KD Drainage and Asbestos
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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
48	1	07/03/24	10:49	Not Specified	Not Specified	Not Specified	MH11X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

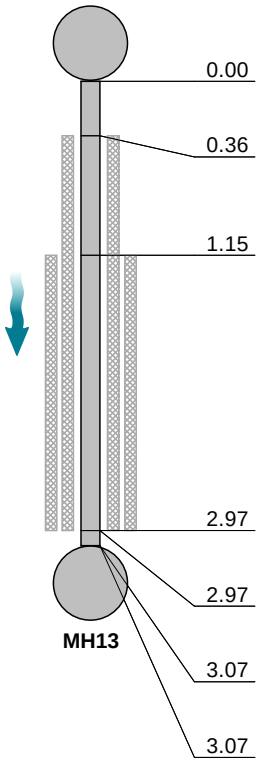
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH11
Road:	Swains Lane	**Inspected Length:**	3.07 m	**Upstream Pipe Depth:**	0.570 m
Location:		**Total Length:**	3.07 m	**Downstream Node:**	MH13
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 0.57 m
MH11



MH13

Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:01:00		
0.36	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:22		
1.15	S02	CUD	Loss of vision, silt, start	00:00:25		
2.97	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:01:02		4
2.97	F02	CUD	Loss of vision, silt, finish	00:01:02		
3.07		LD	Line deviates down	00:01:05		
3.07		MHF	Finish node, manhole, reference: MH13	00:01:11		

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	4.9	15.0	4.0

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Section Pictures - 07/03/2024 - MH11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
48	Downstream	MH11X		

3669f89d-96e6-42b7-ada0-360456e60483.jpg, 00:00:22, 0.36 m
Settled deposits, fine, 25% cross-sectional area loss, start

d247bfca-10a9-4418-8b7f-1d81cfe7a2d9.jpg, 00:00:25, 1.15 m
Loss of vision, silt, start

a47afae3-2461-41d6-b149-4bb0abc09f31.jpg, 00:01:11, 3.07 m
Finish node, manhole, reference: MH13

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
49	1	07/03/24	10:50	Not Specified	Not Specified	Not Specified	MH12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

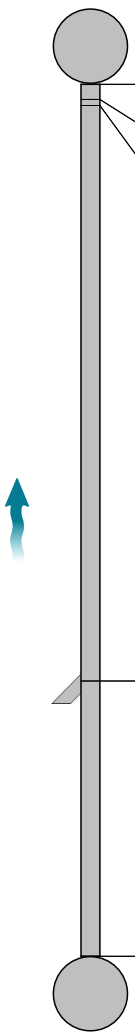
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	MH12
Road:	Swains Lane	**Inspected Length:**	26.75 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	26.75 m	**Downstream Node:**	MH11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.570 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend picote/LSR

Scale: 1:232

Depth: 0.57 m
MH11



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:14		
0.48	LR	Line deviates right	00:00:15		
0.65	SR	Sealing ring intruding, not hanging from 10 o'clock to 12 o'clock	00:00:15		1 / 2
18.32	JN	Junction at 3 o'clock, 100mm dia	00:02:11		
26.75	MHF	Finish node, manhole, reference: MH12	00:03:10		

MH12
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	5.0	0.2	5.0	1.0	1	1.0	0.0	1.0	2.0

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Section Pictures - 07/03/2024 - MH12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
49	Upstream	MH12X		

21236195-deea-4b79-833b-3a6f211d368c.jpg, 00:02:11, 18.32 m
Junction at 3 o'clock, 100mm dia

b86c887f-ebf5-4fad-ad50-3d2bd4e2aee4.jpg, 00:03:10, 26.75 m
Finish node, manhole, reference: MH12

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
50	1	07/03/24	10:51	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

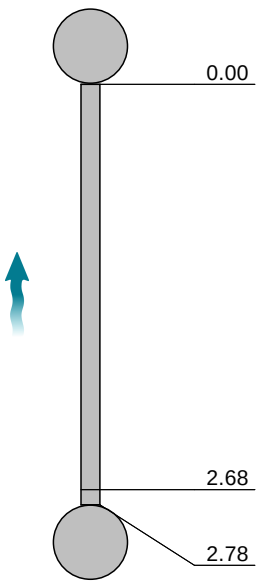
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	2.78 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.78 m	**Downstream Node:**	MH12
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.400 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.40 m
MH12



Upstream
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:22		
2.68	LU	Line deviates up	00:00:30		
2.78	MHF	Finish node, manhole, reference: Upstream: Stack	00:00:33		

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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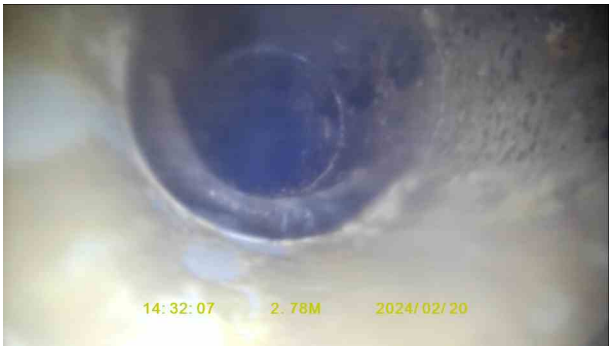
Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
50	Upstream	UPSTREAMX		



24ef1110-3e0d-4359-aecb-1b4bc66250cb.jpg, 00:00:33, 2.78 m
Finish node, manhole, reference: Upstream, Stack

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
51	1	07/03/24	10:52	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

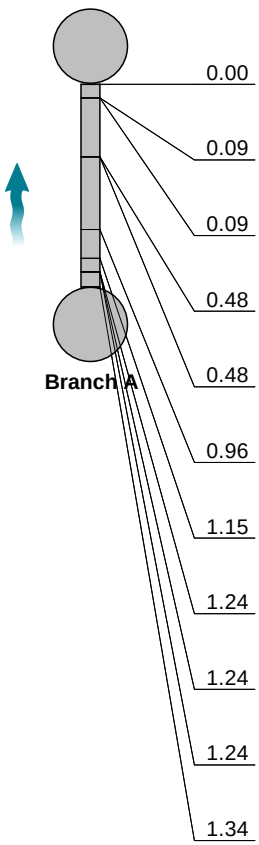
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.34 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.34 m	**Downstream Node:**	MH14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.680 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Picote/2XLSR's

Scale: 1:50

Depth: 0.68 m
MH14



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:21		
0.09	JDM	Joint displaced, medium	00:00:12		1 / 3
0.09	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 9 o'clock, 30% cross-sectional area loss	00:00:12		4
0.48	CC	Crack, circumferential from 8 o'clock to 3 o'clock	00:00:17		2 / 2
0.48	H	Hole in drain or sewer from 12 o'clock to 1 o'clock	00:00:17		4
0.96	FCJ	Fracture, circumferential at joint from 7 o'clock to 4 o'clock	00:00:30		3 / 2
1.15	BJ	Broken pipe at joint from 1 o'clock to 9 o'clock	00:00:44		4
1.24	OBI	Other obstacles, protruding through wall from 9 o'clock to 11 o'clock, 20% cross-sectional area loss	00:00:45		5
1.24	CC	Crack, circumferential from 12 o'clock to 3 o'clock	00:00:45		2 / 2
1.24	H	Hole in drain or sewer from 8 o'clock to 12 o'clock	00:00:45		5
1.34	MHF	Finish node, manhole, reference: Branch A: Redundant	00:00:51		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
7	255.0	288.1	386.0	5.0	6	11.0	14.9	20.0	5.0

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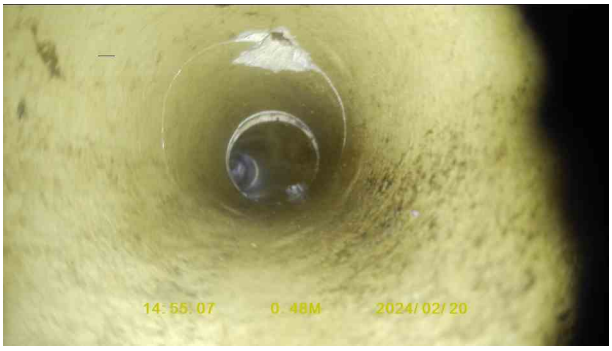
Section Pictures - 07/03/2024 - Branch AX

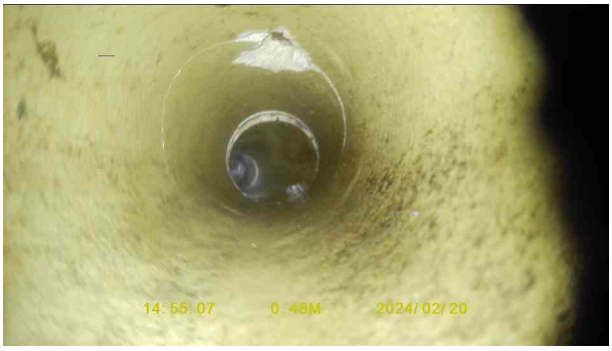
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
51	Upstream	BRANCH AX		

54fe3fcb-6687-4a68-904e-116084061c3e.jpg, 00:00:12, 0.09 m
Joint displaced, medium

86856354-1afa-42c1-84d1-0830337bb99e.jpg, 00:00:12, 0.09 m
Attached deposits, encrustation at joint from 4 o'clock to 9



56610fad-0b29-408b-b8e4-c71cc1973af7.jpg, 00:00:17, 0.48 m
Crack, circumferential from 8 o'clock to 3 o'clock



14c3398a-5bdd-49f0-861f-f12273c32275.jpg, 00:00:17, 0.48 m
Hole in drain or sewer from 12 o'clock to 1 o'clock

13642834-7cb8-4aee-88aa-db777bf3f6f5.jpg, 00:00:30, 0.96 m
Fracture, circumferential at joint from 7 o'clock to 4 o'clock

e56fef0e-9556-4087-b72a-802cf6ebdea5.jpg, 00:00:44, 1.15 m
Broken pipe at joint from 1 o'clock to 9 o'clock

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
51	Upstream	BRANCH AX		

e20c5a1b-250b-45b3-8d80-c9757825fedf.jpg, 00:00:45, 1.24 m
Other obstacles, protruding through wall from 9 o'clock to 11

b9f3094d-c5e4-45d2-978c-aa296296d0ac.jpg, 00:00:45, 1.24 m
Crack, circumferential from 12 o'clock to 3 o'clock

f605058b-0125-4a6f-a3c6-09ad687fb065.jpg, 00:00:45, 1.24 m
Hole in drain or sewer from 8 o'clock to 12 o'clock

f70f8fbc-bf0e-473b-bf21-ad36d419e260.jpg, 00:00:51, 1.34 m
Finish node, manhole, reference: Branch A, Redundant

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	1	07/03/24	10:53	Not Specified	Not Specified	Not Specified	BRANCH BX

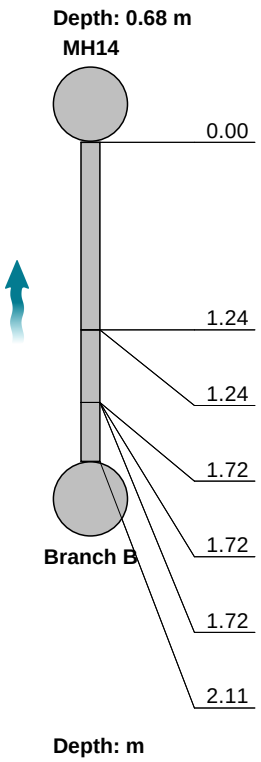
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	2.11 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.11 m	**Downstream Node:**	MH14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.680 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:16		
1.24	BJ	Broken pipe at joint from 10 o'clock to 2 o'clock	00:00:21		4
1.24	FCJ	Fracture, circumferential at joint from 12 o'clock to 6 o'clock	00:00:21		3 / 2
1.72	FC	Fracture, circumferential from 2 o'clock to 6 o'clock: In Rest bend	00:00:24		3 / 2
1.72	JDM	Joint displaced, medium: At Rest bend	00:00:24		1 / 3
1.72	LU	Line deviates up	00:00:26		
2.11	MHF	Finish node, manhole, reference: Branch B: Redundant	00:00:36		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	120.0	76.3	161.0	4.0	3	3.0	1.9	4.0	3.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
52	Upstream	BRANCH BX		

3228861e-72b9-4d30-991e-1a130143f395.jpg, 00:00:21, 1.24 m
Broken pipe at joint from 10 o'clock to 2 o'clock

68a53500-c64f-4f04-ad8f-55b714a53d05.jpg, 00:00:21, 1.24 m
Fracture, circumferential at joint from 12 o'clock to 6 o'clock

8c6600a3-79e4-415c-8466-92a3d7a63583.jpg, 00:00:24, 1.72 m
Fracture, circumferential from 2 o'clock to 6 o'clock, In Rest

bf2f9e8d-0c9c-493f-a354-865791b645ab.jpg, 00:00:24, 1.72 m
Joint displaced, medium, At Rest bend

b2116273-e14f-4866-a6e6-3bde553334b1.jpg, 00:00:36, 2.11 m
Finish node, manhole, reference: Branch B, Redundant

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
53	1	07/03/24	10:53	Not Specified	Not Specified	Not Specified	MH14X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

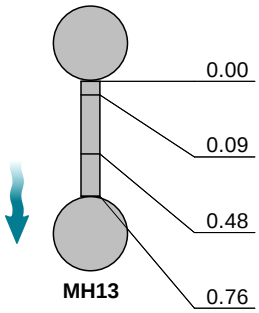
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH14
Road:	Swains Lane	**Inspected Length:**	0.76 m	**Upstream Pipe Depth:**	0.680 m
Location:		**Total Length:**	0.76 m	**Downstream Node:**	MH13
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR

Scale: 1:50

Depth: 0.68 m
MH14



MH13
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:24		
0.09	JDL	Joint displaced, large	00:00:12		1 / 4
0.48	JDL	Joint displaced, large	00:00:20		1 / 4
0.76	MHF	Finish node, manhole, reference: MH13	00:00:39		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	2.0	5.3	4.0	1.0	2	5.0	13.2	10.0	5.0

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Section Pictures - 07/03/2024 - MH14X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
53	Downstream	MH14X		

a1961974-abd4-454e-83a3-83ffb079b3ef.jpg, 00:00:12, 0.09 m
Joint displaced, large

e629018d-3448-4f52-b7a0-6eb6e9a4e77e.jpg, 00:00:20, 0.48 m
Joint displaced, large

1c0fc7a8-1396-4d97-bfeb-9d8495b4cf63.jpg, 00:00:39, 0.76 m
Finish node, manhole, reference: MH13

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
54	1	07/03/24	10:54	Not Specified	Not Specified	Not Specified	RWG31X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

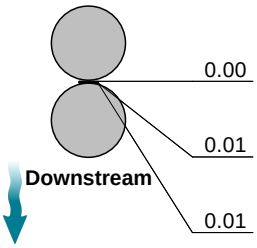
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG31
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: m
RWG31



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:17		
0.01	LD	Line deviates down	00:00:15		
0.01	MHF	Finish node, manhole, reference: Downstream: Trap	00:00:16		

Depth: m

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 - 07/03/2024 - RWG31X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
54	Downstream	RWG31X		

8d65c78f-da3f-44dd-9750-80993ab68136.jpg, 00:00:16, 0.01 m
Finish node, manhole, reference: Downstream, Trap

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	1	07/03/24	10:55	Not Specified	Not Specified	Not Specified	RWG32X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

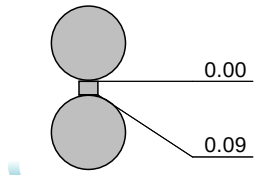
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG32
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: m
RWG32



Downstream
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:20		
0.09	MHF	Finish node, manhole, reference: Downstream: Trap	00:00:27		

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 - 07/03/2024 - RWG32X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
55	Downstream	RWG32X		

68cd2e36-4d97-4d34-b44b-0a9ef0cebbef.jpg, 00:00:27, 0.09 m
Finish node, manhole, reference: Downstream, Trap

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
56	1	07/03/24	10:56	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

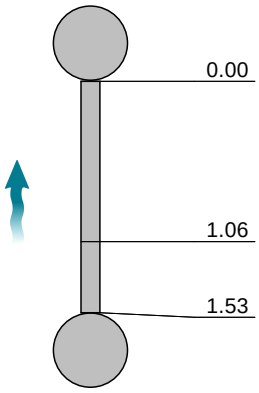
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	1.53 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.53 m	**Downstream Node:**	RWG31
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: m
RWG31



Upstream
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:31		
1.06	LU	Line deviates up	00:00:27		
1.53	MHF	Finish node, manhole, reference: Upstream: Aco	00:00:33		

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 - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
56	Upstream	UPSTREAMX		

b583f0a0-4c94-4829-88d8-eeaf530362a9.jpg, 00:00:33, 1.53 m
Finish node, manhole, reference: Upstream, Aco

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
57	1	07/03/24	10:57	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

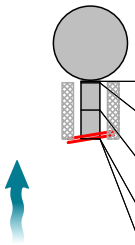
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	0.38 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.38 m	**Downstream Node:**	RWG32
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Resurvey

Scale: 1:50

Depth: m
RWG32



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:27		
0.01	S01	DES	Settled deposits, fine, 35% cross-sectional area loss, start	00:00:15		
0.19		CCJ	Crack, circumferential at joint from 12 o'clock to 3 o'clock	00:00:25		2 / 2
0.38	F01	DES	Settled deposits, fine, 35% cross-sectional area loss, finish	00:00:36		4
0.38		SA	Survey abandoned: Camera unable to pass debris	00:00:34		

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	26.3	10.0	2.0	2	6.0	15.8	6.0	5.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
57	Upstream	UPSTREAMX		

4f9a321b-b725-45de-bcf6-a47bc798ea71.jpg, 00:00:15, 0.01 m
Settled deposits, fine, 35% cross-sectional area loss, start

b482562e-aadc-44c9-9627-b559e6baef05.jpg, 00:00:25, 0.19 m
Crack, circumferential at joint from 12 o'clock to 3 o'clock

f2052f12-e29b-4378-a27e-92c1b386cc95.jpg, 00:00:34, 0.38 m
Survey abandoned, Camera unable to pass debris

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
58	1	07/03/24	10:58	Not Specified	Not Specified	Not Specified	RWG35X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

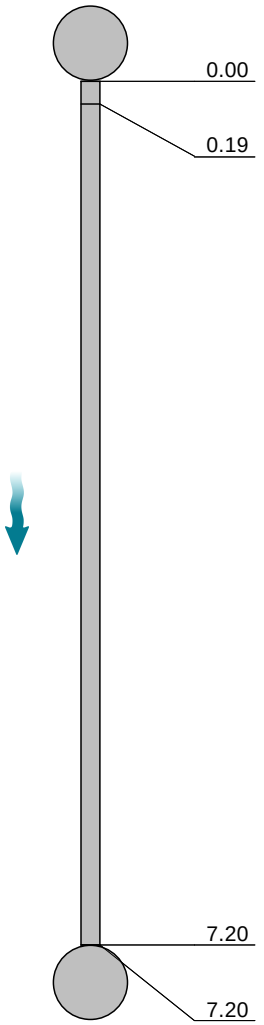
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG35
Road:	Swains Lane	**Inspected Length:**	7.20 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	7.20 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:63

Depth: m
RWG35



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:22		
0.19	LL	Line deviates left	00:00:16		
7.20	DES	Settled deposits, fine, 20% cross-sectional area loss	00:01:22		4
7.20	MHF	Finish node, manhole, reference: Downstream: Aco	00:01:53		

Downstream
Depth: m

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	0.7	5.0	4.0

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Section Pictures - 07/03/2024 - RWG35X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
58	Downstream	RWG35X		

bc17b186-e1f3-43d7-ba4f-f5fee1ec2c81.jpg, 00:01:22, 7.20 m
Settled deposits, fine, 20% cross-sectional area loss

48992f09-2308-4b9f-a596-d5a030e13d0b.jpg, 00:01:53, 7.20 m
Finish node, manhole, reference: Downstream, Aco

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
59	1	07/03/24	10:58	Not Specified	Not Specified	Not Specified	RWG34X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

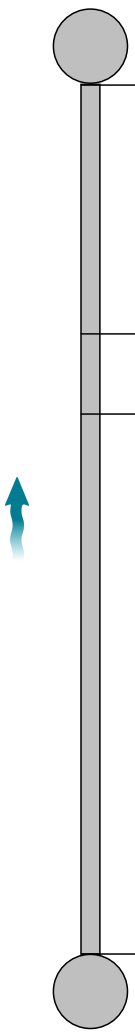
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	RWG34
Road:	Swains Lane	**Inspected Length:**	6.33 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	6.33 m	**Downstream Node:**	RWG35
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Investigate possible bellies

Scale: 1:55

Depth: m
RWG35



Position [m]	Code	Observation	MPEG	Photo	Grade
0.01	WL	Water level, 20% of the vertical dimension	00:00:10		
1.82	LR	Line deviates right	00:00:32		
2.40	LR	Line deviates right	00:00:37		
6.33	GYF	Finish node, gully, reference: RWG34	00:01:12		

RWG34
Depth: m

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 - 07/03/2024 - RWG34X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
59	Upstream	RWG34X		

63c4e789-6a1c-4155-aa9d-b365001b3cfc.jpg, 00:00:10, 0.01 m
Water level, 20% of the vertical dimension

df88a02f-89e8-4eee-9375-3171b9f85d05.jpg, 00:01:12, 6.33 m
Finish node, gully, reference: RWG34

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
60	1	07/03/24	10:59	Not Specified	Not Specified	Not Specified	RWG36X

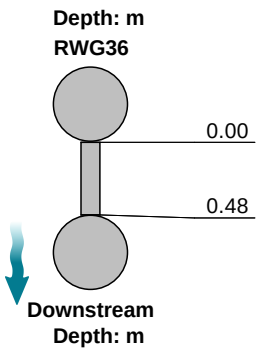
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG36
Road:	Swains Lane	**Inspected Length:**	0.48 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.48 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.48	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:19		

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 - 07/03/2024 - RWG36X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
60	Downstream	RWG36X		

90d8a8a0-221d-4b0d-ae6f-2c94a756296c.jpg, 00:00:19, 0.48 m
Finish node, manhole, reference: Downstream, Blind junction

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
61	1	07/03/24	11:00	Not Specified	Not Specified	Not Specified	RWG37X

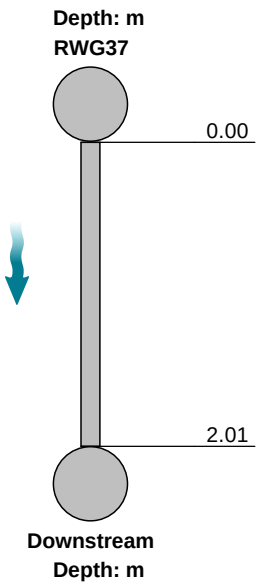
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG37
Road:	Swains Lane	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.01 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
2.01	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:34		

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 - 07/03/2024 - RWG37X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
61	Downstream	RWG37X		

6a234aa9-0542-49d2-8c19-249cdff2623d.jpg, 00:00:34, 2.01 m
Finish node, manhole, reference: Downstream, Blind junction

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Section Inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
62	1	07/03/24	11:28	Not Specified	Not Specified	Not Specified	MH17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

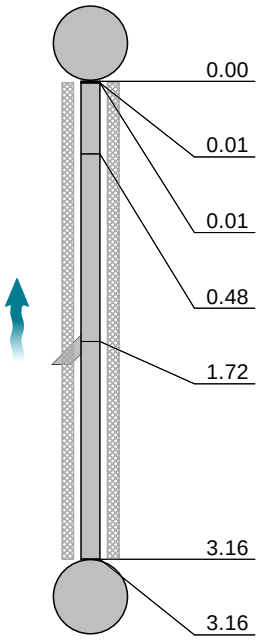
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	MH17
Road:	Swains Lane	**Inspected Length:**		**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.16 m	**Downstream Node:**	MH16
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.060 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: 1.06 m
MH16



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01		REM	General remark: Hose in pipe	00:00:15		
0.01	S01	OBZ	Other obstacles from 1 o'clock to 3 o'clock, 25% cross-sectional area loss, start: Hose in pipe	00:00:15		
0.48	C01	OBZ	Other obstacles from 4 o'clock to 6 o'clock, 25% cross-sectional area loss, change: Hose in pipe	00:00:19		
1.72		JN	Junction at 3 o'clock, 100mm dia	00:00:32		
3.16		DES	Settled deposits, fine, 30% cross-sectional area loss: In Manhole	00:01:09		4
3.16	F01	OBZ	Other obstacles from 4 o'clock to 6 o'clock, 25% cross-sectional area loss, finish: Hose in pipe	00:01:09		5

MH17
Depth: m

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	14.2	45.0	5.0

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Section Pictures - 07/03/2024 - MH17X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
62	Upstream	MH17X		

d1176d88-3e27-44d5-8a73-edf3eb462b9c.jpg, 00:00:15, 0.01 m
General remark, Hose in pipe

61b9777f-1c7e-484a-86c6-67b1151ca9d6.jpg, 00:00:15, 0.01 m
Other obstacles from 1 o'clock to 3 o'clock, 25%

2b74d412-e0a8-464c-9e31-c12150a91c4c.jpg, 00:00:19, 0.48 m
Other obstacles from 4 o'clock to 6 o'clock, 25%

0192e6c5-b6d1-4465-baa0-62ceb47c332e.jpg, 00:00:32, 1.72 m
Junction at 3 o'clock, 100mm dia

4e2be326-f855-49ca-b772-5fb7d57c2b38.jpg, 00:01:09, 3.16 m
Settled deposits, fine, 30% cross-sectional area loss, In

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
63	1	07/03/24	11:35	Not Specified	Not Specified	Not Specified	BRANCH BX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

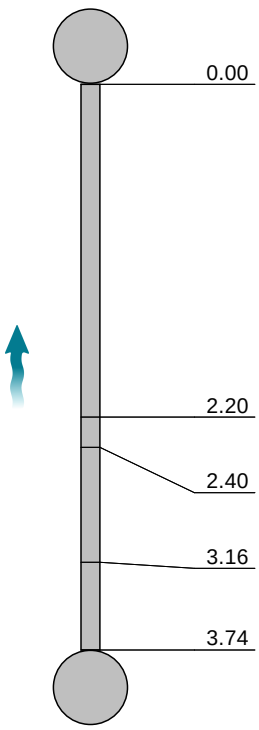
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	3.74 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.74 m	**Downstream Node:**	MH16
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.060 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 1.06 m
MH16



Branch B
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
2.20	DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:34		4
2.40	LL	Line deviates left	00:00:37		
3.16	LR	Line deviates right	00:00:43		
3.74	GYF	Finish node, gully, reference: Branch B	00:00:54		

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	1.3	5.0	4.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
63	Upstream	BRANCH BX		

427972de-5d68-4789-ad3f-4aa0ecc2116b.jpg, 00:00:34, 2.20 m
Settled deposits, fine, 20% cross-sectional area loss

22e8f983-d5c1-46a1-a097-1236ed5d6673.jpg, 00:00:54, 3.74 m
Finish node, gully, reference: Branch B

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
64	1	07/03/24	11:38	Not Specified	Not Specified	Not Specified	MH16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

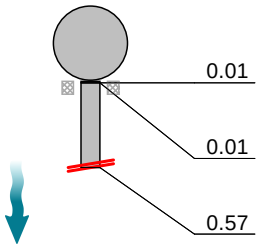
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH16
Road:	Swains Lane	**Inspected Length:**	0.57 m	**Upstream Pipe Depth:**	1.060 m
Location:		**Total Length:**	0.57 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Investigate possible bellies/Resurvey

Scale: 1:50

Depth: 1.06 m
MH16



Position [m]		Code	Observation	MPEG	Photo	Grade
0.01		WL	Water level, 30% of the vertical dimension	00:00:15		
0.01	S01	CUW	Loss of vision, camera under water, start	00:00:20		
0.57		SA	Survey abandoned: Loss of vision	00:00:59		

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 - 07/03/2024 - MH16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
64	Downstream	MH16X		

db8eaacb-a34d-44b3-bd69-e70b06351f02.jpg, 00:00:15, 0.01 m
Water level, 30% of the vertical dimension

cdbbc4b2-b0d6-4a11-83ea-ba217e8a800a.jpg, 00:00:20, 0.01 m
Loss of vision, camera under water, start

154a2650-0f07-4ee6-9a45-490c2b068f3c.jpg, 00:00:59, 0.57 m
Survey abandoned, Loss of vision

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
65	1	07/03/24	11:40	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

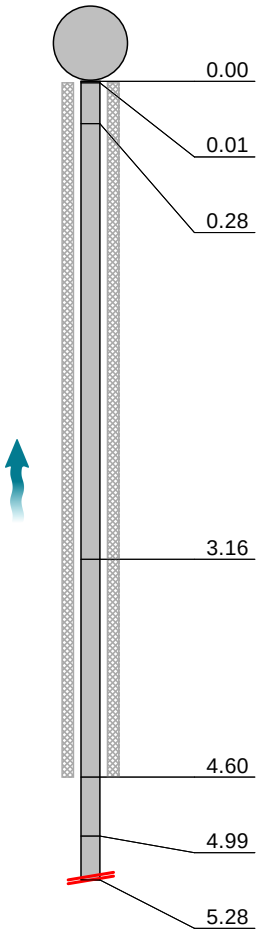
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	5.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	5.28 m	**Downstream Node:**	MH17
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.400 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 0.40 m
MH17



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:33		
0.01	S01	OBZ	Other obstacles from 3 o'clock to 5 o'clock, 25% cross-sectional area loss, start: Hose in pipe	00:00:09		5
0.28	C01	OBZ	Other obstacles from 5 o'clock to 7 o'clock, 25% cross-sectional area loss, change: Hose in pipe	00:00:15		
3.16	C01	OBZ	Other obstacles from 6 o'clock to 8 o'clock, 25% cross-sectional area loss, change: Hose in pipe	00:00:44		
4.60	C01	OBZ	Other obstacles from 6 o'clock to 8 o'clock, 25% cross-sectional area loss, change: Hose in pipe	00:00:58		
4.99		LL	Line deviates left	00:01:02		
5.28		SA	Survey abandoned: Camera unable to pass obstruction/Hose in pipe	00:01:14		

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	0.0	1.9	10.0	3.0

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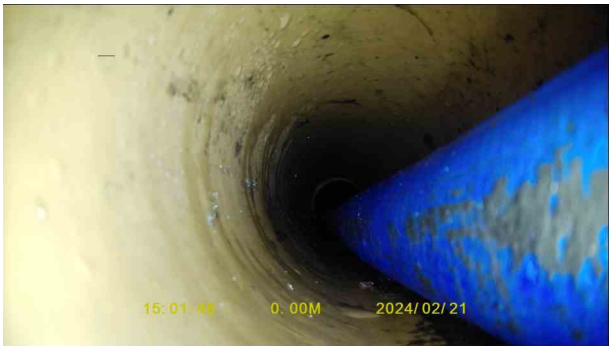
Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
65	Upstream	BRANCH AX		



6eec8299-352a-41db-8875-d1e1097aca18.jpg, 00:00:09, 0.01 m
Other obstacles from 3 o'clock to 5 o'clock, 25%

cf5a5643-07b3-4b04-872f-a1eb41d5d638.jpg, 00:00:15, 0.28 m
Other obstacles from 5 o'clock to 7 o'clock, 25%

652aefee-05cd-425f-ba92-9fda5dc48866.jpg, 00:00:44, 3.16 m
Other obstacles from 6 o'clock to 8 o'clock, 25%

5cd0ca3e-c510-414e-ae2b-2ca209c616e0.jpg, 00:00:58, 4.60 m
Other obstacles from 6 o'clock to 8 o'clock, 25%

13e196f7-a1fd-4559-91dd-398bd99d5d88.jpg, 00:01:14, 5.28 m
Survey abandoned, Camera unable to pass obstruction/Hose

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
66	1	07/03/24	11:41	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

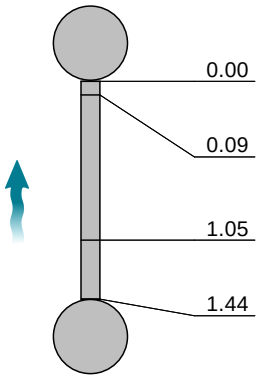
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.44 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.44 m	**Downstream Node:**	MH18
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.430 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: 0.43 m
MH18



Branch A
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.09	REM	General remark: Deviation in line	00:00:12		
1.05	LU	Line deviates up	00:00:24		
1.44	MHF	Finish node, manhole, reference: Branch A: W C	00:00:34		

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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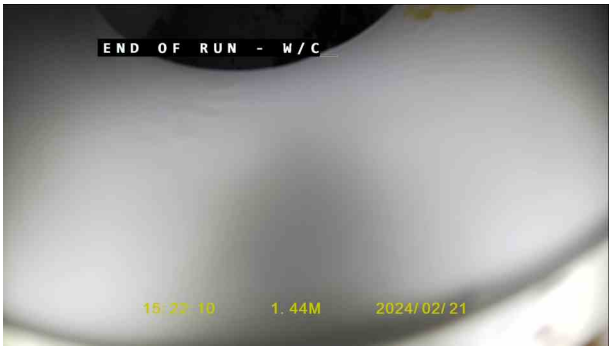
Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
66	Upstream	BRANCH AX		



3017c510-bafb-469b-b3e8-386f6d6f6f3a.jpg, 00:00:34, 1.44 m
Finish node, manhole, reference: Branch A, W C

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
67	1	07/03/24	11:43	Not Specified	Not Specified	Not Specified	BRANCH BX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

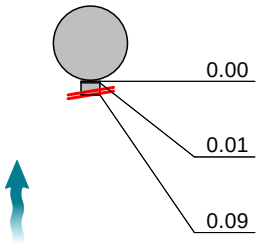
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	MH18
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.430 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 0.43 m
MH18



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	OBZJ	Other obstacles at joint from 8 o'clock to 11 o'clock, 20% cross-sectional area loss: Hose in pipe	00:00:07		5
0.09	SA	Survey abandoned: Camera unable to pass obstruction	00:00:19		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	111.1	10.0	5.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
67	Upstream	BRANCH BX		

e627b005-8a7f-405c-83c2-5149833629f4.jpg, 00:00:07, 0.01 m
Other obstacles at joint from 8 o'clock to 11 o'clock, 20%

ddf39acd-cb91-4bac-8121-3f3a5a6882cd.jpg, 00:00:19, 0.09 m
Survey abandoned, Camera unable to pass obstruction

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
68	1	07/03/24	11:44	Not Specified	Not Specified	Not Specified	MH18X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

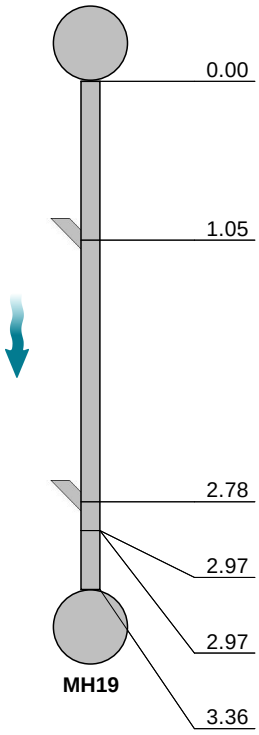
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH18
Road:	Swains Lane	**Inspected Length:**	3.36 m	**Upstream Pipe Depth:**	0.430 m
Location:		**Total Length:**	3.36 m	**Downstream Node:**	MH19
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: 0.43 m
MH18



MH19

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
1.05	JN	Junction at 3 o'clock, 100mm dia	00:00:17		
2.78	JN	Junction at 2 o'clock, 100mm dia	00:00:36		
2.97	LL	Line deviates left	00:00:38		
2.97	MCVC	Pipe material changes to vitrified clay at this point	00:00:39		
3.36	MHF	Finish node, manhole, reference: MH19	00:00:48		

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 - 07/03/2024 - MH18X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
68	Downstream	MH18X		

494195b3-7c1c-425d-8b00-7dca94b7ae42.jpg, 00:00:17, 1.05 m
Junction at 3 o'clock, 100mm dia

397b4b88-0e46-464b-87ce-6343e884bee4.jpg, 00:00:36, 2.78 m
Junction at 2 o'clock, 100mm dia

bdf67ceb-0663-4d7c-8579-da598eef9f77.jpg, 00:00:48, 3.36 m
Finish node, manhole, reference: MH19

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
69	1	07/03/24	11:46	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

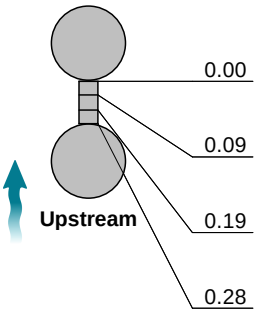
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.28 m	**Downstream Node:**	MH18
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.430 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: 0.43 m
MH18



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.09	LL	Line deviates left	00:00:09		
0.19	LU	Line deviates up	00:00:22		
0.28	REF	Finish node, rodding eye, reference: Upstream	00:00:33		

Depth: m

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 - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
69	Upstream	UPSTREAMX		

861705ac-a875-4896-a420-75ab0f88c1df.jpg, 00:00:33, 0.28 m
Finish node, rodding eye, reference: Upstream

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
70	1	07/03/24	11:48	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

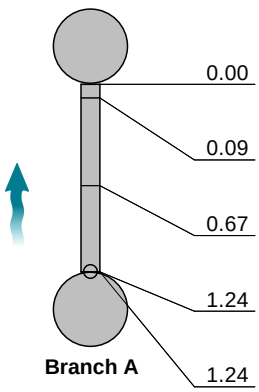
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.24 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.24 m	**Downstream Node:**	MH19
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.800 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: 0.80 m
MH19



Branch A

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.09	REM	General remark: Deviation in line	00:00:10		
0.67	REM	General remark: Deviation in line	00:00:18		
1.24	JN	Junction at 12 o'clock, 100mm dia	00:00:25		
1.24	MHF	Finish node, manhole, reference: Branch A: Reducer	00:00:46		

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 - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
70	Upstream	BRANCH AX		

0e13f185-a7d5-4615-9ed7-2c318bcf77ef.jpg, 00:00:25, 1.24 m
Junction at 12 o'clock, 100mm dia

fbffcb35-9d3b-415c-9a69-5db2a0a8d1cc.jpg, 00:00:46, 1.24 m
Finish node, manhole, reference: Branch A, Reducer

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
71	1	07/03/24	11:50	Not Specified	Not Specified	Not Specified	MH19X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

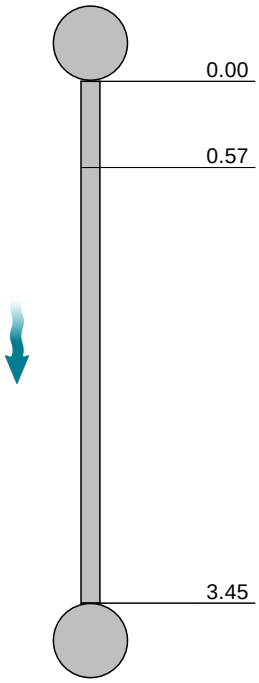
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH19
Road:	Swains Lane	**Inspected Length:**	3.45 m	**Upstream Pipe Depth:**	0.800 m
Location:		**Total Length:**	3.45 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR

Scale: 1:50

Depth: 0.80 m
MH19



Downstream
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.57	JDM	Joint displaced, medium	00:00:21		1 / 3
3.45	MHF	Finish node, manhole, reference: Downstream: MH in Road	00:00:49		

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	0.3	1.0	1.0	1	2.0	0.6	2.0	3.0

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Section Pictures - 07/03/2024 - MH19X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
71	Downstream	MH19X		

4e79300f-1ec5-462c-bc77-3e3706d264e5.jpg, 00:00:21, 0.57 m
Joint displaced, medium

e68f91cc-be46-4bf1-911f-6976ab1269a7.jpg, 00:00:49, 3.45 m
Finish node, manhole, reference: Downstream, MH in Road

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
72	1	07/03/24	11:55	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

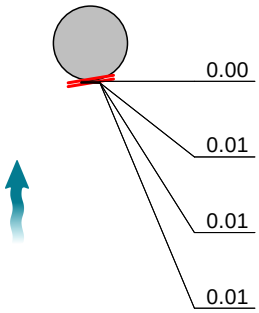
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	RWG53
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Root cut/LSR/Further investigation

Scale: 1:50

Depth: m
RWG53



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	JDL	Joint displaced, large	00:00:15		1 / 4
0.01	RM	Roots, mass, 55% cross-sectional area loss	00:00:15		5
0.01	SA	Survey abandoned: Camera unable to pass mass roots/Possibly redundant	00:00:20		

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	200.0	2.0	1.0	2	20.0	2000.0	20.0	5.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
72	Upstream	BRANCH AX		

eea82ff6-2144-4d2e-9e73-eba508647f3c.jpg, 00:00:15, 0.01 m
Joint displaced, large

ef91b1b6-ac73-4e48-985f-3cedd3c1e5b7.jpg, 00:00:15, 0.01 m
Roots, mass, 55% cross-sectional area loss

71eb3025-57c9-4381-b2e4-7fcefa2da41a.jpg, 00:00:20, 0.01 m
Survey abandoned, Camera unable to pass mass

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
73	1	07/03/24	11:57	Not Specified	Not Specified	Not Specified	RWG53X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

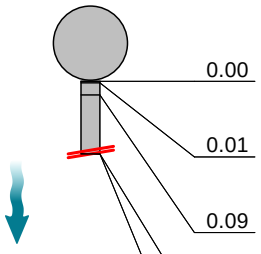
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG53
Road:	Swains Lane	**Inspected Length:**	0.48 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.48 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Tanker/Resurvey

Scale: 1:50

Depth: m
RWG53



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	LD	Line deviates down	00:00:20		
0.09	WL	Water level, 50% of the vertical dimension: Surcharged	00:00:21		
0.48	CUW	Loss of vision, camera under water: Surcharged	00:00:35		
0.48	SA	Survey abandoned: Camera under water/Surcharged	00:00:35		

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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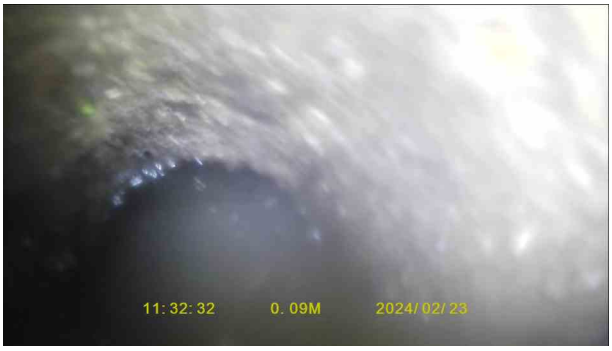
Section Pictures - 07/03/2024 - RWG53X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
73	Downstream	RWG53X		



36049563-9153-42db-b9dc-cd42f706fc7d.jpg, 00:00:21, 0.09 m
Water level, 50% of the vertical dimension, Surcharged

e577aacc-f18d-4cd1-96d2-ae522c3cda50.jpg, 00:00:35, 0.48 m
Loss of vision, camera under water, Surcharged

8c15329a-bf75-49df-9788-4935d0689295.jpg, 00:00:35, 0.48 m
Survey abandoned, Camera under water/Surcharged

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
74	1	07/03/24	11:59	Not Specified	Not Specified	Not Specified	RWG54X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

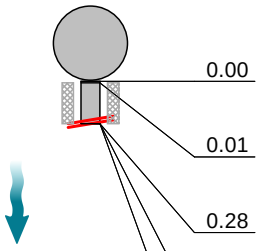
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG54
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.28 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Root cut/Resurvey

Scale: 1:50

Depth: m
RWG54



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	S01	RM	Roots, mass, 40% cross-sectional area loss, start	00:00:08		
0.28	C01	RM	Roots, mass, 80% cross-sectional area loss, change	00:00:19		
0.28	F01	RM	Roots, mass, 80% cross-sectional area loss, finish	00:00:31		5
0.28		SA	Survey abandoned: Camera unable to pass mass roots	00:00:31		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	35.7	10.0	5.0

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Section Pictures - 07/03/2024 - RWG54X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
74	Downstream	RWG54X		

c31913d6-3e81-4ddb-a528-c2514a0cdac8.jpg, 00:00:08, 0.01 m
Roots, mass, 40% cross-sectional area loss, start

38ea1992-ce32-43af-82a8-5bfceb4d8b7c.jpg, 00:00:19, 0.28 m
Roots, mass, 80% cross-sectional area loss, change

109917c3-37bb-4af2-9d07-aedc3303c8ab.jpg, 00:00:31, 0.28 m
Survey abandoned, Camera unable to pass mass roots

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
75	1	07/03/24	12:40	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

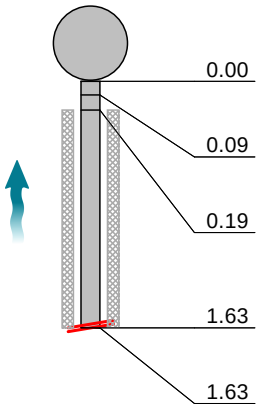
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	1.63 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.63 m	**Downstream Node:**	RWG54
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Investigate possible bellies/Resurvey

Scale: 1:50

Depth: m
RWG54



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 50% of the vertical dimension	00:00:11		
0.09		JDL	Joint displaced, large	00:00:13		1 / 4
0.19	S01	CUW	Loss of vision, camera under water, start	00:00:16		
1.63	F01	CUW	Loss of vision, camera under water, finish	00:00:53		
1.63		SA	Survey abandoned: Camera under water	00:00:53		

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	1.2	2.0	1.0	1	5.0	3.1	5.0	4.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
75	Upstream	UPSTREAMX		

5a7b3d60-6fba-4a38-9700-a8aafe6fb1e0.jpg, 00:00:11, 0.00 m
Water level, 50% of the vertical dimension

6ee41bfa-2c6b-4ab7-b077-affa711075f3.jpg, 00:00:13, 0.09 m
Joint displaced, large

e5b845df-97ef-4c54-b330-e01474361468.jpg, 00:00:16, 0.19 m
Loss of vision, camera under water, start

20f136d3-ccc4-48f3-baae-06fa43346324.jpg, 00:00:53, 1.63 m
Survey abandoned, Camera under water

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
76	1	07/03/24	12:42	Not Specified	Not Specified	Not Specified	RWG41X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

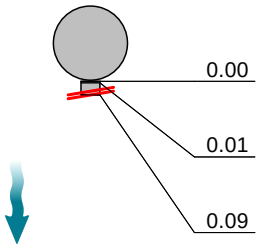
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG41
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Picote/Resurvey

Scale: 1:50

Depth: m
RWG41



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:20		
0.01	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 10 o'clock, 40% cross-sectional area loss	00:00:25		4
0.09	SA	Survey abandoned: Camera unable to pass encrustation	00:00:53		

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	55.6	5.0	5.0

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Section Pictures - 07/03/2024 - RWG41X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
76	Downstream	RWG41X		

8cc83c31-1c82-4274-93d9-677c2066804e.jpg, 00:00:25, 0.01 m
Attached deposits, encrustation at joint from 3 o'clock to 10

55ab58fb-eb2d-490c-8f4d-aad98e1ce0e4.jpg, 00:00:53, 0.09 m
Survey abandoned, Camera unable to pass encrustation

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
77	1	07/03/24	12:44	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

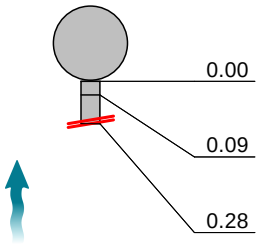
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.28 m	**Downstream Node:**	RWG41
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG41



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:46		
0.09	DES	Settled deposits, fine, 70% cross-sectional area loss	00:00:33		4
0.28	SA	Survey abandoned: Camera unable to pass debris	00:00:50		

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	8.0	28.6	8.0	5.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
77	Upstream	UPSTREAMX		

a1b0107d-d7ec-4e34-8021-ecfc20320749.jpg, 00:00:33, 0.09 m
Settled deposits, fine, 70% cross-sectional area loss

de872583-4a3d-46e0-893b-da2d77759cbe.jpg, 00:00:50, 0.28 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
78	1	07/03/24	12:46	Not Specified	Not Specified	Not Specified	RWG40X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

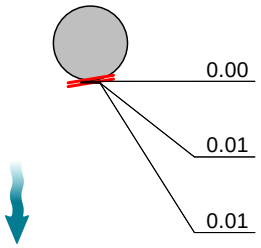
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG40
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG40



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	DES	Settled deposits, fine, 85% cross-sectional area loss	00:00:33		5
0.01	SA	Survey abandoned: Camera unable to pass debris/Possibly redundant	00:00:32		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	1000.0	10.0	5.0

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Section Pictures - 07/03/2024 - RWG40X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
78	Downstream	RWG40X		

5e992185-dbe2-45d4-85b1-5bdc2159cca4.jpg, 00:00:33, 0.01 m
Settled deposits, fine, 85% cross-sectional area loss

4e1a3962-058e-4481-b28a-02a7cbf8a1ee.jpg, 00:00:32, 0.01 m
Survey abandoned, Camera unable to pass debris/Possibly

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
79	1	07/03/24	12:48	Not Specified	Not Specified	Not Specified	RWG42X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

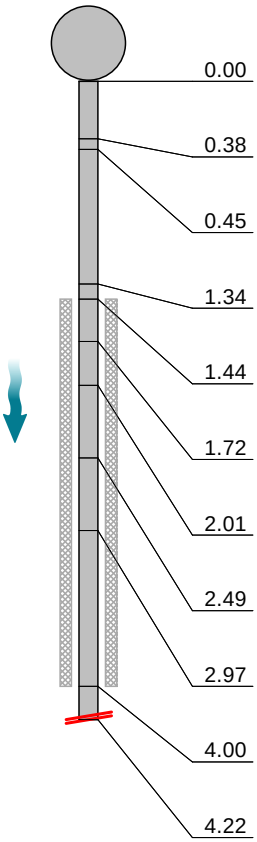
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG42
Road:	Swains Lane	**Inspected Length:**	4.22 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	4.22 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/2XLSR's/Resurvey

Scale: 1:50

Depth: m
RWG42



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:01:16		
0.38		DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:23		3
0.45		JDM	Joint displaced, medium	00:00:24		1 / 3
1.34		JDM	Joint displaced, medium	00:00:35		1 / 3
1.44	S01	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 20% cross-sectional area loss, start	00:00:38		3
1.72		WL	Water level, 30% of the vertical dimension	00:00:40		
2.01	C01	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 35% cross-sectional area loss, change	00:00:44		
2.49	C01	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 45% cross-sectional area loss, change	00:00:52		
2.97		JDL	Joint displaced, large	00:00:58		1 / 4
4.00	C01	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 75% cross-sectional area loss, change	00:01:16		
4.22		SA	Survey abandoned: Camera unable to pass debris	00:01:16		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	2.0	0.9	4.0	1.0	5	5.0	3.1	13.0	4.0

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Section Pictures - 07/03/2024 - RWG42X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
79	Downstream	RWG42X		

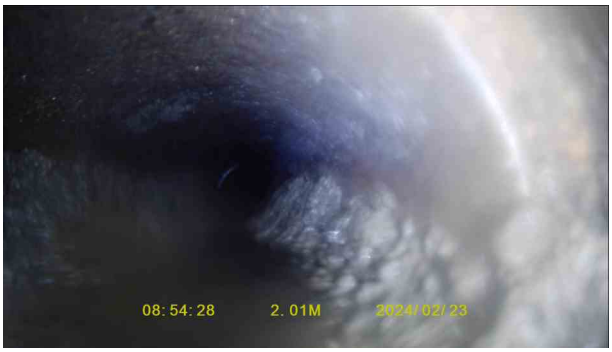
0fcb1316-8cc2-4809-8ee1-7c4c127165c4.jpg, 00:00:23, 0.38 m
Settled deposits, fine, 15% cross-sectional area loss

ebf9fdc8-6f5a-468e-87d7-fbdf5e8868cd.jpg, 00:00:24, 0.45 m
Joint displaced, medium

030d482c-0287-4418-866d-885ec74c349b.jpg, 00:00:35, 1.34 m
Joint displaced, medium

546aff71-f911-49c7-a11a-262728b180b8.jpg, 00:00:38, 1.44 m
Attached deposits, encrustation from 2 o'clock to 10 o'clock,

0d4ebd95-336b-45f2-a5d9-61bf48dd46ee.jpg, 00:00:40, 1.72 m
Water level, 30% of the vertical dimension



bc94ba6c-7dc1-47db-8010-2a48c268674e.jpg, 00:00:44, 2.01 m
Attached deposits, encrustation from 2 o'clock to 10 o'clock,

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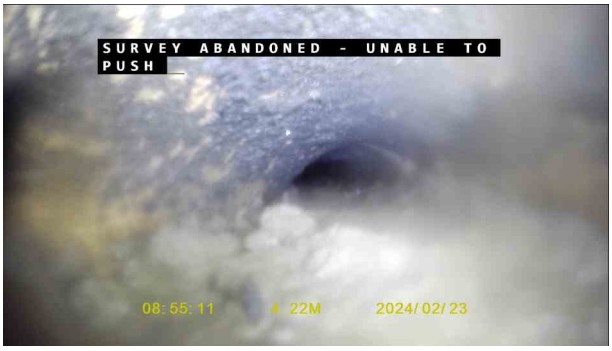
Section Pictures - 07/03/2024 - RWG42X

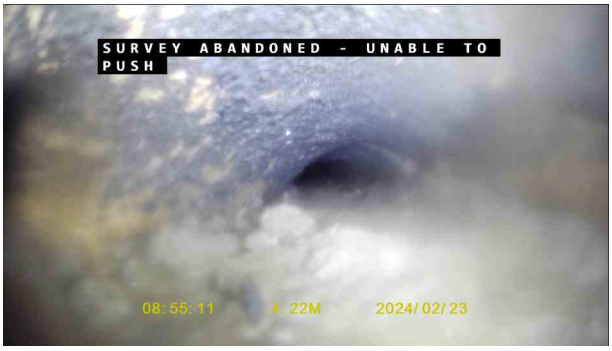
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
79	Downstream	RWG42X		

fc254624-ec25-427a-b5d0-166951710ad9.jpg, 00:00:52, 2.49 m
Attached deposits, encrustation from 2 o'clock to 10 o'clock,

5bde52ec-05ae-43d4-9be4-8f5e391d23ae.jpg, 00:00:58, 2.97 m
Joint displaced, large



68dab6aa-32c9-4870-b061-79afe463d8b4.jpg, 00:01:16, 4.00 m
Attached deposits, encrustation from 2 o'clock to 10 o'clock,



8f8a0d0b-6a84-48eb-b530-c950c3010068.jpg, 00:01:16, 4.22 m
Survey abandoned, Camera unable to pass debris

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
80	1	07/03/24	12:52	Not Specified	Not Specified	Not Specified	RWG49X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

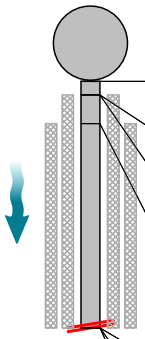
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG49
Road:	Swains Lane	**Inspected Length:**	1.63 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.63 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Root cut/Investigate possible bellies/Resurvey

Scale: 1:50

Depth: m
RWG49



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:02		
0.09	S01	RM	Roots, mass, 50% cross-sectional area loss, start	00:00:13		
0.09		WL	Water level, 40% of the vertical dimension	00:00:19		
0.28	S02	CUZ	Loss of vision, other, start: Mass roots	00:00:35		
1.63	F01	RM	Roots, mass, 50% cross-sectional area loss, finish	00:00:56		5
1.63	F02	CUZ	Loss of vision, other, finish: Mass roots	00:00:56		
1.63		SA	Survey abandoned: Camera unable to pass roots	00:00:57		

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	15.0	18.4	30.0	5.0

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Section Pictures - 07/03/2024 - RWG49X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
80	Downstream	RWG49X		

83037877-9036-41bc-b3b6-ba671c318e4d.jpg, 00:00:13, 0.09 m
Roots, mass, 50% cross-sectional area loss, start

88058ca7-4658-49c0-89f4-0a224abc9857.jpg, 00:00:19, 0.09 m
Water level, 40% of the vertical dimension

a71499e4-4cbb-42ed-8052-3358317734d7.jpg, 00:00:35, 0.28 m
Loss of vision, other, start, Mass roots

24d1a5b3-76dd-464c-b823-36161bd543fa.jpg, 00:00:57, 1.63 m
Survey abandoned, Camera unable to pass roots

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
81	1	07/03/24	12:54	Not Specified	Not Specified	Not Specified	RWG58X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

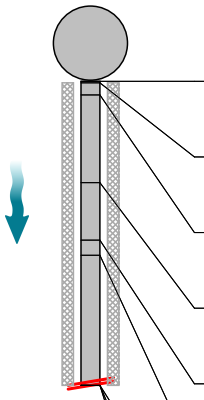
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG58
Road:	Swains Lane	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.01 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Relining/Possible excavation/Resurvey

Scale: 1:50

Depth: m
RWG58



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:38		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:10		4
0.09		JDL	Joint displaced, large	00:00:15		1 / 4
0.67		JDL	Joint displaced, large	00:00:22		1 / 4
1.05	C01	DES	Settled deposits, fine, 60% cross-sectional area loss, change	00:00:26		
1.15		JDL	Joint displaced, large	00:00:30		1 / 4
2.01		JDL	Joint displaced, large	00:00:51		1 / 4
2.01	C01	DES	Settled deposits, fine, 75% cross-sectional area loss, change	00:01:04		
2.01		SA	Survey abandoned: Camera unable to pass JDL	00:01:03		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	2.0	4.0	8.0	1.0	5	5.0	12.4	25.0	5.0

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Section Pictures - 07/03/2024 - RWG58X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
81	Downstream	RWG58X		

cb26f994-a3e6-44ee-abe5-ce6e57f387f1.jpg, 00:00:10, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss, start

f4f2aa38-92dc-416a-a2d8-a88f5b1b0635.jpg, 00:00:15, 0.09 m
Joint displaced, large

13be3794-4a3c-42f9-94ab-2c411595c588.jpg, 00:00:22, 0.67 m
Joint displaced, large

3bce5037-e768-41ec-b529-0d9c4fbc8de2.jpg, 00:00:26, 1.05 m
Settled deposits, fine, 60% cross-sectional area loss, change

5fc00722-53eb-46b7-a6a4-6f525ee4e3e9.jpg, 00:00:30, 1.15 m
Joint displaced, large

0f05dd2b-d91f-47c4-bc70-f34ff8dd0329.jpg, 00:00:51, 2.01 m
Joint displaced, large

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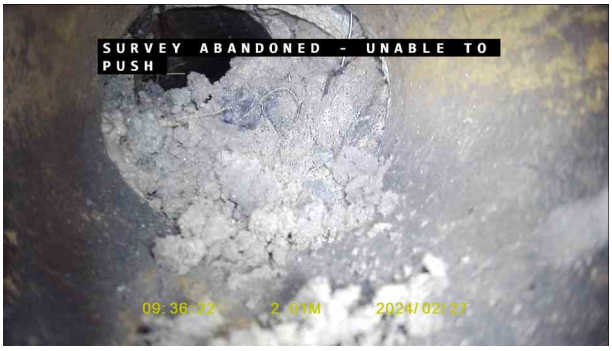
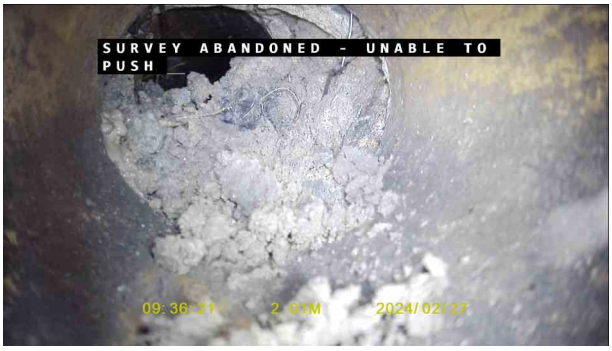
Section Pictures - 07/03/2024 - RWG58X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
81	Downstream	RWG58X		



ccd12fb2-d96d-483c-ab35-0a9e8e8272c4.jpg, 00:01:04, 2.01 m
Settled deposits, fine, 75% cross-sectional area loss, change



4f1847f5-4869-448b-aa3e-df9f6e82e729.jpg, 00:01:03, 2.01 m
Survey abandoned, Camera unable to pass JDL

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
82	1	07/03/24	12:56	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

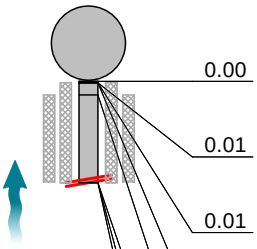
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.67 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.67 m	**Downstream Node:**	RWG56
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Investigate possible bellies/Resurvey

Scale: 1:50

Depth: m
RWG56



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01		JDL	Joint displaced, large	00:00:12		1 / 4
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:12		
0.01		WL	Water level, 70% of the vertical dimension	00:00:19		
0.09	S02	CUW	Loss of vision, camera under water, start	00:00:20		
0.67	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:39		4
0.67	F02	CUW	Loss of vision, camera under water, finish	00:00:39		
0.67		SA	Survey abandoned: Camera under water	00:00:39		

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	3.0	2.0	1.0	2	10.0	14.9	10.0	5.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
82	Upstream	BRANCH AX		

f0e37fa7-f24e-4e91-8c76-1c56c7c197a6.jpg, 00:00:12, 0.01 m
Joint displaced, large

9e581c3b-0d3d-4f9a-bb58-4cf67137c14b.jpg, 00:00:12, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss, start

b15c6c9d-7257-482b-982c-9646215bfdf7.jpg, 00:00:19, 0.01 m
Water level, 70% of the vertical dimension

bacab0d4-2cfe-4809-80df-02e2d8e105a9.jpg, 00:00:20, 0.09 m
Loss of vision, camera under water, start

e4c1604a-cf9b-4feb-9571-46c9cb111f1f.jpg, 00:00:39, 0.67 m
Survey abandoned, Camera under water

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
83	1	07/03/24	12:59	Not Specified	Not Specified	Not Specified	RWG56X

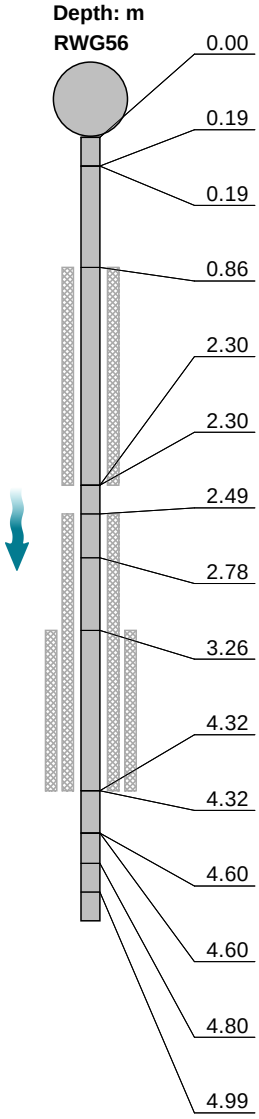
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG56
Road:	Swains Lane	**Inspected Length:**	6.62 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	6.62 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Root cut/Relining/Investigate possible bellies/Resurvey

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:26		
0.19		DESJ	Settled deposits, fine at joint, 20% cross-sectional area loss	00:00:18		4
0.19		JDL	Joint displaced, large	00:00:18		1 / 4
0.86	S01	DES	Settled deposits, fine, 60% cross-sectional area loss, start	00:00:27		
2.30		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 35% cross-sectional area loss	00:00:41		4
2.30	F01	DES	Settled deposits, fine, 50% cross-sectional area loss, finish	00:00:41		4
2.49	S02	CUD	Loss of vision, silt, start	00:00:42		
2.78		RFJ	Roots, fine at joint	00:00:48		2
3.26	S03	CUW	Loss of vision, camera under water, start	00:00:54		
4.32	F02	CUD	Loss of vision, silt, finish	00:01:12		
4.32	F03	CUW	Loss of vision, camera under water, finish	00:01:12		
4.60		RFJ	Roots, fine at joint	00:01:14		2
4.60		JDL	Joint displaced, large	00:01:14		1 / 4
4.80		WL	Water level, 25% of the vertical dimension	00:01:19		
4.99		RFJ	Roots, fine at joint	00:01:21		2

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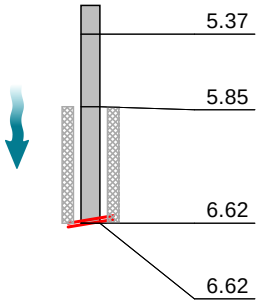
Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
83	1	07/03/24	12:59	Not Specified	Not Specified	Not Specified	RWG56X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
5.37		WL	Water level, 55% of the vertical dimension	00:01:26		
5.85	S04	CUW	Loss of vision, camera under water, start	00:01:29		
6.62	F04	CUW	Loss of vision, camera under water, finish	00:01:44		
6.62		SA	Survey abandoned: Loss of vision	00:01:44		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	2.0	0.6	4.0	1.0	8	13.0	5.9	39.0	5.0

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Section Pictures - 07/03/2024 - RWG56X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
83	Downstream	RWG56X		

edf2ff39-8159-4d78-86fe-ecea74ac22b2.jpg, 00:00:18, 0.19 m
Settled deposits, fine at joint, 20% cross-sectional area loss

3238a81c-6958-485b-b282-015487cfd794.jpg, 00:00:18, 0.19 m
Joint displaced, large

f2d62bf4-19ff-4ca9-a24b-e97f0c05f77f.jpg, 00:00:27, 0.86 m
Settled deposits, fine, 60% cross-sectional area loss, start

94d3f8ef-6a0a-4c91-97d6-7b3c1c3a0ecc.jpg, 00:00:41, 2.30 m
Attached deposits, encrustation at joint from 12 o'clock to 12

2a3070e2-3872-4acc-8ef4-bb1a7cec5b59.jpg, 00:00:42, 2.49 m
Loss of vision, silt, start

476f513a-e145-4712-aba0-0c70bedffb96.jpg, 00:00:48, 2.78 m
Roots, fine at joint

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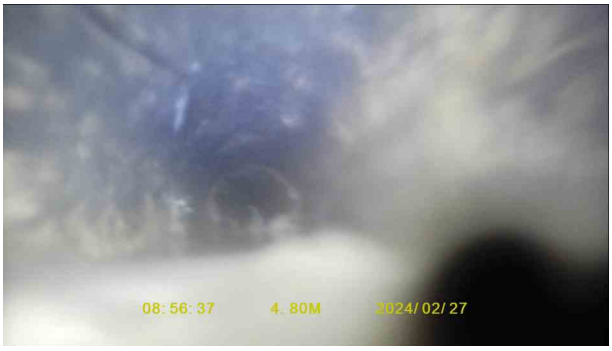
Section Pictures - 07/03/2024 - RWG56X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
83	Downstream	RWG56X		

f74f2ac8-981d-456d-a539-eaf09321404c.jpg, 00:00:54, 3.26 m
Loss of vision, camera under water, start

94d5bec5-9cc4-4bfd-a7b9-cdf28f2dc7ed.jpg, 00:01:14, 4.60 m
Roots, fine at joint

543dc134-2596-4644-b144-d3fd2671e7ea.jpg, 00:01:14, 4.60 m
Joint displaced, large



9e08fa6b-f596-478f-b2a7-95e85beb4de3.jpg, 00:01:19, 4.80 m
Water level, 25% of the vertical dimension

f05e26ae-1973-4ff7-8a06-b59d1cbe2930.jpg, 00:01:21, 4.99 m
Roots, fine at joint

c8db3b20-25a6-4c76-8858-9bfb60f3bca6.jpg, 00:01:26, 5.37 m
Water level, 55% of the vertical dimension

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Section Pictures - 07/03/2024 - RWG56X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
83	Downstream	RWG56X		

32d8fd08-e10f-4713-a077-e494eb36fea9.jpg, 00:01:29, 5.85 m
Loss of vision, camera under water, start

95faca6e-3dbb-405b-bb21-01e7a2bdbb12.jpg, 00:01:44, 6.62 m
Survey abandoned, Loss of vision

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
84	1	07/03/24	13:01	Not Specified	Not Specified	Not Specified	RWG57X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

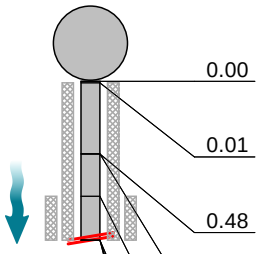
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG57
Road:	Swains Lane	**Inspected Length:**	1.05 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.05 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Resurvey

Scale: 1:50

Depth: m
RWG57



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:19		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:09		
0.48		JDL	Joint displaced, large	00:00:17		1 / 4
0.48	C01	DES	Settled deposits, fine, 45% cross-sectional area loss, change	00:00:17		
0.76	S02	CUD	Loss of vision, silt, start	00:00:22		
1.05	F01	DES	Settled deposits, fine, 45% cross-sectional area loss, finish	00:00:50		4
1.05	F02	CUD	Loss of vision, silt, finish	00:00:50		
1.05		SA	Survey abandoned: Camera unable to pass debris	00:00:50		

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	1.9	2.0	1.0	2	10.0	14.3	15.0	5.0

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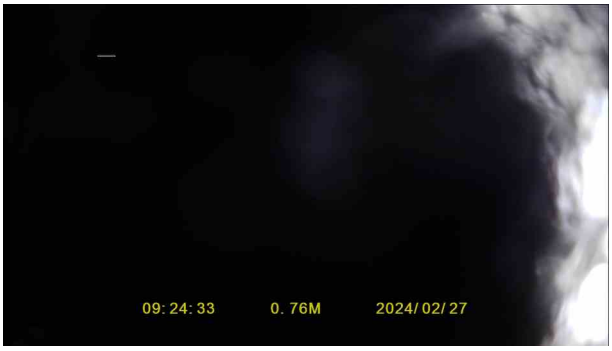
Section Pictures - 07/03/2024 - RWG57X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
84	Downstream	RWG57X		

92345a1f-0f0d-44f6-92a0-a963a50cfe03.jpg, 00:00:09, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss, start

4d362faa-fbf3-4b0d-93b6-bd9cc255c001.jpg, 00:00:17, 0.48 m
Joint displaced, large

8f6fcdb9-4400-49c7-a77a-26d86cdce044.jpg, 00:00:17, 0.48 m
Settled deposits, fine, 45% cross-sectional area loss, change



dacb44ad-8dc2-44e5-a295-05e9c252e75e.jpg, 00:00:22, 0.76 m
Loss of vision, silt, start

84c7cce2-2a40-4e68-aa6e-d7318382164e.jpg, 00:00:50, 1.05 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
85	1	07/03/24	13:02	Not Specified	Not Specified	Not Specified	RWG59X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

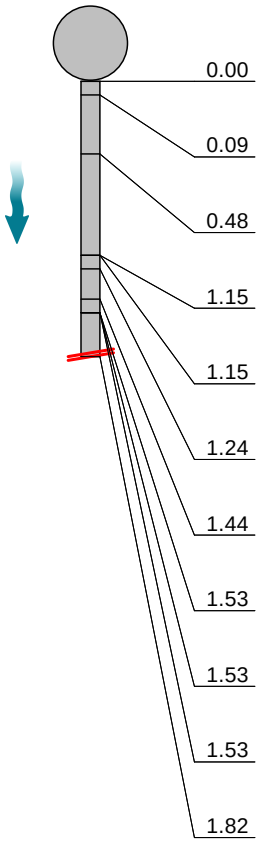
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG59
Road:	Swains Lane	**Inspected Length:**	1.82 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.82 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend root cut/HPWJ/2XLSR's/Investigate possible bellies/Resurvey

Scale: 1:50

Depth: m
RWG59



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:29		
0.09	JDL	Joint displaced, large	00:00:19		1 / 4
0.48	RFJ	Roots, fine at joint	00:00:25		2
1.15	RFJ	Roots, fine at joint	00:00:32		2
1.15	JDL	Joint displaced, large	00:00:32		1 / 4
1.24	REM	General remark: Deviation in line	00:00:34		
1.44	WL	Water level, 70% of the vertical dimension	00:00:36		
1.53	WL	Water level, 100% of the vertical dimension	00:00:42		
1.53	CUW	Loss of vision, camera under water	00:00:42		
1.53	DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:46		4
1.82	SA	Survey abandoned: Camera under water	00:00:54		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	2.0	2.2	4.0	1.0	5	6.0	9.3	17.0	5.0

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Section Pictures - 07/03/2024 - RWG59X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
85	Downstream	RWG59X		

8c62f773-bc83-49bf-bd68-917fa7667e2e.jpg, 00:00:19, 0.09 m
Joint displaced, large

6428489e-c5d8-452f-aa2d-1e93e38ba1ff.jpg, 00:00:25, 0.48 m
Roots, fine at joint

7d1c609c-6dcd-4a59-b297-f576f69144cf.jpg, 00:00:32, 1.15 m
Roots, fine at joint

dde8d0b9-63c0-4fd6-a86c-80250d7e6d3d.jpg, 00:00:32, 1.15 m
Joint displaced, large

70b3a36a-1734-4176-afbb-6e84314141d8.jpg, 00:00:42, 1.53 m
Water level, 100% of the vertical dimension

424b3edf-3c6e-4357-a189-15051bd9b60c.jpg, 00:00:42, 1.53 m
Loss of vision, camera under water

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Section Pictures - 07/03/2024 - RWG59X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
85	Downstream	RWG59X		

5b71ba6d-9ab2-4946-b49b-98612d70ad92.jpg, 00:00:46, 1.53 m
Settled deposits, fine, 40% cross-sectional area loss

766272bd-66da-4b40-af3e-9891d7f86c95.jpg, 00:00:54, 1.82 m
Survey abandoned, Camera under water

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
86	1	07/03/24	13:03	Not Specified	Not Specified	Not Specified	RWG84X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

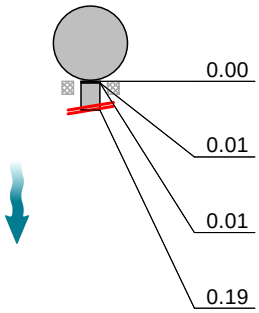
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG84
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG84



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:29		
0.01		DES	Settled deposits, fine, 75% cross-sectional area loss	00:00:12		4
0.01	S01	CUD	Loss of vision, silt, start	00:00:20		
0.19		SA	Survey abandoned: Camera unable to pass debris	00:00:37		

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	8.0	42.1	8.0	5.0

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Section Pictures - 07/03/2024 - RWG84X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
86	Downstream	RWG84X		

24f01336-08e8-4b56-bea3-61ae8406c6f1.jpg, 00:00:12, 0.01 m
Settled deposits, fine, 75% cross-sectional area loss

d7e9606f-2726-4503-92d4-8af806cf5dd4.jpg, 00:00:20, 0.01 m
Loss of vision, silt, start

39ad9e52-f44f-45b2-a9b8-f6e2a4fa684d.jpg, 00:00:37, 0.19 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
87	1	07/03/24	13:04	Not Specified	Not Specified	Not Specified	BRANCH BX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

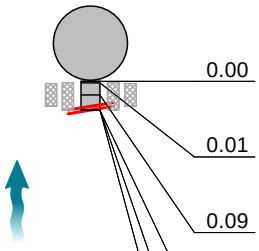
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	RWG56
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG56



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:29		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:10		
0.09	S02	CUD	Loss of vision, silt, start	00:00:18		
0.19	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:37		4
0.19		CUD	Loss of vision, silt	00:00:39		
0.19		SA	Survey abandoned: Camera unable to pass debris	00:00:37		

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	26.3	5.0	5.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
87	Upstream	BRANCH BX		

30e5672e-07dd-453b-9b6f-79ff09f2d35b.jpg, 00:00:10, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss, start

790430dc-7d6e-4a94-9d2f-a5bf1605a6f4.jpg, 00:00:18, 0.09 m
Loss of vision, silt, start

1f51dcea-61a5-4b26-9188-32764b45a606.jpg, 00:00:37, 0.19 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
88	1	07/03/24	13:06	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

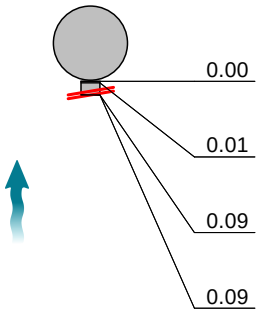
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	RWG58
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG58



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:27		
0.01	DES	Settled deposits, fine, 60% cross-sectional area loss	00:00:17		4
0.09	CUD	Loss of vision, silt	00:00:24		
0.09	SA	Survey abandoned: Camera unable to pass debris	00:00:37		

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	8.0	88.9	8.0	5.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
88	Upstream	UPSTREAMX		

cbedb70e-1abb-451e-8590-e41d940529c4.jpg, 00:00:17, 0.01 m
Settled deposits, fine, 60% cross-sectional area loss

4bc227dc-80f6-4130-aaf6-c0e952c17102.jpg, 00:00:24, 0.09 m
Loss of vision, silt

8a9a1b1c-7982-42b2-9fa4-973232a10f63.jpg, 00:00:37, 0.09 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
89	1	07/03/24	13:07	Not Specified	Not Specified	Not Specified	RWG59X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

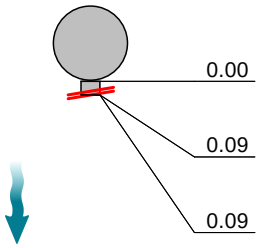
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG59
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG59



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:35		
0.09	DES	Settled deposits, fine, 80% cross-sectional area loss	00:00:18		5
0.09	SA	Survey abandoned: Camera unable to pass debris/Possibly redundant	00:00:23		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	111.1	10.0	5.0

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Section Pictures - 07/03/2024 - RWG59X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
89	Downstream	RWG59X		

038250da-519e-4f8b-abdf-91c0b59accfb.jpg, 00:00:18, 0.09 m
Settled deposits, fine, 80% cross-sectional area loss

c41e8986-3fa4-49c2-81e9-a6df2293c256.jpg, 00:00:23, 0.09 m
Survey abandoned, Camera unable to pass debris/Possibly

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
90	1	07/03/24	13:08	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

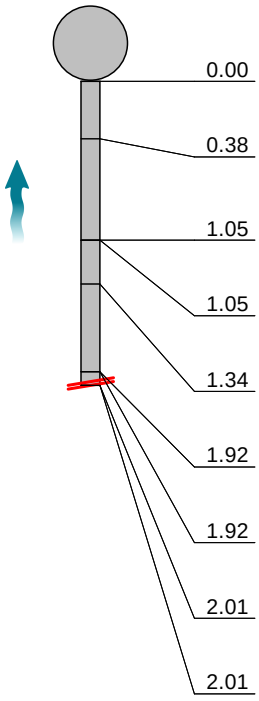
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.01 m	**Downstream Node:**	RWG59
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Root cut/Relining/Possible excavation/Resurvey

Scale: 1:50

Depth: m
RWG59



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:27		
0.38	JDL	Joint displaced, large	00:00:17		1 / 4
1.05	JDL	Joint displaced, large	00:00:22		1 / 4
1.05	LR	Line deviates right	00:00:23		
1.34	RFJ	Roots, fine at joint	00:00:26		2
1.92	OJL	Open joint, large	00:00:32		1
1.92	JDL	Joint displaced, large	00:00:32		1 / 4
2.01	OBIJ	Other obstacles, protruding through wall at joint from 2 o'clock to 4 o'clock, 25% cross-sectional area loss	00:00:37		5
2.01	SA	Survey abandoned: Camera unable to pass OJL/Obstruction	00:00:37		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	4.0	4.0	8.0	1.0	5	10.0	12.9	26.0	5.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
90	Upstream	UPSTREAMX		

d3045543-19c3-4219-abd9-ac87c87991d2.jpg, 00:00:17, 0.38 m
Joint displaced, large

c7163da9-020a-44f5-8fdf-cd71268ab28b.jpg, 00:00:22, 1.05 m
Joint displaced, large

4ea99f23-bac5-42f2-9322-835a3e4b6740.jpg, 00:00:26, 1.34 m
Roots, fine at joint

a2ef8350-c24e-4a74-906e-d14d4f6ba4c4.jpg, 00:00:32, 1.92 m
Open joint, large

dbfd739f-4c9a-4591-864d-0acc2a40ff49.jpg, 00:00:32, 1.92 m
Joint displaced, large

128e637e-cd87-4a72-8c57-c29339dc3771.jpg, 00:00:37, 2.01 m
Other obstacles, protruding through wall at joint from 2 o'clock

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
90	Upstream	UPSTREAMX		

789d6012-fa5a-4257-be28-9ece08430b0c.jpg, 00:00:37, 2.01 m
Survey abandoned, Camera unable to pass OJL/Obstruction

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
91	1	07/03/24	13:12	Not Specified	Not Specified	Not Specified	RWG73X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

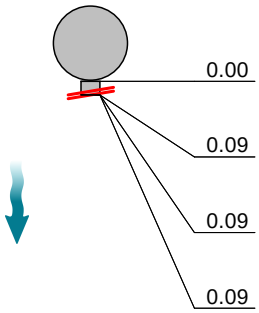
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG73
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Possible excavation

Scale: 1:50

Depth: m
RWG73



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:37		
0.09	DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:19		4
0.09	JDL	Joint displaced, large	00:00:23		1 / 4
0.09	SA	Survey abandoned: Camera unable to pass JDL/Debris	00:00:36		

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	22.2	2.0	1.0	2	10.0	111.1	10.0	5.0

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Section Pictures - 07/03/2024 - RWG73X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
91	Downstream	RWG73X		

cfa26202-8514-4663-b057-0c61602bc071.jpg, 00:00:19, 0.09 m
Settled deposits, fine, 20% cross-sectional area loss

81f01e4d-074d-4ef4-9457-19227b9b81f1.jpg, 00:00:23, 0.09 m
Joint displaced, large

c211d4ed-8ad2-490d-99f5-3b7fd11bd9a1.jpg, 00:00:36, 0.09 m
Survey abandoned, Camera unable to pass JDL/Debris

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
92	1	07/03/24	13:13	Not Specified	Not Specified	Not Specified	RWG75X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

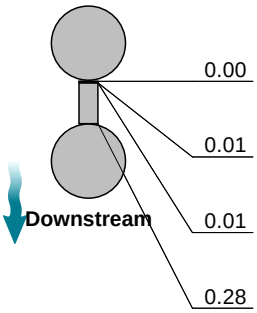
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG75
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.28 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR/Possible excavation

Scale: 1:50

Depth: m
RWG75



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:28		
0.01	B	Broken pipe from 10 o'clock to 4 o'clock	00:00:09		4
0.01	B	Broken pipe from 12 o'clock to 12 o'clock	00:00:12		4
0.28	MHF	Finish node, manhole, reference: Downstream: Buried MH	00:00:43		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	160.0	571.4	160.0	4.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 07/03/2024 - RWG75X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
92	Downstream	RWG75X		

a23b21ca-4fe4-4630-a8de-9b8184f37973.jpg, 00:00:09, 0.01 m
Broken pipe from 10 o'clock to 4 o'clock

92024dd2-a8b9-4d84-8ba3-8be0c819b077.jpg, 00:00:12, 0.01 m
Broken pipe from 12 o'clock to 12 o'clock

a6957396-a67d-4b80-af50-051c14a9121b.jpg, 00:00:43, 0.28 m
Finish node, manhole, reference: Downstream, Buried MH

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
93	1	07/03/24	13:15	Not Specified	Not Specified	Not Specified	RWG83X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

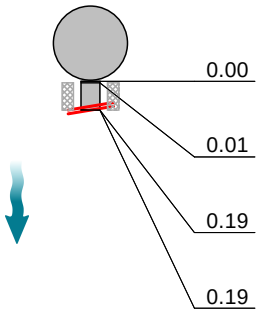
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG83
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	80 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG83



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:37		
0.01	S01	DES	Settled deposits, fine, 40% cross-sectional area loss, start	00:00:11		
0.19	F01	DES	Settled deposits, fine, 40% cross-sectional area loss, finish	00:00:06		4
0.19		SA	Survey abandoned: Camera uable to pass debris	00:00:03		

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	26.3	5.0	5.0

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Section Pictures - 07/03/2024 - RWG83X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
93	Downstream	RWG83X		

29adea43-d6da-44fe-9536-0bfdcf06eeb1.jpg, 00:00:11, 0.01 m
Settled deposits, fine, 40% cross-sectional area loss, start

2f514dbb-dea1-4e8c-8afb-a16bb28beaf8.jpg, 00:00:03, 0.19 m
Survey abandoned, Camera uable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
94	1	07/03/24	13:19	Not Specified	Not Specified	Not Specified	MH15X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

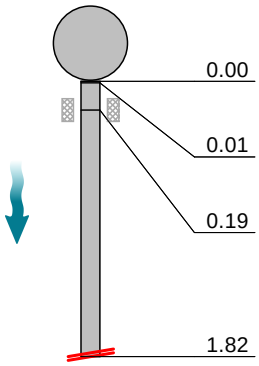
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH15
Road:	Swains Lane	**Inspected Length:**	1.82 m	**Upstream Pipe Depth:**	4.100 m
Location:		**Total Length:**	1.82 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 4.10 m
MH15



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:06		
0.01		DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:19		4
0.19	S01	CUD	Loss of vision, silt, start	00:00:25		
1.82		SA	Survey abandoned: Loss of vision due to debris	00:01:36		

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	2.7	5.0	4.0

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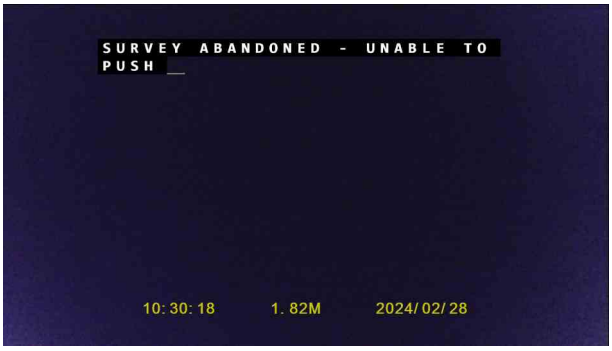
Section Pictures - 07/03/2024 - MH15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
94	Downstream	MH15X		

8f1e95cf-5037-488b-ae26-b04371364da1.jpg, 00:00:19, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss

acda8711-48eb-48ed-8d1c-808350ad06e0.jpg, 00:00:25, 0.19 m
Loss of vision, silt, start



416006a6-6a76-40dc-a90c-108071f090a7.jpg, 00:01:36, 1.82 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
95	1	07/03/24	13:20	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

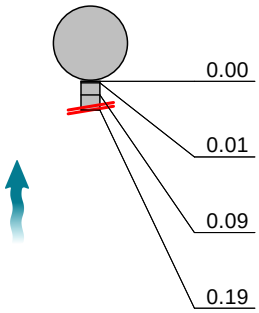
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	MH15
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	4.100 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 4.10 m
MH15



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:06		
0.01	DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:12		4
0.09	CUD	Loss of vision, silt	00:00:14		
0.19	SA	Survey abandoned: Loss of vision due to debris	00:00:38		

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	26.3	5.0	5.0

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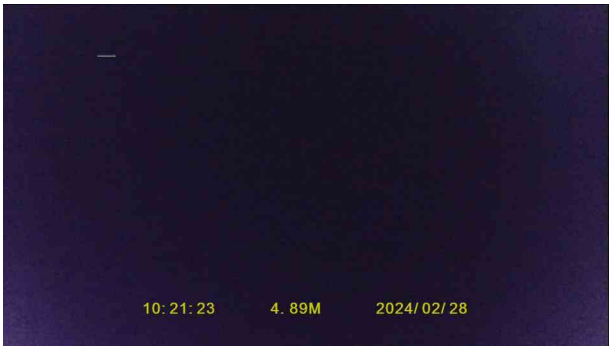
Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
95	Upstream	UPSTREAMX		

2f091c8d-fe10-47cb-b418-9ad9284ce3d8.jpg, 00:00:12, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss



f7660eb7-5268-44e9-b2b7-35fd8a2a53c7.jpg, 00:00:14, 0.09 m
Loss of vision, silt

922b605a-73c8-43c6-bf59-a67712fe6d22.jpg, 00:00:38, 0.19 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
96	1	07/03/24	13:22	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

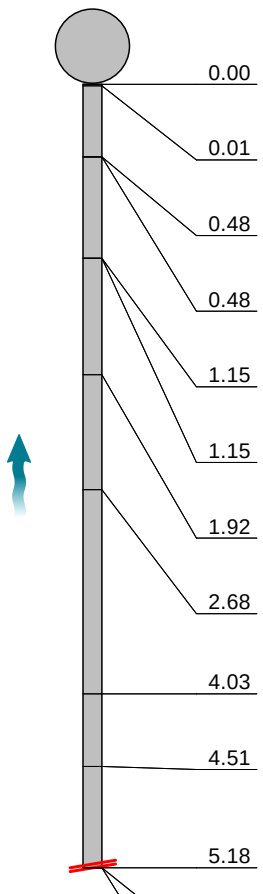
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	5.18 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	5.18 m	**Downstream Node:**	MH20
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	3.300 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Relining/Possible excavation/Resurvey

Scale: 1:50

Depth: 3.30 m
MH20



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:38		
0.01	B	Broken pipe from 8 o'clock to 3 o'clock	00:00:09		4
0.48	LR	Line deviates right	00:00:16		
0.48	JDL	Joint displaced, large	00:00:16		1 / 4
1.15	H	Hole in drain or sewer from 10 o'clock to 2 o'clock	00:00:23		5
1.15	B	Broken pipe from 10 o'clock to 2 o'clock	00:00:23		4
1.92	JDM	Joint displaced, medium	00:00:35		1 / 3
2.68	JDL	Joint displaced, large	00:00:42		1 / 4
4.03	JDL	Joint displaced, large	00:00:53		1 / 4
4.51	JDL	Joint displaced, large	00:00:57		1 / 4
5.18	OJL	Open joint, large	00:01:05		1
5.18	JDL	Joint displaced, large	00:01:05		1 / 4
5.18	SA	Survey abandoned: Camera unable to to pass JDL	00:01:08		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
10	245.0	65.3	338.0	5.0	6	5.0	5.2	27.0	5.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
96	Upstream	BRANCH AX		

4a8f413a-cc03-46a9-92d0-e4acb1491967.jpg, 00:00:09, 0.01 m
Broken pipe from 8 o'clock to 3 o'clock

44d792b6-eefa-4f40-84b7-02f252e14b46.jpg, 00:00:16, 0.48 m
Joint displaced, large

09995635-ead1-4dc6-a789-c8a85ced25e2.jpg, 00:00:23, 1.15 m
Hole in drain or sewer from 10 o'clock to 2 o'clock

ad9bbb0e-e704-4fa8-9e06-0d4233ff08e1.jpg, 00:00:23, 1.15 m
Broken pipe from 10 o'clock to 2 o'clock

c9997a02-2eea-4949-9ba2-4ea5ffc0ecc9.jpg, 00:00:35, 1.92 m
Joint displaced, medium

c4737226-e4db-47d8-aabd-d6bc6b44d135.jpg, 00:00:42, 2.68 m
Joint displaced, large

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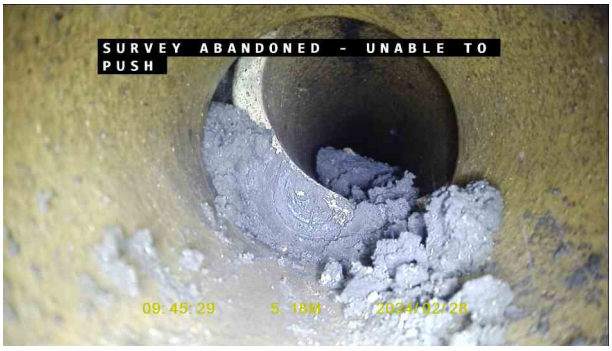
Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
96	Upstream	BRANCH AX		

c20c070b-aacd-424d-af35-588278e04c77.jpg, 00:00:57, 4.51 m
Joint displaced, large

0b86901a-c5d3-4acb-8172-bbdfff70f9fe.jpg, 00:01:05, 5.18 m
Open joint, large

1bdab721-5f99-49eb-8ed6-be60724c47cc.jpg, 00:01:05, 5.18 m
Joint displaced, large



4b256e0b-1001-45ce-892c-500a0a41122e.jpg, 00:01:08, 5.18 m
Survey abandoned, Camera unable to to pass JDL

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
97	1	07/03/24	13:28	Not Specified	Not Specified	Not Specified	MH20X

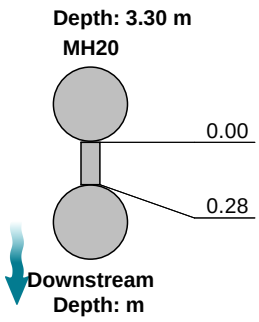
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH20
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	3.300 m
Location:		**Total Length:**	0.28 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	225 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:42		
0.28	MHF	Finish node, manhole, reference: Downstream: Buried MH	00:00:21		

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 - 07/03/2024 - MH20X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
97	Downstream	MH20X		

588edd48-7050-45bc-9a2f-459449bec755.jpg, 00:00:21, 0.28 m
Finish node, manhole, reference: Downstream, Buried MH

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
98	1	07/03/24	13:29	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

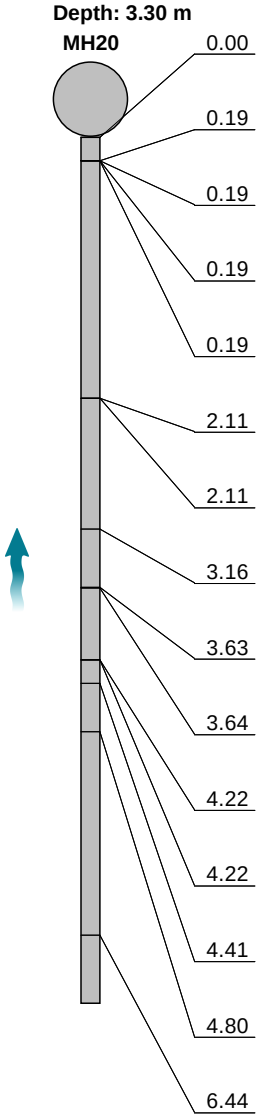
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	11.02 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	11.02 m	**Downstream Node:**	MH20
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	3.300 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	225 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Root cut/Relining/Investigate possible bellies/Resurvey

Scale: 1:61

Depth: 3.30 m



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:42		
0.19	CC	Crack, circumferential from 1 o'clock to 6 o'clock	00:00:12		2 / 2
0.19	FCJ	Fracture, circumferential at joint from 12 o'clock to 12 o'clock	00:00:12		3 / 2
0.19	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock	00:00:12		4
0.19	RFJ	Roots, fine at joint	00:00:15		2
2.11	CCJ	Crack, circumferential at joint from 8 o'clock to 3 o'clock	00:00:33		2 / 2
2.11	DEEJ	Attached deposits, encrustation at joint from 5 o'clock to 7 o'clock, 15% cross-sectional area loss	00:00:33		3
3.16	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 8 o'clock, 15% cross-sectional area loss	00:00:44		3
3.63	CLJ	Crack, longitudinal at joint at 3 o'clock	00:00:56		2 / 2
3.64	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 7 o'clock, 15% cross-sectional area loss	00:00:56		3
4.22	WL	Water level, 15% of the vertical dimension	00:01:32		
4.22	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 30% cross-sectional area loss	00:01:46		4
4.41	WL	Water level, 15% of the vertical dimension	00:01:52		
4.80	CCJ	Crack, circumferential at joint from 4 o'clock to 8 o'clock	00:01:57		2 / 2
6.44	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 6 o'clock, 15% cross-sectional area loss	00:02:08		3

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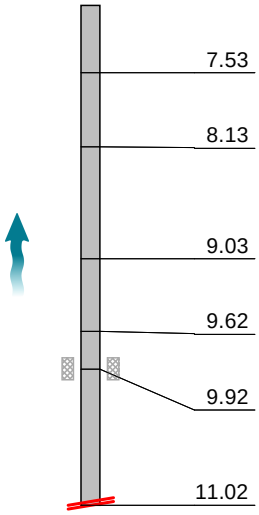
WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
98	1	07/03/24	13:29	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Scale: 1:61



Position [m]		Code	Observation	MPEG	Photo	Grade
7.53		JDM	Joint displaced, medium	00:02:13		1 / 3
8.13		WL	Water level, 20% of the vertical dimension	00:02:16		
9.03		WL	Water level, 30% of the vertical dimension	00:02:21		
9.62		JDM	Joint displaced, medium	00:02:24		1 / 3
9.92	S01	CUD	Loss of vision, silt, start	00:02:26		
11.02		SA	Survey abandoned: Loss of vision	00:03:05		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
8	130.0	14.7	162.0	4.0	13	5.0	2.1	23.0	4.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
98	Upstream	UPSTREAMX		

a05d4d2b-05ea-4f8a-a87e-ca702cdcea58.jpg, 00:00:12, 0.19 m
Crack, circumferential from 1 o'clock to 6 o'clock

66e9acdb-f6cc-4229-983f-89ccea8f57cd.jpg, 00:00:12, 0.19 m
Fracture, circumferential at joint from 12 o'clock to 12 o'clock

eac5d221-a645-4b00-abdd-63ef763cc8ca.jpg, 00:00:12, 0.19 m
Broken pipe at joint from 12 o'clock to 12 o'clock

8a625499-afd1-44cf-a783-82c76817da85.jpg, 00:00:15, 0.19 m
Roots, fine at joint

7d2cf0bc-76b2-4766-a352-9a3c8d94249f.jpg, 00:00:33, 2.11 m
Crack, circumferential at joint from 8 o'clock to 3 o'clock

fb6a5d86-324c-4a40-b619-137fa61fdd51.jpg, 00:00:33, 2.11 m
Attached deposits, encrustation at joint from 5 o'clock to 7

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
98	Upstream	UPSTREAMX		

f4ffd01f-f25a-4200-a2ab-bb432de9a09f.jpg, 00:00:44, 3.16 m
Attached deposits, encrustation at joint from 7 o'clock to 8 o'clock, 15% cross-sectional area loss

ebd01911-c836-4e43-8486-2d7c7b590947.jpg, 00:00:56, 3.63 m
Crack, longitudinal at joint at 3 o'clock

aa3d0a73-6d35-404b-b941-38d745a7c16a.jpg, 00:00:56, 3.64 m
Attached deposits, encrustation at joint from 4 o'clock to 7

9f9a7e00-1543-4050-ab4a-f11bd25f1c40.jpg, 00:01:32, 4.22 m
Water level, 15% of the vertical dimension

439848db-f8dc-43ef-937d-ba36c4278371.jpg, 00:01:46, 4.22 m
Attached deposits, encrustation at joint from 4 o'clock to 8

87be3291-252e-4885-9208-1b470704d333.jpg, 00:01:52, 4.41 m
Water level, 15% of the vertical dimension

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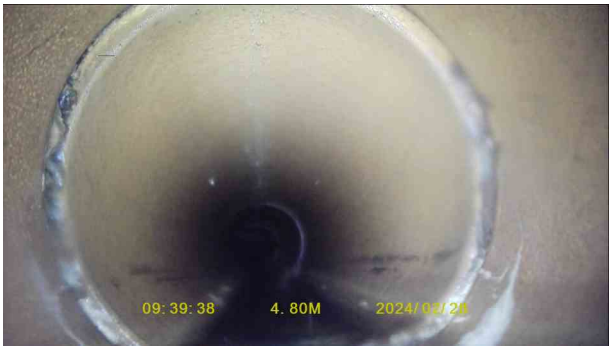
Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
98	Upstream	UPSTREAMX		

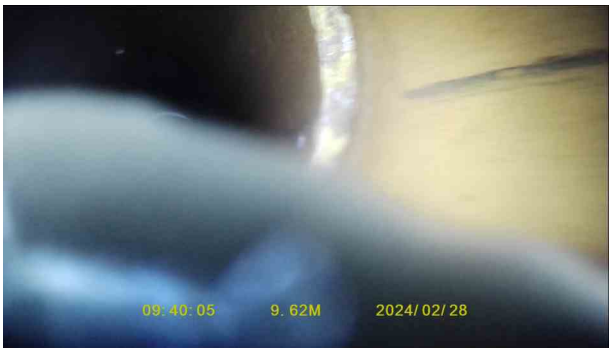


7328ea28-93b8-4f4c-a440-c1fadf94a412.jpg, 00:01:57, 4.80 m
Crack, circumferential at joint from 4 o'clock to 8 o'clock

23bb68e0-1434-4e0c-94b2-39e2347e44b9.jpg, 00:02:08, 6.44 m
Attached deposits, encrustation at joint from 4 o'clock to 6

772c8bb4-0770-416f-ab1f-b12b07e31e7f.jpg, 00:02:16, 8.13 m
Water level, 20% of the vertical dimension

bf1ace71-eab4-4379-88e5-22d3930213c0.jpg, 00:02:21, 9.03 m
Water level, 30% of the vertical dimension



0923d1c8-fa2b-4a7d-937a-928569d2f626.jpg, 00:02:24, 9.62 m
Joint displaced, medium

799dfb8f-7f00-4732-8c90-d6b0041bf8af.jpg, 00:02:26, 9.92 m
Loss of vision, silt, start

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
98	Upstream	UPSTREAMX		

a69fa95f-0c36-46a5-824b-c4b81272c711.jpg, 00:03:05, 11.02 m
Survey abandoned, Loss of vision

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
99	1	07/03/24	13:30	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

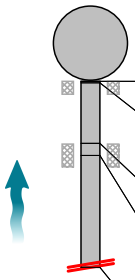
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.23 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.23 m	**Downstream Node:**	MH21
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.500 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 0.50 m
MH21



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:08		4
0.41		JDM	Joint displaced, medium	00:00:13		1 / 3
0.49	S02	CUD	Loss of vision, silt, start	00:00:14		
1.23		SA	Survey abandoned: Loss of vision due to debris	00:00:26		

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	0.8	1.0	1.0	2	2.0	5.7	7.0	5.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
99	Upstream	BRANCH AX		

3db440e9-94a5-444e-aeac-e60b9c2334fc.jpg, 00:00:08, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss, start

77367d56-7a45-45eb-ad78-ac012a2018e5.jpg, 00:00:13, 0.41 m
Joint displaced, medium

fae5eb01-e9ea-4183-9cef-08d08a8e3e3e.jpg, 00:00:14, 0.49 m
Loss of vision, silt, start

c6c0756c-e33e-48a8-9ed1-45dfae203388.jpg, 00:00:26, 1.23 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
100	1	07/03/24	13:34	Not Specified	Not Specified	Not Specified	MH21X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

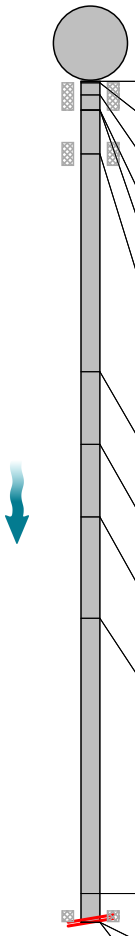
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH21
Road:	Swains Lane	**Inspected Length:**	5.56 m	**Upstream Pipe Depth:**	0.500 m
Location:		**Total Length:**	5.56 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Relining/Resurvey

Scale: 1:50

Depth: 0.50 m
MH21



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:16		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:13		
0.09		JDM	Joint displaced, medium	00:00:13		1 / 3
0.19	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:19		4
0.19		JDM	Joint displaced, medium	00:00:25		1 / 3
0.48	S02	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:28		4
1.92		JDM	Joint displaced, medium	00:00:43		1 / 3
2.40		JDL	Joint displaced, large	00:00:47		1 / 4
2.88		JDM	Joint displaced, medium	00:00:51		1 / 3
3.55		JDM	Joint displaced, medium	00:00:57		1 / 3
5.37		JDM	Joint displaced, medium	00:01:16		1 / 3
5.56	S03	CUD	Loss of vision, silt, start	00:01:23		
5.56		SA	Survey abandoned: Loss of vision due to debris	00:01:36		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
7	2.0	1.4	8.0	1.0	9	7.0	4.9	27.0	4.0

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Section Pictures - 07/03/2024 - MH21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
100	Downstream	MH21X		

132c5efe-8fb1-4b9e-a824-f4bad41f3c98.jpg, 00:00:13, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss, start

59989cb7-882d-4cad-8231-0d4c84c6b221.jpg, 00:00:13, 0.09 m
Joint displaced, medium

7dc46182-e677-44b7-b370-61bb35cd409f.jpg, 00:00:25, 0.19 m
Joint displaced, medium

e9bc0550-c807-4021-97ad-5c5421ae3788.jpg, 00:00:28, 0.48 m
Settled deposits, fine, 25% cross-sectional area loss, start

74221590-b06f-4585-a0a0-9d5b4a09d375.jpg, 00:00:43, 1.92 m
Joint displaced, medium

e160bc27-03a4-4946-b649-9492332ef6a9.jpg, 00:00:47, 2.40 m
Joint displaced, large

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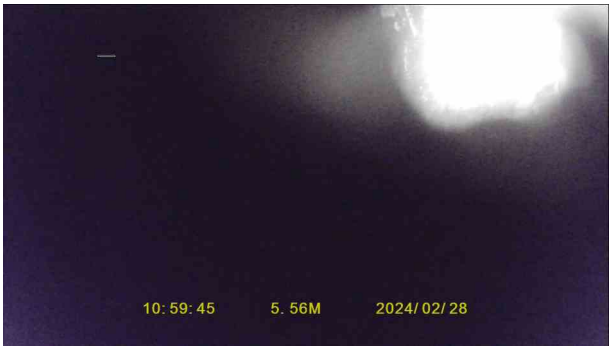
Section Pictures - 07/03/2024 - MH21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
100	Downstream	MH21X		

0b1fa437-c79c-4ffa-b5a3-a789f1c390e5.jpg, 00:00:51, 2.88 m
Joint displaced, medium

ef59b3cd-38a9-45ec-a904-49bcb886006c.jpg, 00:00:57, 3.55 m
Joint displaced, medium

9f08fd98-dd8b-4de9-b0cf-8636eb958aed.jpg, 00:01:16, 5.37 m
Joint displaced, medium



6be09d10-ee40-4746-a4b9-d2122749b99f.jpg, 00:01:23, 5.56 m
Loss of vision, silt, start

e5e5924a-5c3e-4412-abeb-5b48d37c396f.jpg, 00:01:36, 5.56 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
101	1	07/03/24	13:35	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

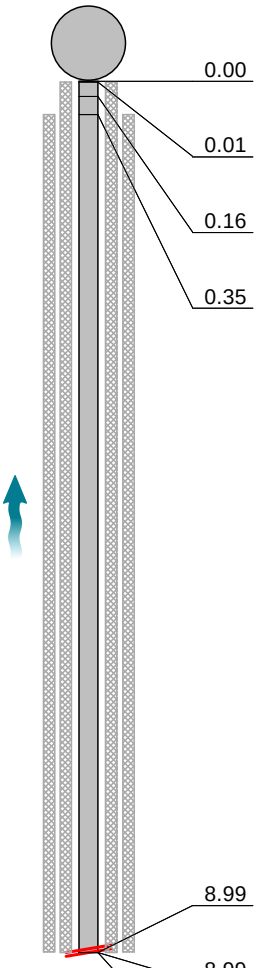
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	8.99 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.99 m	**Downstream Node:**	MH21
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.500 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Resurvey

Scale: 1:78

Depth: 0.50 m
MH21



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:09		
0.16		JDM	Joint displaced, medium	00:00:15		1 / 3
0.35	S02	CUD	Loss of vision, silt, start	00:00:18		
8.99	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:51		4
8.99	F02	CUD	Loss of vision, silt, finish	00:00:52		
8.99		SA	Survey abandoned: Loss of vision due to debris	00:00:52		

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	2	7.0	5.2	47.0	5.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
101	Upstream	UPSTREAMX		

bcbbea21-a523-4d4e-80ec-5267102d0d3b.jpg, 00:00:09, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss, start

a5bb8a15-44ea-4299-932a-bd0cf48bb56d.jpg, 00:00:15, 0.16 m
Joint displaced, medium

dc5ea244-2d32-4cc1-aa83-509a703787da.jpg, 00:00:18, 0.35 m
Loss of vision, silt, start

660c5568-967f-4191-9a6c-105d957c65a2.jpg, 00:00:52, 8.99 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
102	1	07/03/24	13:40	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

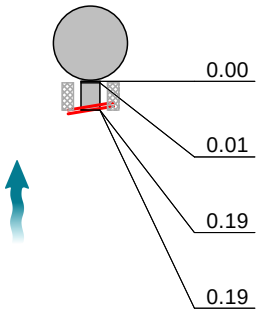
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	MH22
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	4.340 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required/Resurvey

Scale: 1:50

Depth: 4.34 m
MH22



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:40		
0.01	S01	CUD	Loss of vision, silt, start	00:00:13		
0.19	F01	CUD	Loss of vision, silt, finish	00:00:01		
0.19		SA	Survey abandoned: Loss of vision	00:00:36		

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 - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
102	Upstream	BRANCH AX		

b248a862-754a-4d36-a456-3bf1134244e7.jpg, 00:00:13, 0.01 m
Loss of vision, silt, start

72f360f2-e25c-46a0-8340-8ea97b26feeb.jpg, 00:00:36, 0.19 m
Survey abandoned, Loss of vision

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
103	1	07/03/24	13:42	Not Specified	Not Specified	Not Specified	MH22X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

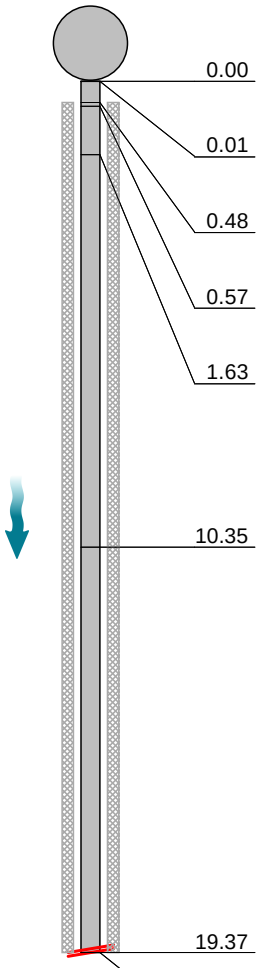
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH22
Road:	Swains Lane	**Inspected Length:**	19.37 m	**Upstream Pipe Depth:**	4.320 m
Location:		**Total Length:**	19.37 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	225 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR/HPWJ/Investuigate possible bellies/Resurvey with crawler unit

Scale: 1:168

Depth: 4.32 m
MH22



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:24		
0.01		FMJ	Fractures, multiple at joint from 12 o'clock to 12 o'clock	00:00:11		4 / 2
0.48	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:16		
0.57		WL	Water level, 20% of the vertical dimension	00:00:18		
1.63		LL	Line deviates left	00:00:24		
10.35		WL	Water level, 20% of the vertical dimension	00:01:42		
19.37	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:03:15		4
19.37		SA	Survey abandoned: Camera unable to push further due to pipe sze	00:03:19		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	4.1	80.0	4.0	2	6.0	5.0	96.0	4.0

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Section Pictures - 07/03/2024 - MH22X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
103	Downstream	MH22X		

c5435cb3-f286-4d64-b0fc-d3581c1df6cc.jpg, 00:00:11, 0.01 m
Fractures, multiple at joint from 12 o'clock to 12 o'clock

97553212-8f60-4b8f-9d8c-d75e09502bee.jpg, 00:00:16, 0.48 m
Settled deposits, fine, 20% cross-sectional area loss, start

0ddb4aba-a1ce-4d32-bc0a-b2261925cef3.jpg, 00:00:18, 0.57 m
Water level, 20% of the vertical dimension

f8c42220-fb22-455e-a4fb-0b886136aeeb.jpg, 00:01:42, 10.35 m
Water level, 20% of the vertical dimension

aa4ac5ef-aa4b-42b4-970f-9f78c96b2de4.jpg, 00:03:19, 19.37 m
Survey abandoned, Camera unable to push further due to pipe

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
104	1	07/03/24	13:42	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

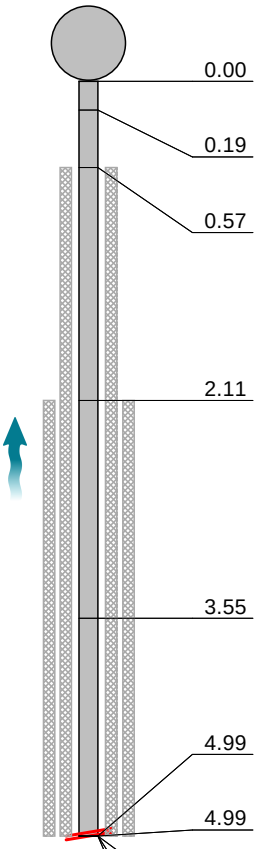
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	4.99 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	4.99 m	**Downstream Node:**	MH22
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	4.340 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	225 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Investigate possible bellies/Resurvey with crawler unit

Scale: 1:50

Depth: 4.34 m
MH22



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.19		WL	Water level, 20% of the vertical dimension	00:00:08		
0.57	S01	CUW	Loss of vision, camera under water, start	00:00:13		
2.11	S02	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, start	00:00:51		
3.55		WL	Water level, 50% of the vertical dimension	00:01:17		
4.99		FC	Fracture, circumferential from 7 o'clock to 9 o'clock	00:02:00		3 / 2
4.99		JDM	Joint displaced, medium	00:02:00		1 / 3
4.99	F01	CUW	Loss of vision, camera under water, finish	00:02:02		
4.99	F02	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, finish	00:02:03		3
4.99		SA	Survey abandoned: Camera unable to push further due to size of pipe	00:02:00		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	41.0	8.2	41.0	3.0	3	3.0	1.8	9.0	3.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
104	Upstream	UPSTREAMX		

5f63d655-58e9-4f14-acae-1c6df74d127f.jpg, 00:00:08, 0.19 m
Water level, 20% of the vertical dimension

af1f083b-a883-4241-94ba-bc54d5c195c3.jpg, 00:00:13, 0.57 m
Loss of vision, camera under water, start

6ab524fc-49ec-4ec2-b2e6-076abcf96f41.jpg, 00:00:51, 2.11 m
Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, start

7016f20e-0a01-442c-bf39-0fb44cff4202.jpg, 00:01:17, 3.55 m
Water level, 50% of the vertical dimension

258a5039-6818-4d26-9350-7e27743fc4ad.jpg, 00:02:00, 4.99 m
Fracture, circumferential from 7 o'clock to 9 o'clock

771b3f43-9f23-488c-9af6-9b8f4fbe956f.jpg, 00:02:00, 4.99 m
Joint displaced, medium

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
104	Upstream	UPSTREAMX		

e556d635-d279-413f-9fcd-78f9d69848af.jpg, 00:02:00, 4.99 m
Survey abandoned, Camera unable to push further due to size of pipe

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
105	1	07/03/24	13:44	Not Specified	Not Specified	Not Specified	BRANCH AX

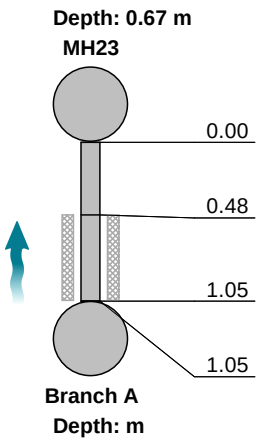
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.05 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.05 m	**Downstream Node:**	MH23
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.670 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:18		
0.48	S01	DES	Settled deposits, fine, 30% cross-sectional area loss, start	00:00:19		
1.05	F01	DES	Settled deposits, fine, 30% cross-sectional area loss, finish	00:00:28		4
1.05		GYF	Finish node, gully, reference: Branch A: Gully 87	00:00:28		

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	4.8	5.0	4.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
105	Upstream	BRANCH AX		

e6148df6-479e-471a-969a-ecfed70f1506.jpg, 00:00:19, 0.48 m
Settled deposits, fine, 30% cross-sectional area loss, start

4b26d012-440d-49f9-9acf-45206912f23f.jpg, 00:00:28, 1.05 m
Finish node, gully, reference: Branch A, Gully 87

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
106	1	07/03/24	13:45	Not Specified	Not Specified	Not Specified	BRANCH BX

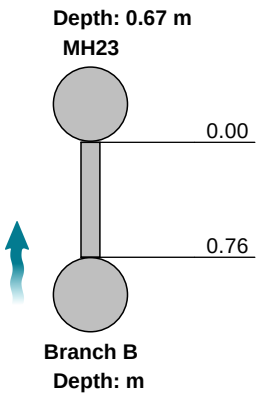
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	0.76 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.76 m	**Downstream Node:**	MH23
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.670 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:20		
0.76	GYF	Finish node, gully, reference: Branch B: Gully 86	00:00:19		

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 - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
106	Upstream	BRANCH BX		

826423f0-1768-4ba3-a951-b94fe8362e79.jpg, 00:00:19, 0.76 m
Finish node, gully, reference: Branch B, Gully 86

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
107	1	07/03/24	13:46	Not Specified	Not Specified	Not Specified	MH23X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

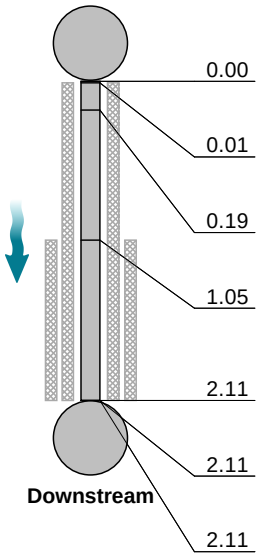
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH23
Road:	Swains Lane	**Inspected Length:**	2.11 m	**Upstream Pipe Depth:**	0.670 m
Location:		**Total Length:**	2.11 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 0.67 m
MH23



Downstream

Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:19		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:08		
0.19		SC	Pipe size changes, new size(s), 150mm high	00:00:13		
1.05	S02	DB	Displaced bricks, single brick false from 5 o'clock to 7 o'clock, start	00:00:22		
2.11	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:47		4
2.11	F02	DB	Displaced bricks, single brick False from 5 o'clock to 7 o'clock, finish	00:00:47		
2.11		MHF	Finish node, manhole, reference: Downstream: Buried MH	00:00:47		

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	7.1	15.0	5.0

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Section Pictures - 07/03/2024 - MH23X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
107	Downstream	MH23X		

30f79e78-da89-42c6-84c5-4574d547f018.jpg, 00:00:08, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss, start

bd31d3c1-edec-4323-81ff-9816ca29f87c.jpg, 00:00:22, 1.05 m
Displaced bricks, single brick false from 5 o'clock to 7 o'clock, start

dd4c0505-c83a-423c-9aea-5f66f956027b.jpg, 00:00:47, 2.11 m
Finish node, manhole, reference: Downstream, Buried MH

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
108	1	07/03/24	13:46	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

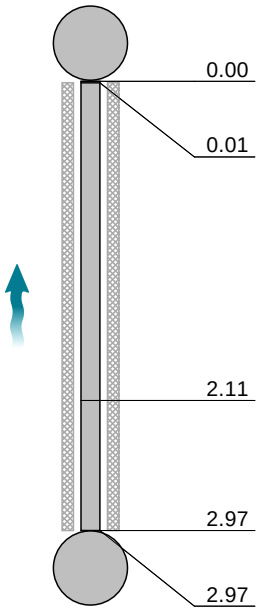
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	2.97 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.97 m	**Downstream Node:**	MH24
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	2.950 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: 2.95 m
MH24



Branch A
Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:24		
0.01	S01	DB	Displaced bricks, single brick false from 5 o'clock to 8 o'clock, start	00:00:09		
2.11		DES	Settled deposits, fine, 15% cross-sectional area loss	00:01:07		3
2.97	F01	DB	Displaced bricks, single brick False from 5 o'clock to 8 o'clock, finish	00:01:07		4
2.97		MHF	Finish node, manhole, reference: Branch A: Buried MH	00:01:07		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	80.8	240.0	4.0	1	2.0	0.7	2.0	3.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
108	Upstream	BRANCH AX		

9daad588-bbf3-4842-9033-69c1b1e0e1ac.jpg, 00:00:09, 0.01 m
Displaced bricks, single brick false from 5 o'clock to 8 o'clock,

4e7e90c9-6055-4082-9f23-ab097ef6750d.jpg, 00:01:07, 2.11 m
Settled deposits, fine, 15% cross-sectional area loss

013ea66e-5e98-4afe-8101-adac43e85cfb.jpg, 00:01:07, 2.97 m
Finish node, manhole, reference: Branch A, Buried MH

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
109	1	07/03/24	13:47	Not Specified	Not Specified	Not Specified	BRANCH BX

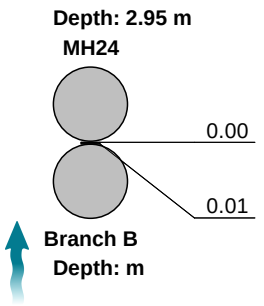
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	MH24
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	2.950 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:14		
0.01	GYF	Finish node, gully, reference: Branch B: Gully 88	00:00:07		

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 - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
109	Upstream	BRANCH BX		

5dc5451f-626f-4437-82ca-c2700285c853.jpg, 00:00:07, 0.01 m
Finish node, gully, reference: Branch B, Gully 88

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
110	1	07/03/24	13:48	Not Specified	Not Specified	Not Specified	BRANCH CX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

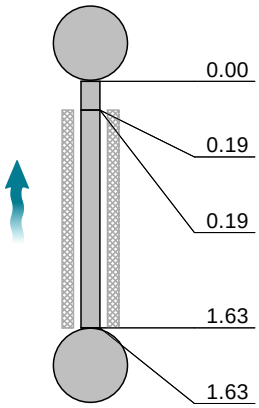
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH C
Road:	Swains Lane	**Inspected Length:**	1.63 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.63 m	**Downstream Node:**	MH24
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	2.950 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: 2.95 m
MH24



Branch C
Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:15		
0.19		DB	Displaced bricks, single brick false from 7 o'clock to 8 o'clock	00:00:24		4
0.19	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:24		
1.63	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:00		3
1.63		MHF	Finish node, manhole, reference: Branch C: Reducer	00:01:00		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	49.1	80.0	4.0	1	2.0	2.5	4.0	3.0

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Section Pictures - 07/03/2024 - Branch CX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
110	Upstream	BRANCH CX		

50f3a794-5c57-475e-ba55-f575440f4af4.jpg, 00:00:24, 0.19 m
Displaced bricks, single brick false from 7 o'clock to 8 o'clock

62f9f226-191d-46b7-b105-37053ebf86d5.jpg, 00:00:24, 0.19 m
Settled deposits, fine, 15% cross-sectional area loss, start

3edbc5fd-9809-4ced-b176-f707616f5b76.jpg, 00:01:00, 1.63 m
Finish node, manhole, reference: Branch C, Reducer

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
111	1	07/03/24	13:49	Not Specified	Not Specified	Not Specified	RWG90X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

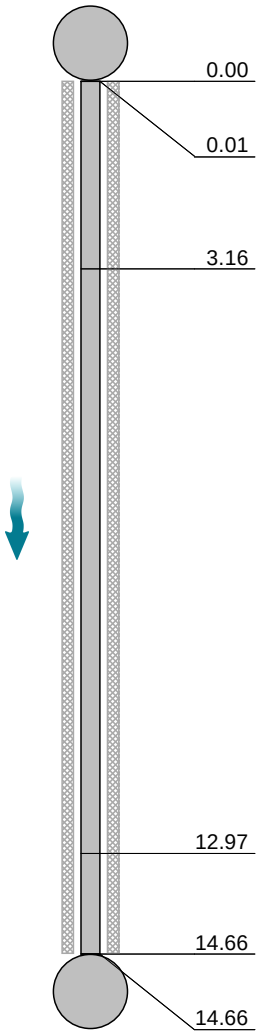
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG90
Road:	Swains Lane	**Inspected Length:**	14.66 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	14.66 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:127

Depth: m
RWG90



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:25		
0.01	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:08		
3.16		REM	General remark: Deviation in line	00:00:32		
12.97		REM	General remark: Deviation in line	00:01:25		
14.66	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:58		3
14.66		MHF	Finish node, manhole, reference: Downstream: Capped	00:01:58		

Downstream
Depth: m

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	2.0	30.0	3.0

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Section Pictures - 07/03/2024 - RWG90X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
111	Downstream	RWG90X		

e2e8edde-2345-4477-b8a3-180d35a8a02e.jpg, 00:00:08, 0.01 m
Settled deposits, fine, 15% cross-sectional area loss, start

0ed4b8da-6585-41d1-afe8-d9c4ed313b91.jpg, 00:01:58, 14.66 m
Finish node, manhole, reference: Downstream, Capped

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
112	1	07/03/24	13:51	Not Specified	Not Specified	Not Specified	RWG91X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

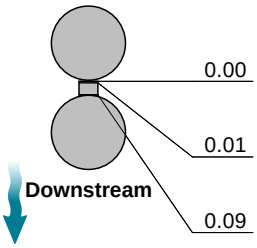
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG91
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: m
RWG91



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	LD	Line deviates down	00:00:12		
0.09	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:34		

Depth: m

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 - 07/03/2024 - RWG91X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
112	Downstream	RWG91X		

7a4246ec-1684-479b-ac10-ecfea8f62969.jpg, 00:00:34, 0.09 m
Finish node, manhole, reference: Downstream, Blind junction

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
113	1	07/03/24	13:54	Not Specified	Not Specified	Not Specified	RWG92X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

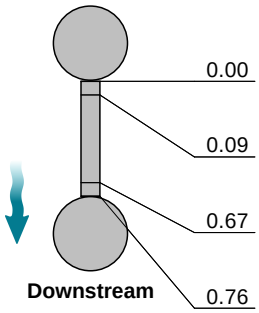
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG92
Road:	Swains Lane	**Inspected Length:**	0.76 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.76 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR/Possible excavation

Scale: 1:50

Depth: m
RWG92



Downstream

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:01		
0.09	LD	Line deviates down	00:00:10		
0.67	JDL	Joint displaced, large: Just before blind junction	00:00:25		1 / 4
0.76	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:32		

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	2.6	2.0	1.0	1	5.0	6.6	5.0	5.0

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Section Pictures - 07/03/2024 - RWG92X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
113	Downstream	RWG92X		

0e816eaf-fb99-41fb-bdc6-a8c9d913ec43.jpg, 00:00:25, 0.67 m
Joint displaced, large, Just before blind junction

3ad7a6ca-192f-467a-892b-f84485627985.jpg, 00:00:32, 0.76 m
Finish node, manhole, reference: Downstream, Blind junction

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
114	1	07/03/24	13:55	Not Specified	Not Specified	Not Specified	RWG89X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

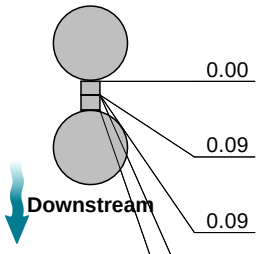
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG89
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend excavation

Scale: 1:50

Depth: m
RWG89



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:03		
0.09	LD	Line deviates down	00:00:07		
0.09	JDL	Joint displaced, large	00:00:07		1 / 4
0.09	BJ	Broken pipe at joint from 10 o'clock to 3 o'clock	00:00:07		4
0.19	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:11		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	82.0	431.6	82.0	4.0	1	5.0	26.3	5.0	5.0

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Section Pictures - 07/03/2024 - RWG89X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
114	Downstream	RWG89X		

8f4116a7-56b5-4a17-b527-4a1083713b61.jpg, 00:00:07, 0.09 m
Joint displaced, large

fb12ba74-18c9-4010-ae89-ff423b39a5f3.jpg, 00:00:11, 0.19 m
Finish node, manhole, reference: Downstream, Blind junction

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
115	1	07/03/24	13:56	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

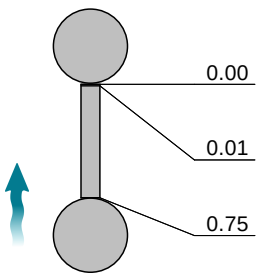
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.75 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.75 m	**Downstream Node:**	MH21
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.500 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 0.50 m
MH21



Branch A
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:01		
0.01	DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:13		3
0.75	GYF	Finish node, gully, reference: Branch A	00:00:27		

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	2.7	2.0	4.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
115	Upstream	BRANCH AX		

7f1e18e7-65cc-4e0b-8342-9da276334a4a.jpg, 00:00:13, 0.01 m
Settled deposits, fine, 15% cross-sectional area loss

ec7a3526-6c70-4574-a334-887a1a566f64.jpg, 00:00:27, 0.75 m
Finish node, gully, reference: Branch A