

CCTV DRAINAGE REPORT

- CCTV drain inspections
- Site Investigation
- Drain Tracing
- Home Buyers Drain Surveys
- Drain Tracing
- Drain Cleaning
- Patch lining
- Full length lining
- Repairs



CLIENT: CASTLEMEAD GROUP

SITE ADDRESS: KINGSLEY CIRCLE,
EATON DRIVE, WREXHAM, LL13 9BP



Project Information

Project Name	Project Number	Project Date
Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM		29/02/2024

Client

Company: Castlemead Group Ltd
Department: Banbury House
Street: 17 Wilkinson Business Park
Town or City: Wrexham
Post Code: LL13 9AE

Site

Department: Kingsley Circle
Street: Eaton Drive
Town or City: Wrexham
Post Code: LL13 9BP

Contractor

Company: PDS NW LTD
Department: UNIT A4 FLEXSPACE, ZONE 1
Street: DEESIDE INDUSTRIAL ESTATE
Town or City: DEESIDE
Post Code: CH5 2JZ
Phone: 0330 113 1586
Mobile: 07826063054
Email: steven@drain-solutions.com

Scoring Summary

Project Name	Project Number	Project Date
Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM		29/02/2024

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
1	SJ0451X	3	Multiple defects
5	SJ0511X	4	Hole in drain or sewer at 12 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	SJ0542X	4	Settled deposits, coarse, 20% cross-sectional area loss
5	SJ0511X	4	Attached deposits, fouling from 3 o'clock to 9 o'clock, 40% cross-sectional area loss
7	SJ0412X	3	Multiple defects

Abandoned Surveys

Section	PLR	Description
All inspections complete, none are abandoned.		

Information

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

Project Summary

Project Name
 Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM

Project Number

Project Date
 29/02/2024

Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	SJ0451X	SJ0451	SJ0542	Eaton Drive	Wrexham	S	VC	Circular 150mm	12.78 m
2	SEC	SJ0542X	SJ0542	MAIN	Eaton Drive	Wrexham	S	VC	Circular 150mm	22.15 m
3	SEC	SJ0510X	SJ0510	SJ0511	Eaton Drive	Wrexham	F	VC	Circular 150mm	39.10 m
4	SEC	REAR 13X	REAR 13	SJ0511	Eaton Drive	Wrexham	F	VC	Circular 150mm	28.77 m
5	SEC	SJ0511X	SJ0511	SJ0412	Eaton Drive	Wrexham	F	VC	Circular 150mm	19.27 m
6	SEC	SJ0513X	SJ0513	SJ0511	Eaton Drive	Wrexham	F	VC	Circular 100mm	13.35 m
7	SEC	SJ0412X	SJ0412	SJ0450	Eaton Drive	Wrexham	F	VC	Circular 225mm	19.85 m
8	SEC	SJ0413X	SJ0413	SJ0403	Eaton Drive	Wrexham	F	VC	Circular 225mm	18.96 m
9	SEC	SJ0450X	SJ0450	SJ0413	Eaton Drive	Wrexham	F	VC	Circular 225mm	23.53 m
Total:										197.76 m

Pipe Levels

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	SJ0451X	SJ0451			1.830 m	SJ0542			0.000 m
2	SJ0542X	SJ0542			2.000 m	MAIN			0.000 m
3	SJ0510X	SJ0510			1.430 m	SJ0511			0.000 m
4	REAR 13X	REAR 13			0.000 m	SJ0511			0.000 m
5	SJ0511X	SJ0511			0.000 m	SJ0412			1.230 m
6	SJ0513X	SJ0513			0.000 m	SJ0511			0.000 m
7	SJ0412X	SJ0412			0.000 m	SJ0450			0.000 m
8	SJ0413X	SJ0413			1.360 m	SJ0403			0.000 m
9	SJ0450X	SJ0450			0.000 m	SJ0413			0.000 m

Project Summary

Project Name Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM	Project Number	Project Date 29/02/2024
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Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 100mm	13.35 m	
Circular 100mm =	13.35 m	1
Circular 150mm	12.78 m	
Circular 150mm	22.15 m	
Circular 150mm	39.10 m	
Circular 150mm	28.77 m	
Circular 150mm	19.27 m	
Circular 150mm =	122.07 m	5
Circular 225mm	19.85 m	
Circular 225mm	18.96 m	
Circular 225mm	23.53 m	
Circular 225mm =	62.34 m	3
Total =	197.76 m	9

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	SJ0451	SJ0542	DS	A.Eaglesome	26/02/2015	16:11	3	2	MHF	12.78 m
2	1	SJ0542	MAIN	DS	A.Eaglesome	26/02/2015	16:11	1	4	BRF	22.15 m
3	1	SJ0510	SJ0511	DS	A.Eaglesome	26/02/2015	16:10	1	1	MHF	39.10 m
4	1	REAR 13	SJ0511	US	A.Eaglesome	26/02/2015	16:10	1	1	MHF	28.77 m
5	1	SJ0511	SJ0412	DS	A.Eaglesome	26/02/2015	16:10	4	4	MHF	19.27 m
6	1	SJ0513	SJ0511	US	A.Eaglesome	26/02/2015	16:10	1	1	MHF	13.35 m
7	1	SJ0412	SJ0450	DS	A.Eaglesome	26/02/2015	16:11	1	3	MHF	19.85 m
8	1	SJ0413	SJ0403	DS	A.Eaglesome	26/02/2015	16:11	2	2	MHF	18.96 m
9	1	SJ0450	SJ0413	US	A.Eaglesome	26/02/2015	16:11	2	2	MHF	23.53 m
Total:											197.76 m

Project Summary

Project Name Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM	Project Number	Project Date 29/02/2024
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Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 100mm	13.35 m	
Circular 100mm =	13.35 m	1
Circular 150mm	12.78 m	
Circular 150mm	22.15 m	
Circular 150mm	39.10 m	
Circular 150mm	28.77 m	
Circular 150mm	19.27 m	
Circular 150mm =	122.07 m	5
Circular 225mm	19.85 m	
Circular 225mm	18.96 m	
Circular 225mm	23.53 m	
Circular 225mm =	62.34 m	3
Total =	197.76 m	9

Defect Summary

Defect Summary				CCTV Drainage Survey Observation Count																				
				General				Structural Condition								Service Condition						Misc		
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	SJ0451	SJ0542	12.8					2														1	
2	1	SJ0542	MAIN	22.2																2			1	
3	1	SJ0510	SJ0511	39.1																			1	
4	1	REAR 13	SJ0511	28.8																			1	
5	1	SJ0511	SJ0412	19.3	1								1							1			1	1
6	1	SJ0513	SJ0511	13.4			2																2	
7	1	SJ0412	SJ0450	19.9																1			1	
8	1	SJ0413	SJ0403	19.0				1															2	
9	1	SJ0450	SJ0413	23.5				2															2	

Project Summary

Project Name Q301_CASTLEMEAD_KINGSLEY_CIRCLE_EATON_DRIVE_WREXHAM				Project Number				Project Date 29/02/2024			
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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
Total:				197.8	1		2	3	2				1							4			12	1

Section Inspection - 26/02/2015 - SJ0451X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	26/02/15	16:11	TBC	No Rain Or Snow	No	SJ0451X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0451
Road:	Eaton Drive	Inspected Length:	12.78 m	Upstream Pipe Depth:	1.830 m
Location:	Road	Total Length:	12.78 m	Downstream Node:	SJ0542
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:111	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.83 m SJ0451							
	0.00	MH	Start node, manhole, reference: SJ0451		00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension				
	0.48	FCJ	Fracture, circumferential at joint from 10 o'clock to 2 o'clock	00:00:04	1_SJ0451_SJ0542.jpg	3 / 2	
	3.23	FCJ	Fracture, circumferential at joint from 8 o'clock to 1 o'clock	00:00:10	SJ0451X_5130bcdbe9bb-4227	3 / 2	
	9.78	JN	Junction at 09 o'clock, 100mm dia		00:00:28		
	12.78	MHF	Finish node, manhole, reference: SJ0542		00:00:34		
SJ0542 Depth: m							

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	40.0	6.3	80.0	3.0	2	1.0	0.2	2.0	2.0

Section Pictures - 26/02/2015 - SJ0451X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	SJ0451X	TBC	Q0000301



1_SJ0451_SJ0542.jpg, 00:00:04, 0.48 m
Fracture, circumferential at joint from 10 o'clock to 2 o'clock



SJ0451X_5130bcdb-e9bb-4227-9cec-b6ff4069ea8d_20240229_135838_219.jpg, 00:00:10, 3.23 m
Fracture, circumferential at joint from 8 o'clock to 1 o'clock

Section Inspection - 26/02/2015 - SJ0542X

Item No. 2	Insp. No. 1	Date 26/02/15	Time 16:11	Client's Job Ref TBC	Weather No Rain Or Snow	Pre Cleaned No	PLR SJ0542X
Operator A.EAGLESOME		Vehicle MK68WMV		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0542
Road:	Eaton Drive	Inspected Length:	22.15 m	Upstream Pipe Depth:	2.000 m
Location:	Road	Total Length:	22.15 m	Downstream Node:	MAIN
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:192	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 2.00 m SJ0542							
		0.00	MH	Start node, manhole, reference: SJ0542	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension			
		7.44	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:25	SJ0542X_87ebbb8c-8673-4f92-
		8.84		DER	Settled deposits, coarse, 20% cross-sectional area loss	00:00:40	SJ0542X_c10e0930-6a47-449b
		10.82	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:20	
		22.15	BRF	Finish node, major connection without manhole, reference: MAIN	00:01:20		
MAIN Depth: m							

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	7.0	1.6	35.0	4.0

Section Pictures - 26/02/2015 - SJ0542X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	SJ0542X	TBC	Q0000301



SJ0542X_87ebbb8c-8673-4f92-aaf4-1be037cf3409_20240301_091208_562.jpg, 00:00:25, 7.44 m
Settled deposits, fine, 5% cross-sectional area loss, start



SJ0542X_c10e0930-6a47-449b-b98d-a363c4a99fd1_20240301_091229_308.jpg, 00:00:40, 8.84 m
Settled deposits, coarse, 20% cross-sectional area loss

Section Inspection - 26/02/2015 - SJ0510X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	1	26/02/15	16:10	TBC	No Rain Or Snow	No	SJ0510X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0510
Road:	Eaton Drive	Inspected Length:	39.10 m	Upstream Pipe Depth:	1.430 m
Location:	Road	Total Length:	39.10 m	Downstream Node:	SJ0511
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:339 Position [m] Code Observation MPEG Photo Grade

Depth: 1.43 m
SJ0510



0.00

MH

Start node, manhole, reference: SJ0510

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

39.10

MHF

Finish node, manhole, reference: SJ0511

00:01:29

SJ0511
Depth: m

Construction Features

Structural Defects

Miscellaneous Features

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 Inspection - 26/02/2015 - REAR 13X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	26/02/15	16:10	TBC	No Rain Or Snow	No	REAR 13X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Upstream	Upstream Node:	REAR 13
Road:	Eaton Drive	Inspected Length:	28.77 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	28.77 m	Downstream Node:	SJ0511
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:250 Position [m] Code Observation MPEG Photo Grade

Depth: m
SJ0511



0.00

MH

Start node, manhole, reference: SJ0511

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

28.77

MHF

Finish node, manhole, reference: REAR 13

00:01:16

REAR 13
Depth: m

Construction Features

Structural Defects

Miscellaneous Features

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
1	1.0	0.0	1.0	1.0	1	0.0	0.0	0.0	1.0

Section Inspection - 26/02/2015 - SJ0511X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	26/02/15	16:10	TBC	No Rain Or Snow	No	SJ0511X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0511
Road:	Eaton Drive	Inspected Length:	19.27 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	19.27 m	Downstream Node:	SJ0412
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.230 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:167	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SJ0511						
	0.00	MH	Start node, manhole, reference: SJ0511	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension			
	1.05	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:04		3
	4.57	H	Hole in drain or sewer at 12 o'clock: POSSIBLE HOLE	00:00:12	SJ0511X_ bc672735- 70ef-4b88-	4
	11.47	S01 DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, start	00:00:27	SJ0511X_ e4d35471- ab61-42d3	
	16.17	DEF	Attached deposits, fouling from 3 o'clock to 9 o'clock, 40% cross-sectional area loss	00:00:58	SJ0511X_ bd269a60- b32a-49d2	4
	16.74	F01 DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, finish	00:01:10		3
	16.74	LL	Line deviates left	00:01:10		
	19.27	MHF	Finish node, manhole, reference: SJ0412	00:01:23		
SJ0412 Depth: 1.23 m						

Construction Features

Structural Defects

Miscellaneous Features

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
1	80.0	4.2	80.0	4.0	3	7.0	1.0	19.0	4.0

Section Pictures - 26/02/2015 - SJ0511X

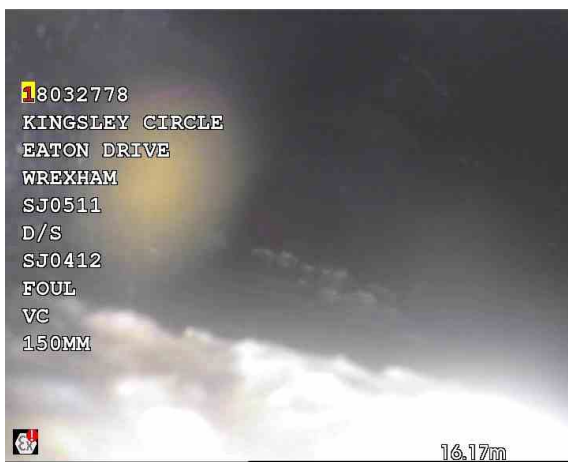
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	SJ0511X	TBC	Q0000301



SJ0511X_bc672735-70ef-4b88-bc77-8b9e5d36a7b8_20240301_092819_353.jpg, 00:00:12, 4.57 m
Hole in drain or sewer at 12 o'clock, POSSIBLE HOLE



SJ0511X_e4d35471-ab61-42d3-a042-d57c73febdfe_20240301_092846_152.jpg, 00:00:27, 11.47 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, start



SJ0511X_bd269a60-b32a-49d2-9dfc-6840527b5bdc_20240301_092927_168.jpg, 00:00:58, 16.17 m
Attached deposits, fouling from 3 o'clock to 9 o'clock, 40% cross-sectional area loss

Section Inspection - 26/02/2015 - SJ0513X

Item No. 6	Insp. No. 1	Date 26/02/15	Time 16:10	Client's Job Ref TBC	Weather No Rain Or Snow	Pre Cleaned No	PLR SJ0513X
Operator A.EAGLESOME		Vehicle MK68WMV		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	Upstream	Upstream Node:	SJ0513
Road:	Eaton Drive	Inspected Length:	13.35 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	13.35 m	Downstream Node:	SJ0511
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:116 Position [m] Code Observation MPEG Photo Grade

Depth: m
SJ0511

0.00 MH Start node, manhole, reference: SJ0511 00:00:00

0.00 WL Water level, 40% of the vertical dimension

0.00 S01 CUW Loss of vision, camera under water, start 00:00:05

10.67 F01 CUW Loss of vision, camera under water, finish 00:00:39

10.67 WL Water level, 10% of the vertical dimension 00:00:39

13.35 MHF Finish node, manhole, reference: SJ0513 00:00:48

Depth: m
SJ0513

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 Inspection - 26/02/2015 - SJ0412X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	1	26/02/15	16:11	TBC	No Rain Or Snow	No	SJ0412X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0412
Road:	Eaton Drive	Inspected Length:	19.85 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	19.85 m	Downstream Node:	SJ0450
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:172	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SJ0412							
	0.00	MH		Start node, manhole, reference: SJ0412	00:00:00		
	0.00	WL		Water level, 30% of the vertical dimension			
	0.47	S01	DER	Settled deposits, coarse, 15% cross-sectional area loss, start: UNDER WATER	00:00:04	SJ0412X_5a702869-e5e0-47f0-	
	12.18	DES		Settled deposits, fine, 10% cross-sectional area loss	00:00:39		3
	19.80	F01	DER	Settled deposits, coarse, 100% cross-sectional area loss, finish: UNDER WATER	00:01:04		3
	19.85	MHF		Finish node, manhole, reference: SJ0450	00:01:43		
SJ0450 Depth: m							

Construction Features

Structural Defects

Miscellaneous Features

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	4.0	2.1	42.0	3.0

Section Pictures - 26/02/2015 - SJ0412X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	SJ0412X	TBC	Q0000301



SJ0412X_5a702869-e5e0-47f0-a0bd-e8515b278e30_202403
01_093303_922.jpg, 00:00:04, 0.47 m
Settled deposits, coarse, 15% cross-sectional area loss, start,
UNDER WATER

Section Inspection - 26/02/2015 - SJ0413X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
8	1	26/02/15	16:11	TBC	No Rain Or Snow	No	SJ0413X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Downstream	Upstream Node:	SJ0413
Road:	Eaton Drive	Inspected Length:	18.96 m	Upstream Pipe Depth:	1.360 m
Location:	Road	Total Length:	18.96 m	Downstream Node:	SJ0403
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:165	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.36 m SJ0413							
	0.00	MH	Start node, manhole, reference: SJ0413		00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension				
	1.83	CCJ	Crack, circumferential at joint from 1 o'clock to 6 o'clock		00:00:06	SJ0413X_f 43602e6-3 80e-4d55-	2 / 2
	7.23	WL	Water level, 10% of the vertical dimension		00:00:17		
	18.96	MHF	Finish node, manhole, reference: SJ0403		00:00:41		
SJ0403 Depth: m							

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	0.5	10.0	2.0	1	1.0	0.1	1.0	2.0

Section Pictures - 26/02/2015 - SJ0413X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Downstream	SJ0413X	TBC	Q0000301



SJ0413X_f43602e6-380e-4d55-a9dc-8ed3b42e20cb_2024030
1_093447_858.jpg, 00:00:06, 1.83 m
Crack, circumferential at joint from 1 o'clock to 6 o'clock

Section Inspection - 26/02/2015 - SJ0450X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
9	1	26/02/15	16:11	TBC	No Rain Or Snow	No	SJ0450X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME		MK68WMV		Pushrod	Not Specified	Not Specified	Not Specified

Town or Village:	Wrexham	Inspection Direction:	Upstream	Upstream Node:	SJ0450
Road:	Eaton Drive	Inspected Length:	23.53 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	23.53 m	Downstream Node:	SJ0413
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:204	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SJ0413							
	0.00	MH		Start node, manhole, reference: SJ0413	00:00:00		
	0.00	WL		Water level, 5% of the vertical dimension			
	0.35	CC		Crack, circumferential from 10 o'clock to 2 o'clock	00:00:09		2 / 2
	1.51	JN		Junction at 2 o'clock, 100mm dia	00:00:12		
	1.52	CCJ		Crack, circumferential at joint from 7 o'clock to 12 o'clock	00:00:12	SJ0450X_941a9b09-fe52-4156-	2 / 2
	2.49	WL		Water level, 10% of the vertical dimension: FLOWING	00:00:14		
	7.40	JN		Junction at 2 o'clock, 100mm dia	00:00:24		
	18.50	JN		Junction at 2 o'clock, 100mm dia	00:00:45		
	23.53	MHF		Finish node, manhole, reference: SJ0450	00:00:54		
SJ0450 Depth: m							

Construction Features

Structural Defects

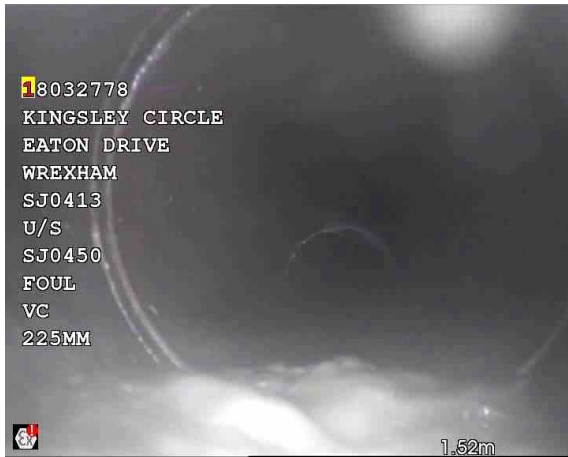
Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	10.0	0.9	20.0	2.0	2	1.0	0.1	2.0	2.0

Section Pictures - 26/02/2015 - SJ0450X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	SJ0450X	TBC	Q0000301



SJ0450X_941a9b09-fe52-4156-8da6-3a8a9d3f0437_2024030
1_093716_502.jpg, 00:00:12, 1.52 m
Crack, circumferential at joint from 7 o'clock to 12 o'clock

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