

Project

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 -
26-04-19

Project Status: On Site

Project Date: 26/04/2019

Project Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

WinCan Version: v. 1.1.12.3



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Scoring Summary

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Structural Defects

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

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

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

Section	PLR	Grade	Description
3	FMH2X	4	Fractures, multiple from 12 o'clock to 12 o'clock
5	FMH4X	4	Multiple defects
6	FMH5X	4	Fractures, multiple from 03 o'clock to 09 o'clock
7	FMH7X	3	Cracks, multiple from 06 o'clock to 12 o'clock
9	SHM2X	4	Hole in drain or sewer from 11 o'clock to 01 o'clock

Service / Operational Condition

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

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

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

Section	PLR	Grade	Description
2	FHM1X	3	Attached deposits, encrustation from 05 o'clock to 08 o'clock, 5% cross-sectional area loss
3	FMH2X	4	Roots, tap
6	FMH5X	4	Attached deposits, grease from 03 o'clock to 09 o'clock, 10% cross-sectional area loss
7	FMH7X	4	Attached deposits, fouling from 02 o'clock to 10 o'clock, 75% cross-sectional area loss
8	FMH6X	3	Joint displaced, medium
9	SHM2X	4	Settled deposits, other, 15% cross-sectional area loss
10	NODE 6X	4	Multiple defects

Abandoned Surveys

Section	PLR	Description
7	FMH7X	Survey abandoned
9	SHM2X	Survey abandoned



Scoring Summary

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Information

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



Project Information

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160	Client's Ref: C1703-17	Contractor's Ref: PJ00332160	Project Date: 26/04/2019
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Client

Company: HollyCroft Construction LTD
 Contact: jerry bourke
 Department: 1&2 Northwest Business Park
 Street: Servia Hill
 Town or City: Leeds
 County: W. Yorks
 Post Code: LS6 2QH

Site

Company: Hollycroft Construction LTD
 Contact: JERRY BOURKE
 Department: Baildon Mills
 Street: Northgate
 Town or City: Baildon
 County: W. Yorks
 Post Code: BD17 6JY

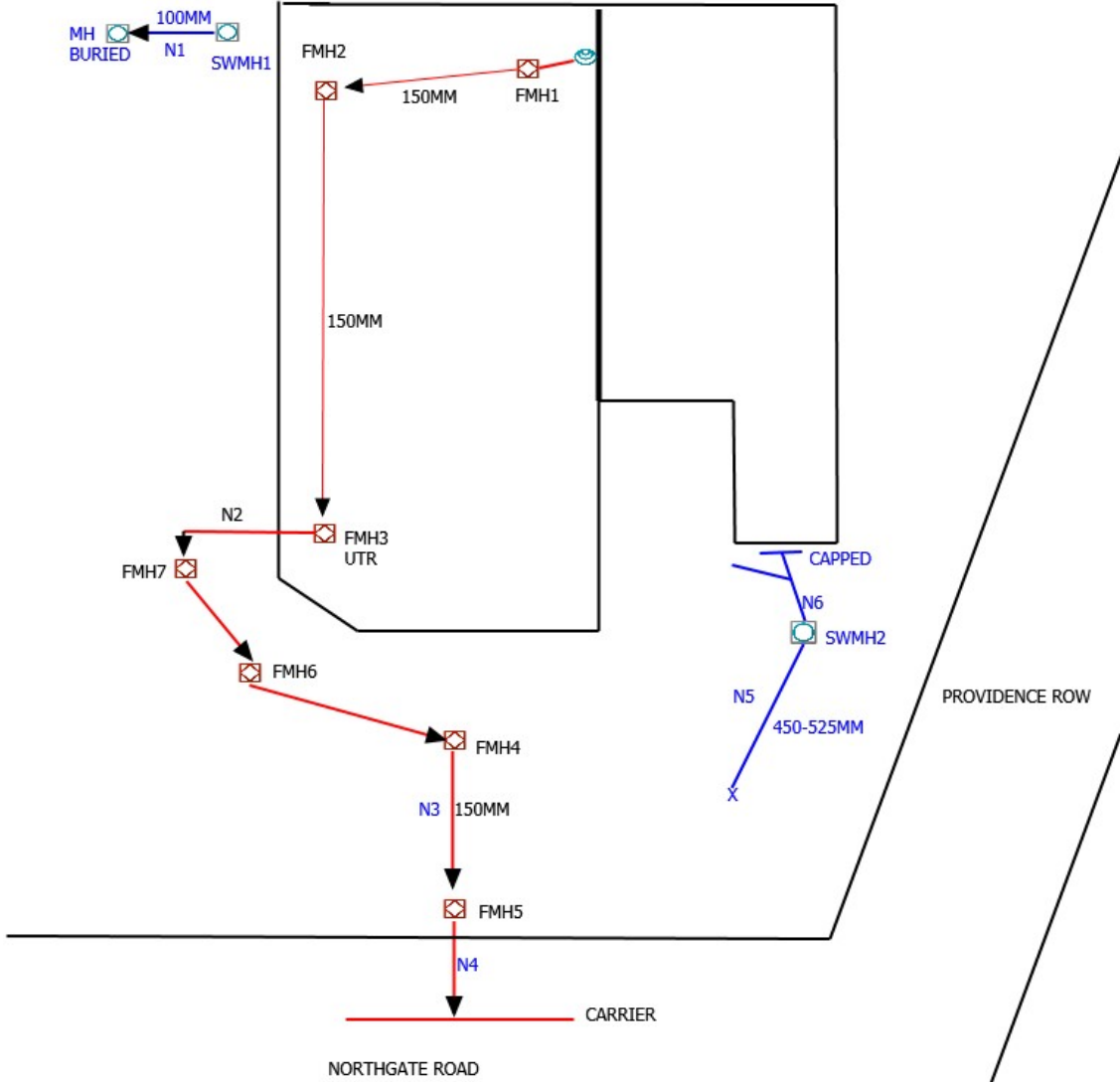
Contractor

Company: Lanes Group Plc
 Department: Operations
 Street: 17 Parkside Lane
 Town or City: Leeds
 County: WestYorkshire
 Post Code: LS11 0LB
 Phone: 01133858484
 Email: leeds.ops@lanesfordrains.co.uk



Project Information

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160	Client's Ref: C1703-17	Contractor's Ref: PJ00332160	Project Date: 26/04/2019
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Section Profile

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 - 26-04-19	Project Number:	Project Date: 26/04/2019
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Section No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length [m]	Inspected Length [m]
1	SMH1	NODE1	26/04/2019		Vitrified clay pipe	13.59	13.59

1 x Circular 100/100 = 13.59 Total Length [m] (13.59 Inspected Length [m])

Section No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length [m]	Inspected Length [m]
2	FHM1	FMH2	26/04/2019	NORTHGATE	Vitrified clay pipe	23.46	23.46
3	FMH2	FMH3	26/04/2019	NORTHGATE	Vitrified clay pipe	26.05	26.05
4	FMH3	NODE2	26/04/2019	NORTHGATE	Vitrified clay pipe	3.56	4.97
5	FMH4	NODE 3	26/04/2019	NORTHGATE	Vitrified clay pipe	16.85	16.85
6	FMH5	NODE 4	26/04/2019	NORTHGATE	Vitrified clay pipe	8.87	8.87
8	FMH6	FMH4	26/04/2019	NORTHGATE	Vitrified clay pipe	10.65	10.65
10	NODE 6	SMH 2	26/04/2019	NORTHGATE	Vitrified clay pipe	5.83	5.83

7 x Circular 150 = 95.27 Total Length [m] (96.68 Inspected Length [m])

Total: 8 = 108.86 Total Length [m] (110.27 Inspected Length [m])



Section Summary

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 - 26-04-19	Project Number:	Project Date: 26/04/2019
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Number of sections	10
Total length of sewer network	145.80 m
Inspected length of sewer network	147.21 m
Not inspected length of sewer network	0.00 m
Total abandoned inspections	2
Number of section inspection photos	47
Number of section inspection videos	10
Number of section inspection scans	0
Number of section inclination measurements	0



Section Summary

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 - 26-04-19	Project Number:	Project Date: 26/04/2019
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PLR: SMH1X	Upstream Node: SMH1
Town or Village:	Downstream Node: NODE1
Road:	Dia/Height [mm]: 100 mm
Total Length [m]: 13.59 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: SMH1
2	0.00	WL	Water level, 5% of the vertical dimension
3	13.18	LU	Line deviates up
4	13.59	MHF	Finish node type, manhole, reference number: NODE1

PLR: FHM1X	Upstream Node: FHM1
Town or Village: BAILDON	Downstream Node: FMH2
Road: NORTHGATE	Dia/Height [mm]: 150 mm
Total Length [m]: 23.46 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH2
2	0.00	WL	Water level, 5% of the vertical dimension
3	8.72	SW	Surface damage, increased roughness from 12 o'clock to 06 o'clock
4	21.79	DEE	Attached deposits, encrustation from 05 o'clock to 08 o'clock, 5% cross-sectional area loss
5	23.46	MHF	Finish node type, manhole, reference number: FHM1

PLR: FMH2X	Upstream Node: FMH2
Town or Village: BAILDON	Downstream Node: FMH3
Road: NORTHGATE	Dia/Height [mm]: 150 mm
Total Length [m]: 26.05 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH2
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.23	FM	Fractures, multiple from 12 o'clock to 12 o'clock
4	5.02	CL	Crack, longitudinal at 12 o'clock
5	13.92	CM	Cracks, multiple from 12 o'clock to 06 o'clock
6	13.92	RT	Roots, tap
7	16.73	RM	Roots, mass, 10% cross-sectional area loss
8	18.07	CL	Crack, longitudinal at 12 o'clock, start
9	18.81	CL	Crack, longitudinal at 12 o'clock, finish
10	19.61	CL	Crack, longitudinal at 12 o'clock
11	20.67	CL	Crack, longitudinal at 12 o'clock, start
12	21.25	CL	Crack, longitudinal at 12 o'clock, finish
13	26.05	MHF	Finish node type, manhole, reference number: FMH3

PLR: FMH3X	Upstream Node: FMH3
Town or Village: BAILDON	Downstream Node: NODE2
Road: NORTHGATE	Dia/Height [mm]: 150 mm
Total Length [m]: 3.56 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH3
2	0.00	WL	Water level, 5% of the vertical dimension



Section Summary

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No.	m+	Code	Observation
3	2.28	LL	Line deviates left
4	3.56	MHF	Finish node type, manhole, reference number: NODE2

PLR:	FMH4X	Upstream Node:	FMH4
Town or Village:	BAILDON	Downstream Node:	NODE 3
Road:	NORTHGATE	Dia/Height [mm]:	150 mm
Total Length [m]:	16.85 m	Pipe Material:	Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH4
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.10	FMJ	Fractures, multiple at joint from 09 o'clock to 12 o'clock
4	3.39	CL	Crack, longitudinal at 01 o'clock, start
5	3.78	CL	Crack, longitudinal at 1 o'clock, finish
6	3.78	JN	Junction at 12 o'clock, diameter: 150mm
7	5.86	FM	Fractures, multiple from 12 o'clock to 12 o'clock
8	6.74	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock
9	7.30	CMJ	Cracks, multiple at joint from 07 o'clock to 10 o'clock
10	8.71	CLJ	Crack, longitudinal at joint at 02 o'clock
11	9.11	CMJ	Cracks, multiple at joint from 11 o'clock to 04 o'clock
12	9.60	JN	Junction at 11 o'clock, diameter: 100mm
13	10.44	CMJ	Cracks, multiple at joint from 06 o'clock to 01 o'clock
14	10.67	CLJ	Crack, longitudinal at joint at 12 o'clock
15	11.31	FCJ	Fracture, circumferential at joint from 01 o'clock to 06 o'clock
16	11.68	CLJ	Crack, longitudinal at joint at 02 o'clock
17	12.60	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock
18	13.71	FMJ	Fractures, multiple at joint from 12 o'clock to 12 o'clock
19	14.45	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock
20	14.86	CLJ	Crack, longitudinal at joint at 12 o'clock
21	15.55	CLJ	Crack, longitudinal at joint at 12 o'clock
22	16.09	FMJ	Fractures, multiple at joint from 06 o'clock to 12 o'clock
23	16.85	MHF	Finish node type, manhole, reference number: NODE 3

PLR:	FMH5X	Upstream Node:	FMH5
Town or Village:	BAILDON	Downstream Node:	NODE 4
Road:	NORTHGATE	Dia/Height [mm]:	150 mm
Total Length [m]:	8.87 m	Pipe Material:	Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH5
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.19	CLJ	Crack, longitudinal at joint at 01 o'clock
4	3.06	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock
5	4.94	FM	Fractures, multiple from 03 o'clock to 09 o'clock
6	5.54	DEG	Attached deposits, grease from 03 o'clock to 09 o'clock, 10% cross-sectional area loss
7	8.87	MHF	Finish node type, manhole, reference number: NODE 4



Section Summary

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PLR: FMH7X	Upstream Node: FMH7
Town or Village: BAILDON	Downstream Node: FMH6
Road: NORTHGATE	Dia/Height [mm]: 150 mm
Total Length [m]: 11.76 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH6
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.10	CM	Cracks, multiple from 06 o'clock to 12 o'clock
4	3.33	JN	Junction at 01 o'clock, diameter: 100mm
5	6.84	JN	Junction at 03 o'clock, diameter: 100mm
6	8.05	JN	Junction at 01 o'clock, diameter: 100mm
7	8.25	JDM	Joint displaced, medium
8	10.16	JN	Junction at 02 o'clock, diameter: 100mm
9	11.75	DEF	Attached deposits, fouling from 02 o'clock to 10 o'clock, 75% cross-sectional area loss
10	11.76	SA	Survey abandoned

PLR: FMH6X	Upstream Node: FMH6
Town or Village: BAILDON	Downstream Node: FMH4
Road: NORTHGATE	Dia/Height [mm]: 150 mm
Total Length [m]: 10.65 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: FMH6
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.46	WL	Water level, 25% of the vertical dimension
4	5.27	JDM	Joint displaced, medium
5	10.46	LD	Line deviates down
6	10.65	MHF	Finish node type, manhole, reference number: FMH4

PLR: SHM2X	Upstream Node: SHM2
Town or Village: BAILDON	Downstream Node: NODE 5
Road: NORTHGATE	Dia/Height [mm]: 525 mm
Total Length [m]: 25.18 m	Pipe Material: Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: SHM2
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.97	CLJ	Crack, longitudinal at joint at 12 o'clock
4	3.31	CL	Crack, longitudinal at 12 o'clock
5	5.31	CCJ	Crack, circumferential at joint from 03 o'clock to 05 o'clock
6	13.42	CM	Cracks, multiple from 12 o'clock to 12 o'clock, start
7	15.02	CM	Cracks, multiple from 12 o'clock to 12 o'clock, finish
8	15.97	CLJ	Crack, longitudinal at joint at 02 o'clock
9	19.82	CM	Cracks, multiple from 12 o'clock to 12 o'clock, start
10	22.24	H	Hole in drain or sewer from 11 o'clock to 01 o'clock
11	25.17	DEX	Settled deposits, other, 15% cross-sectional area loss
12	25.17	CM	Cracks, multiple from 12 o'clock to 12 o'clock, finish
13	25.18	SA	Survey abandoned



Section Summary

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PLR:	NODE 6X	Upstream Node:	NODE 6
Town or Village:	BAILDON	Downstream Node:	SMH 2
Road:	NORTHGATE	Dia/Height [mm]:	150 mm
Total Length [m]:	5.83 m	Pipe Material:	Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: SMH 2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.78	LR	Line deviates right
4	1.53	JDL	Joint displaced, large
5	2.29	JDM	Joint displaced, medium
6	3.88	JDL	Joint displaced, large
7	4.65	JDM	Joint displaced, medium
8	5.83	MHF	Finish node type, manhole, reference number: NODE 6

Project Summary

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 - 26-04-19	Project Number:	Project Start Date: 26/04/2019 10:57:32
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Section Summary

Sect. No.	PLR	Upstream Node	Downstream Node	Road	Town	Type	Use	Mat.	Profile	Length
1	SMH1X	SMH1	NODE1			SEC	S	VC	Circular 100mm	13.59 m
2	FHM1X	FHM1	FMH2	Northgate	BAILDON	SEC	F	VC	Circular 150mm	23.46 m
3	FMH2X	FMH2	FMH3	Northgate	BAILDON	SEC	F	VC	Circular 150mm	26.05 m
4	FMH3X	FMH3	NODE2	Northgate	BAILDON	SEC	F	VC	Circular 150mm	3.56 m
5	FMH4X	FMH4	NODE 3	Northgate	BAILDON	SEC	F	VC	Circular 150mm	16.85 m
6	FMH5X	FMH5	NODE 4	Northgate	BAILDON	SEC	F	VC	Circular 150mm	8.87 m
7	FMH7X	FMH7	FMH6	Northgate	BAILDON	SEC	F	VC	Circular 150mm	11.76 m
8	FMH6X	FMH6	FMH4	Northgate	BAILDON	SEC	F	VC	Circular 150mm	10.65 m
9	SHM2X	SHM2	NODE 5	Northgate	BAILDON	SEC	S	VC	Circular 525mm	25.18 m
10	NODE 6X	NODE 6	SMH 2	Northgate	BAILDON	SEC	S	VC	Circular 150mm	5.83 m
Total:										145.80 m

Section Levels

Sect. No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	SMH1X	SMH1			2.500 m	NODE1			0.000 m
2	FHM1X	FHM1			1.000 m	FMH2			1.500 m
3	FMH2X	FMH2			1.500 m	FMH3			1.800 m
4	FMH3X	FMH3			1.800 m	NODE2			0.000 m
5	FMH4X	FMH4			1.500 m	NODE 3			0.000 m
6	FMH5X	FMH5			1.500 m	NODE 4			0.000 m
7	FMH7X	FMH7			1.000 m	FMH6			1.100 m
8	FMH6X	FMH6			1.000 m	FMH4			1.500 m
9	SHM2X	SHM2			2.400 m	NODE 5			0.000 m
10	NODE 6X	NODE 6			0.000 m	SMH 2			0.000 m

Project Summary

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Section Summary by Profile

Profile	Total Length	No. Sections
Circular 100mm =	13.6 m	1
Circular 150mm =	107.0 m	8
Circular 525mm =	25.2 m	1
Total =	145.8 m	10

Inspection Summary

Sect. No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	SMH1	NODE1	US	Mark Baker	26/04/2019	11:07	1	1	MHF	13.59 m
2	1	FHM1	FMH2	US	Mark Baker	26/04/2019	11:40	3	2	MHF	23.46 m
3	1	FMH2	FMH3	US	Mark Baker	26/04/2019	11:54	4	4	MHF	26.05 m
4	1	FMH3	NODE2	US	Mark Baker	26/04/2019	12:09	1	1	MHF	4.97 m
5	1	FMH4	NODE 3	US	Mark Baker	26/04/2019	13:07	2	4	MHF, FHM5	16.85 m
6	1	FMH5	NODE 4	US	Mark Baker	26/04/2019	13:30	4	4	MHF, CARRIER	8.87 m
7	1	FMH7	FMH6	US	Mark Baker	26/04/2019	13:38	4	3	SA, UNABLE TO SEE DUE TO FOUL BUILD UP	11.76 m
8	1	FMH6	FMH4	US	Mark Baker	26/04/2019	13:45	3	1	MHF	10.65 m
9	1	SHM2	NODE 5	US	Mark Baker	26/04/2019	14:16	4	4	SA, UNABLE TO PASS STONE IN LINE	25.18 m
10	1	NODE 6	SMH 2	US	Mark Baker	26/04/2019	14:39	4	1	MHF, CAPPED OFF	5.83 m
Total:											147.21 m

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 100mm =	13.6 m	1
Circular 150mm =	108.4 m	8
Circular 525mm =	25.2 m	1
Total =	147.2 m	10

Project Summary

Project Name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 - 26-04-19	Project Number:	Project Start Date: 26/04/2019 10:57:32
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Defect Summary				CCTV Drainage Survey Observation Count																				
				General				Structural Condition							Service Condition									
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	SMH1	NODE1	13.6																			1	1
2	1	FHM1	FMH2	23.5										1					1				1	
3	1	FMH2	FMH3	26.1	2			7	1								2						1	
4	1	FMH3	NODE2	5.0																			1	1
5	1	FMH4	NODE 3	16.9	4			13	5														1	
6	1	FMH5	NODE 4	8.9	2			2	1												1		1	
7	1	FMH7	FMH6	11.8		1		1															1	
8	1	FMH6	FMH4	10.7																			2	1
9	1	SHM2	NODE 5	25.2	1	1		8					1										1	
10	1	NODE 6	SMH 2	5.8	2										2								1	1
Total:				147.2	11	2		31	7				1	1	2		2		1		1		11	4

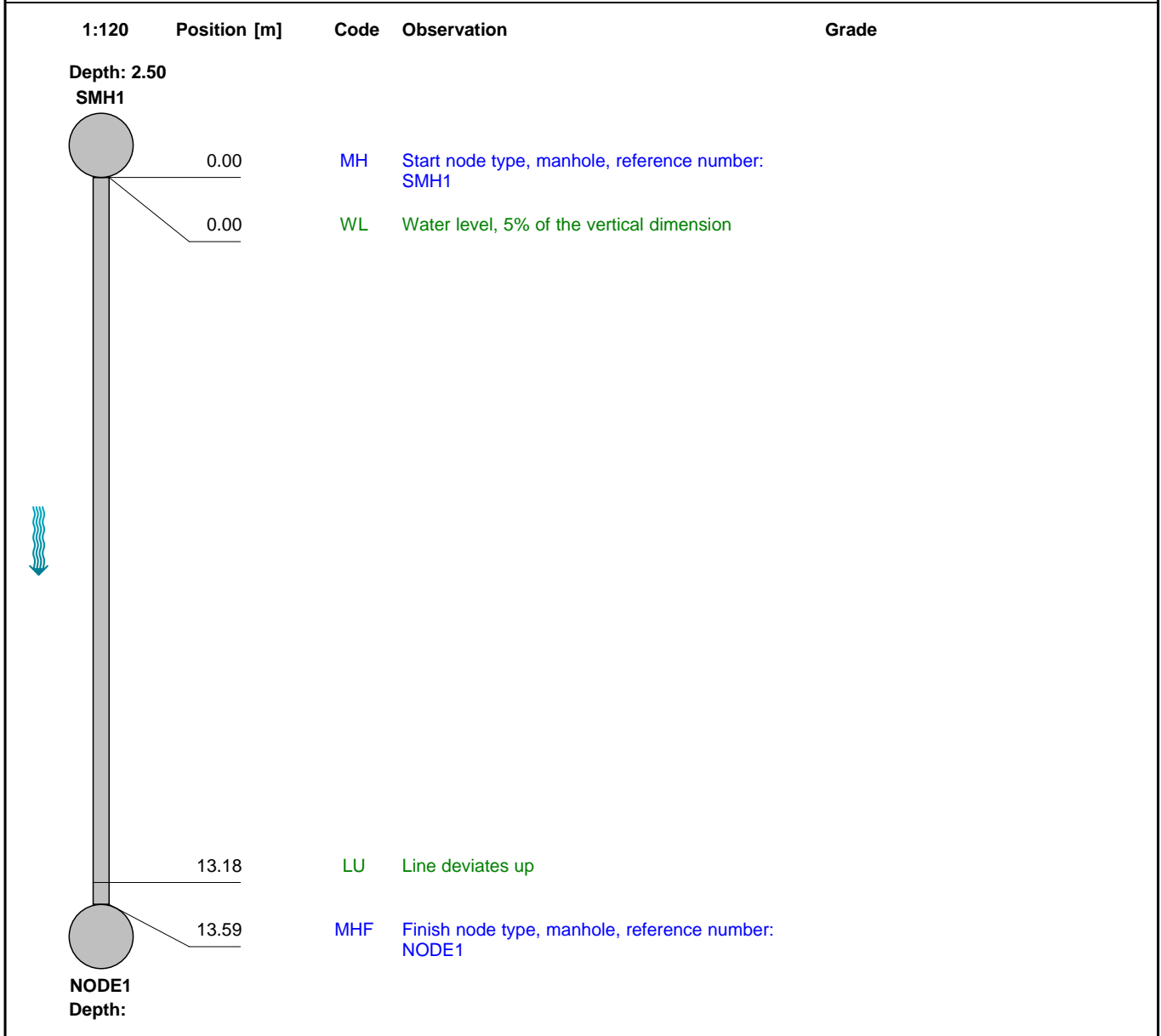


Section Inspection - 26/04/2019 - SMH1X

Section: 1	Inspection: 1	Date: 26/04/19	Time: 11:07	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: SMH1X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village:	Insp Dir: SMH1 >> NODE1	US MH: SMH1
Road:	Inspected Length: 13.59 m	US Depth: 2.500 m
Location:	Total Length: 13.59 m	DS MH: NODE1
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:
Use: Surface water	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 100 mm 100 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	

Comment:
 Recommendation:



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

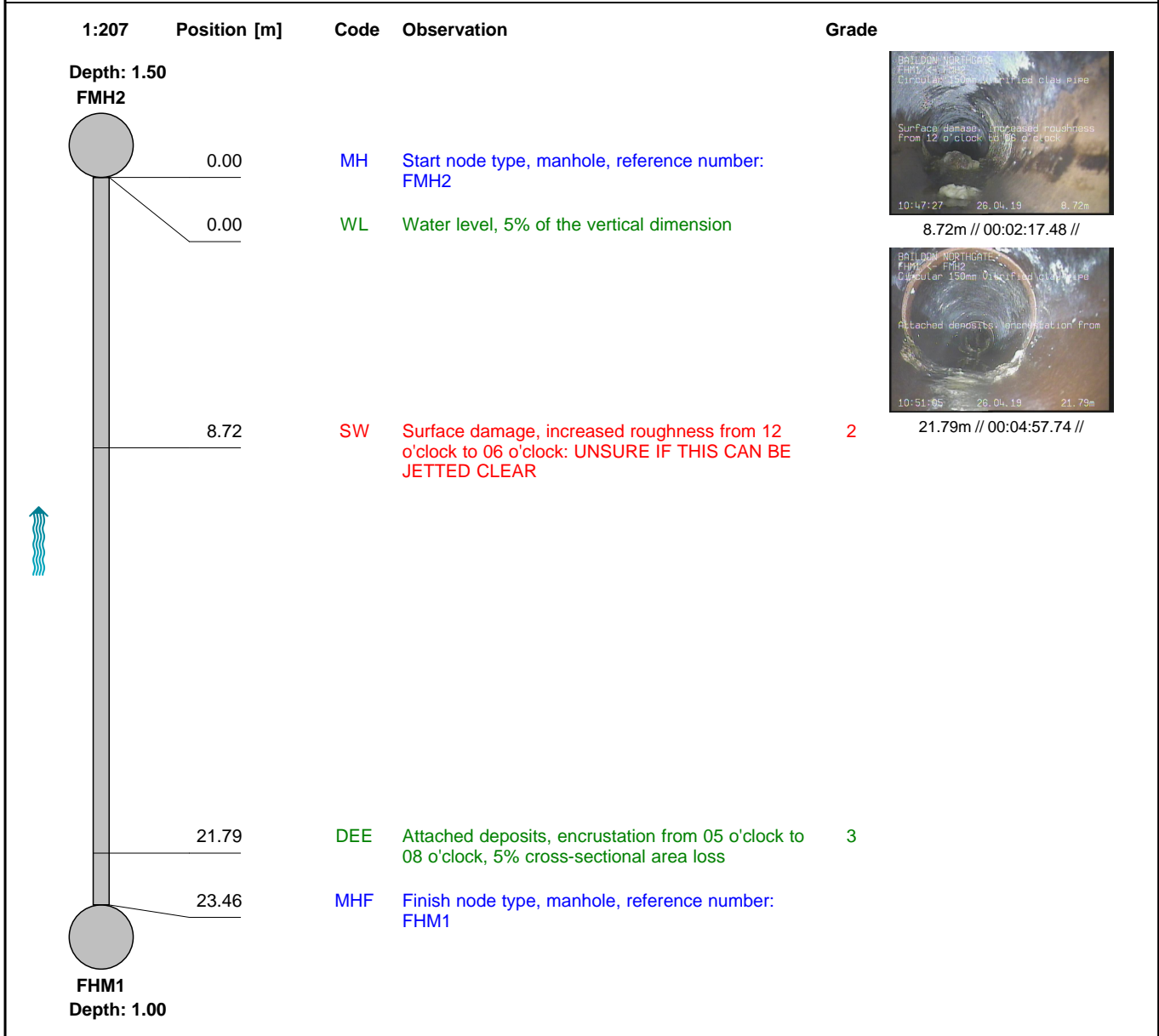


Section Inspection - 26/04/2019 - FHM1X

Section: 2	Inspection: 2	Date: 26/04/19	Time: 11:40	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FHM1X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: FMH2 << FHM1	US MH: FHM1
Road: Northgate	Inspected Length: 23.46 m	US Depth: 1.000 m
Location: Under a permanent building	Total Length: 23.46 m	DS MH: FMH2
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth: 1.500 m
Use: Foul	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	

Comment:
 Recommendation:



Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	0.4	10.0	2.0	1	2.0	0.1	2.0	3.0



Section Pictures - 26/04/2019 - FHM1X

Section Number: 2	Inspection Direction: FMH2 << FHM1	PLR: FHM1X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FHM1X_da6e11aa-340a-490b-9029-361575704d35_20190426_114731_845.jpg, 00:02:17, 8.72m
 Surface damage, increased roughness from 12 o'clock to 06 o'clock



FHM1X_e696a407-eba3-42f9-9374-6ce6d4706b81_20190426_115110_459.jpg, 00:04:57, 21.79m
 Attached deposits, encrustation from 05 o'clock to 08 o'clock, 5% cross-sectional area loss



Section Inspection - 26/04/2019 - FMH2X

Section: 3	Inspection: 3	Date: 26/04/19	Time: 11:54	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH2X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: FMH2 >> FMH3	US MH: FMH2
Road: Northgate	Inspected Length: 26.05 m	US Depth: 1.500 m
Location: Under a permanent building	Total Length: 26.05 m	DS MH: FMH3
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth: 1.800 m

Use: Foul	Pipe Shape: Circular
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm
Year Constructed:	Pipe Material: Vitrified clay pipe
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None
Flow Control: No flow control	Lining Material: None

Comment:
 Recommendation:

1:230	Position [m]	Code	Observation	Grade
Depth: 1.50 FMH2				
	0.00	MH	Start node type, manhole, reference number: FMH2	
	0.00	WL	Water level, 5% of the vertical dimension	
	4.23	FM	Fractures, multiple from 12 o'clock to 12 o'clock	4
	5.02	CL	Crack, longitudinal at 12 o'clock	2
	13.92	CM	Cracks, multiple from 12 o'clock to 06 o'clock	3
	13.92	RT	Roots, tap	4
	16.73	RM	Roots, mass, 10% cross-sectional area loss	3
	18.07	S01	Crack, longitudinal at 12 o'clock, start	
	18.81	F01	Crack, longitudinal at 12 o'clock, finish: TURNS INTO A FRACTURE	2
	19.61	CL	Crack, longitudinal at 12 o'clock	2
	20.67	S02	Crack, longitudinal at 12 o'clock, start	
	21.25	F02	Crack, longitudinal at 12 o'clock, finish	2
	26.05	MHF	Finish node type, manhole, reference number: FMH3	
FMH3 Depth: 1.80				



Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
6	80.0	6.1	160.0	4.0	8	6.0	0.6	15.0	4.0



Section Pictures - 26/04/2019 - FMH2X

Section Number: 3	Inspection Direction: FMH2 >> FMH3	PLR: FMH2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH2X_e441ac73-54a0-4fd0-aa70-d03f2ddc3234_20190426_115923_522.jpg, 00:01:51, 4.23m
 Fractures, multiple from 12 o'clock to 12 o'clock



FMH2X_fed6c56c-b69e-404e-a153-260b08a9bd37_20190426_120011_601.jpg, 00:02:19, 5.02m
 Crack, longitudinal at 12 o'clock



FMH2X_3a386f54-5308-447b-b41d-55cf66ec0d0f_20190426_120210_609.jpg, 00:04:02, 13.92m
 Cracks, multiple from 12 o'clock to 06 o'clock



FMH2X_3c1a41a3-a071-49c4-a04a-8a790094ce7b_20190426_120217_308.jpg, 00:04:05, 13.92m
 Roots, tap



Section Pictures - 26/04/2019 - FMH2X

Section Number: 3	Inspection Direction: FMH2 >> FMH3	PLR: FMH2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH2X_5ccfeccc-0854-4eea-b5c7-b669a8242c0c_20190426_120307_092.jpg, 00:04:46, 16.73m
 Roots, mass, 10% cross-sectional area loss



FMH2X_9bb14d8b-ff7f-440a-94cd-94cb75ddfedf_20190426_120412_187.jpg, 00:05:36, 18.07m
 Crack, longitudinal at 12 o'clock, start



FMH2X_071e6193-0d9f-4261-ba4c-99cdd0e711f2_20190426_120449_518.jpg, 00:06:00, 18.81m
 Crack, longitudinal at 12 o'clock, finish



FMH2X_ef0ce60b-3d71-431e-92f8-2f758fc0a796_20190426_120517_313.jpg, 00:06:17, 19.61m
 Crack, longitudinal at 12 o'clock



Section Pictures - 26/04/2019 - FMH2X

Section Number: 3	Inspection Direction: FMH2 >> FMH3	PLR: FMH2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH2X_dfac9445-7789-42f9-9c93-5412efc5cae5_20190426_120545_917.jpg, 00:06:37, 20.67m
Crack, longitudinal at 12 o'clock, start



FMH2X_9ed07a0f-87b0-44cc-8256-ec9a3b873836_20190426_120606_383.jpg, 00:06:52, 21.25m
Crack, longitudinal at 12 o'clock, finish



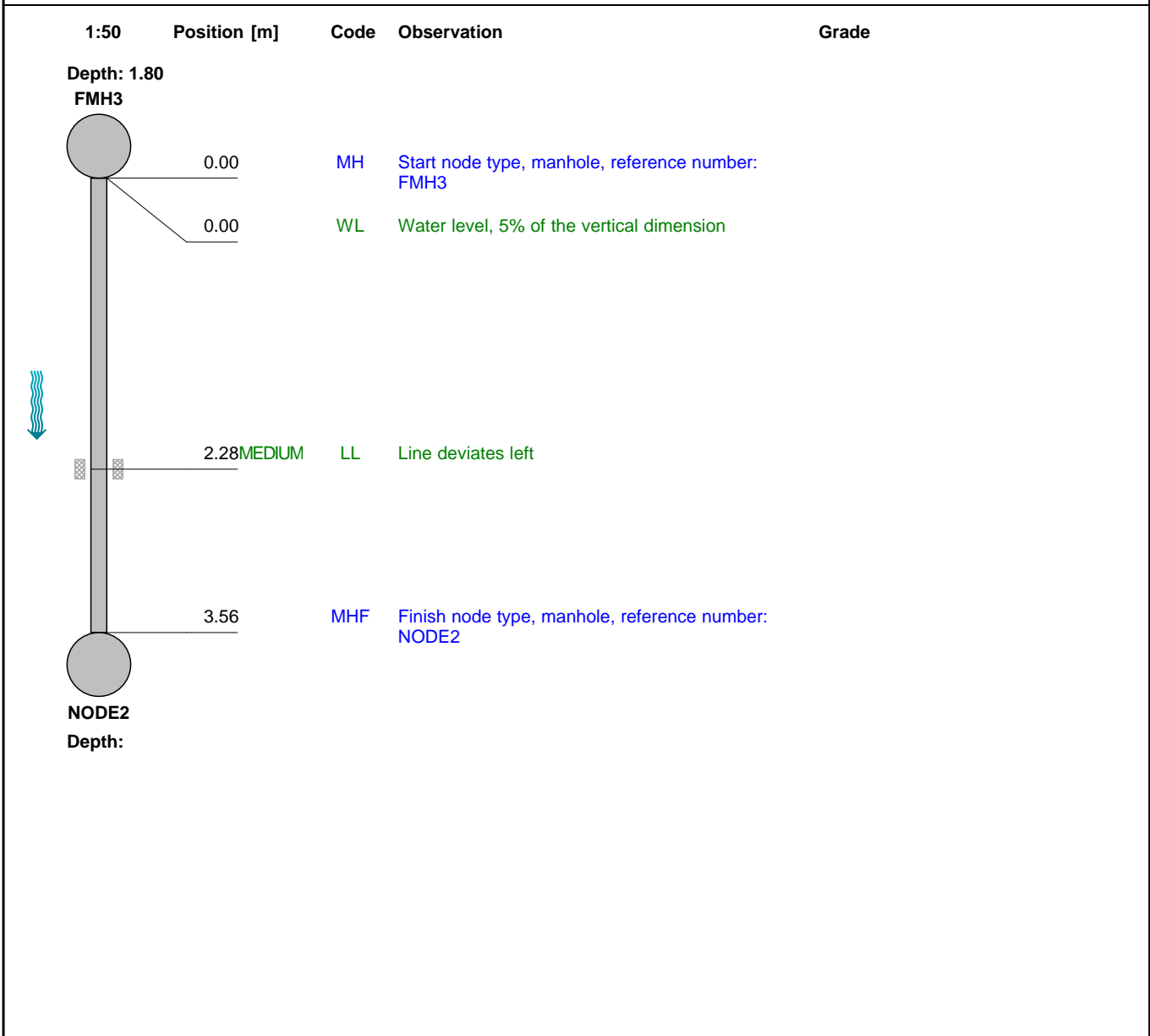
Section Inspection - 26/04/2019 - FMH3X

Section: 4	Inspection: 4	Date: 26/04/19	Time: 12:09	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH3X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: FMH3 >> NODE2	US MH: FMH3
Road: Northgate	Inspected Length: 4.97 m	US Depth: 1.800 m
Location: Under a permanent building	Total Length: 3.56 m	DS MH: NODE2
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:

Use: Foul	Pipe Shape: Circular
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm
Year Constructed:	Pipe Material: Vitrified clay pipe
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None
Flow Control: No flow control	Lining Material: None

Comment: **OUTFALLS INTO FMH7**
 Recommendation:



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








Section Inspection - 26/04/2019 - FMH4X

Section: 5	Inspection: 5	Date: 26/04/19	Time: 13:07	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH4X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BILDON	Insp Dir: FMH4 >> NODE 3	US MH: FMH4
Road: Northgate	Inspected Length: 16.85 m	US Depth: 1.500 m
Location: Property with buildings	Total Length: 16.85 m	DS MH: NODE 3
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:
Use: Foul	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	

Comment:
 Recommendation:

1:102	Position [m]	Code	Observation	Grade	
	0.00	MH	Start node type, manhole, reference number: FMH4		
	0.00	WL	Water level, 5% of the vertical dimension		
	0.10	FMJ	Fractures, multiple at joint from 09 o'clock to 12 o'clock	4	0.10m // 00:00:12.82 //
	3.39	S01	Crack, longitudinal at 01 o'clock, start		
	3.78	F01	Crack, longitudinal at 1 o'clock, finish	2	
	3.78	JN	Junction at 12 o'clock, diameter: 150mm		5.86m // 00:01:23.94 //
	5.86	FM	Fractures, multiple from 12 o'clock to 12 o'clock	4	
	6.74	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock	3	
	7.30	CMJ	Cracks, multiple at joint from 07 o'clock to 10 o'clock	3	6.74m // 00:01:36.20 //
	8.71	CLJ	Crack, longitudinal at joint at 02 o'clock	2	
	9.11	CMJ	Cracks, multiple at joint from 11 o'clock to 04 o'clock	3	
	9.60	JN	Junction at 11 o'clock, diameter: 100mm		7.30m // 00:01:47.00 //
	10.44	CMJ	Cracks, multiple at joint from 06 o'clock to 01 o'clock	3	
	10.67	CLJ	Crack, longitudinal at joint at 12 o'clock	2	
	11.31	FCJ	Fracture, circumferential at joint from 01 o'clock to 06 o'clock	3	8.71m // 00:02:02.29 //



Section Inspection - 26/04/2019 - FMH4X

Section: 5	Inspection: 5	Date: 26/04/19	Time: 13:07	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH4X
Operator: Mark Baker		Vehicle: PL17 TKK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Recommendation:

1:102	Position [m]	Code	Observation	Grade
	11.68	CLJ	Crack, longitudinal at joint at 02 o'clock	2
	12.60	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock	3
	13.71	FMJ	Fractures, multiple at joint from 12 o'clock to 12 o'clock	4
	14.45	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	2
	14.86	CLJ	Crack, longitudinal at joint at 12 o'clock	2
	15.55	CLJ	Crack, longitudinal at joint at 12 o'clock	2
	16.09	FMJ	Fractures, multiple at joint from 06 o'clock to 12 o'clock	4
	16.85	MHF	Finish node type, manhole, reference number: NODE 3: FHM5	

NODE 3

Depth:

Structural Defects

Construction Features

Service & Operational Observations

Miscellaneous Features

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
17	80.0	37.4	630.0	4.0	17	1.0	1.0	17.0	2.0



Section Pictures - 26/04/2019 - FMH4X

Section Number: 5	Inspection Direction: FMH4 >> NODE 3	PLR: FMH4X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH4X_b51d49de-b6f7-40d0-9670-62a95d0827c4_20190426_132148_197.jpg, 00:00:12, 0.10m
 Fractures, multiple at joint from 09 o'clock to 12 o'clock



FMH4X_4481a01b-925b-4542-8f02-356f730d7c44_20190426_132339_203.jpg, 00:01:23, 5.86m
 Fractures, multiple from 12 o'clock to 12 o'clock



FMH4X_8f6b01eb-ef32-444e-8954-16e455c3c3d2_20190426_132358_283.jpg, 00:01:36, 6.74m
 Cracks, multiple at joint from 12 o'clock to 12 o'clock



FMH4X_d089155c-a662-418a-8793-6fc2c406b2af_20190426_132419_552.jpg, 00:01:47, 7.30m
 Cracks, multiple at joint from 07 o'clock to 10 o'clock



Section Pictures - 26/04/2019 - FMH4X

Section Number: 5	Inspection Direction: FMH4 >> NODE 3	PLR: FMH4X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH4X_c9c2f2c7-15d8-4bd2-8e2d-85815f63d5a1_20190426_132440_823.jpg, 00:02:02, 8.71m
 Crack, longitudinal at joint at 02 o'clock



FMH4X_572d9478-faec-4a76-a82a-f8f6e0bfd02f_20190426_132500_617.jpg, 00:02:11, 9.11m
 Cracks, multiple at joint from 11 o'clock to 04 o'clock



FMH4X_b5e1c4cf-d5b9-4ecb-b6c5-60dc9ea2eb7d_20190426_132538_882.jpg, 00:02:33, 10.44m
 Cracks, multiple at joint from 06 o'clock to 01 o'clock



FMH4X_37f6b874-9d80-4475-bc17-4a5e625a9776_20190426_132553_689.jpg, 00:02:42, 10.67m
 Crack, longitudinal at joint at 12 o'clock



Section Pictures - 26/04/2019 - FMH4X

Section Number: 5	Inspection Direction: FMH4 >> NODE 3	PLR: FMH4X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH4X_078ea355-74d4-4c82-aa47-65076ffb2622_20190426_132634_287.jpg, 00:03:03, 11.31m
Fracture, circumferential at joint from 01 o'clock to 06 o'clock



FMH4X_7ddf25d9-c04a-46e7-88d6-8f996d0a5c22_20190426_132656_057.jpg, 00:03:16, 11.68m
Crack, longitudinal at joint at 02 o'clock



FMH4X_37a5d84a-854c-404b-a321-1172a2489fd6_20190426_132713_349.jpg, 00:03:26, 12.60m
Cracks, multiple at joint from 12 o'clock to 12 o'clock



FMH4X_836c0e56-3f37-43fa-bdf4-4936ccdd71c1_20190426_132754_154.jpg, 00:03:55, 13.71m
Fractures, multiple at joint from 12 o'clock to 12 o'clock



Section Pictures - 26/04/2019 - FMH4X

Section Number: 5	Inspection Direction: FMH4 >> NODE 3	PLR: FMH4X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH4X_856a3b63-4c27-4a91-95e7-18b0a7d1567e_20190426_132821_789.jpg, 00:04:14, 14.45m
 Crack, circumferential at joint from 12 o'clock to 12 o'clock



FMH4X_94a441cb-1ccb-48af-b4db-29b1968e9864_20190426_132842_470.jpg, 00:04:27, 14.86m
 Crack, longitudinal at joint at 12 o'clock



FMH4X_5c6cca82-9a4d-47a1-baeb-070ccae904a1_20190426_132902_294.jpg, 00:04:41, 15.55m
 Crack, longitudinal at joint at 12 o'clock



FMH4X_f9ab6ddc-9c77-48c3-b4e5-4af9b806b68f_20190426_132923_052.jpg, 00:04:53, 16.09m
 Fractures, multiple at joint from 06 o'clock to 12 o'clock



Section Inspection - 26/04/2019 - FMH5X

Section: 6	Inspection: 6	Date: 26/04/19	Time: 13:30	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH5X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: FMH5 >> NODE 4	US MH: FMH5
Road: Northgate	Inspected Length: 8.87 m	US Depth: 1.500 m
Location: Property with buildings	Total Length: 8.87 m	DS MH: NODE 4
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:
Use: Foul	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	

Comment:
 Recommendation:

1:79	Position [m]	Code	Observation	Grade
	Depth: 1.50			
	FMH5			
	0.00	MH	Start node type, manhole, reference number: FMH5	
	0.00	WL	Water level, 5% of the vertical dimension	
	1.19	CLJ	Crack, longitudinal at joint at 01 o'clock	2
	3.06	CMJ	Cracks, multiple at joint from 12 o'clock to 12 o'clock	3
	4.94	FM	Fractures, multiple from 03 o'clock to 09 o'clock	4
	5.54	DEG	Attached deposits, grease from 03 o'clock to 09 o'clock, 10% cross-sectional area loss	4
	8.87	MHF	Finish node type, manhole, reference number: NODE 4: CARRIER	
	NODE 4			
	Depth:			



Structural Defects

Service & Operational Observations

Construction Features

Miscellaneous Features

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	80.0	14.7	130.0	4.0	4	5.0	0.9	8.0	4.0



Section Pictures - 26/04/2019 - FMH5X

Section Number: 6	Inspection Direction: FMH5 >> NODE 4	PLR: FMH5X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH5X_6d62e0e6-e35b-4c66-8896-8f3e35199cab_20190426_133304_557.jpg, 00:00:37, 1.19m
 Crack, longitudinal at joint at 01 o'clock



FMH5X_8c712ea2-c648-4554-b87e-865940ebdf75_20190426_133353_669.jpg, 00:01:13, 3.06m
 Cracks, multiple at joint from 12 o'clock to 12 o'clock



FMH5X_05e85977-87fd-4c18-97dc-d1236d17314d_20190426_133430_527.jpg, 00:01:41, 4.94m
 Fractures, multiple from 03 o'clock to 09 o'clock



FMH5X_481421fb-d2cb-4509-8f93-f3d2439639d6_20190426_133500_046.jpg, 00:01:54, 5.54m
 Attached deposits, grease from 03 o'clock to 09 o'clock, 10% cross-sectional area loss



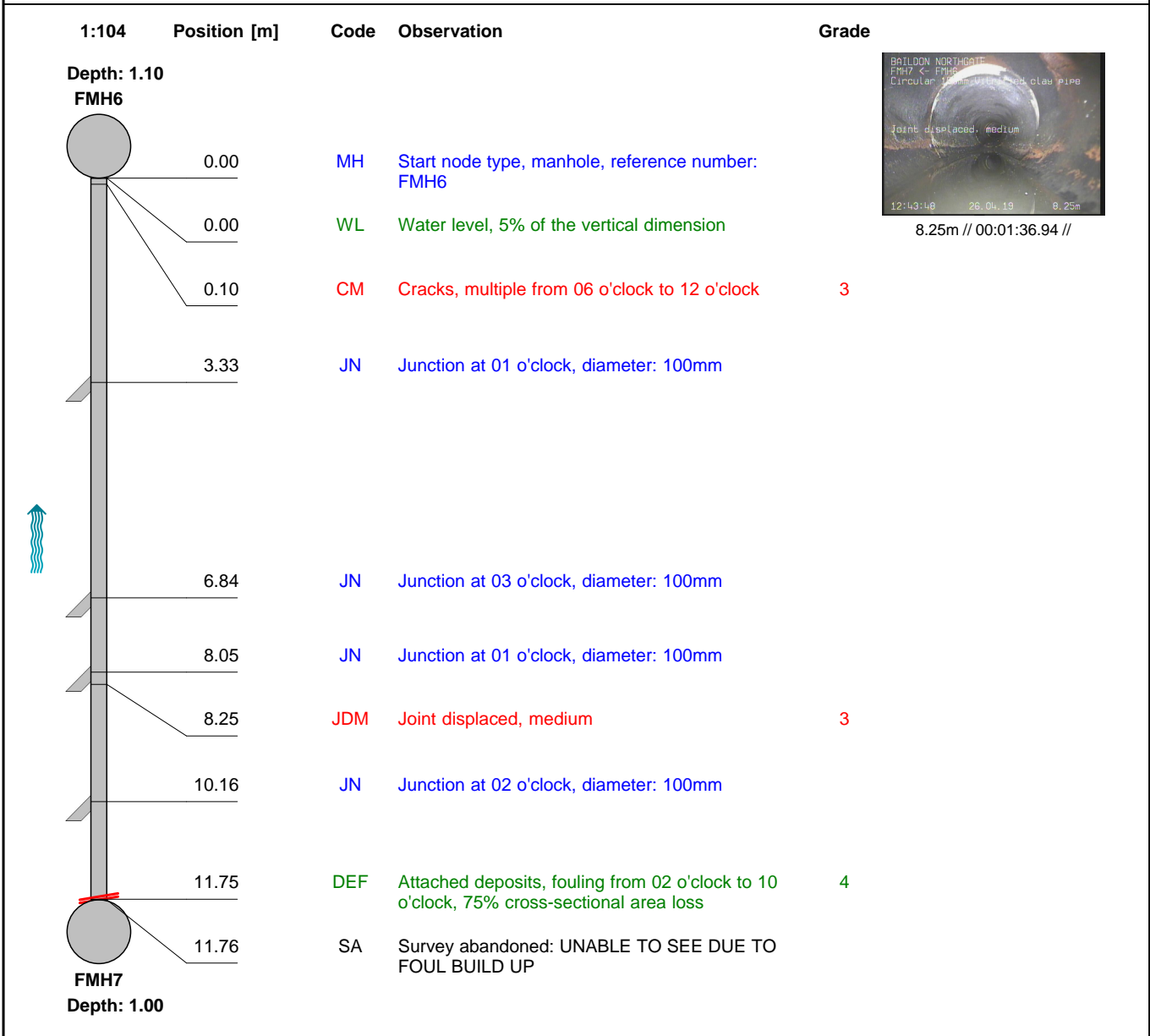
Section Inspection - 26/04/2019 - FMH7X

Section: 7	Inspection: 7	Date: 26/04/19	Time: 13:38	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH7X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BILDON	Insp Dir: FMH6 << FMH7	US MH: FMH7
Road: Northgate	Inspected Length: 11.76 m	US Depth: 1.000 m
Location: Under a permanent building	Total Length: 11.76 m	DS MH: FMH6
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth: 1.100 m

Use: Foul	Pipe Shape: Circular
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm
Year Constructed:	Pipe Material: Vitrified clay pipe
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None
Flow Control: No flow control	Lining Material: None

Comment:
 Recommendation:



Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	40.0	41.0	41.0	3.0	3	5.0	8.0	8.0	4.0



Section Pictures - 26/04/2019 - FMH7X

Section Number: 7	Inspection Direction: FMH6 << FMH7	PLR: FMH7X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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FMH7X_773b61af-2212-40eb-8553-b481a60c6293_20190426_134353_603.jpg, 00:01:36, 8.25m
Joint displaced, medium



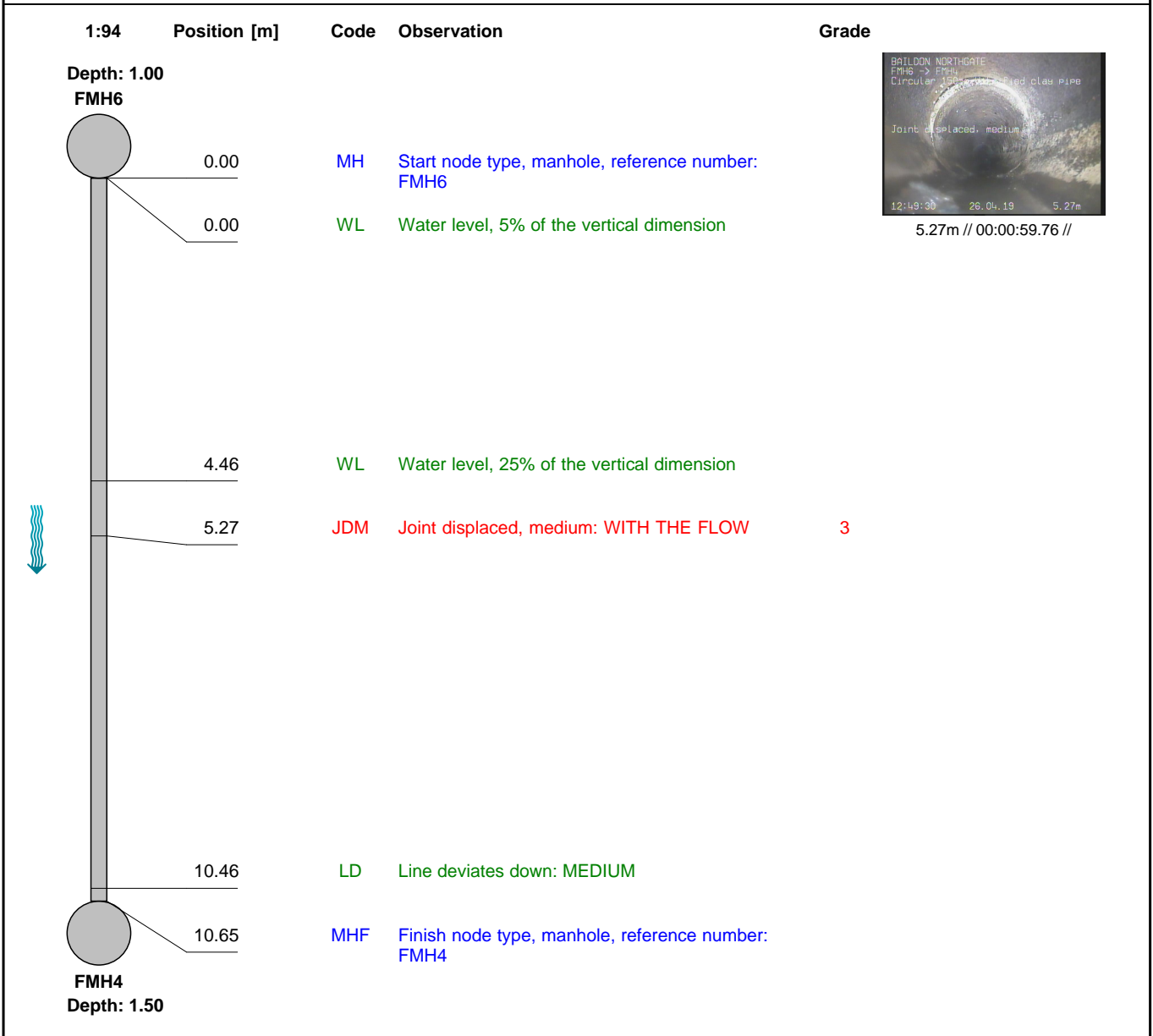
Section Inspection - 26/04/2019 - FMH6X

Section: 8	Inspection: 8	Date: 26/04/19	Time: 13:45	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: FMH6X
Operator: Mark Baker		Vehicle: PL17 TKK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: FMH6 >> FMH4	US MH: FMH6
Road: Northgate	Inspected Length: 10.65 m	US Depth: 1.000 m
Location: Under a permanent building	Total Length: 10.65 m	DS MH: FMH4
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth: 1.500 m

Use: Foul	Pipe Shape: Circular
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm
Year Constructed:	Pipe Material: Vitrified clay pipe
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None
Flow Control: No flow control	Lining Material: None

Comment:
 Recommendation:



5.27m // 00:00:59.76 //

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



Section Pictures - 26/04/2019 - FMH6X

Section Number: 8	Inspection Direction: FMH6 >> FMH4	PLR: FMH6X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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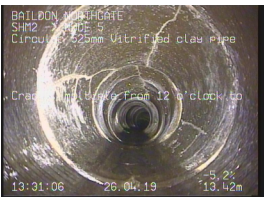

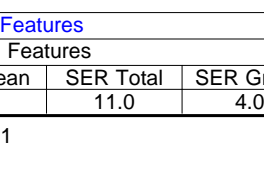

FMH6X_73c610c7-1ed0-4ca8-bae9-efec823b5e9a_20190426
_134935_867.jpg, 00:00:59, 5.27m
Joint displaced, medium



Section Inspection - 26/04/2019 - SHM2X

Section: 9	Inspection: 9	Date: 26/04/19	Time: 14:16	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: SHM2X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Crawler	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BILDON	Insp Dir: SHM2 >> NODE 5	US MH: SHM2
Road: Northgate	Inspected Length: 25.18 m	US Depth: 2.400 m
Location: Under a permanent building	Total Length: 25.18 m	DS MH: NODE 5
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:
Use: Surface water	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 525 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	
Comment: NOT 100% SURE WITH THE PIPE SIZE		
Recommendation:		

1:222	Position [m]	Code	Observation	Grade	
	Depth: 2.40 SHM2				
	0.00	MH	Start node type, manhole, reference number: SHM2		
	0.00	WL	Water level, 5% of the vertical dimension		1.97m // 00:00:33.52 //
	1.97	CLJ	Crack, longitudinal at joint at 12 o'clock	2	
	3.31	CL	Crack, longitudinal at 12 o'clock	2	
	5.31	CCJ	Crack, circumferential at joint from 03 o'clock to 05 o'clock	2	
	13.42	S01	Cracks, multiple from 12 o'clock to 12 o'clock, start		
	15.02	F01	Cracks, multiple from 12 o'clock to 12 o'clock, finish	3	
	15.97	CLJ	Crack, longitudinal at joint at 02 o'clock	2	
	19.82	S02	Cracks, multiple from 12 o'clock to 12 o'clock, start		
	22.24	H	Hole in drain or sewer from 11 o'clock to 01 o'clock	4	
	25.17	DEX	Settled deposits, other, 15% cross-sectional area loss: LARGE STONE	4	
	25.17	F02	Cracks, multiple from 12 o'clock to 12 o'clock, finish	3	
	25.18	SA	Survey abandoned: UNABLE TO PASS STONE IN LINE		
	NODE 5 Depth:				

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
7	80.0	200.0	200.0	4.0	7	5.0	11.0	11.0	4.0



Section Pictures - 26/04/2019 - SHM2X

Section Number: 9	Inspection Direction: SHM2 >> NODE 5	PLR: SHM2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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SHM2X_b39c3297-7e97-4427-a986-ace9cd0ff24_20190426_142811_657.jpg, 00:00:33, 1.97m
 Crack, longitudinal at joint at 12 o'clock



SHM2X_74e081c4-76cd-4b14-bffb-17f9eee899d6_20190426_142842_223.jpg, 00:00:54, 3.31m
 Crack, longitudinal at 12 o'clock



SHM2X_bdb853b0-9749-4c59-b2c0-6666ebbc300d_20190426_142945_169.jpg, 00:01:28, 5.31m
 Crack, circumferential at joint from 03 o'clock to 05 o'clock



SHM2X_76e72302-4cb0-4400-ac83-4a4521799b0b_20190426_143111_219.jpg, 00:02:40, 13.42m
 Cracks, multiple from 12 o'clock to 12 o'clock, start



Section Pictures - 26/04/2019 - SHM2X

Section Number: 9	Inspection Direction: SHM2 >> NODE 5	PLR: SHM2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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SHM2X_60a6810e-aed7-482a-b788-89612660317b_20190426_143155_865.jpg, 00:03:13, 15.97m
 Crack, longitudinal at joint at 02 o'clock



SHM2X_6cbad2c2-0f0c-41bb-9652-0fb188b4c837_20190426_143348_461.jpg, 00:04:48, 22.24m
 Hole in drain or sewer from 11 o'clock to 01 o'clock



SHM2X_e59c87d4-d43d-4762-8906-aa34cd9aa7a8_20190426_143451_842.jpg, 00:05:27, 25.17m
 Settled deposits, other, 15% cross-sectional area loss



SHM2X_2c0e3a17-0613-405e-b321-cad5f463677d_20190426_143502_372.jpg, 00:05:32, 25.17m
 Cracks, multiple from 12 o'clock to 12 o'clock, finish



Section Pictures - 26/04/2019 - SHM2X

Section Number: 9	Inspection Direction: SHM2 >> NODE 5	PLR: SHM2X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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SHM2X_b7b6363a-ade6-4a04-9105-c1498c938bf8_20190426_143526_569.jpg, 00:05:36, 25.18m
Survey abandoned

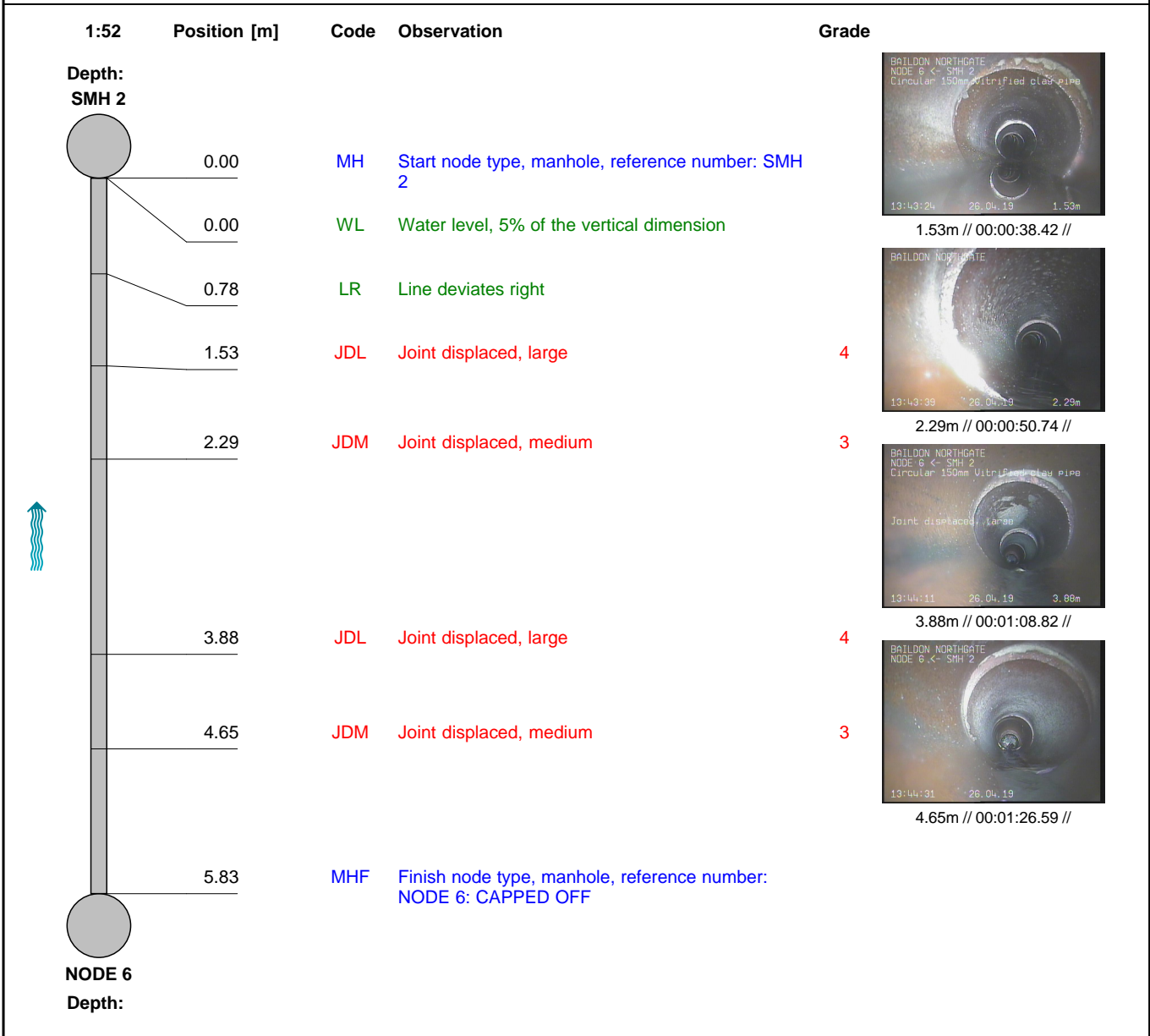


Section Inspection - 26/04/2019 - NODE 6X

Section: 10	Inspection: 10	Date: 26/04/19	Time: 14:39	Client's Ref: C1703-17	Weather: No Rain Or Snow	Pre Cleaned: No	PLR: NODE 6X
Operator: Mark Baker		Vehicle: PL17 TTK		Camera: Push Rod	Preset Length:	Criticality Grade:	Alternative ID:

Town or Village: BAILDON	Insp Dir: SMH 2 << NODE 6	US MH: NODE 6
Road: Northgate	Inspected Length: 5.83 m	US Depth:
Location: Under a permanent building	Total Length: 5.83 m	DS MH: SMH 2
Surface Type: Concrete Footway	Pipe Length: 0.00 m	DS Depth:
Use: Surface water	Pipe Shape: Circular	
Type of Pipe: Gravity drain/sewer	Height / Width: 150 mm	
Year Constructed:	Pipe Material: Vitrified clay pipe	
Inspection Purpose: Sample survey to determine asset condition of a sewer system	Lining Type: None	
Flow Control: No flow control	Lining Material: None	

Comment:
 Recommendation:



Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	1.0	6.0	1.0	4	5.0	2.4	14.0	4.0



Section Pictures - 26/04/2019 - NODE 6X

Section Number: 10	Inspection Direction: SMH 2 << NODE 6	PLR: NODE 6X	Client's Ref: C1703-17	Contractor's Ref: PJ00332160
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NODE
 6X_9da08712-1f0e-4fee-91a5-18e7db945014_20190426_144
 329_343.jpg, 00:00:38, 1.53m
 Joint displaced, large



NODE
 6X_e776eb2f-4ddb-4987-af8b-8e59e9d2e7ac_20190426_144
 344_749.jpg, 00:00:50, 2.29m
 Joint displaced, medium



NODE
 6X_433d8569-b191-460b-9036-0d176aa812a9_20190426_14
 4416_603.jpg, 00:01:08, 3.88m
 Joint displaced, large



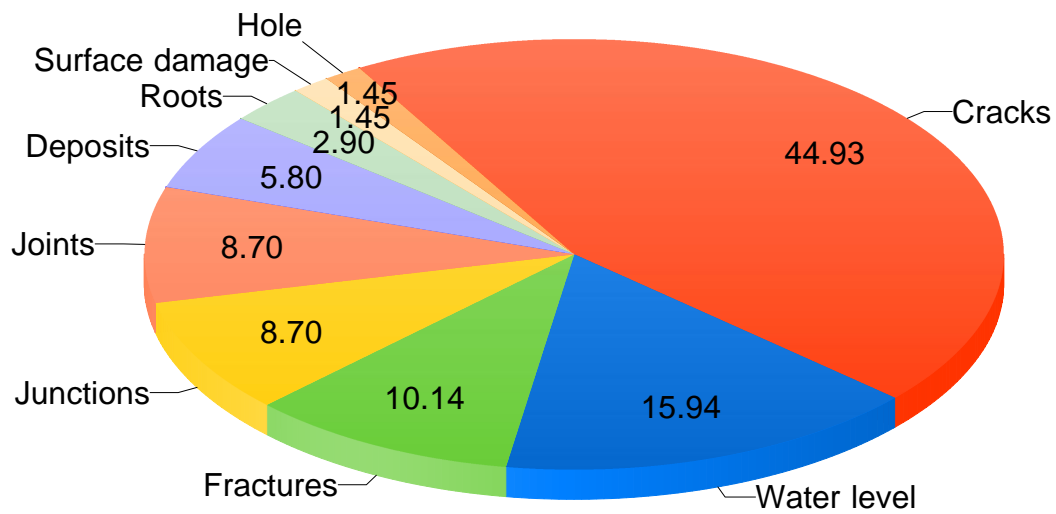
NODE
 6X_ea13d6de-62ea-4f21-a3c1-8d536d0f3a64_20190426_144
 436_539.jpg, 00:01:26, 4.65m
 Joint displaced, medium



Damage overview

Project name: HollyCroft Construction LTD	Project number:	Contact:	Date: 26/04/2019
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Group	Count
Cracks	31
Fractures	7
Joints	6
Hole	1
Surface damage	1
Deposits	4
Roots	2
Water level	11
Junctions	6





Inspection Summary

Project name:
HollyCroft Construction LTD -Baildon Mills -PJ00332160 -

Project number:

Contact:

Date:
26/04/2019

	Node from:	FHM1	FMH2	FMH3	FMH4	FMH5	FMH6	FMH7	NODE 6	SHM2	SMH1
	Node to:	FMH2	FMH3	NODE2	NODE 3	NODE 4	FMH4	FMH6	SMH 2	NODE 5	NODE 1
	Section height:	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	525.00	100.00
	Section length:	23.46	26.05	3.56	16.85	8.87	10.65	11.76	5.83	25.18	13.59
	Inspected length:	23.46	26.05	4.97	16.85	8.87	10.65	11.76	5.83	25.18	13.59
	Abandoned:							X		X	
	Cracks	0	7	0	13	2	0	1	0	8	0
	Deposits	1	0	0	0	1	0	1	0	1	0
	Fractures	0	1	0	5	1	0	0	0	0	0
	Hole	0	0	0	0	0	0	0	0	1	0
	Joints	0	0	0	0	0	1	1	4	0	0
	Junctions	0	0	0	2	0	0	4	0	0	0
	Roots	0	2	0	0	0	0	0	0	0	0
	Surface damage	1	0	0	0	0	0	0	0	0	0
	Water level	1	1	1	1	1	2	1	1	1	1
	Total	3	11	1	21	5	3	8	5	11	1



Inspection Summary

Project name: HollyCroft Construction LTD -Baildon Mills -PJ00332160 -	Project number:	Contact:	Date: 26/04/2019
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Node from:	Total
Node to:	
Section height:	
Section length:	145.80
Inspected length:	147.21
Abandoned:	
Cracks	31
Deposits	4
Fractures	7
Hole	1
Joints	6
Junctions	6
Roots	2
Surface damage	1
Water level	11
Total	69