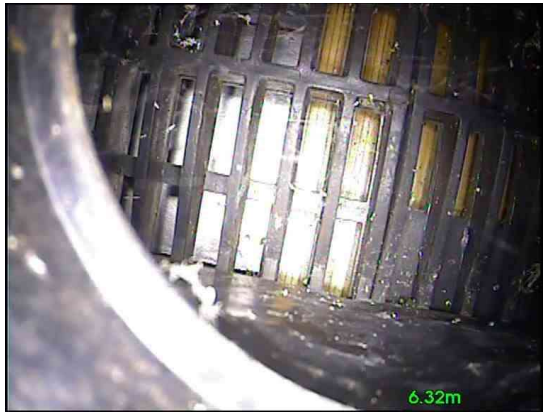


3, 00:00:18, 3.12 m
General photograph taken at this point



4, 00:00:26, 6.01 m
Line deviates up

Section Pictures - 17/10/2023 - Unknown				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
58	Upstream	UNKNOWN	TSA-23-2537	TSA-23-2537



5, 00:00:30, 6.32 m
Finish node, other special chamber, reference: Unknown,
Unknown end point reached

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Section Inspection - 17/10/2023 - MH27 X									
Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR		
59	1	17/10/23	9:13	TSA-23-2537	No Rain Or Snow	No	MH27 X		
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID		
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified		
Town or Village:		London		Inspection Direction:		Downstream		Upstream Node:	
Road:		The Bank		Inspected Length:		10.89 m		Upstream Pipe Depth:	
Location:		Property or buildings		Total Length:		10.89 m		Downstream Node:	
Surface Type:				Joint Length:				Downstream Pipe Depth:	
Use:		Surface water			Pipe Shape:		Circular		
Type of Pipe:		Gravity drain/sewer			Dia/Height:		150 mm		
Flow Control:		No flow control			Pipe Material:		Polyvinyl chloride		
Year Constructed:		Not Specified			Lining Type:		No Lining		
Inspection Purpose:		Routine inspection			Lining Material:		No Lining		
Comments:									
Recommendations:									
Scale:	1:95	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: m MH27 X									

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Section Pictures - 17/10/2023 - MH27 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
59	Downstream	MH27 X	TSA-23-2537	TSA-23-2537



1, 00:00:05, 0.57 m

Settled deposits, fine, 10% cross-sectional area loss, start



2, 00:01:07, 5.16 m

General photograph taken at this point



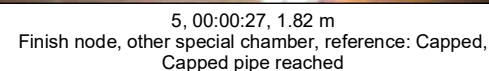
3, 00:00:40, 10.89 m

Finish node, manhole, reference: MH29 reached

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	CAPPED
Road:	The Bank	Inspected Length:	1.82 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.82 m	Downstream Node:	MH27 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

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Comments:	
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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - MH28 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
61	Downstream	MH28 X	TSA-23-2537	TSA-23-2537



1, 00:00:08, 0.63 m
General photograph taken at this point



2, 00:00:20, 5.34 m
General photograph taken at this point



3, 00:00:34, 9.36 m
Finish node, manhole, reference: MH30 reached

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Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
62	1	17/10/23	9:13	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

Road:

Location:

Surface Type:

Use:

Type of Pipe:

Flow Control:

Year Constructed:

Inspection Purpose:

London

The Bank

Property or buildings

Foul

Gravity drain/sewer

No flow control

Not Specified

Routine inspection

Inspection Direction:

Inspected Length:

Total Length:

Joint Length:

Pipe Shape:

Dia/Height:

Pipe Material:

Lining Type:

Lining Material:

Upstream

5.97 m

5.97 m

Circular

100 mm

Polyvinyl chloride

No Lining

No Lining

Upstream Node:

Upstream Pipe Depth:

Downstream Node:

Downstream Pipe Depth:

DOWNPIPE

MH28 A

Comments:

Recommendations:

Scale: 1:52

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH28 A

0.00

MH

Start node, manhole, reference: MH28 A

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.00

GP

General photograph taken at this point

00:00:02

1

3.09

GP

General photograph taken at this point

00:00:29

2

5.97

OCF

Finish node, other special chamber, reference: Downpipe: Internal downpipe reached

00:00:43

3

Downpipe 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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
62	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:29, 3.09 m
General photograph taken at this point



3, 00:00:43, 5.97 m
Finish node, other special chamber, reference: Downpipe,
Internal downpipe reached

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Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
63	1	17/10/23	9:13	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

London

Road:

The Bank

Location:

Property or buildings

Surface Type:

Use:

Foul

Type of Pipe:

Gravity drain/sewer

Flow Control:

No flow control

Year Constructed:

Not Specified

Inspection Purpose:

Routine inspection

Inspection Direction:

Upstream

Inspected Length:

8.25 m

Total Length:

8.25 m

Joint Length:

Pipe Shape:

Circular

Dia/Height:

100 mm

Pipe Material:

Polyvinyl chloride

Lining Type:

No Lining

Lining Material:

No Lining

Upstream Node:

DOWNPIPE

Upstream Pipe Depth:

Downstream Node:

MH28 B

Downstream Pipe Depth:

Comments:

Recommendations:

Scale:

1:72

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH28 B

0.00

MH

Start node, manhole, reference: MH28 B

00:00:00

0.00

WL

Water level, 10% of the vertical dimension: Constant flow through sewer

0.00

REM

General remark: Vision limited due to constant flow through sewer

0.83

JN

Junction at 3 o'clock, 100mm dia

00:00:10

1

2.53

JN

Junction at 2 o'clock, 100mm dia

00:00:17

2

3.44

JN

Junction at 3 o'clock, 100mm dia

00:01:53

3

5.05

GP

General photograph taken at this point

00:01:43

4

5.99

JN

Junction at 10 o'clock, 100mm dia

00:01:37

5

7.09

JN

Junction at 9 o'clock, 100mm dia

00:01:31

6

8.25

DER

Settled deposits, coarse, 5% cross-sectional area loss: At rest bend of internal downpipe

00:01:18

7

3

8.25

OCF

Finish node, other special chamber, reference: Downpipe: Internal downpipe reached

00:01:18

8

Downpipe 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
0	0.0	0.0	0.0	1.0	1	2.0	0.2	2.0	3.0

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Section Pictures - 17/10/2023 - Downpipe				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
63	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



1, 00:00:10, 0.83 m
Junction at 3 o'clock, 100mm dia



2, 00:00:17, 2.53 m
Junction at 2 o'clock, 100mm dia



3, 00:01:53, 3.44 m
Junction at 3 o'clock, 100mm dia



4, 00:01:43, 5.05 m
General photograph taken at this point

Section Pictures - 17/10/2023 - Downpipe				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
63	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



5, 00:01:37, 5.99 m
Junction at 10 o'clock, 100mm dia



6, 00:01:31, 7.09 m
Junction at 9 o'clock, 100mm dia



7, 00:01:18, 8.25 m
Settled deposits, coarse, 5% cross-sectional area loss, At rest bend of internal downpipe



8, 00:01:18, 8.25 m
Finish node, other special chamber, reference: Downpipe, Internal downpipe reached

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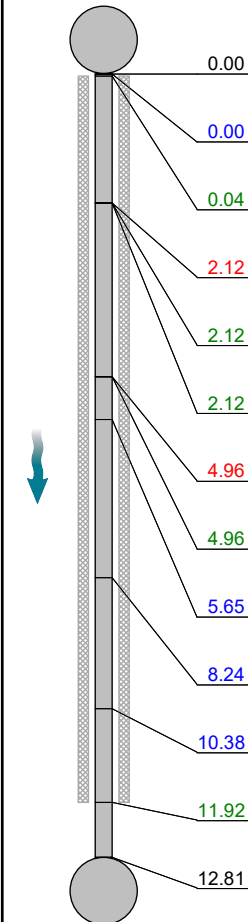
Section Inspection - 17/10/2023 - MH29 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
64	1	17/10/23	9:14	TSA-23-2537	No Rain Or Snow	No	MH29 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH29 X
Road:	The Bank	Inspected Length:	12.81 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	12.81 m	Downstream Node:	MH31 UTL
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:111	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH29 X							
							
	0.00	MH		Start node, manhole, reference: MH29 X	00:00:00		
	0.00	WL		Water level, 0% of the vertical dimension			
	0.04	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:02	1	
	2.12	OJM		Open joint, medium	00:00:17	2	1
	2.12	LR		Line deviates right	00:00:17	3	
	2.12	LD		Line deviates down	00:00:17	4	
	4.96	OJM		Open joint, medium	00:00:27	5	1
	4.96	LL		Line deviates left	00:00:27	6	
	5.65	GP		General photograph taken at this point	00:00:33	7	
	8.24	WL		Water level, 25% of the vertical dimension: Water standing in sewer at this point	00:00:40	8	
	10.38	WL		Water level, 0% of the vertical dimension	00:00:52	9	
	11.92	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:57	10	3
	12.81	MHF		Finish node, manhole, reference: MH31 UTL reached	00:01:01	11	
MH31 UTL							
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
2	1.0	0.2	2.0	1.0	1	2.0	1.9	24.0	3.0

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Section Pictures - 17/10/2023 - MH29 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
64	Downstream	MH29 X	TSA-23-2537	TSA-23-2537



1, 00:00:02, 0.04 m
Settled deposits, fine, 10% cross-sectional area loss, start



2, 00:00:17, 2.12 m
Open joint, medium



3, 00:00:17, 2.12 m
Line deviates right



4, 00:00:17, 2.12 m
Line deviates down

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Section Pictures - 17/10/2023 - MH29 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
64	Downstream	MH29 X	TSA-23-2537	TSA-23-2537



5, 00:00:27, 4.96 m
Open joint, medium



6, 00:00:27, 4.96 m
Line deviates left



7, 00:00:33, 5.65 m
General photograph taken at this point



8, 00:00:40, 8.24 m
Water level, 25% of the vertical dimension, Water standing in sewer at this point

Section Pictures - 17/10/2023 - MH29 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
64	Downstream	MH29 X	TSA-23-2537	TSA-23-2537



9, 00:00:52, 10.38 m
Water level, 0% of the vertical dimension



10, 00:00:57, 11.92 m
Settled deposits, fine, 10% cross-sectional area loss, finish



11, 00:01:01, 12.81 m
Finish node, manhole, reference: MH31 UTL reached

Section Inspection - 17/10/2023 - Land Drain

Item No. 66	Insp. No. 1	Date 17/10/23	Time 9:14	Client's Job Ref TSA-23-2537	Weather No Rain Or Snow	Pre Cleaned No	PLR LAND DRAIN
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	LAND DRAIN
Road:	The Bank	Inspected Length:	1.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.00 m	Downstream Node:	MH29 C
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m			MH	Start node, manhole, reference: MH29 C	00:00:00		
MH29 C			WL	Water level, 0% of the vertical dimension			
0.00			LR	Line deviates right	00:00:01	1	
0.00			LU	Line deviates up	00:00:01	2	
0.00			GP	General photograph taken at this point	00:00:05	3	
0.49			OCF	Finish node, other special chamber, reference: Land Drain: Buried land drain reached	00:00:09	4	
1.00							
Land Drain							
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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 17/10/2023 - Land Drain

Item No. 66	Inspection Direction Upstream	PLR LAND DRAIN	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:01, 0.00 m
Line deviates right



2, 00:00:01, 0.00 m
Line deviates up



3, 00:00:05, 0.49 m
General photograph taken at this point



4, 00:00:09, 1.00 m
Finish node, other special chamber, reference: Land Drain,
Buried land drain reached

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Section Inspection - 17/10/2023 - MH30 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
67	1	17/10/23	9:14	TSA-23-2537	No Rain Or Snow	No	MH30 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH30 X
Road:	The Bank	Inspected Length:	16.72 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	16.72 m	Downstream Node:	MH33
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:145

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH30 X

0.00

MH

Start node, manhole, reference: MH30 X

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.00

GP

General photograph taken at this point

00:00:02

1

5.41

GP

General photograph taken at this point

00:00:18

2

10.02

GP

General photograph taken at this point

00:00:35

3

15.51

JN

Junction at 3 o'clock, 100mm dia, from MH34 X

00:00:48

4

16.72

MHF

Finish node, manhole, reference: MH33 reached

00:01:06

5

MH33

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - MH30 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
67	Downstream	MH30 X	TSA-23-2537	TSA-23-2537



1, 00:00:02, 0.00 m
General photograph taken at this point



2, 00:00:18, 5.41 m
General photograph taken at this point



3, 00:00:35, 10.02 m
General photograph taken at this point



4, 00:00:48, 15.51 m
Junction at 3 o'clock, 100mm dia, from MH34 X

TSA-23-2537 Channing School for Girls CCTV Report_303_Issue01

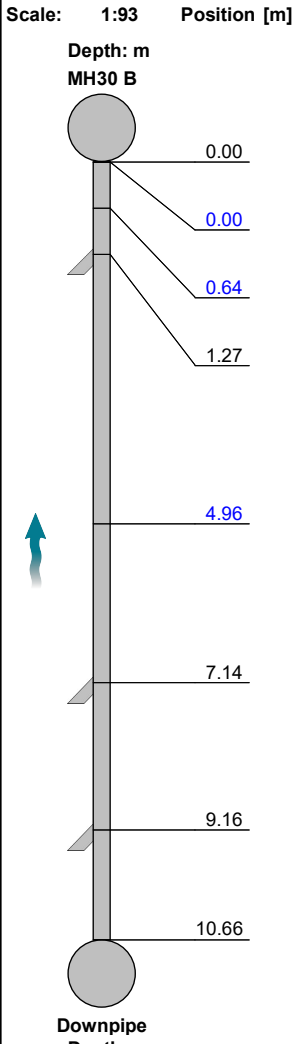
190

Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
69	1	17/10/23	9:14	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	The Bank	Inspected Length:	10.66 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	10.66 m	Downstream Node:	MH30 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments: Recommendations:
--

Scale:	1:93	Position [m]	Code	Observation	MPEG	Photo	Grade
 Depth: m MH30 B 0.00 0.00 0.64 1.27 4.96 7.14 9.16 10.66 Downpipe Depth: m	MH	Start node, manhole, reference: MH30 B	00:00:00				
	WL	Water level, 5% of the vertical dimension					
	GP	General photograph taken at this point	00:00:05	1			
	JN	Junction at 3 o'clock, 100mm dia	00:00:08	2			
	GP	General photograph taken at this point	00:00:21	3			
	JN	Junction at 3 o'clock, 100mm dia	00:00:31	4			
	JN	Junction at 3 o'clock, 100mm dia	00:00:41	5			
	OCF	Finish node, other special chamber, reference: Downpipe: Internal downpipe reached	00:00:47	6			

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 Pictures - 17/10/2023 - Downpipe

Item No. 69	Inspection Direction Upstream	PLR DOWNPIPE	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:05, 0.64 m
General photograph taken at this point



2, 00:00:08, 1.27 m
Junction at 3 o'clock, 100mm dia



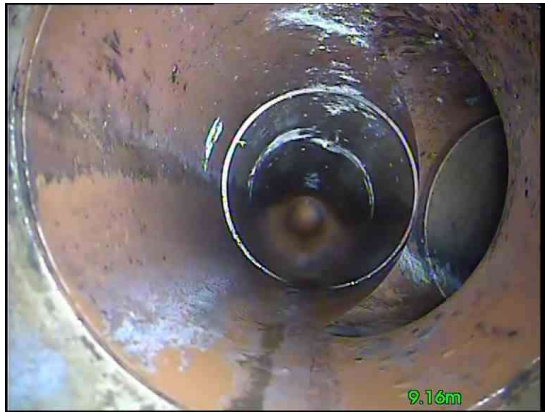
3, 00:00:21, 4.96 m
General photograph taken at this point



4, 00:00:31, 7.14 m
Junction at 3 o'clock, 100mm dia

Section Pictures - 17/10/2023 - Downpipe

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
69	Upstream	DOWNPIPE	TSA-23-2537	TSA-23-2537



5, 00:00:41, 9.16 m
Junction at 3 o'clock, 100mm dia



6, 00:00:47, 10.66 m
Finish node, other special chamber, reference: Downpipe,
Internal downpipe reached

Section Inspection - 17/10/2023 - MH32 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
70	1	17/10/23	9:15	TSA-23-2537	No Rain Or Snow	No	MH32 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH32 X
Road:	The Bank	Inspected Length:	9.96 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	9.96 m	Downstream Node:	MH35
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:87	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH32 X							
		0.00	MH	Start node, manhole, reference: MH32 X	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension			
		0.00	S01	DES Settled deposits, fine, 10% cross-sectional area loss, start	00:00:01	1	
		3.16	F01	DES Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:14	2	3
		3.16	S02	DER Settled deposits, coarse, 10% cross-sectional area loss, start	00:00:14	3	
		5.44	GP	General photograph taken at this point	00:00:23	4	
		8.01	GP	General photograph taken at this point	00:00:36	5	
		9.90	F02	DER Settled deposits, coarse, 10% cross-sectional area loss, finish	00:00:44		3
		9.96	MHF	Finish node, manhole, reference: MH35 reached	00:00:46	6	
MH35 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	
0	0.0	0.0	0.0	1.0	2	4.0	2.2	22.0	3.0	

Section Pictures - 17/10/2023 - MH32 X				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
70	Downstream	MH32 X	TSA-23-2537	TSA-23-2537



1, 00:00:01, 0.00 m
Settled deposits, fine, 10% cross-sectional area loss, start



2, 00:00:14, 3.16 m
Settled deposits, fine, 10% cross-sectional area loss, finish



3, 00:00:14, 3.16 m
Settled deposits, coarse, 10% cross-sectional area loss, start



4, 00:00:23, 5.44 m
General photograph taken at this point

Section Pictures - 17/10/2023 - MH32 X				
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
70	Downstream	MH32 X	TSA-23-2537	TSA-23-2537



5, 00:00:36, 8.01 m
General photograph taken at this point



6, 00:00:46, 9.96 m
Finish node, manhole, reference: MH35 reached

Section Pictures - 17/10/2023 - SGY

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
71	Upstream	SGY	TSA-23-2537	TSA-23-2537



5, 00:00:40, 4.49 m
Finish node, gully, reference: SGY reached

Section Inspection - 17/10/2023 - Gully

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
72	1	17/10/23	9:15	TSA-23-2537	No Rain Or Snow	No	GULLY
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	GULLY
Road:	The Bank	Inspected Length:	1.64 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.64 m	Downstream Node:	MH32 B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH32 B							
		0.00	MH	Start node, manhole, reference: MH32 B	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension			
		0.00	LR	Line deviates right	00:00:01	1	
		0.00	LU	Line deviates up	00:00:01	2	
		0.89	LR	Line deviates right	00:00:10	3	
		1.64	GYF	Finish node, gully, reference: Gully reached	00:00:15	4	
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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



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Section Pictures - 17/10/2023 - Gully

Item No. 72	Inspection Direction Upstream	PLR GULLY	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:01, 0.00 m
Line deviates right



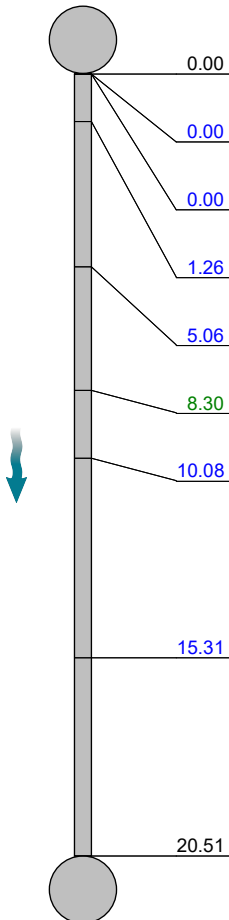
2, 00:00:01, 0.00 m
Line deviates up



3, 00:00:10, 0.89 m
Line deviates right



4, 00:00:15, 1.64 m
Finish node, gully, reference: Gully reached

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Section Inspection - 17/10/2023 - MH33 X									
Item No. 73	Insp. No. 1	Date 17/10/23	Time 9:15	Client's Job Ref TSA-23-2537	Weather No Rain Or Snow	Pre Cleaned No	PLR MH33 X		
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		
Town or Village:		London		Inspection Direction:		Downstream			
Road:		The Bank		Inspected Length:		20.51 m			
Location:		Property or buildings		Total Length:		20.51 m			
Surface Type:				Joint Length:					
Upstream Node:				Upstream Pipe Depth:		MH33 X			
Downstream Node:				Downstream Pipe Depth:		MH38			
Use:		Foul		Pipe Shape:		Circular			
Type of Pipe:		Gravity drain/sewer		Dia/Height:		150 mm			
Flow Control:		No flow control		Pipe Material:		Polyvinyl chloride			
Year Constructed:		Not Specified		Lining Type:		No Lining			
Inspection Purpose:		Routine inspection		Lining Material:		No Lining			
Comments:									
Recommendations:									
Scale:	1:178	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: m MH33 X									
		0.00	MH	Start node, manhole, reference: MH33 X	00:00:00				
		0.00	WL	Water level, 5% of the vertical dimension					
		0.00	REM	General remark: Vision limited due to steam					
		1.26	GP	General photograph taken at this point	00:02:46	1			
		5.06	GP	General photograph taken at this point	00:02:36	2			
		8.30	DEFJ	Attached deposits, fouling at joint from 9 o'clock to 3 o'clock, 5% cross-sectional area loss	00:02:23	3	3		
		10.08	GP	General photograph taken at this point	00:02:18	4			
		15.31	GP	General photograph taken at this point	00:02:05	5			
		20.51	MHF	Finish node, manhole, reference: MH38 (Pumping Station) reached	00:01:50	6			
MH38 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
0	0.0	0.0	0.0	1.0	1	2.0	0.1	2.0	3.0

Section Pictures - 17/10/2023 - MH33 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
73	Downstream	MH33 X	TSA-23-2537	TSA-23-2537



1, 00:02:46, 1.26 m
General photograph taken at this point



2, 00:02:36, 5.06 m
General photograph taken at this point



3, 00:02:23, 8.30 m
Attached deposits, fouling at joint from 9 o'clock to 3 o'clock,
5% cross-sectional area loss



4, 00:02:18, 10.08 m
General photograph taken at this point

Section Pictures - 17/10/2023 - MH33 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
73	Downstream	MH33 X	TSA-23-2537	TSA-23-2537



5, 00:02:05, 15.31 m
General photograph taken at this point



6, 00:01:50, 20.51 m
Finish node, manhole, reference: MH38 (Pumping Station)
reached

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Section Inspection - 17/10/2023 - MH34 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
74	1	17/10/23	9:15	TSA-23-2537	No Rain Or Snow	No	MH34 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH34 X
Road:	The Bank	Inspected Length:	9.64 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	9.64 m	Downstream Node:	MAIN
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:84

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH34 X

0.00

MH

Start node, manhole, reference: MH34 X

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.59

GP

General photograph taken at this point

00:00:07

1

5.26

DER

Settled deposits, coarse, 5% cross-sectional area loss

00:00:30

2

3

6.31

GP

General photograph taken at this point

00:00:36

3

9.64

BRF

Finish node, major connection without manhole, reference: Main sewer reached

00:00:52

4

Main

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
0	0.0	0.0	0.0	1.0	1	2.0	0.2	2.0	3.0

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Section Pictures - 17/10/2023 - MH34 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
74	Downstream	MH34 X	TSA-23-2537	TSA-23-2537



1, 00:00:07, 0.59 m
General photograph taken at this point



2, 00:00:30, 5.26 m
Settled deposits, coarse, 5% cross-sectional area loss



3, 00:00:36, 6.31 m
General photograph taken at this point



4, 00:00:52, 9.64 m
Finish node, major connection without manhole, reference: Main sewer reached

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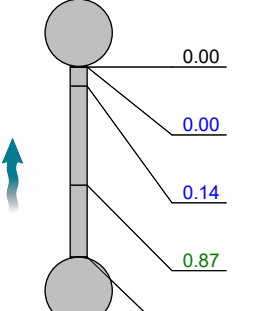
210

Section Inspection - 17/10/2023 - Downpipe

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
75	1	17/10/23	9:15	TSA-23-2537	No Rain Or Snow	No	DOWNPIPE
Operator Dominic White		Vehicle LM21 UHU		Camera Minicam Solopro	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	The Bank	Inspected Length:	1.40 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.40 m	Downstream Node:	MH34 A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH34 A						
	0.00	MH	Start node, manhole, reference: MH34 A	00:00:00			
	0.00	WL	Water level, 0% of the vertical dimension				
	0.14	GP	General photograph taken at this point	00:00:02	1		
	0.87	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:06	2	3	
	Downpipe						
	Depth: m						
			OCF	Finish node, other special chamber, reference: Downpipe: Internal downpipe reached	00:00:13	3	

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	2.0	1.4	2.0	3.0

Section Pictures - 17/10/2023 - Downpipe

Item No. 75	Inspection Direction Upstream	PLR DOWNPIPE	Client's Job Ref TSA-23-2537	Contractor's Job Ref TSA-23-2537
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1, 00:00:02, 0.14 m
General photograph taken at this point



2, 00:00:06, 0.87 m
Settled deposits, fine, 10% cross-sectional area loss



3, 00:00:13, 1.40 m
Finish node, other special chamber, reference: Downpipe,
Internal downpipe reached

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Section Inspection - 17/10/2023 - MH35 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
76	1	17/10/23	9:16	TSA-23-2537	No Rain Or Snow	No	MH35 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH35 X
Road:	The Bank	Inspected Length:	9.88 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	9.88 m	Downstream Node:	MH37
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:86

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH35 X

0.00

MH

Start node, manhole, reference: MH35 X

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

1.21

JN

Junction at 1 o'clock, 100mm dia

00:00:04

1

1.45

LL

Line deviates left

00:00:09

2

5.66

GP

General photograph taken at this point

00:00:22

3

9.12

LL

Line deviates left

00:00:33

4

9.88

MHF

Finish node, manhole, reference: MH37 (Pumping Station) reached

00:00:36

5

MH37

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Associates

Chartered Surveyors

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18-20 The Ropewalk, Nottingham

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Section Pictures - 17/10/2023 - MH35 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
76	Downstream	MH35 X	TSA-23-2537	TSA-23-2537



1, 00:00:04, 1.21 m
Junction at 1 o'clock, 100mm dia



2, 00:00:09, 1.45 m
Line deviates left



3, 00:00:22, 5.66 m
General photograph taken at this point



4, 00:00:33, 9.12 m
Line deviates left

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Section Pictures - 17/10/2023 - Unknown

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
77	Upstream	UNKNOWN	TSA-23-2537	TSA-23-2537

1, 00:00:07, 0.32 m
Line deviates up

2, 00:00:13, 0.71 m
General remark, Sewer levels out at this point

3, 00:00:18, 1.03 m
Joint displaced, large

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Section Inspection - 17/10/2023 - RWP

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
78	1	17/10/23	9:16	TSA-23-2537	No Rain Or Snow	No	RWP
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:

Road:

Location:

Surface Type:

Use:

Type of Pipe:

Flow Control:

Year Constructed:

Inspection Purpose:

London

The Bank

Property or buildings

Surface water

Gravity drain/sewer

No flow control

Not Specified

Routine inspection

Inspection Direction:

Inspected Length:

Total Length:

Joint Length:

Pipe Shape:

Dia/Height:

Pipe Material:

Lining Type:

Lining Material:

Upstream

6.21 m

6.21 m

Circular

100 mm

Polyvinyl chloride

No Lining

No Lining

Upstream Node:

Upstream Pipe Depth:

Downstream Node:

Downstream Pipe Depth:

RWP

MH35 B

Comments:

Recommendations:

Scale: 1:54

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH35 B

0.00

MH

Start node, manhole, reference: MH35 B

00:00:00

0.00

WL

Water level, 0% of the vertical dimension

0.00

LL

Line deviates left

00:00:02

0.36

JN

Junction at 3 o'clock, 100mm dia

00:00:09

1

0.55

LU

Line deviates up

00:00:11

2

0.69

LR

Line deviates right

00:00:13

3

3.72

GP

General photograph taken at this point

00:00:23

4

6.21

OCF

Finish node, other special chamber, reference: RWP: Internal RWP reached

00:00:37

5

RWP

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
78	Upstream	RWP	TSA-23-2537	TSA-23-2537



1, 00:00:09, 0.36 m
Junction at 3 o'clock, 100mm dia



2, 00:00:11, 0.55 m
Line deviates up



3, 00:00:13, 0.69 m
Line deviates right



4, 00:00:23, 3.72 m
General photograph taken at this point

Section Pictures - 17/10/2023 - RWP

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
78	Upstream	RWP	TSA-23-2537	TSA-23-2537



5, 00:00:37, 6.21 m
Finish node, other special chamber, reference: RWP, Internal RWP reached

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Section Inspection - 17/10/2023 - MH36 X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
79	1	17/10/23	9:16	TSA-23-2537	No Rain Or Snow	No	MH36 X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Dominic White		LM21 UHU		Minicam Solopro	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	MH36 X
Road:	The Bank	Inspected Length:	3.62 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	3.62 m	Downstream Node:	MH37
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH36 X

0.00

MH

Start node, manhole, reference: MH36 X

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

0.26

LD

Line deviates down

00:00:05

1

0.26

JN

Junction at 12 o'clock, 100mm dia

00:00:05

2

1.74

GP

General photograph taken at this point

00:00:16

3

2.46

REM

General remark: Sewer levels out at this point

00:00:18

4

3.62

MHF

Finish node, manhole, reference: MH37 reached

00:00:55

5

MH37

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
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/10/2023 - MH36 X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
79	Downstream	MH36 X	TSA-23-2537	TSA-23-2537



1, 00:00:05, 0.26 m
Line deviates down



2, 00:00:05, 0.26 m
Junction at 12 o'clock, 100mm dia



3, 00:00:16, 1.74 m
General photograph taken at this point



4, 00:00:18, 2.46 m
General remark, Sewer levels out at this point

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