



CCTV Inspection Report



Metro Rod (London North West)

Unit 17, Willows Activity Farm, Coursers Road, St Albans, AL4 0PF
Tel: 02034113113



Project Information

Metro Rod (London North West)
Unit 17
Willows Activity Farm
Coursers Road
St Albans
AL4 0PF

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024

Client Details:

28 MOOR PARK ROAD
NORTHWOOD
HA6 2DJ
ANIJI PILLAI
07789274887

Site Details:

28 MOOR PARK ROAD
NORTHWOOD
HA6 2DJ

Contractor Details:

Metro Rod (London North West)
Unit 17
Willows Activity Farm
Coursers Road
St Albans
AL4 0PF

Office Contact Number: 0208 200 1010

Purpose of Survey:

Job Number 919711	Surveyed by (Operator) MR MARTIN DOLLING	Base Unit XGFC6NDUIN	Date 25/03/2024
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Main Sections

Metro Rod (London North West)
Unit 17
Willows Activity Farm
Coursers Road
St Albans
AL4 0PF

Job Number
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Date
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No.	US MH	DS MH	Date	Road	Material	m
1	SMH01	SMH02	25/03/2024	28 MOOR PARK ROAD	Polypropylene	13.57
2	POINT A	FMH01	25/03/2024	28 MOOR PARK ROAD	Polypropylene	0.64
3	FMH01	FMH02	25/03/2024	28 MOOR PARK ROAD	Polypropylene	6.55
4	FMH02	FMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	11.48
5	POINT A	SMH02	25/03/2024	28 MOOR PARK ROAD	Polypropylene	2.5
6	SMH02	SMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	9.64
7	POINT A	FMH04	25/03/2024	28 MOOR PARK ROAD	Polypropylene	0.86
8	FMH04	FMH05	25/03/2024	28 MOOR PARK ROAD	Polypropylene	4.19
9	FMH05	FMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	7.43
10	POINT A	FMH05	25/03/2024	28 MOOR PARK ROAD	Polypropylene	0.52
11	POINT A	FMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	8.38
12	FMH03	FMH06	25/03/2024	28 MOOR PARK ROAD	Polypropylene	8.62
13	FMH06	MAINS	25/03/2024	28 MOOR PARK ROAD	Polypropylene	7.24
14	POINT A	SMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	3.79
15	POINT B	SMH03	25/03/2024	28 MOOR PARK ROAD	Polypropylene	7.55
16	SMH03	MAINS	25/03/2024	28 MOOR PARK ROAD	Polypropylene	18.14

Pipe size: 100 = 111.1m

All sections = 111.1m

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MR MARTIN DOLLINGBase Unit
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This sketch is not to scale and does not represent the exact routing of the drainage system



Job Number
919711

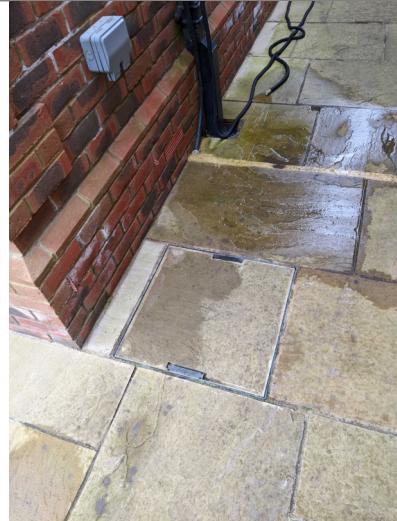
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Base Unit
XGFC6NDUIN

Date
25/03/2024



Manhole / Access Point: SMH01 Internal



Manhole / Access Point: SMH01 Location



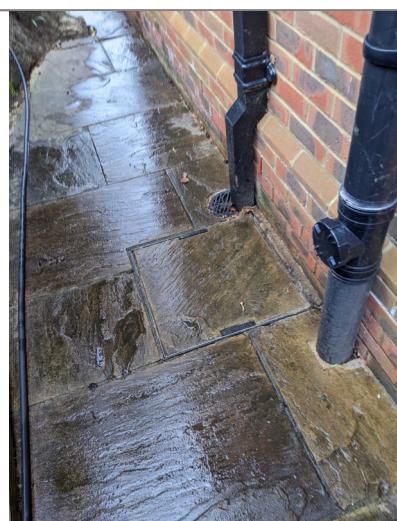
Manhole / Access Point: FMH01 Location



Manhole / Access Point: FMH02 Location



Manhole / Access Point: SMH02 Location



Manhole / Access Point: FMH04 Location

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Manhole / Access Point: FMH05 Location



Manhole / Access Point: FMH03 Location



Manhole / Access Point: FMH06 Location



Manhole / Access Point: SMH03 Location



Manhole / Access Point: FMH01 Internal



Manhole / Access Point: FMH02 Internal

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024**Manhole / Access Point: SMH02 Internal****Manhole / Access Point: FMH04 Internal****Manhole / Access Point: FMH05 Internal****Manhole / Access Point: SMH03 Internal****Manhole / Access Point: FMH03 Internal****Manhole / Access Point: FMH06 Internal**

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) SMH01 X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 1			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Surface water		Start MH SMH01 End MH SMH02 Total length 13.57 metres					
Scale 1:0.71 Direction Downstream							
Start Node Ref:SMH01 I/L : metres Depth: .38 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference SMH01	9431838	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431839	Comment / 0			
1.74	JN	Junction at 9 o'clock, diameter 100mm - Remark: RDP01	9431840	Comment / 0			
8.55	JN	Junction at 10 o'clock, diameter 100mm - Remark: RDP02	9431841	Comment / 0			
13.57	MHF	Finish node type, manhole, reference SMH02	9431842	Comment / 0			
End Node Ref:SMH02 I/L : metres							

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SMH01 Location



SMH01 Internal



0.02 M

Start node type, inspection chamber, reference SMH01



0.02 M

Water level 0% height/diameter



1.74 M

Junction at 9 o'clock, diameter 100mm - Remark: RDP01



8.55 M

Junction at 10 o'clock, diameter 100mm - Remark: RDP02

Job Number
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MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
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Finish node type, manhole, reference SMH02



Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 2			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Foul		Start MH FMH01 End MH POINT A Total length 0.64 metres					
Scale 1:0.03 Direction Upstream							
Start Node Ref:FMH01 I/L : metres Depth: .4 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference FMH01	9431843	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431844	Comment / 0			
0.38	LR	Line of drain/sewer deviates right	9431845	Comment / 0			
0.64	LU	Line of drain/sewer deviates up	9431846	Comment / 0			
0.64	BRF	Finish node type, major connection without manhole, reference POINT A	9431847	Comment / 0			
End Node Ref:POINT A I/L : metres							

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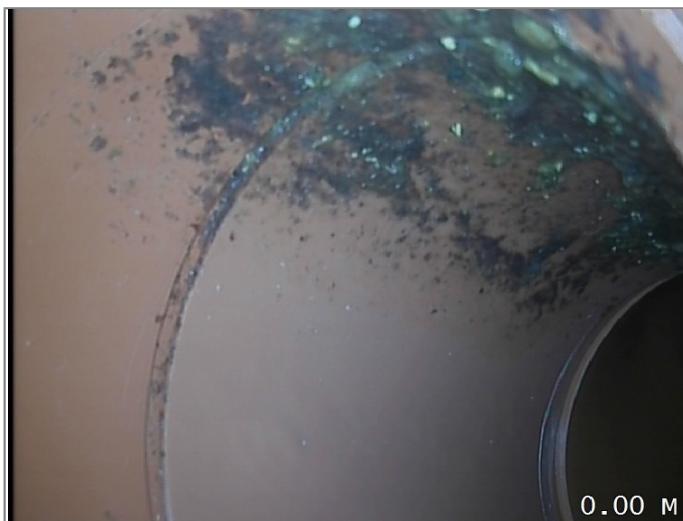
Date
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FMH01 Location

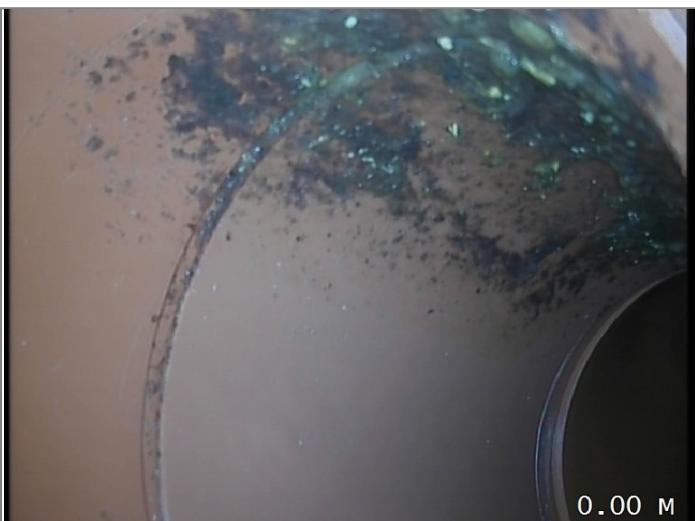


FMH01 Internal



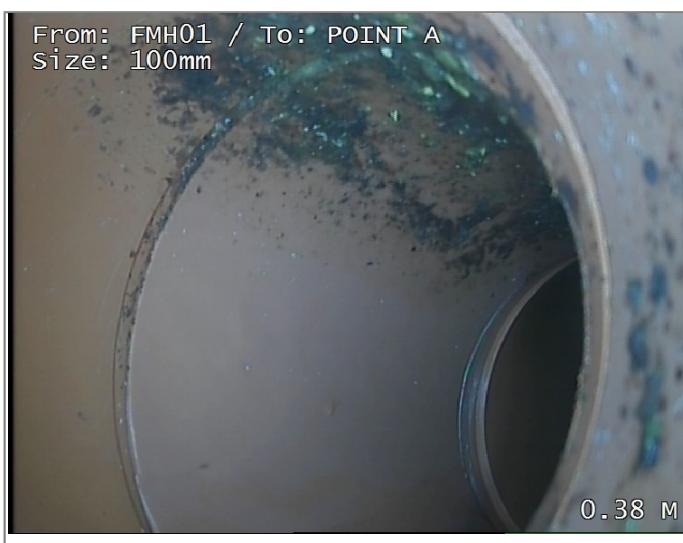
0.00 M

Start node type, inspection chamber, reference FMH01



0.00 M

Water level 0% height/diameter



0.38 M

Line of drain/sewer deviates right



0.64 M

Line of drain/sewer deviates up

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From: FMH01 / To: POINT A
Size: 100mm

0.64 M

Finish node type, major connection without manhole, reference POINT A

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH01 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 3		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH01 End MH FMH02 Total length 6.55 metres			
Scale 1:0.34 Direction Downstream						
Start Node Ref:FMH01 I/L : metres Depth: .4 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH01	9431848	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431849	Comment / 0		
						
6.55	ICF	Finish node type, inspection chamber, reference FMH02	9431850	Comment / 0		
End Node Ref:FMH02 I/L : metres						

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FMH01 Location



FMH01 Internal



0.00 M

Start node type, inspection chamber, reference FMH01



0.00 M

Water level 0% height/diameter



6.55 M

Finish node type, inspection chamber, reference FMH02



FMH02 Internal

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FMH02 Location

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Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH02 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 4		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH02 End MH FMH03 Total length 11.48 metres			
Scale 1:0.60 Direction Downstream						
Start Node Ref:FMH02 I/L : metres Depth: .5 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH02	9431851	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431852	Comment / 0		
						
11.48	ICF	Finish node type, inspection chamber, reference FMH03	9431853	Comment / 0		
End Node Ref:FMH03 I/L : metres						

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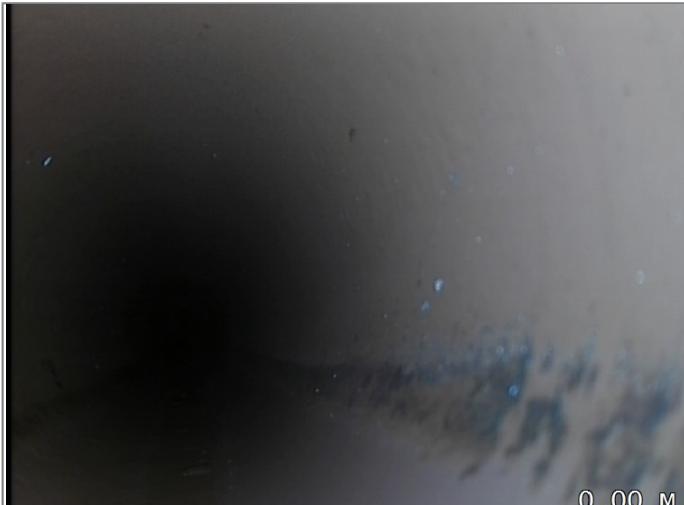
Date
25/03/2024



FMH02 Location

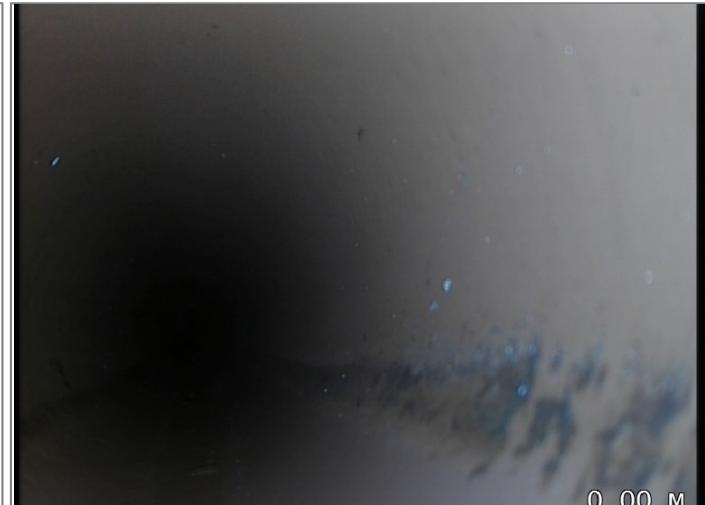


FMH02 Internal



0.00 M

Start node type, inspection chamber, reference FMH02



0.00 M

Water level 0% height/diameter



11.48 M

Finish node type, inspection chamber, reference FMH03



FMH03 Internal

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FMH03 Location

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit XGFC6NDUIN	Section Number 5			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Surface water		Start MH SMH02 End MH POINT A Total length 2.5 metres					
Scale 1:0.13 Direction Upstream							
Start Node Ref:SMH02 I/L : metres Depth: .4 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference SMH02	9431854	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431855	Comment / 0			
1.14	JN	Junction at 2 o'clock, diameter 100mm	9431856	Comment / 0			
2.10	DES	Settled deposits fine 50% cross-sectional area loss - Remark: LEAVES	9431857	Service / 4			
2.50	BRF	Finish node type, major connection without manhole, reference POINT A	9431858	Comment / 0			
2.50	BRF	Finish node type, major connection without manhole, reference POINT A ECO	9431859	Comment / 0			
End Node Ref:POINT A I/L : metres							

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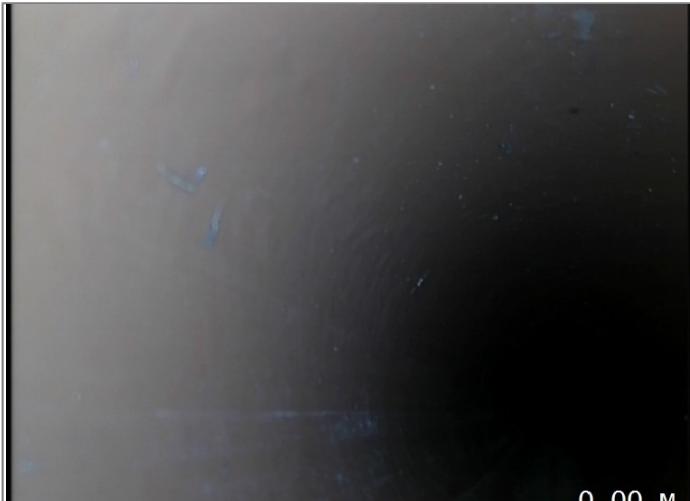
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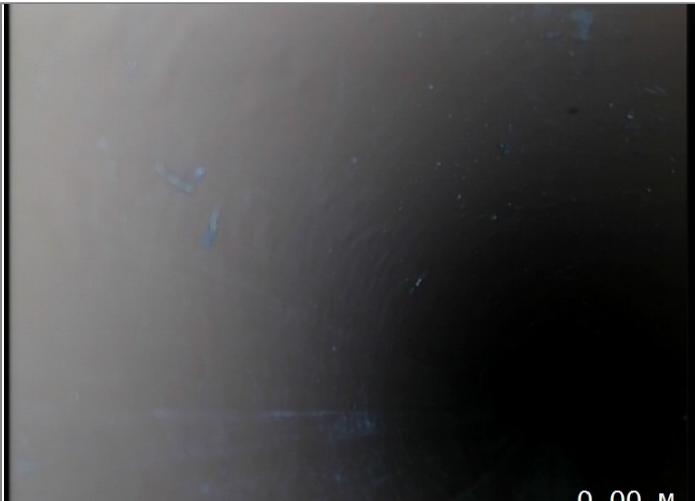
SMH02 Location



SMH02 Internal



Start node type, inspection chamber, reference SMH02



Water level 0% height/diameter



Junction at 2 o'clock, diameter 100mm



Settled deposits fine 50% cross-sectional area loss - Remark: LEAVES

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Finish node type, major connection without manhole, reference POINT A

Finish node type, major connection without manhole, reference POINT A
ECO

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) SMH02 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit XGFC6NDUIN	Section Number 6		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Surface water			Start MH SMH02 End MH SMH03 Total length 9.64 metres			
Scale 1:0.51 Direction Downstream						
Start Node Ref:SMH02 I/L : metres Depth: .4 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference SMH02	9431860	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431861	Comment / 0		
0.00	LL	Line of drain/sewer deviates left	9431862	Comment / 0		
2.67	JN	Junction at 12 o'clock, diameter 100mm - Remark: RODDING EYE	9431863	Comment / 0		
5.33	DER (S01)	Settled deposits coarse 25% cross-sectional area loss, Start	9431864	Service / 4		
9.26	LR	Line of drain/sewer deviates right	9431866	Comment / 0		
9.64	GYF	Finish node type, gully, reference SMH03	9431867	Comment / 0		
End Node Ref:SMH03 I/L : metres						

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XGFC6NDUIN

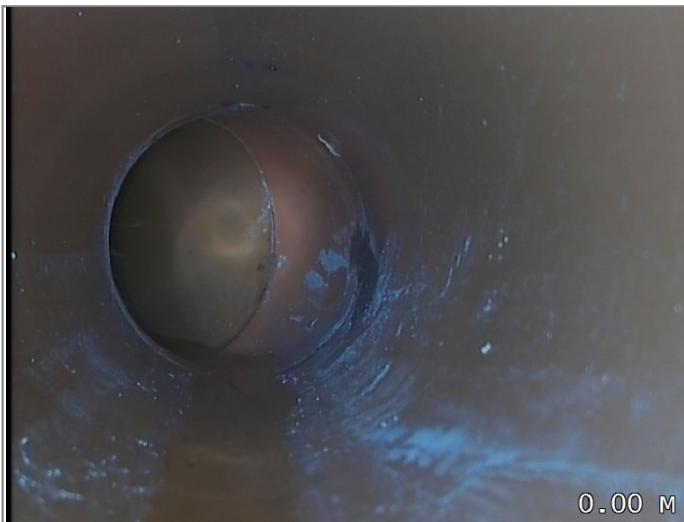
Date
25/03/2024



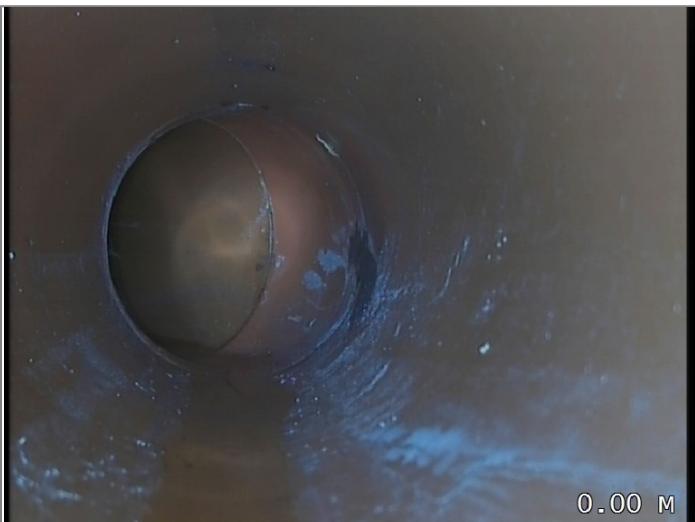
SMH02 Location



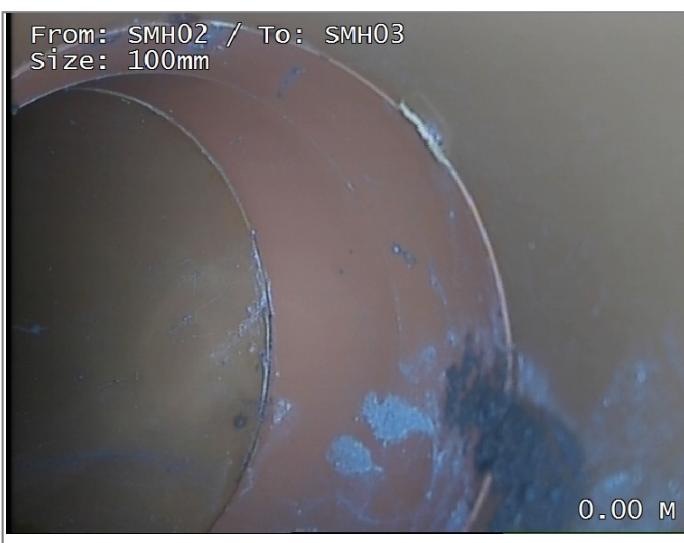
SMH02 Internal



Start node type, inspection chamber, reference SMH02



Water level 0% height/diameter



Line of drain/sewer deviates left



Junction at 12 o'clock, diameter 100mm - Remark: RODDING EYE

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Date
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From: SMH02 / To: SMH03
Size: 100mm

From: SMH02 / To: SMH03
Size: 100mm

5.33 M

9.26 M

Settled deposits coarse 25% cross-sectional area loss, Start

Line of drain/sewer deviates right

From: SMH02 / To: SMH03
Size: 100mm

9.64 M

Finish node type, gully, reference SMH03



SMH03 Internal



SMH03 Location

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 7
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details	
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH04 End MH POINT A Total length 0.86 metres	
Scale 1:0.05 Direction Upstream				
Start Node Ref:FMH04 I/L : metres Depth: .4 metres				
Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference FMH04	9431868	Comment / 0
0.00	WL	Water level 0% height/diameter	9431869	Comment / 0
0.05	LL	Line of drain/sewer deviates left	9431870	Comment / 0
0.40	LU	Line of drain/sewer deviates up	9431871	Comment / 0
0.86	BRF	Finish node type, major connection without manhole, reference POINT A	9431872	Comment / 0
End Node Ref:POINT A I/L : metres				

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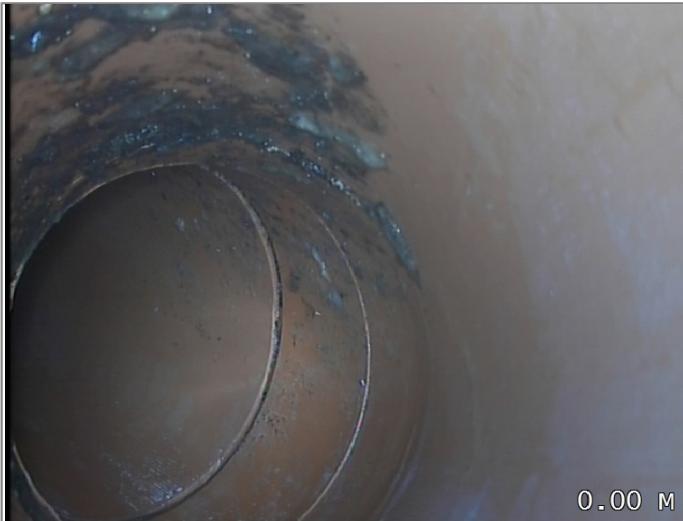
Date
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FMH04 Location

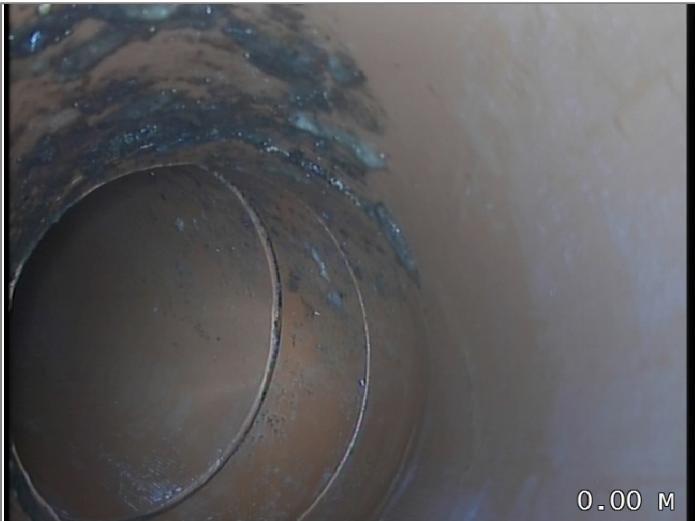


FMH04 Internal



0.00 M

Start node type, inspection chamber, reference FMH04



0.00 M

Water level 0% height/diameter



0.05 M

Line of drain/sewer deviates left



0.40 M

Line of drain/sewer deviates up

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From: FMH04 / To: POINT A
Size: 100mm



0.86 M

Finish node type, major connection without manhole, reference POINT A

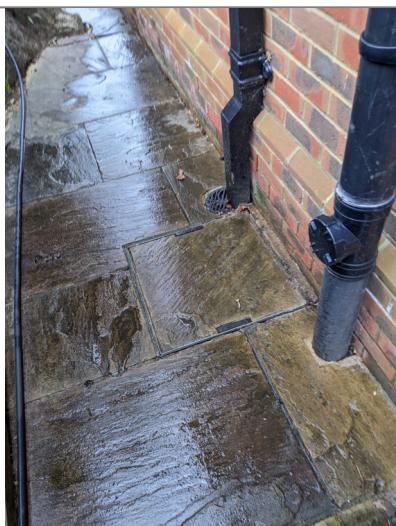
Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH04 X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 8			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Foul		Start MH FMH04 End MH FMH05 Total length 4.19 metres					
Scale 1:0.22 Direction Downstream							
Start Node Ref:FMH04 I/L : metres Depth: .4 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference FMH04	9431873	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431874	Comment / 0			
0.98	JN	Junction at 2 o'clock, diameter 100mm - Remark: GULLY01	9431875	Comment / 0			
4.19	ICF	Finish node type, inspection chamber, reference FMH05	9431876	Comment / 0			
End Node Ref:FMH05 I/L : metres							

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FMH04 Location



FMH04 Internal



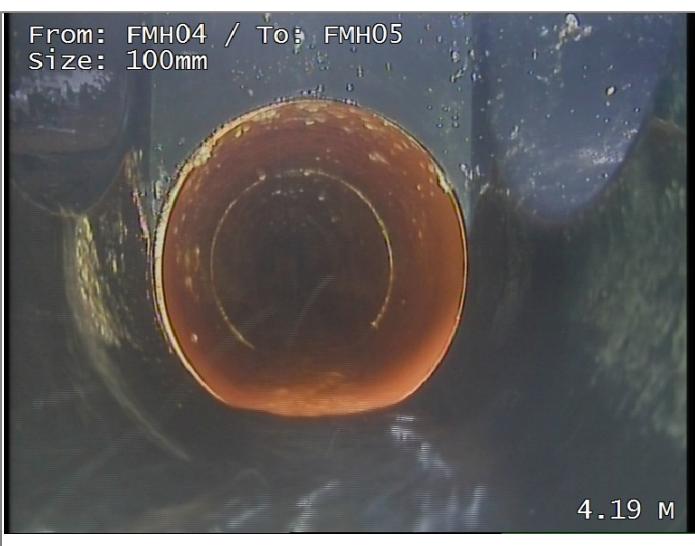
Start node type, inspection chamber, reference FMH04



Water level 0% height/diameter



Junction at 2 o'clock, diameter 100mm - Remark: GULLY01



Finish node type, inspection chamber, reference FMH05

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FMH05 Internal



FMH05 Location

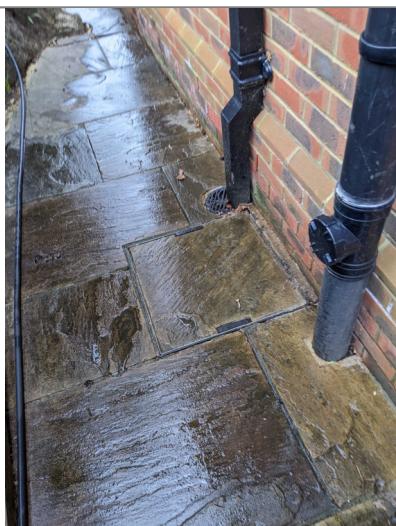
Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH05 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 9		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH05 End MH FMH03 Total length 7.43 metres			
Scale 1:0.39 Direction Downstream						
Start Node Ref:FMH05 I/L : metres Depth: .45 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH05	9431877	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431878	Comment / 0		
						
4.55	LR	Line of drain/sewer deviates right	9431879	Comment / 0		
5.36	JN	Junction at 3 o'clock, diameter 100mm	9431880	Comment / 0		
5.36	LL	Line of drain/sewer deviates left	9431881	Comment / 0		
7.43	ICF	Finish node type, inspection chamber, reference FMH03	9431882	Comment / 0		
End Node Ref:FMH03 I/L : metres						

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



FMH05 Location



FMH05 Internal



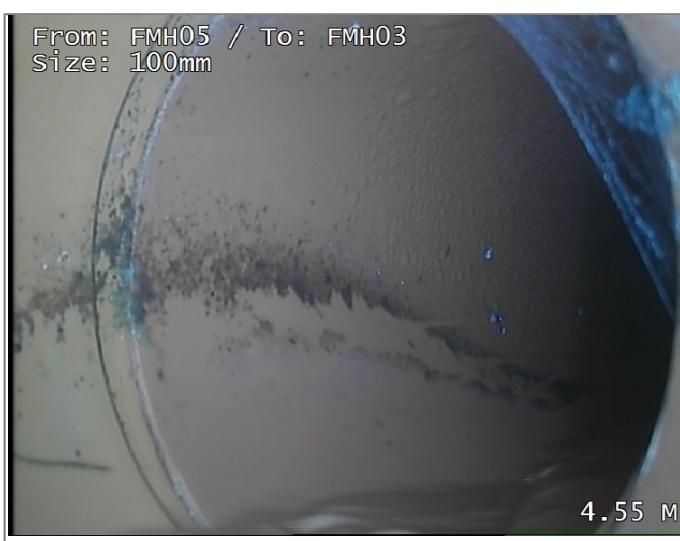
0.00 M

Start node type, inspection chamber, reference FMH05



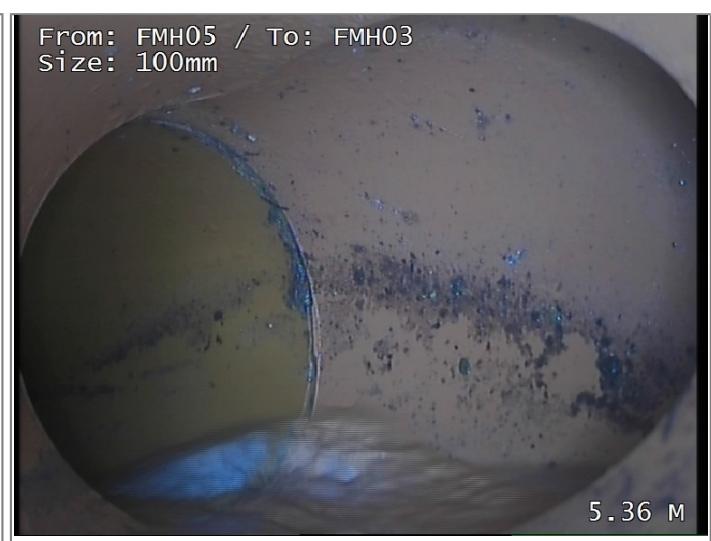
0.00 M

Water level 0% height/diameter



4.55 M

Line of drain/sewer deviates right



5.36 M

Junction at 3 o'clock, diameter 100mm

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024

From: FMH05 / To: FMH03
Size: 100mm

5.36 M

Line of drain/sewer deviates left

From: FMH05 / To: FMH03
Size: 100mm

7.43 M

Finish node type, inspection chamber, reference FMH03



FMH03 Internal



FMH03 Location

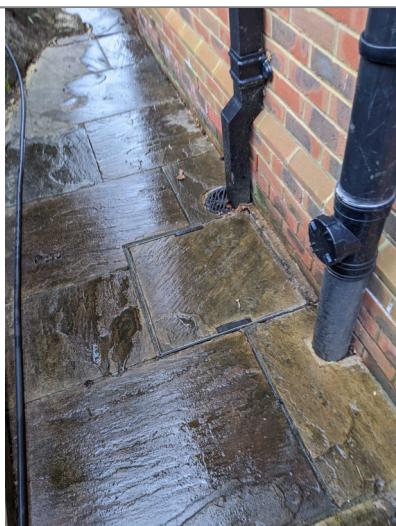
Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 10		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH05 End MH POINT A Total length 0.52 metres			
Scale 1:0.03 Direction Upstream						
Start Node Ref:FMH05 I/L : metres Depth: .45 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH05	9431883	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431884	Comment / 0		
0.07	LU	Line of drain/sewer deviates up	9431885	Comment / 0		
0.52	BRF	Finish node type, major connection without manhole, reference POINT A	9431886	Comment / 0		
End Node Ref:POINT A I/L : metres						

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

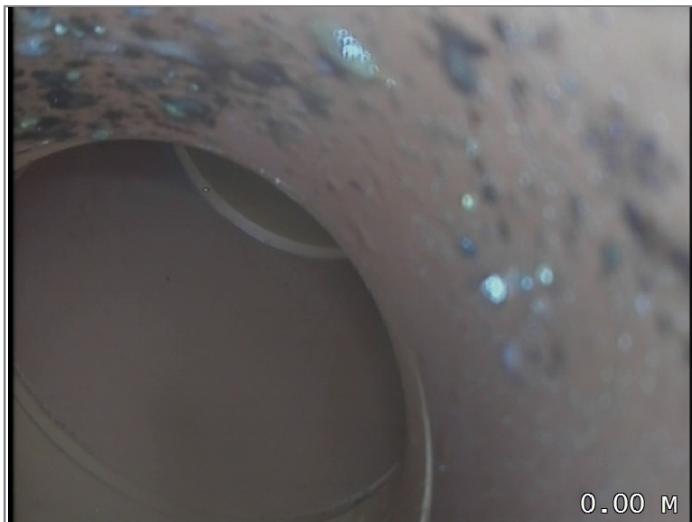
Date
25/03/2024



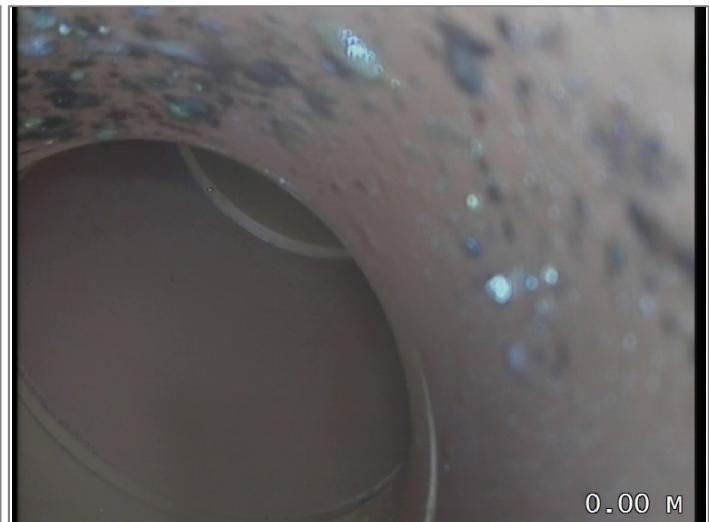
FMH05 Location



FMH05 Internal



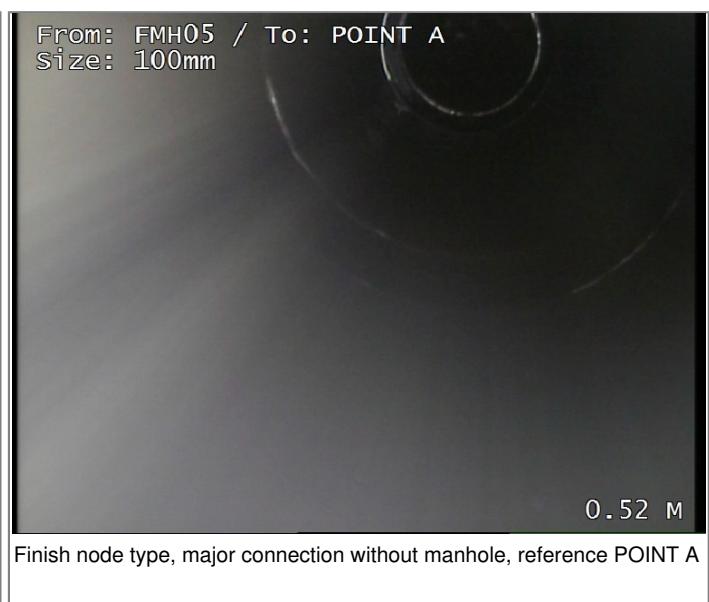
Start node type, inspection chamber, reference FMH05



Water level 0% height/diameter



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference POINT A

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 11		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH03 End MH POINT A Total length 8.38 metres			
Scale 1:0.44 Direction Upstream						
Start Node Ref:FMH03 I/L : metres Depth: .9 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH03	9431887	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431889	Comment / 0		
6.57	LL	Line of drain/sewer deviates left	9431890	Comment / 0		
7.45	JN	Junction at 10 o'clock, diameter 100mm	9431891	Comment / 0		
8.10	LU	Line of drain/sewer deviates up	9431892	Comment / 0		
8.38	BRF	Finish node type, major connection without manhole, reference POINT A	9431893	Comment / 0		
End Node Ref:POINT A I/L : metres						

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

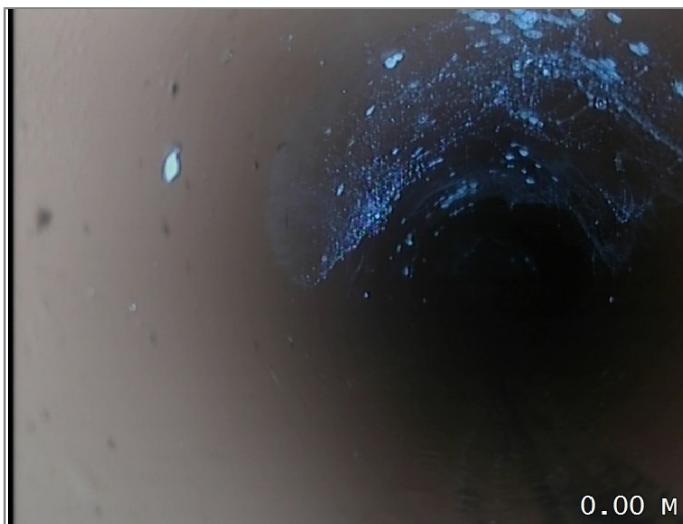
Date
25/03/2024



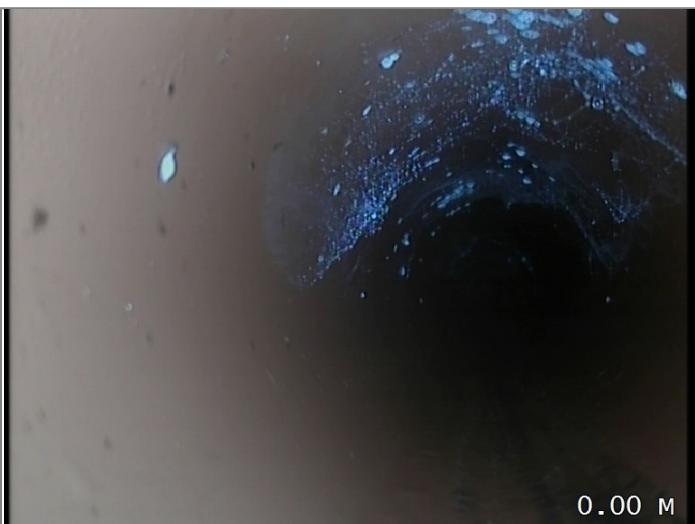
FMH03 Location



FMH03 Internal



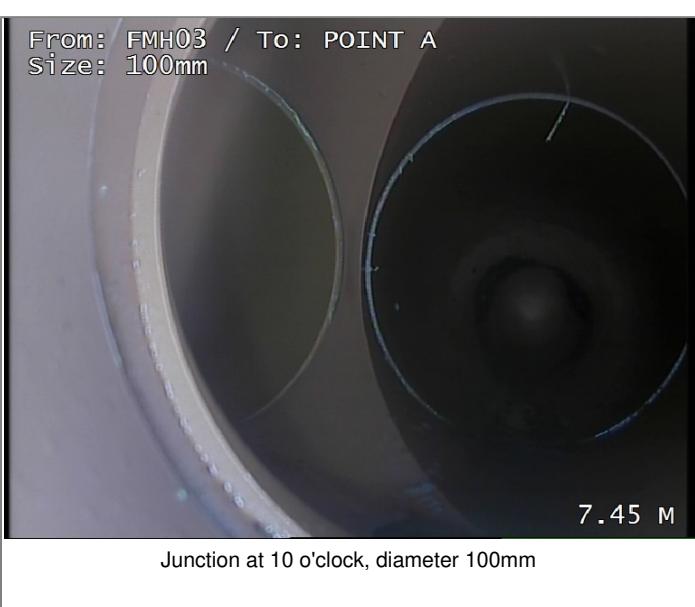
Start node type, inspection chamber, reference FMH03



Water level 0% height/diameter



Line of drain/sewer deviates left



Junction at 10 o'clock, diameter 100mm

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024

From: FMH03 / To: POINT A
Size: 100mm

8.10 M

Line of drain/sewer deviates up

From: FMH03 / To: POINT A
Size: 100mm

8.38 M

Finish node type, major connection without manhole, reference POINT A

CCTV Inspection Report

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH03 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 12		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH03 End MH FMH06 Total length 8.62 metres			
Scale 1:0.45 Direction Downstream						
Start Node Ref:FMH03 I/L : metres Depth: .9 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	IC	Start node type, inspection chamber, reference FMH03	9431894	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431895	Comment / 0		
1.60	LD	Line of drain/sewer deviates down	9431896	Comment / 0		
1.86	LU	Line of drain/sewer deviates up	9431897	Comment / 0		
2.38	MCVC	Material of drain/sewer changes to vitrified clay at this point	9431898	Comment / 0		
6.95	WLT	Turbid water level 25% height/diameter - Remark: CAUSE BY BLOCKED IC POSSIBLE CONCRETE	9431899	Comment / 0		
7.17	WLT (S01)	Turbid water level 25% height/diameter, Start	9431900	Comment / 0		
8.62	REM	BLOCKED IC POSSIBLE CONCRETE CANT CLEAR	9431901	Comment / 0		
8.62	MHF	Finish node type, manhole, reference FMH06	9431902	Comment / 0		
End Node Ref:FMH06 I/L : metres Depth: 2 metres						

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



FMH03 Location



FMH03 Internal



0.00 M

Start node type, inspection chamber, reference FMH03



0.00 M

Water level 0% height/diameter



1.60 M

Line of drain/sewer deviates down



1.86 M

Line of drain/sewer deviates up

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024

From: FMH03 / To: FMH06
Size: 100mm

2.38 M

Material of drain/sewer changes to vitrified clay at this point

From: FMH03 / To: FMH06
Size: 100mm

6.95 M

Turbid water level 25% height/diameter - Remark: CAUSE BY BLOCKED
IC POSSIBLE CONCRETE

From: FMH03 / To: FMH06
Size: 100mm

7.17 M

Turbid water level 25% height/diameter, Start

From: FMH03 / To: FMH06
Size: 100mm

8.62 M

BLOCKED IC POSSIBLE CONCRETE CANT CLEAR

From: FMH03 / To: FMH06
Size: 100mm

8.62 M

Finish node type, manhole, reference FMH06



FMH06 Internal

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024

FMH06 Location

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) FMH06 X	Date 25/03/2024	Pre Cleaned Not Cleaned		
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit XGFC6NDUIN	Section Number 13		
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ			Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details			
Shape/Size 100mm Material Polypropylene Duty Foul			Start MH FMH06 End MH MAINS Total length 7.24 metres			
Scale 1:0.38 Direction Downstream						
Start Node Ref:FMH06 I/L : metres Depth: 2 metres						
Position	Code	Description	Photo	Type/Grade		
0.00	MH	Start node type, manhole, reference FMH06	9431907	Comment / 0		
0.00	WL	Water level 0% height/diameter	9431908	Comment / 0		
						
6.52	DEE	Attached deposits, encrustation from 12 to 12 o'clock 30% cross-sectional area loss	9431909	Service / 4		
7.24	BRF	Finish node type, major connection without manhole, reference MAINS	9431910	Comment / 0		
End Node Ref:MAINS I/L : metres						

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



FMH06 Location



FMH06 Internal



0.00 M

Start node type, manhole, reference FMH06



0.00 M

Water level 0% height/diameter



6.52 M

Attached deposits, encrustation from 12 to 12 o'clock 30% cross-sectional area loss



7.24 M

Finish node type, major connection without manhole, reference MAINS

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT A X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 14			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Surface water		Start MH SMH03 End MH POINT A Total length 3.79 metres					
Scale 1:0.20 Direction Upstream							
Start Node Ref:SMH03 I/L : metres Depth: .8 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference SMH03	9431911	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431912	Comment / 0			
0.07	JN	Junction at 12 o'clock, diameter 100mm - Remark: RODDING EYE	9431913	Comment / 0			
1.93	JN	Junction at 3 o'clock, diameter 100mm - Remark: ECO	9431914	Comment / 0			
3.40	LL	Line of drain/sewer deviates left	9431915	Comment / 0			
3.79	BRF	Finish node type, major connection without manhole, reference POINT A RDP03	9431916	Comment / 0			
End Node Ref:POINT A I/L : metres							

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



SMH03 Location



SMH03 Internal



Start node type, inspection chamber, reference SMH03



-0.64 M

Water level 0% height/diameter



Junction at 12 o'clock, diameter 100mm - Remark: RODDING EYE



Junction at 3 o'clock, diameter 100mm - Remark: ECO

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024

From: SMH03 / To: POINT A
Size: 100mm

A dark, circular sewer pipe with a blue marker indicating a deviation in the line.

3.40 M

Line of drain/sewer deviates left

From: SMH03 / To: POINT A
Size: 100mm

A dark, circular sewer pipe with a blue marker indicating a deviation.

3.79 M

Finish node type, major connection without manhole, reference POINT A
RDP03

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) POINT B X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 15			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Surface water		Start MH SMH03 End MH POINT B Total length 7.55 metres					
Scale 1:0.40 Direction Upstream							
Start Node Ref:SMH03 I/L : metres Depth: .8 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference SMH03	9431917	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431918	Comment / 0			
0.19	LL	Line of drain/sewer deviates left	9431919	Comment / 0			
4.50	LL	Line of drain/sewer deviates left	9431920	Comment / 0			
6.50	JN	Junction at 3 o'clock, diameter 100mm - Remark: RDP06	9431921	Comment / 0			
7.21	LU	Line of drain/sewer deviates up	9431922	Comment / 0			
7.55	BRF	Finish node type, major connection without manhole, reference POINT B RDP05	9431923	Comment / 0			
End Node Ref:POINT B I/L : metres							

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



SMH03 Location



SMH03 Internal



0.00 M

Start node type, inspection chamber, reference SMH03



0.00 M

Water level 0% height/diameter



0.19 M

Line of drain/sewer deviates left



4.50 M

Line of drain/sewer deviates left

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024From: SMH03 / To: POINT B
Size: 100mm

6.50 M

Junction at 3 o'clock, diameter 100mm - Remark: RDP06

From: SMH03 / To: POINT B
Size: 100mm

7.21 M

Line of drain/sewer deviates up

From: SMH03 / To: POINT B
Size: 100mm

7.55 M

Finish node type, major connection without manhole, reference POINT B
RDP05

Surveyed by (Operator) MR MARTIN DOLLING	Job Number 919711	Pipe Length Reference(PLR) SMH03 X	Date 25/03/2024	Pre Cleaned Not Cleaned			
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit XGFC6NDUIN	Section Number 16			
Road 28 MOOR PARK ROAD Place NORTHWOOD Location HA6 2DJ		Ground Surface Concrete Code List Drain and Sewer Codes (5th Edition) Location Details					
Shape/Size 100mm Material Polypropylene Duty Surface water		Start MH SMH03 End MH MAINS Total length 18.14 metres					
Scale 1:0.95 Direction Downstream							
Start Node Ref:SMH03 I/L : metres Depth: .8 metres							
Position	Code	Description	Photo	Type/Grade			
0.00	IC	Start node type, inspection chamber, reference SMH03	9431924	Comment / 0			
0.00	WL	Water level 0% height/diameter	9431925	Comment / 0			
0.95	LD	Line of drain/sewer deviates down	9431926	Comment / 0			
1.17	LU	Line of drain/sewer deviates up	9431927	Comment / 0			
1.62	MCVC	Material of drain/sewer changes to vitrified clay at this point	9431928	Comment / 0			
							
18.14	BRF	Finish node type, major connection without manhole, reference MAINS	9431929	Comment / 0			
End Node Ref:MAINS I/L : metres							

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024



SMH03 Location



SMH03 Internal



0.00 M

Start node type, inspection chamber, reference SMH03



0.00 M

Water level 0% height/diameter



0.95 M

Line of drain/sewer deviates down



1.17 M

Line of drain/sewer deviates up

Job Number
919711Surveyed by (Operator)
MR MARTIN DOLLINGBase Unit
XGFC6NDUINDate
25/03/2024From: SMH03 / To: MAINS
Size: 100mm

1.62 M

Material of drain/sewer changes to vitrified clay at this point

From: SMH03 / To: MAINS
Size: 100mm

18.14 M

Finish node type, major connection without manhole, reference MAINS



Structural Defects (SRM 4)

Metro Rod (London North West)
Unit 17
Willows Activity Farm
Coursers Road
St Albans
AL4 0PF

Job Number 919711				Surveyed by (Operator) MR MARTIN DOLLING			Base Unit XGFC6NDUIN			Date 25/03/2024			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	SMH01 X	D	S	100	25/03/2024	Polypropylene	13.57 metres	13.57		0	1	0	0
2	POINT A X	U	F	100	25/03/2024	Polypropylene	0.64 metres	0.64		0	1	0	0
3	FMH01 X	D	F	100	25/03/2024	Polypropylene	6.55 metres	6.55		0	1	0	0
4	FMH02 X	D	F	100	25/03/2024	Polypropylene	11.48 metres	11.48		0	1	0	0
5	POINT A X	U	S	100	25/03/2024	Polypropylene	2.5 metres	2.5		0	1	0	0
6	SMH02 X	D	S	100	25/03/2024	Polypropylene	9.64 metres	9.64		0	1	0	0
7	POINT A X	U	F	100	25/03/2024	Polypropylene	0.86 metres	0.86		0	1	0	0
8	FMH04 X	D	F	100	25/03/2024	Polypropylene	4.19 metres	4.19		0	1	0	0
9	FMH05 X	D	F	100	25/03/2024	Polypropylene	7.43 metres	7.43		0	1	0	0
10	POINT A X	U	F	100	25/03/2024	Polypropylene	0.52 metres	0.52		0	1	0	0
11	POINT A X	U	F	100	25/03/2024	Polypropylene	8.38 metres	8.38		0	1	0	0
12	FMH03 X	D	F	100	25/03/2024	Polypropylene	8.62 metres	8.62		0	1	0	0
13	FMH06 X	D	F	100	25/03/2024	Polypropylene	7.24 metres	7.24		0	1	0	0
14	POINT A X	U	S	100	25/03/2024	Polypropylene	3.79 metres	3.79		0	1	0	0
15	POINT B X	U	S	100	25/03/2024	Polypropylene	7.55 metres	7.55		0	1	0	0
16	SMH03 X	D	S	100	25/03/2024	Polypropylene	18.14 metres	18.14		0	1	0	0



Service Defects (SRM 4)

Metro Rod (London North West)
Unit 17
Willows Activity Farm
Coursers Road
St Albans
AL4 0PF

Job Number 919711				Surveyed by (Operator) MR MARTIN DOLLING			Base Unit XGFC6NDUIN			Date 25/03/2024			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	SMH01 X	D	S	100	25/03/2024	Polypropylene	13.57 metres	13.57		0	1	0	0
2	POINT A X	U	F	100	25/03/2024	Polypropylene	0.64 metres	0.64		0	1	0	0
3	FMH01 X	D	F	100	25/03/2024	Polypropylene	6.55 metres	6.55		0	1	0	0
4	FMH02 X	D	F	100	25/03/2024	Polypropylene	11.48 metres	11.48		0	1	0	0
5	POINT A X	U	S	100	25/03/2024	Polypropylene	2.5 metres	2.5		8	4	3.20	8
6	SMH02 X	D	S	100	25/03/2024	Polypropylene	9.64 metres	9.64		5	4	0.52	5
7	POINT A X	U	F	100	25/03/2024	Polypropylene	0.86 metres	0.86		0	1	0	0
8	FMH04 X	D	F	100	25/03/2024	Polypropylene	4.19 metres	4.19		0	1	0	0
9	FMH05 X	D	F	100	25/03/2024	Polypropylene	7.43 metres	7.43		0	1	0	0
10	POINT A X	U	F	100	25/03/2024	Polypropylene	0.52 metres	0.52		0	1	0	0
11	POINT A X	U	F	100	25/03/2024	Polypropylene	8.38 metres	8.38		0	1	0	0
12	FMH03 X	D	F	100	25/03/2024	Polypropylene	8.62 metres	8.62		0	1	0	0
13	FMH06 X	D	F	100	25/03/2024	Polypropylene	7.24 metres	7.24		5	4	0.69	5
14	POINT A X	U	S	100	25/03/2024	Polypropylene	3.79 metres	3.79		0	1	0	0
15	POINT B X	U	S	100	25/03/2024	Polypropylene	7.55 metres	7.55		0	1	0	0
16	SMH03 X	D	S	100	25/03/2024	Polypropylene	18.14 metres	18.14		0	1	0	0

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024

Job Information

Total Distance Surveyed: **111.1 meters**
Engineer: **MR MARTIN DOLLING**
Number of Surveys: **16**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (25/03/2024)

Manholes: **SMH01 to SMH02**
Pipe Length: **13.57 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polypropylene**
Pipe Size: **100mm**
Use: **Surface water**

Section 2 Overview (25/03/2024)

Manholes: **FMH01 to POINT A**
Pipe Length: **0.64 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polypropylene**
Pipe Size: **100mm**
Use: **Foul**

Section 3 Overview (25/03/2024)

Manholes: **FMH01 to FMH02**
Pipe Length: **6.55 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polypropylene**
Pipe Size: **100mm**
Use: **Foul**

Section 4 Overview (25/03/2024)

Manholes: **FMH02 to FMH03**
Pipe Length: **11.48 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polypropylene**
Pipe Size: **100mm**
Use: **Foul**

Section 5 Overview (25/03/2024)

Manholes: **SMH02 to POINT A**
Pipe Length: **2.5 metres**
Structural Grade: **0**
Service Grade: **4**
Material: **Polypropylene**
Pipe Size: **100mm**
Use: **Surface water**

Job Number
919711

Surveyed by (Operator)
MR MARTIN DOLLING

Base Unit
XGFC6NDUIN

Date
25/03/2024

Section 6 Overview (25/03/2024)

Manholes: **SMH02 to SMH03**

Pipe Length: **9.64 metres**

Structural Grade: **0**

Service Grade: **4**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Surface water**

Section 7 Overview (25/03/2024)

Manholes: **FMH04 to POINT A**

Pipe Length: **0.86 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 8 Overview (25/03/2024)

Manholes: **FMH04 to FMH05**

Pipe Length: **4.19 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 9 Overview (25/03/2024)

Manholes: **FMH05 to FMH03**

Pipe Length: **7.43 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 10 Overview (25/03/2024)

Manholes: **FMH05 to POINT A**

Pipe Length: **0.52 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 11 Overview (25/03/2024)

Manholes: **FMH03 to POINT A**

Pipe Length: **8.38 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

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Base Unit
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Date
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Section 12 Overview (25/03/2024)

Manholes: **FMH03 to FMH06**

Pipe Length: **8.62 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 13 Overview (25/03/2024)

Manholes: **FMH06 to MAINS**

Pipe Length: **7.24 metres**

Structural Grade: **0**

Service Grade: **4**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Foul**

Section 14 Overview (25/03/2024)

Manholes: **SMH03 to POINT A**

Pipe Length: **3.79 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Surface water**

Section 15 Overview (25/03/2024)

Manholes: **SMH03 to POINT B**

Pipe Length: **7.55 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Surface water**

Section 16 Overview (25/03/2024)

Manholes: **SMH03 to MAINS**

Pipe Length: **18.14 metres**

Structural Grade: **0**

Service Grade: **0**

Material: **Polypropylene**

Pipe Size: **100mm**

Use: **Surface water**

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STRUCTURAL DEFECTS

Grade 3; Best practice suggests consideration to be given to repair in the medium term.

Grade 4; Best practice suggests consideration to be given to repair to avoid potential collapse.

Grade 5; Best practice suggests this pipe is at risk of collapse at any time; urgent consideration should be given to repair to avoid collapse.

Structural Defects			
Section	PLR	Grade	Fault Description
No Structural Defects at Grade 3, 4 or 5 found on this survey.			

SERVICE / OPERATIONAL DEFECTS

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

Grade 4; Best practice suggests consideration to be given to maintenance to avoid potential blockage.

Grade 5; Best practice suggests this pipe is at risk of backing up / causing flooding.

Service Defects			
Section	PLR	Grade	Fault Description
5	POINT A X	4	Settled deposits fine 50% cross-sectional area loss - Remark: LEAVES
6	SMH02 X	4	Settled deposits coarse 25% cross-sectional area loss, Start
13	FMH06 X	4	Attached deposits, encrustation from 12 to 12 o'clock 30% cross-sectional area loss

ABANDONED SURVEYS

Camera no access			
Section	PLR		Fault Description
All surveys completed.			

INFORMATION

These summaries are based on the SRM grading from the WRC

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1: Occurrences without damage. For example, laterals, joints, etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurrences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS.
NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE,
NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.