



**Project**

**Project Name:**

**Project Description:** CCTV Drainage Survey

**Project Number:** 2019-272

**Project Date:** 05/07/2019

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



## Table of Contents

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	2019-272	05/07/2019

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## Section Summary

<b>Project Name</b>	<b>Project Number</b> 2019-272	<b>Project Date</b> 05/07/2019
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Number of sections	2
Total length of sewer network	6.62 m
Total length of inspections	6.62 m
Total length of abandoned inspections	0.00 m
Total abandoned inspections	2
Number of section inspection photos	17
Number of section inspection videos	2
Number of section inspection scans	0
Number of section inclination measurements	0

<b>PLR:</b>	Outfall 1X	<b>Upstream Node:</b>	Outfall 1
<b>Inspection Direction:</b>	Upstream	<b>Downstream Node:</b>	Outfall 2
<b>Inspected Length:</b>	5.21 m	<b>Dia/Height:</b>	225 mm
<b>Total Length:</b>	5.21 m	<b>Material:</b>	Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	OF	Start node type, outfall, reference number: Outfall 2
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	OJL	Open joint, large
4	0.72	OJL	Open joint, large
5	1.18	CCJ	Crack, circumferential at joint from 2 o'clock to 6 o'clock
6	1.22	OJM	Open joint, medium
7	1.94	OJM	Open joint, medium
8	1.94	DECJ	Settled deposits, hard or compacted at joint, 5% cross-sectional area loss
9	2.81	OJM	Open joint, medium
10	2.93	CCJ	Crack, circumferential at joint from 9 o'clock to 1 o'clock
11	3.69	OJM	Open joint, medium
12	4.48	OJL	Open joint, large
13	4.56	BJ	Broken pipe at joint from 10 o'clock to 11 o'clock
14	4.90	XP	Collapsed drain or sewer
15	5.21	SA	Survey abandoned, due to collapse

<b>PLR:</b>	Outfall 1X	<b>Upstream Node:</b>	Outfall 1
<b>Inspection Direction:</b>	Downstream	<b>Downstream Node:</b>	Outfall 2
<b>Inspected Length:</b>	1.41 m	<b>Dia/Height:</b>	225 mm
<b>Total Length:</b>	1.41 m	<b>Material:</b>	Vitrified clay pipe

No.	m+	Code	Observation
1	0.00	OC	Start node type, other special chamber, reference number: Inlet, Inlet



## Section Summary

<b>Project Name</b>	<b>Project Number</b> 2019-272	<b>Project Date</b> 05/07/2019
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No.	m+	Code	Observation
2	0.00	WL	Water level, 15% of the vertical dimension
3	0.00	DER	Settled deposits, coarse, 80% cross-sectional area loss
4	1.06	OJM	Open joint, medium
5	1.41	XP	Collapsed drain or sewer
6	1.41	SA	Survey abandoned, Overlap complete

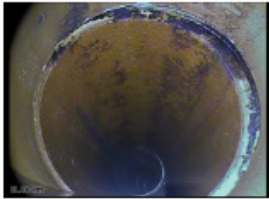


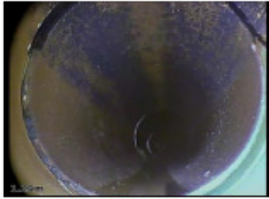

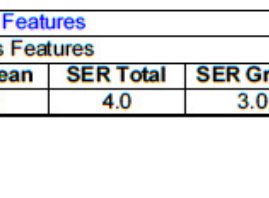


## Section Inspection - 03/07/2019 - Outfall 1X

Section 1	Inspection 4	Date 03/07/19	Time 15:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR OUTFALL 1X
Operator		Vehicle		Camera Scanprobe Pushrod System	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: OUTFALL 1	
Road:	Church Road	Inspected Length:	5.21 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	5.21 m	Downstream Node: OUTFALL 2	
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm	Width:	225 mm
Year Constructed:		Material:	Vitrified clay pipe		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Investigation of suspected operational problem	Lining Material:	No Lining		

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

Scale: 1:50	Position [m]	Code	Observation	Grade	
	Depth: m				
	Outfall 2				
	0.00	OF	Start node type, outfall, reference number: Outfall 2		
	0.00	WL	Water level, 0% of the vertical dimension		
	0.00	OJL	Open joint, large	1	0.00m // 00:00:02.87 //
	0.72	OJL	Open joint, large	1	
	1.18	CCJ	Crack, circumferential at joint from 2 o'clock to 6 o'clock	2 / 2	
	1.22	OJM	Open joint, medium	1	0.72m // 00:00:09.96 //
	1.94	OJM	Open joint, medium	1	
	1.94	DECJ	Settled deposits, hard or compacted at joint, 5% cross-sectional area loss	3	1.18m // 00:00:12.18 //
	2.81	OJM	Open joint, medium	1	
	2.93	CCJ	Crack, circumferential at joint from 9 o'clock to 1 o'clock	2 / 2	1.22m // 00:00:12.50 //
	3.69	OJM	Open joint, medium	1	
	4.48	OJL	Open joint, large	1	1.22m // 00:00:12.50 //
	4.56	BJ	Broken pipe at joint from 10 o'clock to 11 o'clock	4	
	4.90	XP	Collapsed drain or sewer	5	1.94m // 00:00:17.00 //
	5.21	SA	Survey abandoned: due to collapse		

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
11	165.0	52.8	275.0	5.0	3	2.0	0.8	4.0	3.0





### Section Pictures - 03/07/2019 - Outfall 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:02, 0.00 m  
Open joint, large



, 00:00:09, 0.72 m  
Open joint, large



**Section Pictures - 03/07/2019 - Outfall 1X**

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:12, 1.18 m  
Crack, circumferential at joint from 2 o'clock to 6 o'clock



, 00:00:12, 1.22 m  
Open joint, medium



### Section Pictures - 03/07/2019 - Outfall 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:17, 1.94 m  
Open joint, medium



, 00:00:17, 1.94 m  
Settled deposits, hard or compacted at joint, 5% cross-sectional area loss





### Section Pictures - 03/07/2019 - Outfall 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:20, 2.81 m  
Open joint, medium



, 00:00:22, 2.93 m  
Crack, circumferential at joint from 9 o'clock to 1 o'clock



**Section Pictures - 03/07/2019 - Outfall 1X**

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:26, 3.69 m  
Open joint, medium



, 00:00:30, 4.48 m  
Open joint, large





**Section Pictures - 03/07/2019 - Outfall 1X**

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:30, 4.56 m  
Broken pipe at joint from 10 o'clock to 11 o'clock



, 00:00:38, 4.90 m  
Collapsed drain or sewer



**Section Pictures - 03/07/2019 - Outfall 1X**

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	OUTFALL 1X		2019-272



, 00:00:47, 5.21 m  
Survey abandoned, due to collapse





**Section Inspection - 03/07/2019 - Outfall 1X**

Section 2	Inspection 5	Date 03/07/19	Time 15:57	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR OUTFALL 1X
Operator		Vehicle		Camera Scanprobe Pushrod System	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

<b>Town or Village:</b>		<b>Inspection Direction:</b>	Downstream	<b>Upstream Node:</b>	OUTFALL 1
<b>Road:</b>	Church Road	<b>Inspected Length:</b>	1.41 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Road	<b>Total Length:</b>	1.41 m	<b>Downstream Node:</b>	OUTFALL 2
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	

<b>Use:</b>	Surface water	<b>Pipe Shape:</b>	Circular
<b>Type of Pipe:</b>	Gravity drain/sewer	<b>Dia/Height:</b>	225 mm <b>Width:</b> 225 mm
<b>Year Constructed:</b>		<b>Material:</b>	Vitrified clay pipe
<b>Flow Control:</b>	No flow control	<b>Lining Type:</b>	No Lining
<b>Inspection Purpose:</b>	Investigation of suspected operational problem	<b>Lining Material:</b>	No Lining

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

Scale: 1:50	Position [m]	Code	Observation	Grade
	0.00	OC	Start node type, other special chamber, reference number: Inlet: Inlet	 0.00m // 00:00:03.18 //
	0.00	WL	Water level, 15% of the vertical dimension	
	0.00	DER	Settled deposits, coarse, 80% cross-sectional area loss	5
	1.06	OJM	Open joint, medium	1
	1.41	XP	Collapsed drain or sewer	5
	1.41	SA	Survey abandoned: Overlap complete	 1.41m // //
				 1.41m // //

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	165.0	117.7	166.0	5.0	1	10.0	7.1	10.0	5.0



### Section Pictures - 03/07/2019 - Outfall 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	OUTFALL 1X		2019-272



, 00:00:03, 0.00 m  
Settled deposits, coarse, 80% cross-sectional area loss



, 00:00:11, 1.06 m  
Open joint, medium





### Section Pictures - 03/07/2019 - Outfall 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	OUTFALL 1X		2019-272



, 1.41 m  
Collapsed drain or sewer



, 1.41 m  
Survey abandoned, Overlap complete