



Appendix F – Existing Building CCTV Drainage Survey

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Director

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Project

Project Name: 67C Camlet Way, Barnet, EN4 0NL
Project Description: Pre-build
Project Date: 02/11/2022

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67C Camlet Way, Barnet, EN4 0NL		02/11/2022

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Project Information

Project Name	Project Number	Project Date
67C Camlet Way, Barnet, EN4 0NL		02/11/2022

Site

Street: 67C Camlet Way
Town or City: Barnet
Post Code: EN4 0NL

Contractor

Company: JSD Solutions 24/7 Ltd
Department: Athene House
Street: 86 The Broadway
Town or City: Mill Hill
County: London
Post Code: NW7 3TD
Phone: 0207 125 0295
Email: Info@jsnowdrainagelondon.co.uk

Survey Comments & Recommendations

<u>Item No.</u>	<u>Downstream Node</u>	<u>Upstream Node</u>	<u>Comments</u>	<u>Further Work Required</u>	<u>Recommendations</u>
1	MH1	ACO1	Aco channel - Line serviceable and free flowing	No	None
2	MH1	FWG1	Foul Water Gully - Line serviceable and free flowing	No	None
3	PUMP	MH1	MH1 discharges to pump station - Line serviceable and free flowing.	No	None
4	MH2	PUMP	Pump station discharges to MH2 - Large displacement and redundant connection noted	Yes	Install 1m x 100mm Silicate Patch Liner
5	MH2	RED02	Redundant pipe	Yes	Cap at manhole entry point
6	MH2	RED03	Redundant pipe	Yes	Cap at manhole entry point
7	MH2	SVP1	Survey abandoned due to intruding mortar into joint connection	Yes	Picote cut obstruction & Re Survey - Patch Lining repair will likely be required
8	MH2	ACO2	Aco channel enters MH 0.35m from cover level - Line serviceable and free flowing	No	None
9	MH3	MH2	Survey abandoned due to deformed pitch fibre pipe - Survey completed with below section	Yes	Re-round/re-line up to 5m x 100mm pipework
10	MH3	MH2	Survey abandoned due to deformed pitch fibre Survey overlap from section 9 above	Yes	As per section 9 above
11	MH3	RWG3	Gully enters MH3 at high level 0.30m - Line serviceable and free flowing	No	None
12	DOWNSTREAM	MH3	Survey abandoned due to deformed pitch fibre - MH4 is buried under the flower bed	Yes	Raise MH4, Picote clean line in attempt to remove deformed section of pipe & attempt to complete CCTV survey
	System duty		Some rainwater Gullies were found to be connected to the foul system and some we were unable to confirm their discharge location	Yes	Confirm with Thames Water if the near-by Sewer's are Combined or separate

PROJECT DRAWING



NOT TO SCALE
ALL SONAR TRACING
MEASUREMENTS APPROXIMATE

KEY:

- Soil —
- Rainy Surface Water —
- Untraced —
- Assumed / Unable to Survey / Not Surveyed - - - - -
- WWP = Waste Water Pipe
- IC = Inspection Chamber
- MH = Manhole
- SWI = Soil Vent Pipe
- RWP = Rainwater Pipe
- RWS = Rainwater Gully
- SWG = Surface Water Gully
- CMG = Combined Water Gully
- FWD = Full Waste Gully
- AVA = Survey Abandonment
- JK = Junction
- SW = Soil Vent Pipe
- UL = Upstream Discharge Location

Project Pictures

Project Name 67C Camlet Way, Barnet, EN4 0NL	Project Number	Project Date 02/11/2022
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Front of property



Back of property,



MH1 to FWG1



MH1 to MH2



MH1



MH2 to MH1

Project Pictures

Project Name 67C Camlet Way, Barnet, EN4 0NL	Project Number	Project Date 02/11/2022
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MH3 to MH2



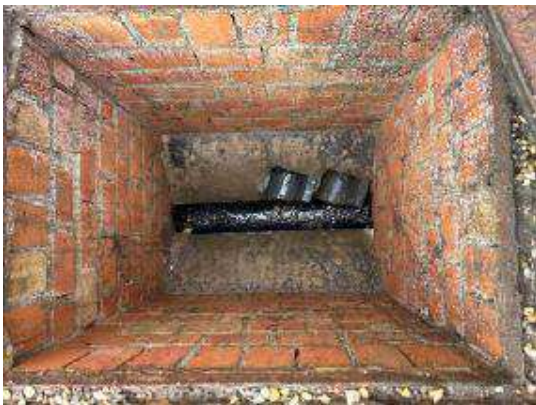
MH3 to MH4



MH3



MH4 to Downstream



MH4



Pumpstation

Project Pictures

<p>Project Name 67C Camlet Way, Barnet, EN4 0NL</p>	<p>Project Number</p>	<p>Project Date 02/11/2022</p>
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Recommend to remove Birdsnest off MH1 outlet in pump station due to blocking system



Slopcock



FWG1



CWG1



RWG1 unknown discharge



RWG3

Section Profile

Project Name
 67C Camlet Way, Barnet, EN4 0NL

Project Number

Project Date
 02/11/2022

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
4	PUMP	MH2	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	4,14 m	4,14 m
5	RED02	MH2	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	0,23 m	0,23 m
6	RED03	MH2	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	0,38 m	0,38 m
7	SVP1	MH2	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	0,15 m	0,15 m
9	MH2	MH3	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	2,85 m	2,85 m
10	MH2	MH3	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	1,98 m	1,98 m
12	MH3	DOWNSTREAM	02/11/2022	67C CAMLET WAY	Vitrified clay pipe (i.e. all clayware)	12,77 m	12,77 m

Total: 7 Inspections x Circular 100 mm = 22,50 m Total Length and 22,50 m Inspected Length

Circular, 110 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	ACO1	MH1	02/11/2022	67C CAMLET WAY	Polyvinyl chloride	2,58 m	2,58 m
2	FWG1	MH1	02/11/2022	67C CAMLET WAY	Polyvinyl chloride	10,26 m	10,26 m
3	MH1	PUMP	02/11/2022	67C CAMLET WAY	Polyvinyl chloride	7,30 m	7,30 m
8	ACO2	MH2	02/11/2022	67C CAMLET WAY	Polyvinyl chloride	0,65 m	0,65 m
11	RWG3	MH3	02/11/2022	67C CAMLET WAY	Polyvinyl chloride	2,74 m	2,74 m

Total: 5 Inspections x Circular 110 mm = 23,52 m Total Length and 23,52 m Inspected Length

Total: 12 Inspections = 46,02 m Total Length and 46,02 m Inspected Length

Section Inspection - 02/11/2022 - ACO1X

Item No. 1	Insp. No. 1	Date 02/11/22	Time 8:29	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR ACO1X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	ACO1
Road:	67C Camlet Way	Inspected Length:	2.58 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	2.58 m	Downstream Node:	MH1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.470 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	110 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Aco channel - Line serviceable and free flowing				
Recommendations:	None				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0,00	MH	Start node, manhole, reference: MH1		00:00:00	20221102-083010-sn ap0000.jpg	
	0,00	WL	Water level, 0% of the vertical dimension		00:00:01		
	0,10	LR	Line deviates right		00:00:05		
	1,98	GP	General photograph taken at this point		00:00:13	ACO1X_0 b336eda-3d7e-44e7-	
	2,47	LD	Line deviates down		00:00:14	ACO1X_0 a4b3754-92b0-40fb-a	
	2,58	GYF	Finish node, gully, reference: ACO1		00:00:21	20221102-083010-sn ap0001.jpg	

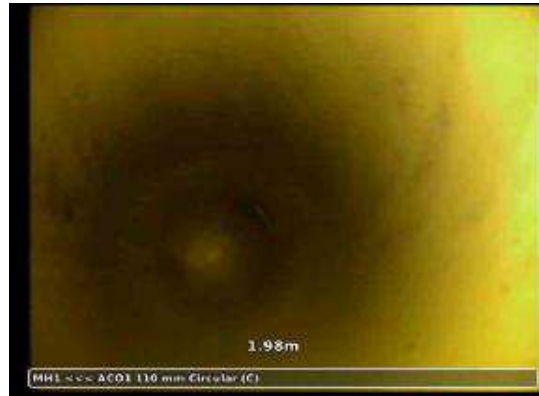
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 02/11/2022 - ACO1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	ACO1X	01	



20221102-083010-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH1



ACO1X_0b336eda-3d7e-44e7-b6a5-f4db2ca7eafd_20221103_1
 01139_760.jpg, 00:00:13, 1.98 m
 General photograph taken at this point



ACO1X_0a4b3754-92b0-40fb-acc1-091df3d48932_20221103_
 101148_421.jpg, 00:00:14, 2.47 m
 Line deviates down

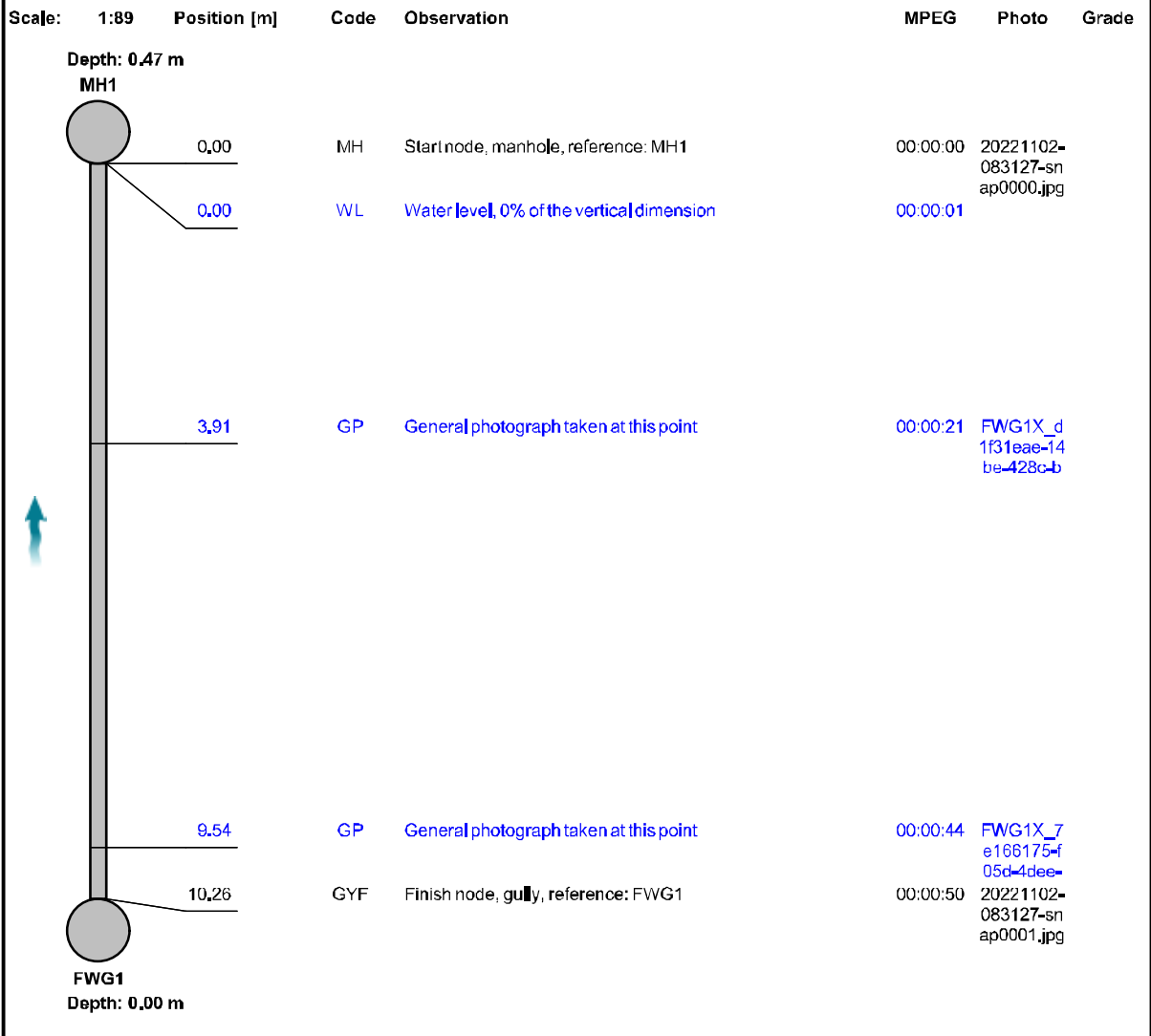


20221102-083010-snap0001.jpg, 00:00:21, 2.58 m
 Finish node, gully, reference: ACO1

Section Inspection - 02/11/2022 - FWG1X

Item No. 2	Insp. No. 2	Date 02/11/22	Time 8:31	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR FWG1X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	FWG1
Road:	67C Camlet Way	Inspected Length:	10.26 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	10.26 m	Downstream Node:	MH1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.470 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	110 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Foul Water Gully - Line serviceable and free flowing				
Recommendations:	None				



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 - 02/11/2022 - FWG1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	FWG1X	01	



20221102-083127-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH1



FWG1X_d1f31eae-14be-428c-b6e3-6148890389bb_20221103_101340_409.jpg, 00:00:21, 3.91 m
 General photograph taken at this point



FWG1X_7e166175-f05d-4dee-b0ea-eb8e414c6fa7_20221103_101351_499.jpg, 00:00:44, 9.54 m
 General photograph taken at this point

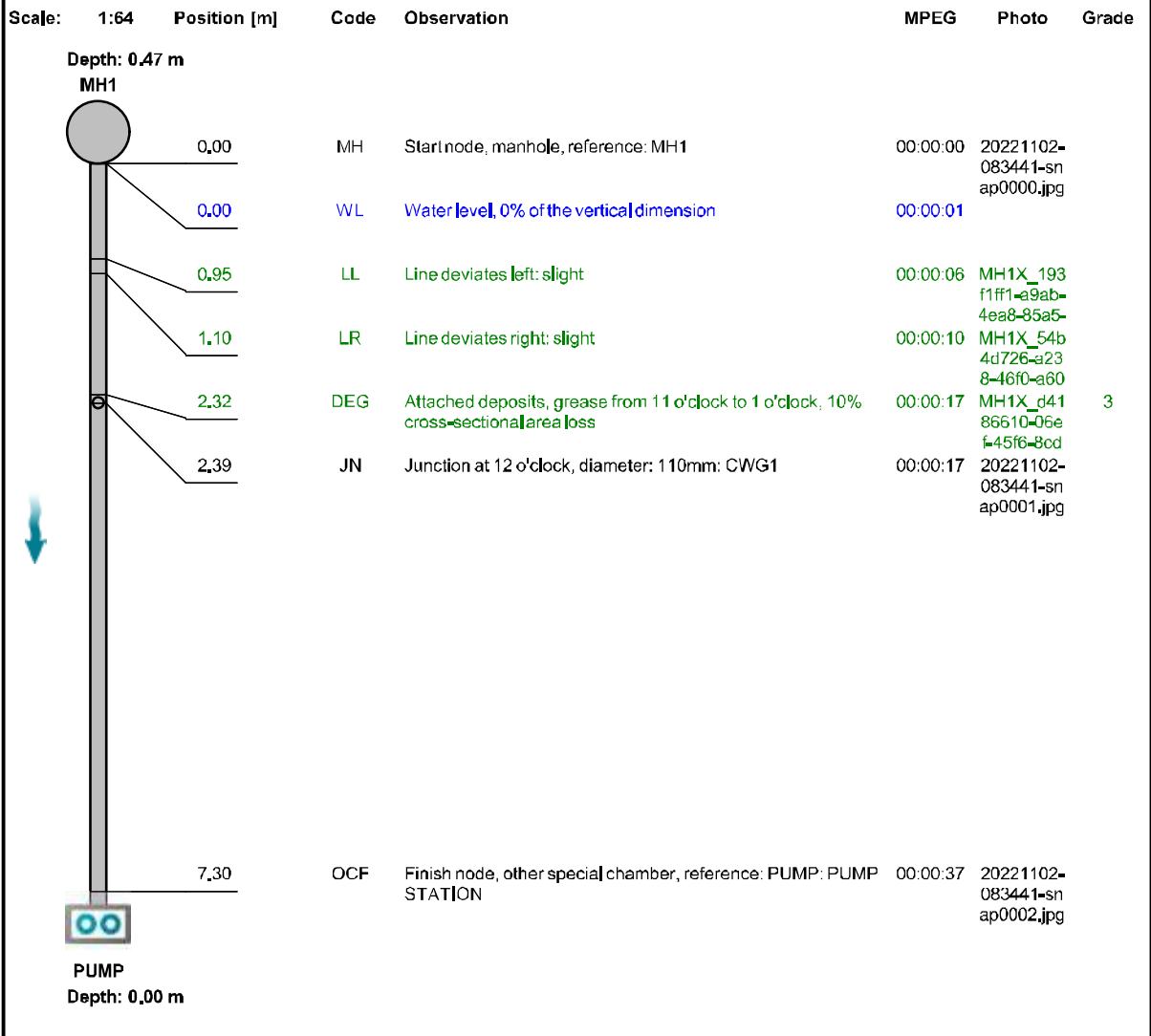


20221102-083127-snap0001.jpg, 00:00:50, 10.26 m
 Finish node, gully, reference: FWG1

Section Inspection - 02/11/2022 - MH1X

Item No. 3	Insp. No. 3	Date 02/11/22	Time 8:33	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH1X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Downstream	Upstream Node:	MH1
Road:	67C Camlet Way	Inspected Length:	7.30 m	Upstream Pipe Depth:	0.470 m
Location:	Other (state in comments)	Total Length:	7.30 m	Downstream Node:	PUMP
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.000 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	110 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	MH1 discharges to pump station - Line serviceable and free flowing.				
Recommendations:	None				



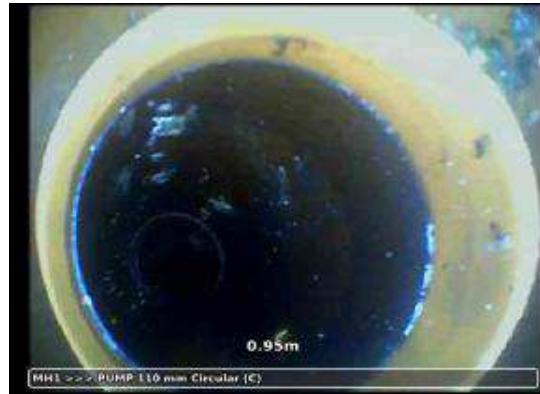
Construction Features					Miscellaneous Features						
Structural Defects					Service & Operational Observations						
STR No.	Def	STR Peak	STR Mean	STR Total	STR Grade	SER No.	Def	SER Peak	SER Mean	SER Total	SER Grade
0		0.0	0.0	0.0	1.0	1		2.0	0.3	2.0	3.0

Section Pictures - 02/11/2022 - MH1X

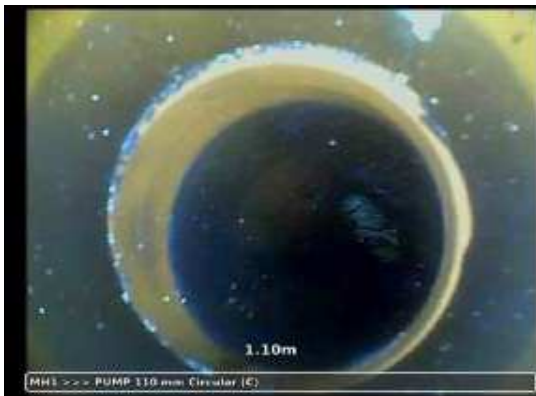
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



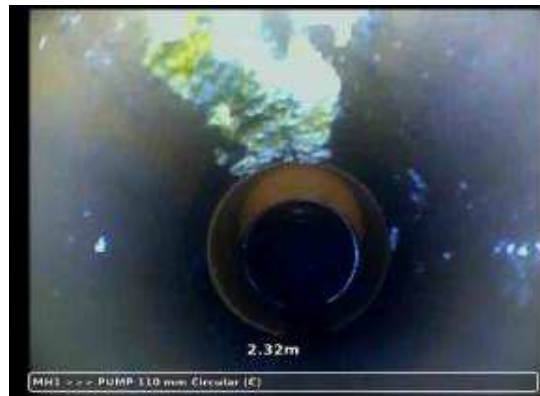
20221102-083441-snap0000.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH1



MH1X_193f1ff1-a9ab-4ea8-85a5-8cc7ed42b988_20221103_101551_988.jpg, 00:00:06, 0.95 m
Line deviates left, slight



MH1X_54b4d726-a238-46f0-a608-134a08ce4b5a_20221103_101612_715.jpg, 00:00:10, 1.10 m
Line deviates right, slight



MH1X_d4186610-06ef-45f6-8cd6-e7d7a455cb7f_20221103_101641_060.jpg, 00:00:17, 2.32 m
Attached deposits, grease from 11 o'clock to 1 o'clock, 10%



20221102-083441-snap0001.jpg, 00:00:17, 2.39 m
Junction at 12 o'clock, diameter: 110mm, CWG1



20221102-083441-snap0002.jpg, 00:00:37, 7.30 m
Finish node, other special chamber, reference: PUMP, PUMP STATION

Section Inspection - 02/11/2022 - PUMPX

Item No. 4	Insp. No. 4	Date 02/11/22	Time 9:08	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR PUMPX
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	PUMP
Road:	67C Camlet Way	Inspected Length:	4.14 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	4.14 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.550 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Pump station discharges to MH2 - Large displacement and redundant connection noted.				
Recommendations:	Install 1m x 100mm Silicate Patch Liner				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	PUMPX_4 7a25daf-bd ea-421f-a2	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,15	JDL	Joint displaced, large	00:00:07	PUMPX_3 e4c5767-e 416-4097-	1
		0,15	MCPVC	Material changes to polyvinyl chloride: 110	00:00:11	20221102- 090846-sn ap0001.jpg	
		0,34	H	Hole in drain or sewer from 11 o'clock to 12 o'clock	00:00:12	PUMPX_ef 7f340b-f8 6-48ce-96f	4
		0,42	JN	Junction at 12 o'clock, diameter: 110mm: RED01	00:00:18		
		0,80	WL	Water level, 15% of the vertical dimension	00:00:24		
		3,95	GP	General photograph taken at this point	00:00:35	PUMPX_d e98495f-ea 8a-48d6-9	
		4,14	REM	General remark: DISCHARGE PIPE FOR PUMP	00:00:38	PUMPX_d 9aa5c93-3 5c2-441b-	
		4,14	BRF	Finish node, major connection without manhole, reference: PUMP	00:00:41		

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	19.8	82.0	4.0	0	0.0	0.0	0.0	1.0

Section Pictures - 02/11/2022 - PUMPX

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



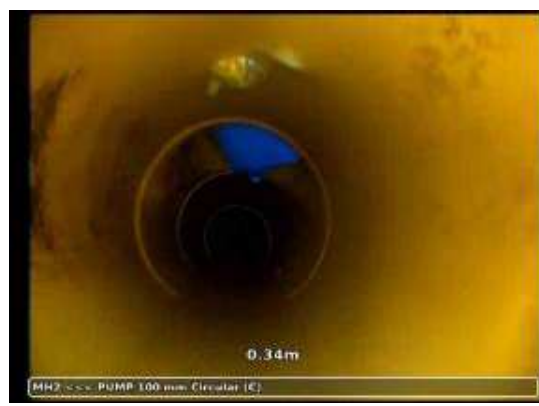
PUMPX_47a25daf-bdea-421f-a2b7-49eb1da782b4_20221109_151411_483.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH2



PUMPX_3e4c5767-e416-4097-99d1-cd8b95deb938_20221103_101803_237.jpg, 00:00:07, 0.15 m
Joint displaced, large



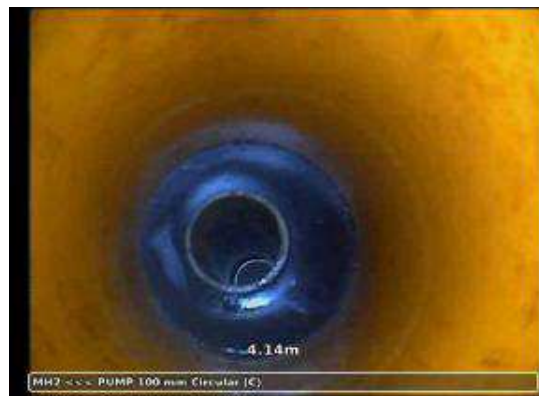
20221102-090846-snap0001.jpg, 00:00:11, 0.15 m
Material changes to polyvinyl chloride, 110



PUMPX_ef7f340b-ff86-48ce-96ff-8cf3af438302_20221103_101830_947.jpg, 00:00:12, 0.34 m
Hole in drain or sewer from 11 o'clock to 12 o'clock



PUMPX_de98495f-ea8a-48d6-922f-712b8982f116_20221103_101903_905.jpg, 00:00:35, 3.95 m
General photograph taken at this point



PUMPX_d9aa5c93-35c2-441b-b78f-f67acf7bee7e_20221109_151332_998.jpg, 00:00:38, 4.14 m
General remark, DISCHARGE PIPE FOR PUMP

Section Inspection - 02/11/2022 - RED02X

Item No. 5	Insp. No. 5	Date 02/11/22	Time 9:13	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR RED02X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	RED02
Road:	67C Camlet Way	Inspected Length:	0.23 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	0.23 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.550 m
Use:	Other	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Redundant pipe				
Recommendations:	Cap at manhole entry point				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	20221102-091350-sn ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,23	BRF	Finish node, major connection without manhole, reference: RED02	00:00:09	20221102-091350-sn ap0001.jpg	
		Depth: 0,00 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 - 02/11/2022 - RED02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Upstream	RED02X	01	



20221102-091350-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH2



20221102-091350-snap0001.jpg, 00:00:09, 0.23 m
 Finish node, major connection without manhole, reference: RED02

Section Inspection - 02/11/2022 - RED03X

Item No. 6	Insp. No. 6	Date 02/11/22	Time 9:14	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR RED03X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	RED03
Road:	67C Camlet Way	Inspected Length:	0.38 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	0.38 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.550 m
Use:	Other	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Redundant pipe				
Recommendations:	Cap at manhole entry point				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	20221102-091424-sn ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,00	S01	Settled deposits, other, 30% cross-sectional area loss, start	00:00:01		
		0,38	BRF	Finish node, major connection without manhole, reference: RED03	00:00:09	20221102-091424-sn ap0001.jpg	
		0,38	F01	Settled deposits, other, 30% cross-sectional area loss, finish	00:00:11		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	1	5.0	13.2	5.0	5.0

Section Pictures - 02/11/2022 - RED03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	RED03X	01	



20221102-091424-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH2



20221102-091424-snap0001.jpg, 00:00:09, 0.38 m
 Finish node, major connection without manhole, reference: RED03

Section Inspection - 02/11/2022 - SVP1X

Item No. 7	Insp. No. 7	Date 02/11/22	Time 9:14	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR SVP1X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	SVP1
Road:	67C Camlet Way	Inspected Length:	0.15 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	0.15 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.550 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

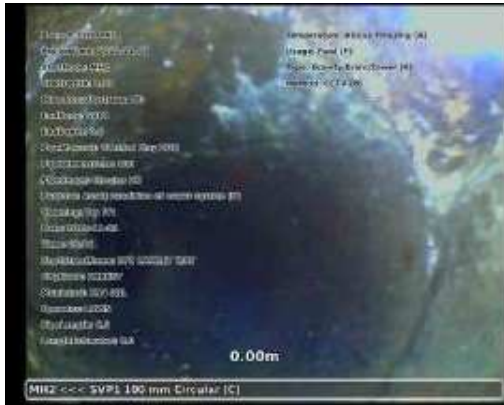
Comments: Survey abandoned due to intruding mortar into joint connection
Recommendations: Picote cut obstruction & Re Survey - Patch Lining repair will likely be required

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	20221102-091513-sn-ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,08	LL	Line deviates left	00:00:15		
		0,11	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 7 o'clock, 30% cross-sectional area loss	00:00:16	SVP1X_0a8c1da8-9521-43ca-ba	4
		0,15	SA	Survey abandoned: Concrete obstructing	00:00:21	20221102-091513-sn-ap0001.jpg	

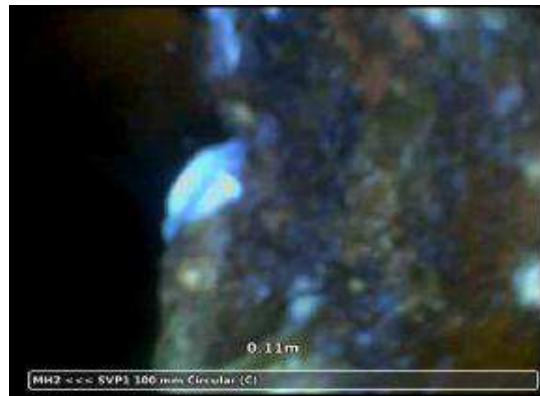
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	10.0	65.8	10.0	5.0

Section Pictures - 02/11/2022 - SVP1X

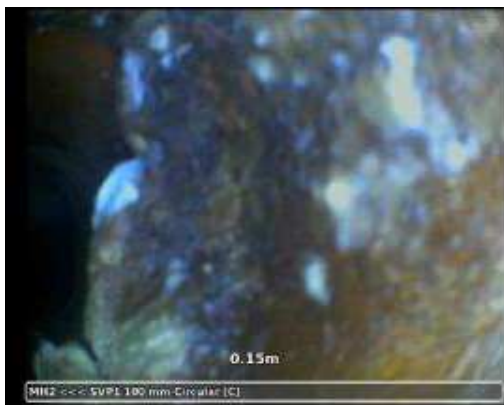
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Upstream	SVP1X	01	



20221102-091513-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH2



SVP1X_0a8c1da8-9521-43ca-ba49-016bff673e7c_20221103_1
 02335_573.jpg, 00:00:16, 0.11 m
 Attached deposits, encrustation at joint from 12 o'clock to 7



20221102-091513-snap0001.jpg, 00:00:21, 0.15 m
 Survey abandoned, Concrete obstructing

Section Inspection - 02/11/2022 - ACO2X

Item No. 8	Insp. No. 8	Date 02/11/22	Time 9:16	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR ACO2X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	ACO2
Road:	67C Camlet Way	Inspected Length:	0.65 m	Upstream Pipe Depth:	0.000 m
Location:	Other (state in comments)	Total Length:	0.65 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.550 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	110 mm		
Flow Control:	No flow control	Pipe Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Aco channel enters MH 0.35m from cover level - Line serviceable and free flowing				
Recommendations:	None				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	20221102-091807-sn ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:00	20221102-091807-sn ap0001.jpg	
		0,00	GP	General photograph taken at this point	00:00:00	20221102-091807-sn ap0002.jpg	
		0,00	LD	Line deviates down	00:00:01		
		0,49	LD	Line deviates down	00:00:10	ACO2X_7 dc139ce-a eb6-4b22-	
		0,65	GYF	Finish node, gully, reference: ACO2	00:00:17	20221102-091807-sn ap0003.jpg	

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 - 02/11/2022 - ACO2X

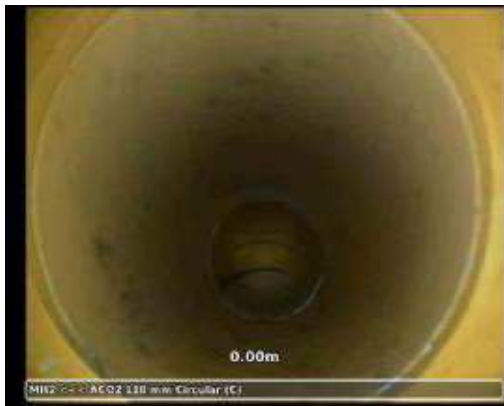
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	ACO2X	01	



20221102-091807-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH2



20221102-091807-snap0001.jpg, 00:00:00, 0.00 m
 Water level, 0% of the vertical dimension



20221102-091807-snap0002.jpg, 00:00:00, 0.00 m
 General photograph taken at this point



ACO2X_7dc139ce-aeb6-4b22-838a-7008bf17a777_20221103_102550_845.jpg, 00:00:10, 0.49 m
 Line deviates down



20221102-091807-snap0003.jpg, 00:00:17, 0.65 m
 Finish node, gully, reference: ACO2

Section Inspection - 02/11/2022 - MH2X

Item No. 9	Insp. No. 9	Date 02/11/22	Time 9:18	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH2X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Downstream	Upstream Node:	MH2
Road:	67C Camlet Way	Inspected Length:	2.85 m	Upstream Pipe Depth:	0.550 m
Location:	Other (state in comments)	Total Length:	2.85 m	Downstream Node:	MH3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.840 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Survey abandoned due to deformed pitch fibre pipe - Survey completed with below section				
Recommendations:	Re-round/re-line up to 5m x 100mm pipework				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH2	00:00:00	20221102-092005-sn ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,15	CC	Crack, circumferential from 9 o'clock to 3 o'clock	00:00:05	MH2X_d1e2fe50-4e31-4e78-b6c	2
		0,57	MCPF	Material changes to pitch fibre	00:00:20	20221102-092005-sn ap0001.jpg	
		0,57	S02 DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 15% cross-sectional area loss, start	00:00:22		
		2,39	GP	General photograph taken at this point	00:00:32	MH2X_0c38dde7-d8b b-4f88-8d2	
		2,70	D	Deformed drain or sewer, 20%	00:00:36	MH2X_f54133c6-7326-4428-b4	5
		2,84	F02 DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 15% cross-sectional area loss, finish	00:00:47		3
		2,85	SA	Survey abandoned: Unable to pass deformed pitch fibre	00:00:47	20221102-092005-sn ap0002.jpg	

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	165.0	61.4	175.0	5.0	1	2.0	2.1	6.0	3.0

Section Pictures - 02/11/2022 - MH2X

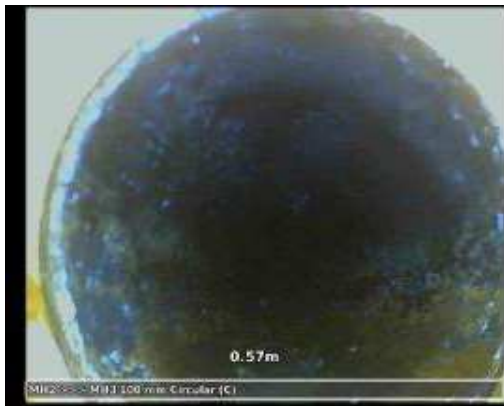
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	MH2X	01	



20221102-092005-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH2



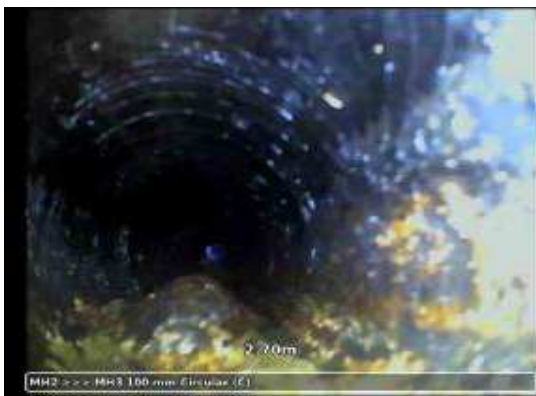
MH2X_d1e2fe50-4e31-4e78-b6c6-037906ac171f_20221103_102714_032.jpg, 00:00:05, 0.15 m
 Crack, circumferential from 9 o'clock to 3 o'clock



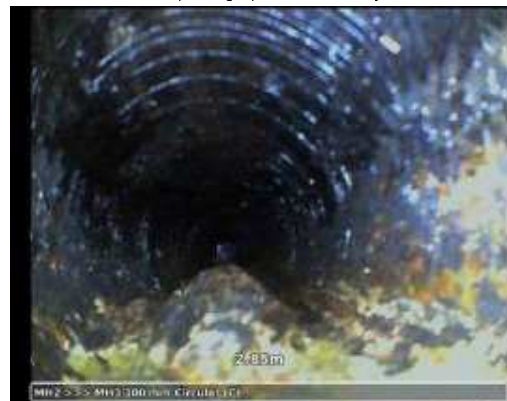
20221102-092005-snap0001.jpg, 00:00:20, 0.57 m
 Material changes to pitch fibre



MH2X_0c38dde7-d8bb-4f88-8d2b-98dfbd033046_20221103_102754_779.jpg, 00:00:32, 2.39 m
 General photograph taken at this point



MH2X_f54133c6-7326-4428-b4d8-96821a162e64_20221103_102853_457.jpg, 00:00:36, 2.70 m
 Deformed drain or sewer. 20%



20221102-092005-snap0002.jpg, 00:00:47, 2.85 m
 Survey abandoned, Unable to pass deformed pitch fibre

Section Inspection - 02/11/2022 - MH2X

Item No. 10	Insp. No. 10	Date 02/11/22	Time 9:24	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH2X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

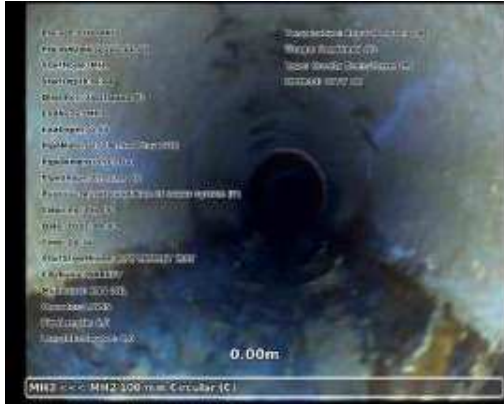
Town or Village:	Barnet	Inspection Direction:	Upstream	Upstream Node:	MH2
Road:	67C Camlet Way	Inspected Length:	1.98 m	Upstream Pipe Depth:	0.550 m
Location:	Other (state in comments)	Total Length:	1.98 m	Downstream Node:	MH3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.840 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Survey abandoned due to deformed pitch fibre - Survey overlap from section 9 above				
Recommendations:	As per section 9 above				

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH3	00:00:00	20221102-092526-sn ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:01		
		0,08	CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:05	MH2X_263 d938a-33a c-4c5d-af4	2
		0,38	JDM	Joint displaced, medium	00:00:14		1
		0,38	MCPF	Material changes to pitch fibre	00:00:16	20221102-092526-sn ap0001.jpg	
		0,38	S01	DEE Attached deposits, encrustation from 12 o'clock to 12 o'clock, 15% cross-sectional area loss, start	00:00:24		
		0,38	S02	D Deformed drain or sewer, 10%, start	00:00:24		
		1,75	GP	General photograph taken at this point	00:00:26	MH2X_8a6 e5f58-6a70 -4778-958	
		1,97	F01	DEE Attached deposits, encrustation from 12 o'clock to 12 o'clock, 15% cross-sectional area loss, finish	00:00:29		3
		1,97	F02	D Deformed drain or sewer, 10%, finish	00:00:29		4
		1,98	SA	Survey abandoned: Deformed Pitch fibre	00:00:29	20221102-092526-sn ap0002.jpg	

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		90.0	86.5	171.0	4.0	1		2.0	2.0	4.0	3.0

Section Pictures - 02/11/2022 - MH2X

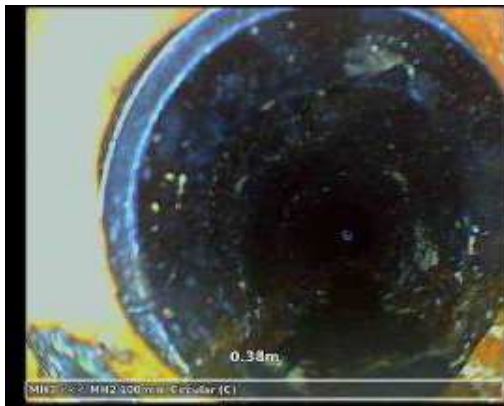
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	MH2X	01	



20221102-092526-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH3



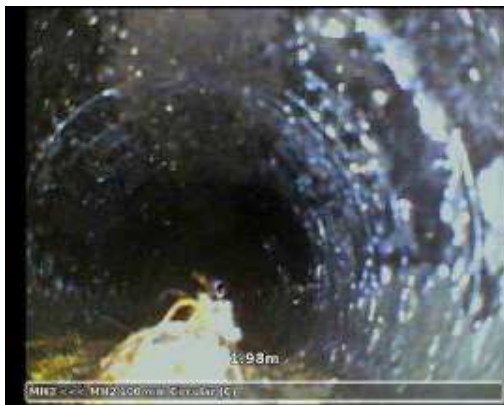
MH2X_263d938a-33ac-4c5d-af43-acc89c52318e_20221103_103027_801.jpg, 00:00:05, 0.08 m
 Crack, circumferential from 12 o'clock to 12 o'clock



20221102-092526-snap0001.jpg, 00:00:16, 0.38 m
 Material changes to pitch fibre



MH2X_8a6e5f58-6a70-4778-9584-6dedfa02e8a2_20221103_103121_331.jpg, 00:00:26, 1.75 m
 General photograph taken at this point



20221102-092526-snap0002.jpg, 00:00:29, 1.98 m
 Survey abandoned, Deformed Pitch fibre

Section Inspection - 02/11/2022 - RWG3X

Item No. 11	Insp. No. 11	Date 02/11/22	Time 9:27	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR RWG3X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village: Barnet	Inspection Direction: Upstream	Upstream Node: RWG3
Road: 67C Camlet Way	Inspected Length: 2.74 m	Upstream Pipe Depth: 0.000 m
Location: Other (state in comments)	Total Length: 2.74 m	Downstream Node: MH3
Surface Type:	Joint Length:	Downstream Pipe Depth: 0.870 m
Use: Surface water	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Dia/Height: 110 mm	
Flow Control: No flow control	Pipe Material: Polyvinyl chloride	
Year Constructed: Not Specified	Lining Type: No Lining	
Inspection Purpose: Sample survey to determine asset condition	Lining Material: No Lining	
Comments: Gully enters MH3 at high level 0.30m - Line serviceable and free flowing		
Recommendations: None		

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0,00	MH	Start node, manhole, reference: MH3	00:00:00	20221102-092841-sn-ap0000.jpg	
		0,00	WL	Water level, 0% of the vertical dimension	00:00:00		
		0,00	GP	General photograph taken at this point	00:00:00	20221102-092841-sn-ap0001.jpg	
		0,27	JN	Junction at 12 o'clock, diameter: 110mm: Capped	00:00:06	RWG3X_c-f47935a-85fd4da2-a	
		2,13	LL	Line deviates left	00:00:13	RWG3X_5cb0c9bf-0b0f48bd-9d	
		2,30	LL	Line deviates left	00:00:16		
		2,74	GYF	Finish node, gully, reference: RWG3	00:00:18	20221102-092841-sn-ap0002.jpg	

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 - 02/11/2022 - RWG3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	RWG3X	01	



20221102-092841-snap0000.jpg, 00:00:00, 0.00 m
 Start node, manhole, reference: MH3



20221102-092841-snap0001.jpg, 00:00:00, 0.00 m
 General photograph taken at this point



RWG3X_cf47935a-85fd-4da2-a48d-ed589d96b3f2_20221103_103426_234.jpg, 00:00:06, 0,27 m
 Junction at 12 o'clock, diameter: 110mm, Capped



RWG3X_5cb0c9bf-0b0f-48bd-9de4-727545d8e9e1_20221103_103442_854.jpg, 00:00:13, 2,13 m
 Line deviates left



20221102-092841-snap0002.jpg, 00:00:18, 2,74 m
 Finish node, gully, reference: RWG3

Section Inspection - 02/11/2022 - MH3X

Item No. 12	Insp. No. 12	Date 02/11/22	Time 9:34	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH3X
Operator LOUIS		Vehicle Van pack		Camera Push Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnet	Inspection Direction:	Downstream	Upstream Node:	MH3
Road:	67C Camlet Way	Inspected Length:	12.77 m	Upstream Pipe Depth:	0.870 m
Location:	Other (state in comments)	Total Length:	12.77 m	Downstream Node:	DOWNSTREAM
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.000 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		
Comments:	Survey abandoned due to deformed pitch fibre - MH4 is buried under the flower bed				
Recommendations:	Raise MH4, Picote clean line & attempt to complete CCTV survey				

Scale:	1:111	Position [m]	Code	Observation	MPEG	Photo	Grade
	0,00	MH		Start node, manhole, reference: MH3	00:00:00	20221102-093611-sn ap0000.jpg	
	0,00	WL		Water level, 0% of the vertical dimension	00:00:01		
	0,68	MCPF		Material changes to pitch fibre	00:00:07	MH3X_b4a7275b-1e4e-42d6-ad	
	0,68	S01	D	Deformed drain or sewer, 15%, start	00:00:12		
	1,75	S02	DEX	Settled deposits, other, 20% cross-sectional area loss, start	00:00:14	MH3X_eb4fd724-513f-48ce-a001	
	3,46	F02	DEX	Settled deposits, other, 20% cross-sectional area loss, finish	00:00:19	MH3X_ec6b3537-449c-418a-84	3
	4,50	F01	D	Deformed drain or sewer, 15%, finish	00:00:24		5
	4,52	REM		General remark: MH4 Buried under flower bed	00:00:22	20221102-093611-sn ap0001.jpg	
	5,32	S03	D	Deformed drain or sewer, 15%, start	00:00:28	MH3X_bbb910b0-a049-4d7a-94	
	6,68	F03	D	Deformed drain or sewer, 15%, finish	00:00:32		5
	6,69	S04	D	Deformed drain or sewer, 20%, start	00:00:32	MH3X_e584b10d-6e36-4463-a3	
	12,76	F04	D	Deformed drain or sewer, 20%, finish	00:01:01		5
	12,77	GP		General photograph taken at this point	00:00:55	MH3X_9a552ab5-2150-4206-85	
	12,77	SA		Survey abandoned: Defect pipe	00:01:01	20221102-093611-sn ap0002.jpg	

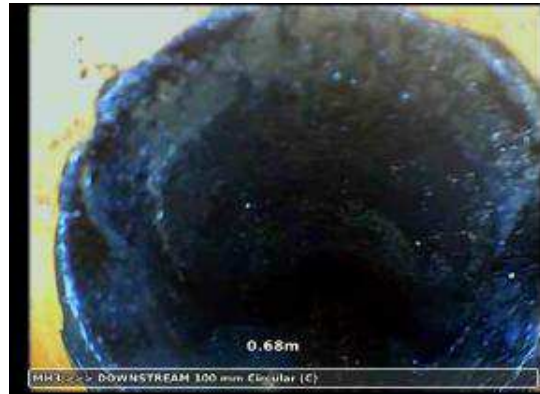
Construction Features					Miscellaneous Features						
Structural Defects					Service & Operational Observations						
STR No.	Def	STR Peak	STR Mean	STR Total	STR Grade	SER No.	Def	SER Peak	SER Mean	SER Total	SER Grade
3		330.0	169.0	2145.0	5.0	1		2.0	0.3	4.0	3.0

Section Pictures - 02/11/2022 - MH3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Downstream	MH3X	01	



20221102-093611-snap0000.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH3



MH3X_b4a7275b-1e4e-42d6-ad6c-20194cfb6663_20221103_103614_173.jpg, 00:00:07, 0.68 m
Material changes to pitch fibre



MH3X_eb4fd724-513f-48ce-a001-882928b98f4e_20221103_103640_938.jpg, 00:00:14, 1.75 m
Settled deposits, other, 20% cross-sectional area loss, start



MH3X_ec6b3537-449e-418a-849f-c58954c1dc25_20221103_103658_450.jpg, 00:00:19, 3.46 m
Settled deposits, other, 20% cross-sectional area loss, finish



20221102-093611-snap0001.jpg, 00:00:22, 4.52 m
General remark, MH4 Buried under flower bed



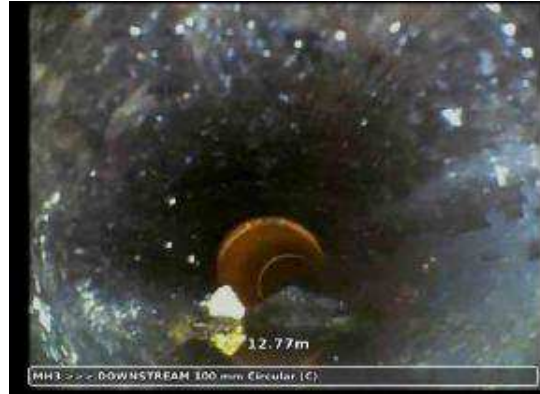
MH3X_bbb910b0-a049-4d7a-94b2-b81635bf3c1a_20221103_103755_390.jpg, 00:00:28, 5.32 m
Deformed drain or sewer, 15%, start

Section Pictures - 02/11/2022 - MH3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Downstream	MH3X	01	



MH3X_e584b10d-6e36-4463-a30e-b638d0b97122_20221103_103825_879.jpg, 00:00:32, 6.69 m
 Deformed drain or sewer, 20%, start



MH3X_9a552ab5-2150-4206-856b-e5d19a3ed4df_20221103_103841_736.jpg, 00:00:55, 12.77 m
 General photograph taken at this point



20221102-093611-snap0002.jpg, 00:01:01, 12.77 m
 Survey abandoned, Defect pipe