

**Project**

**Project Name:** Hydrock Consultants Limited - St Illtyds School - PJ00463464  
**Project Status:** Complete  
**Project Date:** 05/12/2022  
**Lanes Division:** South Wales



**Lanes  
Group plc**

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Hydrock Consultants Limited - St Illtyds School - PJ00463464	05/12/2022

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## Project Information

**Project Name**

Hydrock Consultants Limited - St Illtyds School - PJ00463464

**Project Date**

05/12/2022

### Client

**Company:** Hydrock Consultants Limited  
**Street:** Over Court Barns  
**Town or City:** Almondsbury  
**County:** Bristol  
**Post Code:** BS32 4DF

### Site

**Company:** Hydrock Consultants Limited  
**Street:** St Illtyds School  
**Town or City:** Rumney  
**County:** Cardiff  
**Post Code:** CF3 1XQ

### Contractor

**Company:** Lanes Group PLC  
**Contact:** Pete Symons  
**Department:** Regional Manager  
**Street:** Unit H3-H4 Coed Cae Lane Industrial Estate  
**Town or City:** Pontyclun  
**County:** Rhondda Cynon Taff  
**Post Code:** CF72 9HG  
**Phone:** 01443 224 917  
**Fax:** 01443 223 360  
**Email:** Southwalesops@lanesgroup.co.uk

## Project Information

**Project Name**

Hydrock Consultants Limited - St Iltyds School - PJ00463464

**Project Date**

05/12/2022

## Project Summary

Dear Customer,

As requested, we have recently carried out a drainage CCTV survey at the site location and our full and detailed findings are contained in the attached CCTV report which you can review at your leisure.

We have identified the need for further works and will provide a quotation which will highlight the areas of concern, the most appropriate remedial technique and all associated costings.

We would like to take this opportunity to thank you for using Lanes Group plc and we hope we can be of service to you again soon. Please visit our website for full details of all services we can provide, follow us on social media or even share details of your customer experience with us:

[www.lanesgroup.co.uk](http://www.lanesgroup.co.uk)

If you require any technical assistance understanding the findings of the CCTV report then please contact us at:

[cctvsurveys@lanesgroup.co.uk](mailto:cctvsurveys@lanesgroup.co.uk)

Kind regards,  
Lanes Group plc

## Project Information

**Project Name**

Hydrock Consultants Limited - St Illtyds School - PJ00463464

**Project Date**

05/12/2022

## Project Notes

CCTV Reveals issues in pipework:

Section: 2

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

Settled deposits, coarse, 10% cross-sectional area loss, finish

Settled deposits, coarse, 10% cross-sectional area loss, finish

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

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

Settled deposits, coarse, 30% cross-sectional area loss, finish

Settled deposits, coarse, 30% cross-sectional area loss, start

Section: 6

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

Section: 9

Collapsed drain or sewer

Fracture spiral from 2 o'clock to 6 o'clock

Fracture, circumferential at joint from 2 o'clock to 5 o'clock

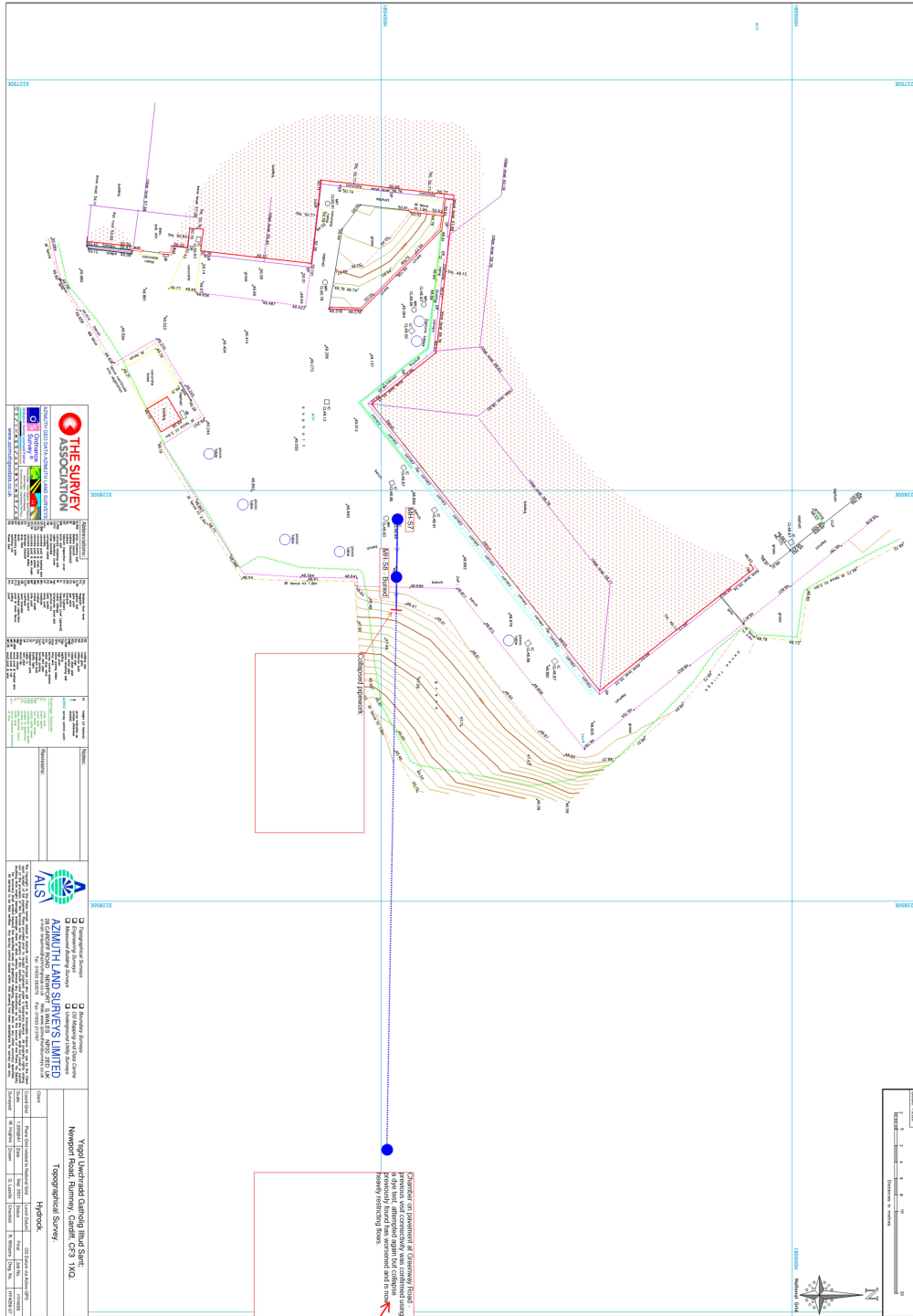
Fracture, multiple from 12 o'clock to 12 o'clock

## Project Information

<b>Project Name</b> Hydrock Consultants Limited - St Illtyds School - PJ00463464	<b>Project Date</b> 05/12/2022
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**Project Drawing, Page 'Hydrock Consultants Limited - St Illtyds School -**

**Project Drawing, Page 'Plan 2'**



## Section Profile

**Project Name**  
Hydrock Consultants Limited - St Illtyds School - PJ00463464

**Project Date**  
05/12/2022

### Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Asset Material	Total Length	Inspected Length
1	IC-S2	MH-S1	05/12/2022	St Illtyds School	Plastic (smooth)	31.54 m	31.54 m
2	IC-S3	IC-S2	05/12/2022	St Illtyds School	Plastic (smooth)	13.85 m	13.85 m
2	IC-S3	IC-S2	05/12/2022	St Illtyds School	Plastic (smooth)	13.85 m	<b>8.63 m</b>
3	MH-S1	MH-S4	05/12/2022	St Illtyds School	Plastic (smooth)	19.58 m	19.58 m
4	ACO1	IC-S2	05/12/2022	St Illtyds School	Plastic (smooth)	1.25 m	1.25 m
5	ACO2	IC-S3	05/12/2022	St Illtyds School	Plastic (smooth)	0.90 m	0.90 m
6	MH-S4	MH-S5	05/12/2022	St Illtyds School	Vitrified clay	6.77 m	6.77 m
7	MH-S5	MH-S6	05/12/2022	St Illtyds School	Vitrified clay	14.88 m	14.88 m

**Total: 8 Inspections x Circular 150 mm = 88.77 m Total Length and 97.40 m Inspected Length**

### Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Asset Material	Total Length	Inspected Length
8	MH-S7	MH-S8	06/12/2022	St Illtyds School	Vitrified clay	6.35 m	6.35 m
9	MH-S8	D/S Node	06/12/2022	St Illtyds School	Vitrified clay	8.27 m	8.27 m

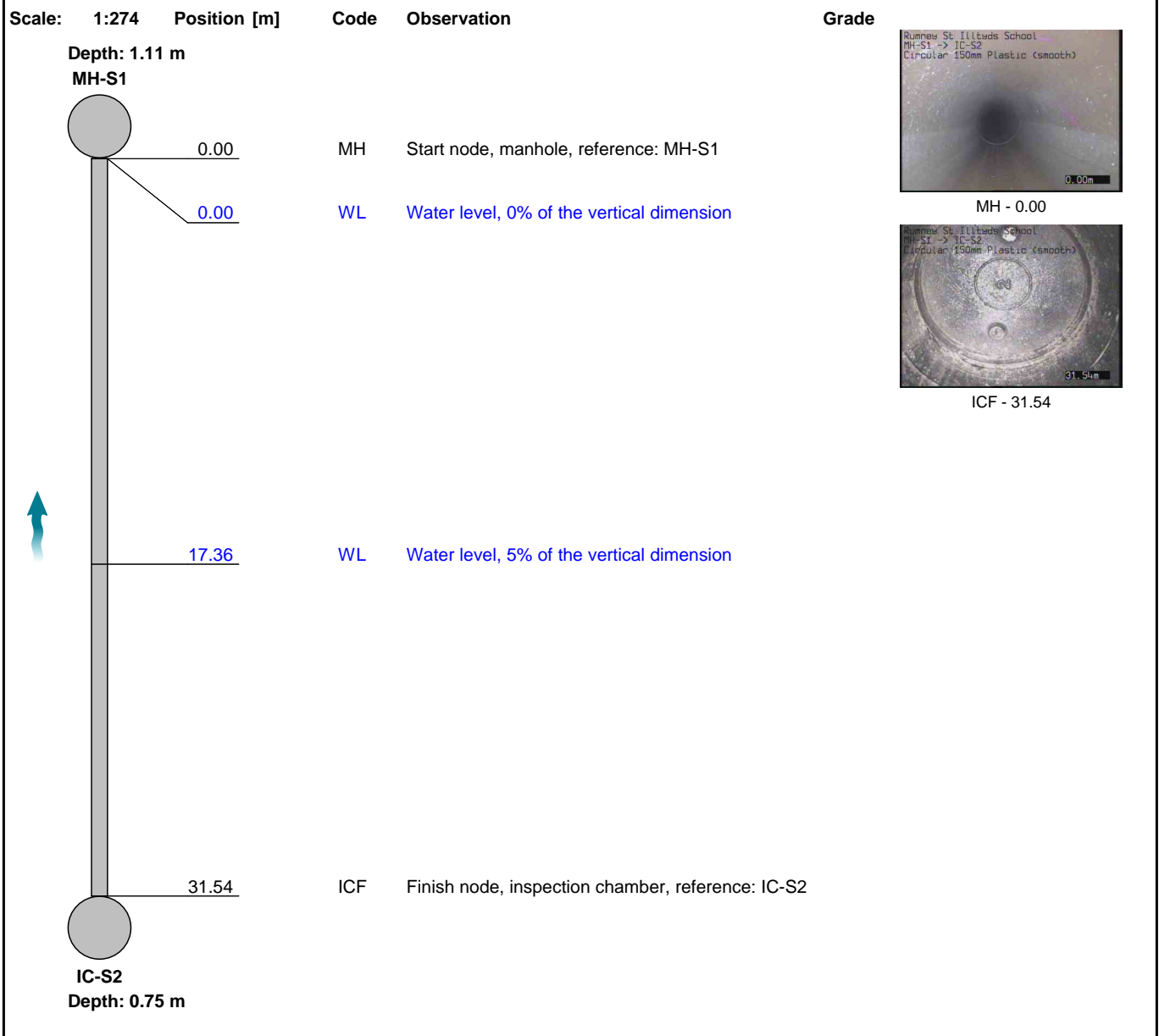
**Total: 2 Inspections x Circular 225 mm = 14.62 m Total Length and 14.62 m Inspected Length**

**Total: 10 Inspections = 103.39 m Total Length and 112.02 m Inspected Length**

### Section Inspection - 05/12/2022 - IC-S2X

Item No. <b>1</b>	Insp. No. <b>1</b>	Date <b>05/12/22</b>	Time <b>8:54</b>	Lanes Job Number <b>PJ00463464</b>	Weather <b>Dry</b>	Pre Cleaned <b>No</b>	PLR <b>IC-S2X</b>
Operator <b>J.Minty</b>		Asset Location: <b>Property with buildings</b>		Camera <b>Small Crawler</b>	Preset Length <b>Not Specified</b>	Legal Status <b>Private Drain</b>	Alternative ID <b>Not Specified</b>

Town or Village:	Rumney	Inspection Direction:	Upstream	Upstream Node:	IC-S2
Road:	St Illtyds School	Inspected Length:	31.54 m	US Pipe Depth:	0.75
Post Code:	CF3 1XQ	Total Length:	31.54 m	Downstream Node:	MH-S1
Surface Type:	Grass	Joint Length:	1.00 m	DS Pipe Depth:	1.11
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Plastic (smooth)	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



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





**Section Pictures - 05/12/2022 - IC-S2X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
1	Upstream	IC-S2X	1	PJ00463464



1, 00:00:00, 0.00 m  
Start node, manhole, reference: MH-S1



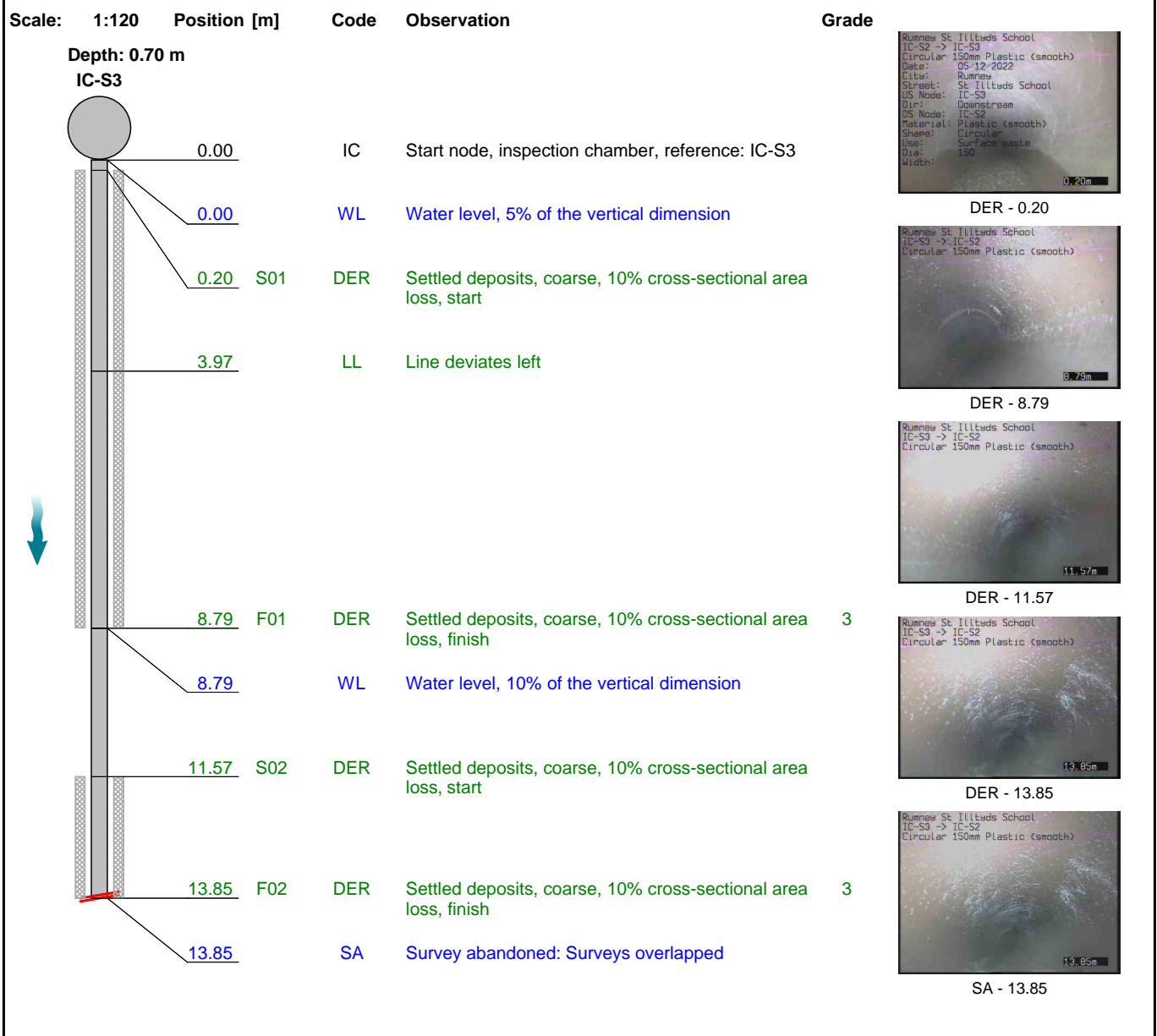
2, 00:05:41, 31.54 m  
Finish node, inspection chamber, reference: IC-S2

## Section Inspection - 05/12/2022 - IC-S3X

Item No.	Insp. No.	Date	Time	Lanes Job Number	Weather	Pre Cleaned	PLR
2	2	05/12/22	12:32	PJ00463464	Dry	No	IC-S3X
Operator		Asset Location:		Camera	Preset Length	Legal Status	Alternative ID
J.Minty		Property with buildings		Small Crawler	Not Specified	Private Drain	Not Specified

Town or Village:	Rumney	Inspection Direction:	Downstream	Upstream Node:	IC-S3
Road:	St Illtyds School	Inspected Length:	13.85 m	Upstream Pipe Depth:	0.70
Post Code:	CF3 1XQ	Total Length:	13.85 m	Downstream Node:	IC-S2
Surface Type:	Grass	Joint Length:	1.00 m	Downstream Pipe Depth:	0.75
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Plastic (smooth)	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining		

**Comments:**  
**Recommendations:**

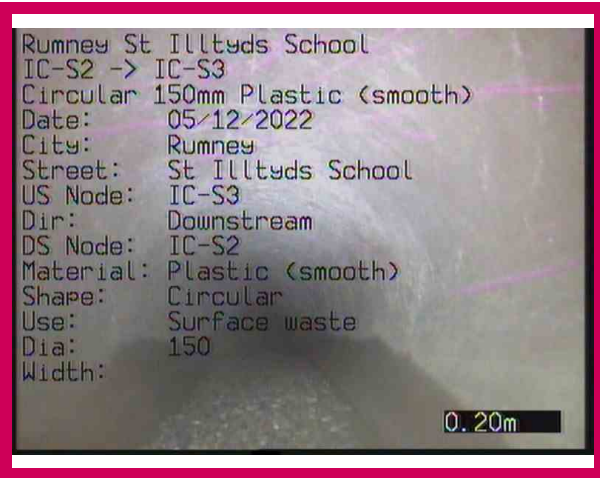


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	2.0	1.7	24.0	3.0



**Section Pictures - 05/12/2022 - IC-S3X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
2	Downstream	IC-S3X	2	PJ00463464



1, 00:00:10, 0.20 m

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



2, 00:01:00, 8.79 m

Settled deposits, coarse, 10% cross-sectional area loss, finish



3, 00:01:25, 11.57 m

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



4, 00:01:43, 13.85 m

Settled deposits, coarse, 10% cross-sectional area loss, finish



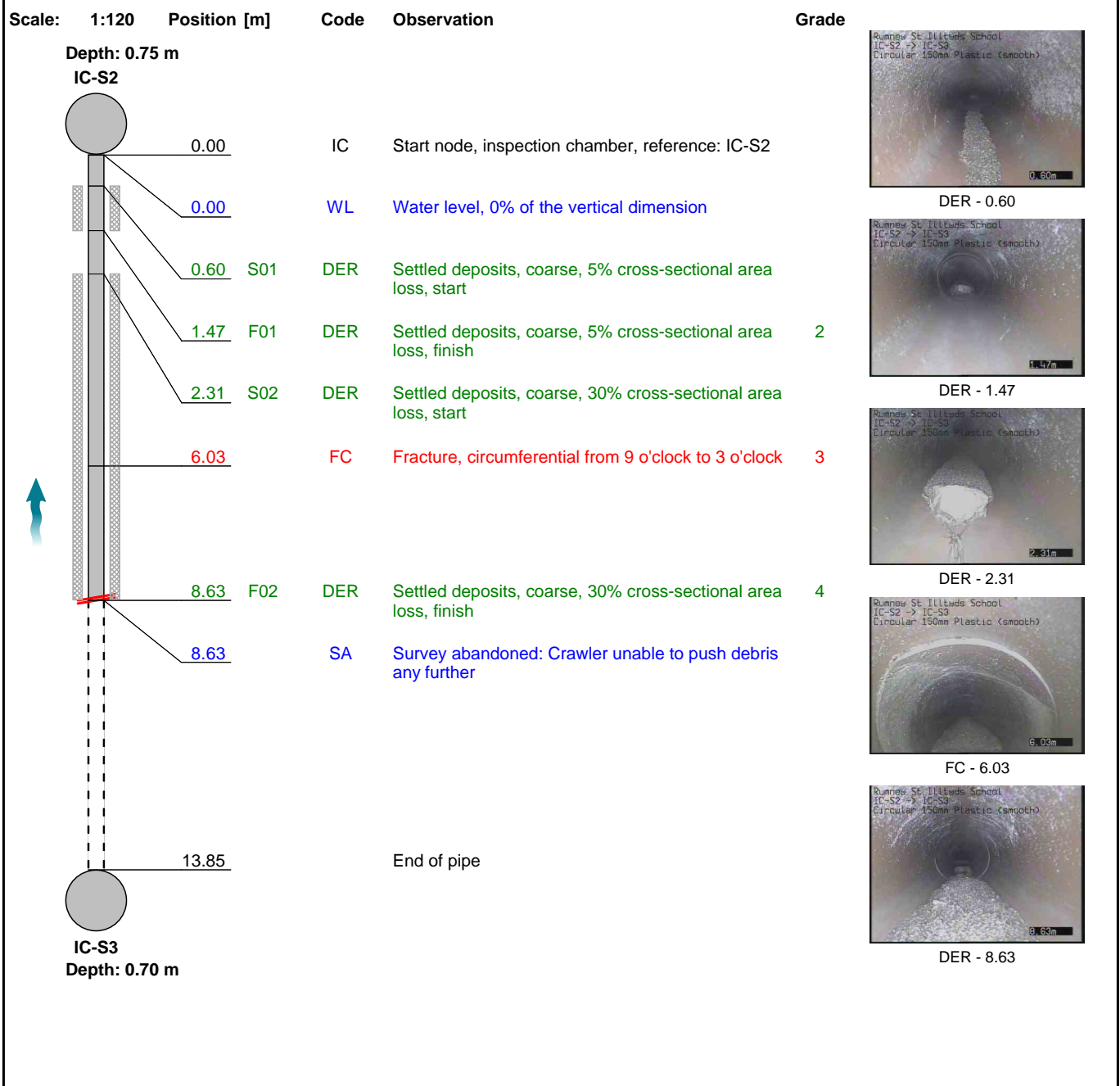
5, 00:01:44, 13.85 m

Survey abandoned, Surveys overlapped

## Section Inspection - 05/12/2022 - IC-S3X

Item No. <b>2</b>	Insp. No. <b>1</b>	Date <b>05/12/22</b>	Time <b>9:03</b>	Lanes Job Number <b>PJ00463464</b>	Weather <b>Dry</b>	Pre Cleaned <b>No</b>	PLR <b>IC-S3X</b>
Operator <b>J.Minty</b>		Asset Location: <b>Property with buildings</b>		Camera <b>Small Crawler</b>	Preset Length <b>Not Specified</b>	Legal Status <b>Private Drain</b>	Alternative ID <b>Not Specified</b>

Town or Village:	Rumney	Inspection Direction:	Upstream	Upstream Node:	IC-S3
Road:	St Illtyds School	Inspected Length:	8.63 m	Upstream Pipe Depth:	0.70
Post Code:	CF3 1XQ	Total Length:	13.85 m	Downstream Node:	IC-S2
Surface Type:	Grass	Joint Length:	1.00 m	Downstream Pipe Depth:	0.75
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Plastic (smooth)	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None





**Section Inspection - 05/12/2022 - IC-S3X**

<b>Item No.</b> 2	<b>Insp. No.</b> 1	<b>Date</b> 05/12/22	<b>Time</b> 9:03	<b>Lanes Job Number</b> PJ00463464	<b>Weather</b> Dry	<b>Pre Cleaned</b> No	<b>PLR</b> IC-S3X
<b>Operator</b> J.Minty		<b>Asset Location:</b> Property with buildings		<b>Camera</b> Small Crawler	<b>Preset Length</b> Not Specified	<b>Legal Status</b> Private Drain	<b>Alternative ID</b> Not Specified



SA - 8.63

<b>Construction Features</b>					<b>Miscellaneous Features</b>				
<b>Structural Defects</b>					<b>Service &amp; Operational Observations</b>				
<b>STR No. Def</b>	<b>STR Peak</b>	<b>STR Mean</b>	<b>STR Total</b>	<b>STR Grade</b>	<b>SER No. Def</b>	<b>SER Peak</b>	<b>SER Mean</b>	<b>SER Total</b>	<b>SER Grade</b>
1	40.0	4.6	40.0	3.0	2	5.0	4.2	36.0	4.0



**Section Pictures - 05/12/2022 - IC-S3X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
2	Upstream	IC-S3X	2	PJ00463464



1, 00:00:21, 0.60 m  
 Settled deposits, coarse, 5% cross-sectional area loss, start



2, 00:00:32, 1.47 m  
 Settled deposits, coarse, 5% cross-sectional area loss, finish



3, 00:00:50, 2.31 m  
 Settled deposits, coarse, 30% cross-sectional area loss, start



4, 00:02:04, 6.03 m  
 Fracture, circumferential from 9 o'clock to 3 o'clock



5, 00:03:55, 8.63 m  
 Settled deposits, coarse, 30% cross-sectional area loss, finish

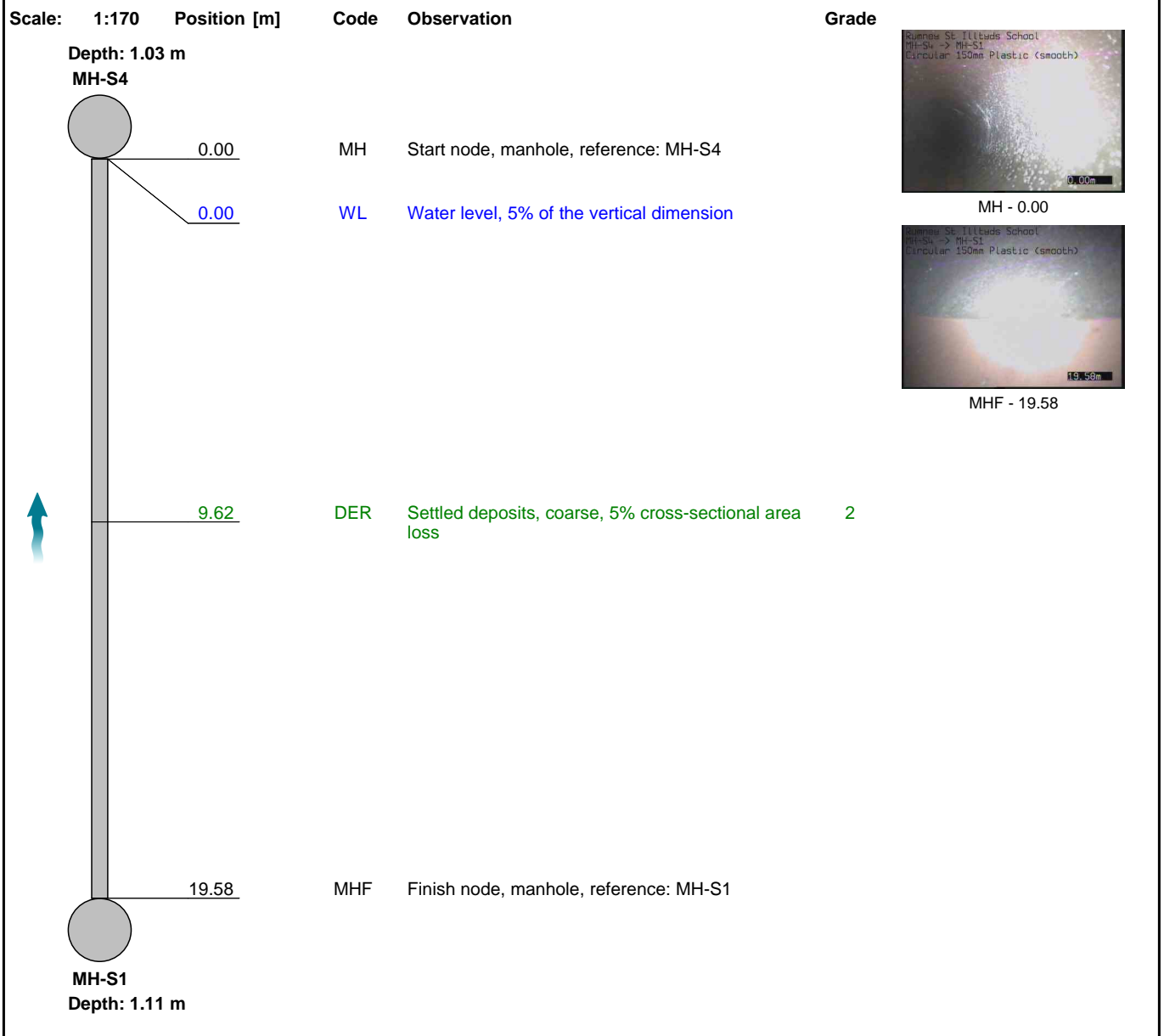


6, 00:03:55, 8.63 m  
 Survey abandoned, Crawler unable to push debris any further

## Section Inspection - 05/12/2022 - MH-S1X

Item No.	Insp. No.	Date	Time	Lanes Job Number	Weather	Pre Cleaned	PLR
3	1	05/12/22	13:09	PJ00463464	Dry	No	MH-S1X
Operator		Asset Location:		Camera	Preset Length	Legal Status	Alternative ID
J.Minty		Property with buildings		Small Crawler	Not Specified	Private Drain	Not Specified

<b>Town or Village:</b>	Rumney	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	MH-S1
<b>Road:</b>	St Illtyds School	<b>Inspected Length:</b>	19.58 m	<b>Upstream Pipe Depth:</b>	1.11
<b>Post Code:</b>	CF3 1XQ	<b>Total Length:</b>	19.58 m	<b>Downstream Node:</b>	MH-S4
<b>Surface Type:</b>	Grass	<b>Joint Length:</b>	1.00 m	<b>Downstream Pipe Depth:</b>	1.03
<b>Asset Use:</b>	Surface waste	<b>Asset Shape:</b>	Circular	<b>Asset Type:</b>	Gravity drain/sewer
<b>Asset Type:</b>	Gravity drain/sewer	<b>Dia/Height:</b>	150 mm	<b>Asset Owner:</b>	Private
<b>Asset Owner:</b>	Private	<b>Asset Material:</b>	Plastic (smooth)	<b>Year Constructed:</b>	Not Specified
<b>Year Constructed:</b>	Not Specified	<b>Asset Lining Type:</b>	No Lining	<b>Inspection Purpose:</b>	Condition survey
<b>Inspection Purpose:</b>	Condition survey	<b>Asset Lining Material:</b>	No Lining	<b>Comments:</b>	None
<b>Comments:</b>	None	<b>Recommendations:</b>	None	<b>Recommendations:</b>	None



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.1	1.0	2.0



**Section Pictures - 05/12/2022 - MH-S1X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
3	Upstream	MH-S1X	3	PJ00463464



1, 00:00:00, 0.00 m  
Start node, manhole, reference: MH-S4



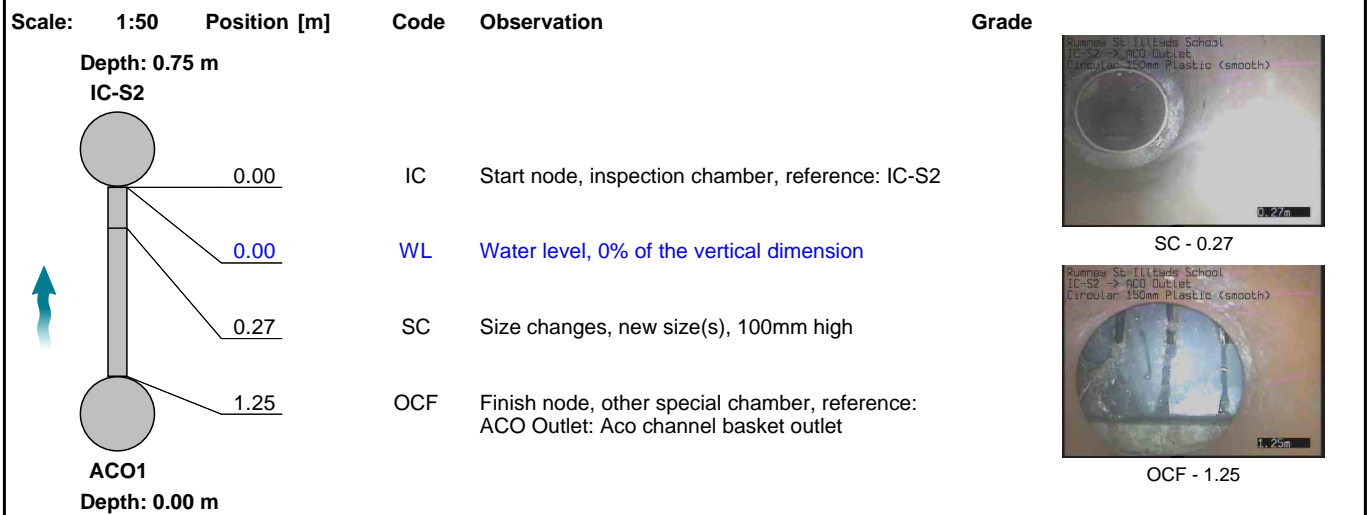
2, 00:01:23, 19.58 m  
Finish node, manhole, reference: MH-S1



## Section Inspection - 05/12/2022 - ACO1X

Item No. 4	Insp. No. 1	Date 05/12/22	Time 12:21	Lanes Job Number PJ00463464	Weather Dry	Pre Cleaned No	PLR ACO1X
Operator J.Minty		Asset Location: Property with buildings		Camera Push Rod	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Rumney	Inspection Direction:	Upstream	Upstream Node:	ACO1
Road:	St Illtyds School	Inspected Length:	1.25 m	US Pipe Depth:	0.00
Post Code:	CF3 1XQ	Total Length:	1.25 m	Downstream Node:	IC-S2
Surface Type:	Grass	Joint Length:	1.00 m	DS Pipe Depth:	0.75
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Plastic (smooth)	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



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



**Section Pictures - 05/12/2022 - ACO1X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
4	Upstream	ACO1X	4	PJ00463464



1, 00:00:20, 0.27 m  
Size changes, new size(s), 100mm high

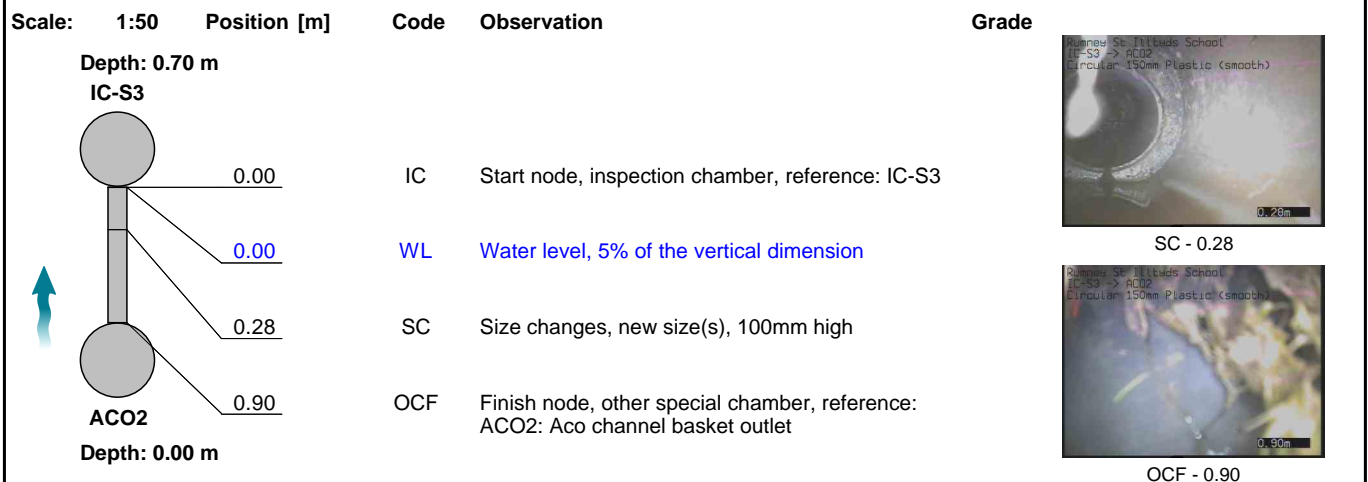


2, 00:00:31, 1.25 m  
Finish node, other special chamber, reference: ACO Outlet,  
Aco channel basket outlet

## Section Inspection - 05/12/2022 - ACO2X

Item No. <b>5</b>	Insp. No. <b>1</b>	Date <b>05/12/22</b>	Time <b>12:30</b>	Lanes Job Number <b>PJ00463464</b>	Weather <b>Dry</b>	Pre Cleaned <b>No</b>	PLR <b>ACO2X</b>
Operator <b>J.Minty</b>		Asset Location: <b>Property with buildings</b>		Camera <b>Push Rod</b>	Preset Length <b>Not Specified</b>	Legal Status <b>Private Drain</b>	Alternative ID <b>Not Specified</b>

Town or Village:	Rumney	Inspection Direction:	Upstream	Upstream Node:	ACO2
Road:	St Illtyds School	Inspected Length:	0.90 m	US Pipe Depth:	0.00
Post Code:	CF3 1XQ	Total Length:	0.90 m	Downstream Node:	IC-S3
Surface Type:	Grass	Joint Length:	1.00 m	DS Pipe Depth:	0.70
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Plastic (smooth)	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



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



**Section Pictures - 05/12/2022 - ACO2X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
5	Upstream	ACO2X	5	PJ00463464



1, 00:00:20, 0.28 m  
Size changes, new size(s), 100mm high

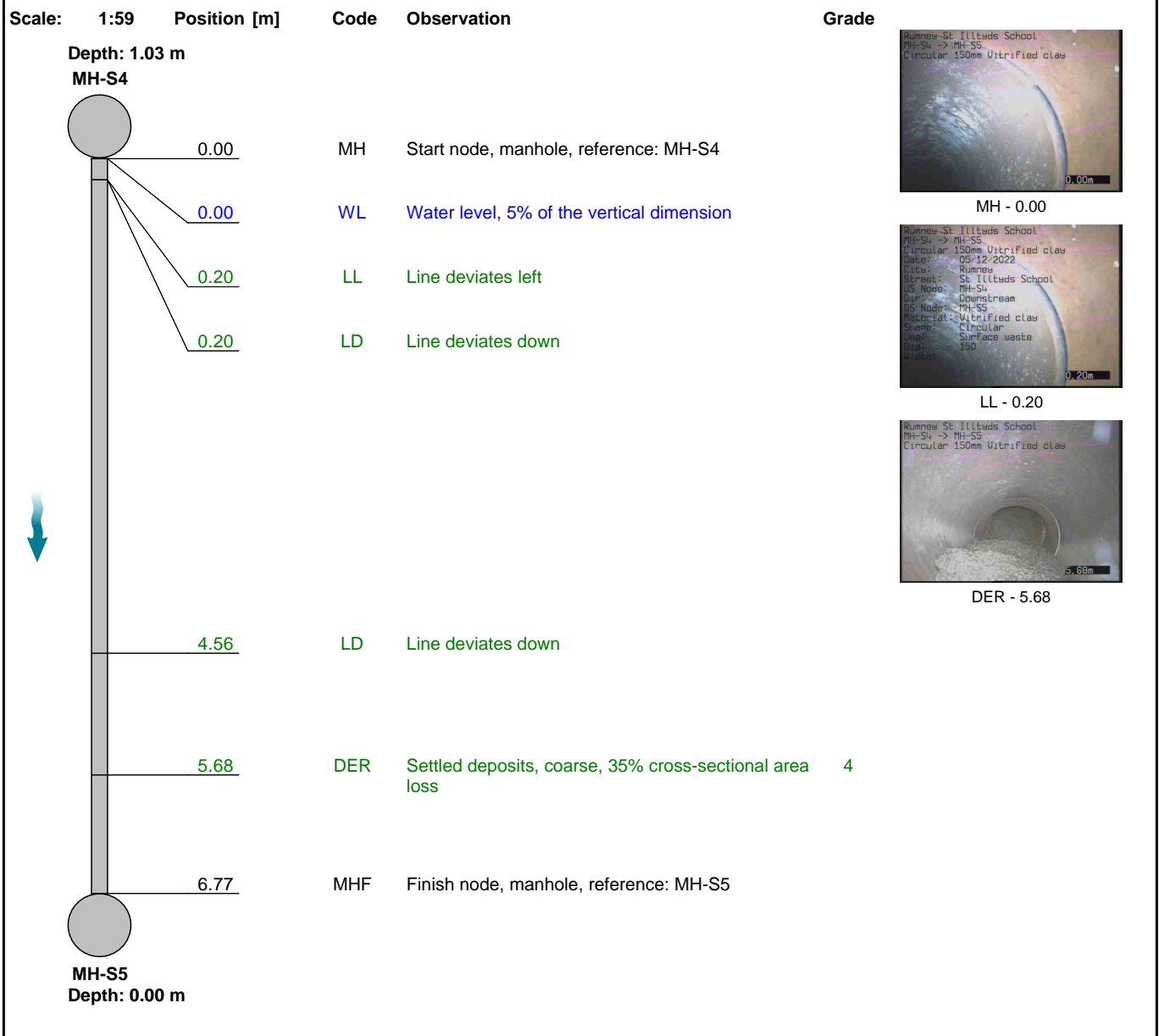


2, 00:00:30, 0.90 m  
Finish node, other special chamber, reference: ACO2, Aco channel basket outlet

## Section Inspection - 05/12/2022 - MH-S4X

Item No. <b>6</b>	Insp. No. <b>1</b>	Date <b>05/12/22</b>	Time <b>13:13</b>	Lanes Job Number <b>PJ00463464</b>	Weather <b>Dry</b>	Pre Cleaned <b>No</b>	PLR <b>MH-S4X</b>
Operator <b>J.Minty</b>		Asset Location: <b>Property with buildings</b>		Camera <b>Push Rod</b>	Preset Length <b>Not Specified</b>	Legal Status <b>Private Drain</b>	Alternative ID <b>Not Specified</b>

Town or Village: <b>Rumney</b>	Inspection Direction: <b>Downstream</b>	Upstream Node: <b>MH-S4</b>
Road: <b>St Illtyds School</b>	Inspected Length: <b>6.77 m</b>	Upstream Pipe Depth: <b>1.03</b>
Post Code: <b>CF3 1XQ</b>	Total Length: <b>6.77 m</b>	Downstream Node: <b>MH-S5</b>
Surface Type: <b>Grass</b>	Joint Length: <b>1.00 m</b>	Downstream Pipe Depth: <b>0.00</b>
Asset Use: <b>Surface waste</b>	Asset Shape: <b>Circular</b>	
Asset Type: <b>Gravity drain/sewer</b>	Dia/Height: <b>150 mm</b>	
Asset Owner: <b>Private</b>	Asset Material: <b>Vitrified clay</b>	
Year Constructed: <b>Not Specified</b>	Asset Lining Type: <b>No Lining</b>	
Inspection Purpose: <b>Condition survey</b>	Asset Lining Material: <b>No Lining</b>	
Comments: <b>None</b>		
Recommendations: <b>None</b>		



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	0.7	5.0	4.0

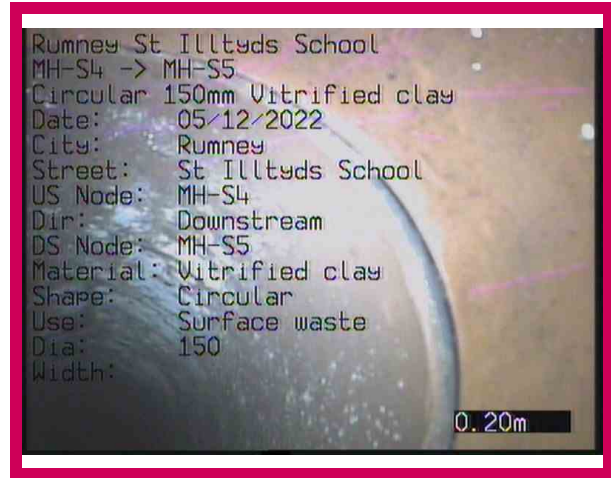


**Section Pictures - 05/12/2022 - MH-S4X**

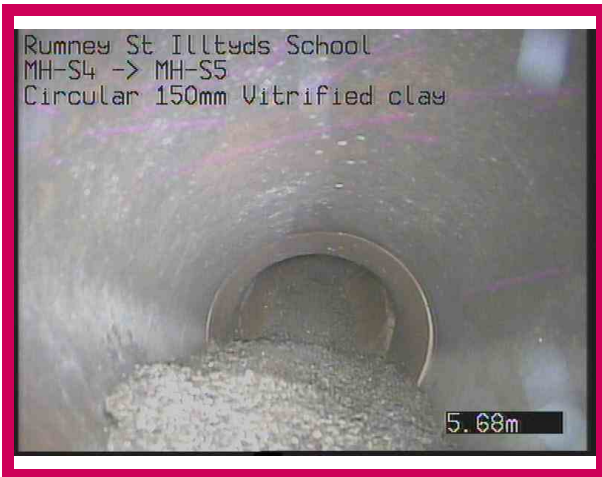
Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
6	Downstream	MH-S4X	6	PJ00463464



1, 00:00:00, 0.00 m  
Start node, manhole, reference: MH-S4



2, 00:00:09, 0.20 m  
Line deviates left

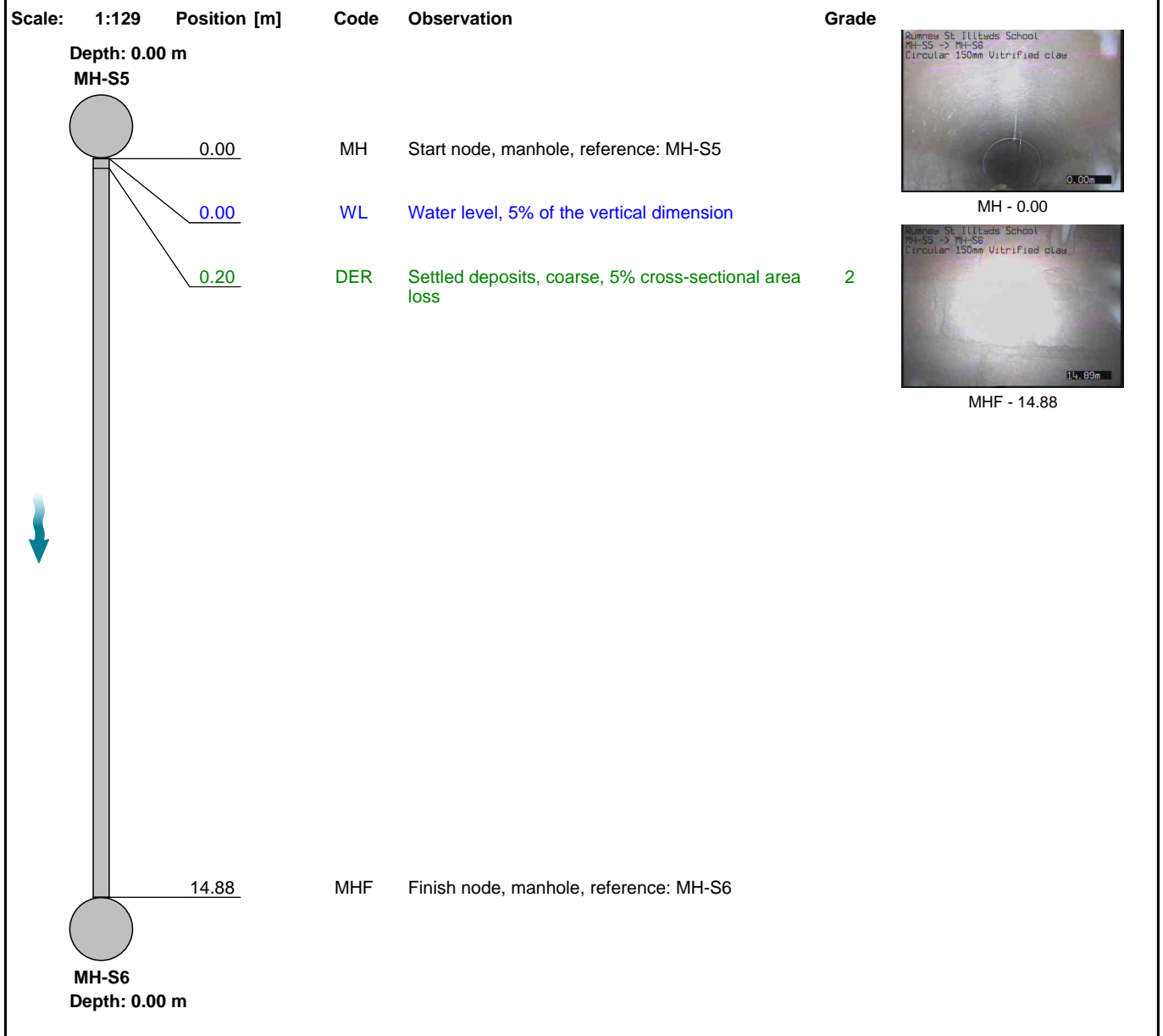


3, 00:00:37, 5.68 m  
Settled deposits, coarse, 35% cross-sectional area loss

## Section Inspection - 05/12/2022 - MH-S5X

Item No. <b>7</b>	Insp. No. <b>1</b>	Date <b>05/12/22</b>	Time <b>13:14</b>	Lanes Job Number <b>PJ00463464</b>	Weather <b>Dry</b>	Pre Cleaned <b>No</b>	PLR <b>MH-S5X</b>
Operator <b>J.Minty</b>		Asset Location: <b>Property with buildings</b>		Camera <b>Push Rod</b>	Preset Length <b>Not Specified</b>	Legal Status <b>Private Drain</b>	Alternative ID <b>Not Specified</b>

Town or Village:	Rumney	Inspection Direction:	Downstream	Upstream Node:	MH-S5
Road:	St Illtyds School	Inspected Length:	14.88 m	Upstream Pipe Depth:	0.00
Post Code:	CF3 1XQ	Total Length:	14.88 m	Downstream Node:	MH-S6
Surface Type:	Grass	Joint Length:	1.00 m	Downstream Pipe Depth:	0.00
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	150 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Vitrified clay	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.1	1.0	2.0





**Section Pictures - 05/12/2022 - MH-S5X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
7	Downstream	MH-S5X	7	PJ00463464



1, 00:00:00, 0.00 m  
Start node, manhole, reference: MH-S5



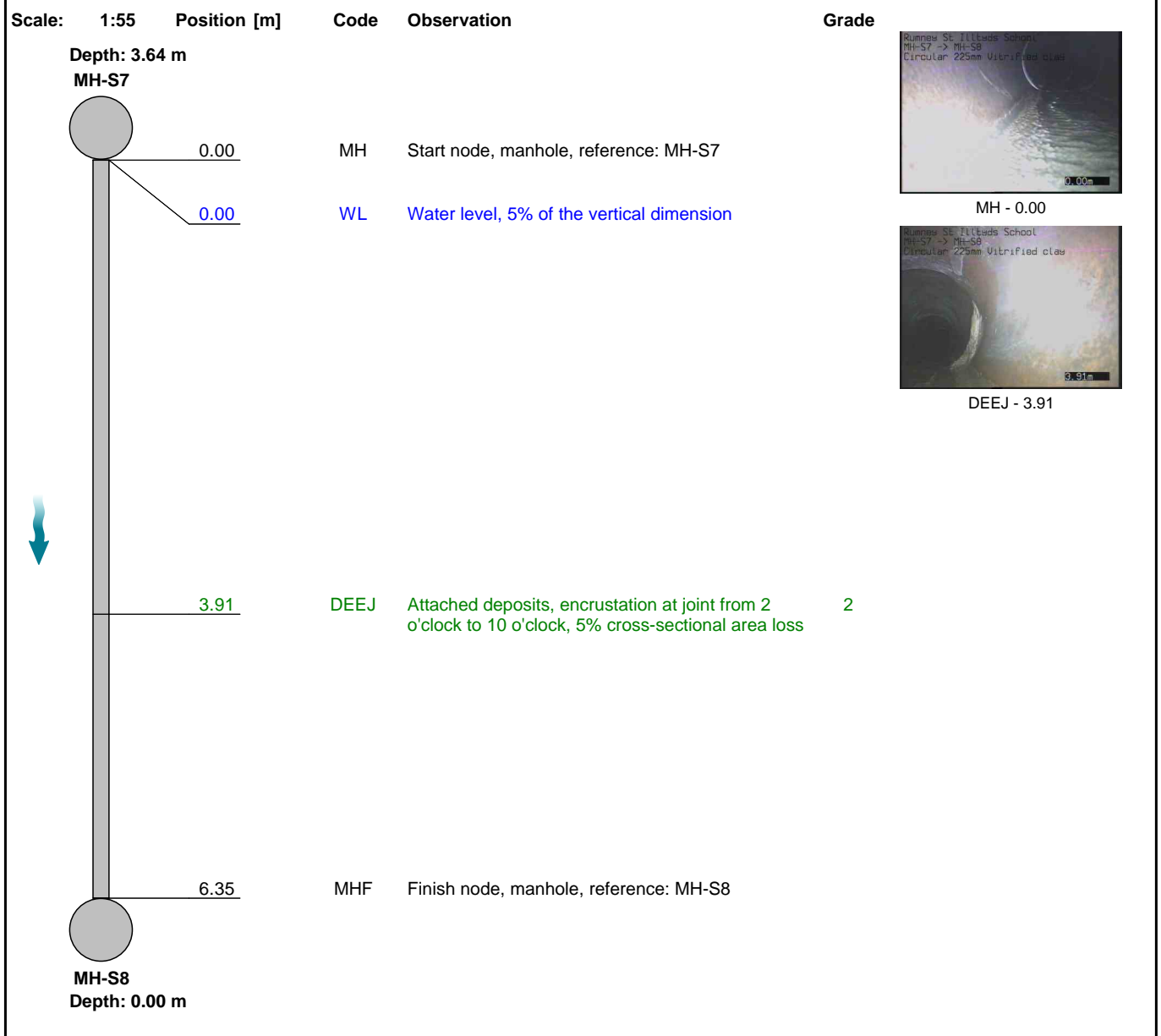
2, 00:01:21, 14.88 m  
Finish node, manhole, reference: MH-S6



## Section Inspection - 06/12/2022 - MH-S7X

Item No. 8	Insp. No. 1	Date 06/12/22	Time 9:12	Lanes Job Number PJ00463464	Weather Dry	Pre Cleaned No	PLR MH-S7X
Operator J.Minty		Asset Location: Property with buildings		Camera Push Rod	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Rumney	Inspection Direction:	Downstream	Upstream Node:	MH-S7
Road:	St Illtyds School	Inspected Length:	6.35 m	Upstream Pipe Depth:	3.64
Post Code:	CF3 1XQ	Total Length:	6.35 m	Downstream Node:	MH-S8
Surface Type:	Grass	Joint Length:	1.00 m	Downstream Pipe Depth:	0.00
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	225 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Vitrified clay	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.2	1.0	2.0



**Section Pictures - 06/12/2022 - MH-S7X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
8	Downstream	MH-S7X	8	PJ00463464



1, 00:00:00, 0.00 m  
Start node, manhole, reference: MH-S7

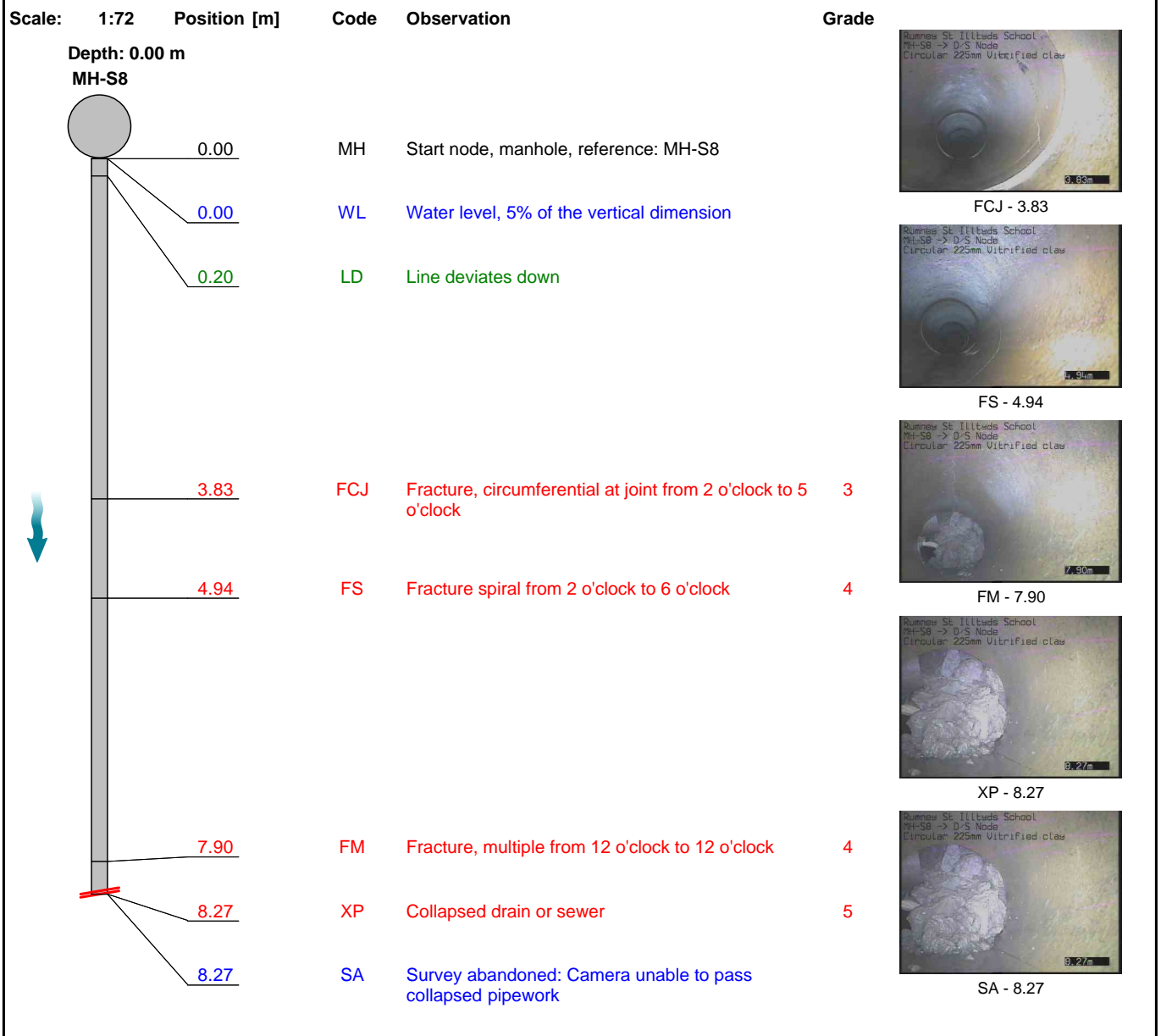


2, 00:00:42, 3.91 m  
Attached deposits, encrustation at joint from 2 o'clock to 10 o'clock, 5% cross-sectional area loss

## Section Inspection - 06/12/2022 - MH-S8X

Item No.	Insp. No.	Date	Time	Lanes Job Number	Weather	Pre Cleaned	PLR
9	1	06/12/22	9:15	PJ00463464	Dry	No	MH-S8X
Operator		Asset Location:		Camera	Preset Length	Legal Status	Alternative ID
J.Minty		Property with buildings		Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Rumney	Inspection Direction:	Downstream	Upstream Node:	MH-S8
Road:	St Illtyds School	Inspected Length:	8.27 m	US Pipe Depth:	0.00
Post Code:	CF3 1XQ	Total Length:	8.27 m	Downstream Node:	D/S NODE
Surface Type:	Grass	Joint Length:	1.00 m	DS Pipe Depth:	0.00
Asset Use:	Surface waste	Asset Shape:	Circular	Asset Type:	Gravity drain/sewer
Asset Type:	Gravity drain/sewer	Dia/Height:	225 mm	Asset Owner:	Private
Asset Owner:	Private	Asset Material:	Vitrified clay	Year Constructed:	Not Specified
Year Constructed:	Not Specified	Asset Lining Type:	No Lining	Inspection Purpose:	Condition survey
Inspection Purpose:	Condition survey	Asset Lining Material:	No Lining	Comments:	None
Comments:	None	Recommendations:	None	Recommendations:	None



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	165.0	44.1	365.0	5.0	0	0.0	0.0	0.0	1.0

**Section Pictures - 06/12/2022 - MH-S8X**

Item No.	Inspection Direction	PLR	Insp. No.	Lanes Job Number
9	Downstream	MH-S8X	9	PJ00463464



1, 00:00:46, 3.83 m  
 Fracture, circumferential at joint from 2 o'clock to 5 o'clock



2, 00:01:00, 4.94 m  
 Fracture spiral from 2 o'clock to 6 o'clock



3, 00:01:23, 7.90 m  
 Fracture, multiple from 12 o'clock to 12 o'clock



4, 00:01:35, 8.27 m  
 Collapsed drain or sewer



5, 00:01:37, 8.27 m  
 Survey abandoned, Camera unable to pass collapsed pipework