https://relineeurope.com/bilder/PDF-Bro-Int/REL-Br_Alphaliner_en.pdf

Lanes Group Plc

ACS Const Fallowfield Campus

14 February 2020

Lanes Group Plc
300 Lansdowne Road, Eccles, Manchester, M30 9PJ
0161 788 2222
www.lanesgroup.com

Lanes Group plc - CCTV Report - Defect Grade Summary

The defect codes and observations used in this report are colour coded and fall into four main categories. Please refer to the descriptions below:

Structural Observations/Defects:

These codes/observations relate to the structural integrity of the drain or sewer and include defects such as cracks, fractures, moderate joint defects, holes, breaks and surface wear.

- Grade 3: Best practice suggests a medium term repair schedule is planned due to possible deterioration.
- Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential collapse or increased damage.
- Grade 5: Best practice suggests an immediate repair schedule as the risk of collapse or further structural damage is very high.

Service Observations/Defects:

These codes/observations relate to the hydraulic efficiency of the drain or sewer, its capability to meet its service requirements, loss of capacity, potential for blockage/s and water tightness.

- Grade 3: Best practice suggests a medium term maintenance schedule is planned.
- Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential blockages and/or flooding.
- Grade 5: Best practice suggests an immediate maintenance schedule is implemented as the risk of blockages and/or flooding is very high.

Miscellaneous Observations/Defects

These codes/observations relate to general items concerning the drain or sewer and cover changes to size, shape and materials, general remarks and photographs, vermin and abandoned surveys. These items should be considered individually by referring to the remarks presented in the section reports.

Construction Observations/Defects

These codes/observations relate to the general construction of the drain or sewer and covers connections/junctions, Lining and sealing defects, Node points and point repairs. These items should be considered individually by referring to the remarks presented in the section reports.

Thank you for choosing Lanes Group plc

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

CCTV reports overview

Profile Report 1

Inspection: 1

Project Information 2

Section: 1, LEG A --- F83 3

Section: 2, LEG A --- F24 4

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

/ Main sections

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
1	LEG A	F83	13/02/2020	Fallowfield Campus	100 mm	Clay pipe	10.34	10.34
2	LEG A	F24	13/02/2020	Fallowfield Campus	100 mm	Clay pipe	7.96	7.96

Pipe size: CIRCULAR 100/100 = 18.3 m (18.3 m)

All sections = 18.3 m (18.3 m)

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

Project Information Overview:

Client:	**ACS Construction Group Limited**
Contact Name:	
Department:	**Lansdowne House - Unit 11 Oak Green**
Road:	**Stanley Green Business Park**
Town:	**Stockport**
County:	**SK8 6QL**
Telephone:	
Fax:	
Mobile:	
E-mail:	

Site:	**ACS Construction Group Limited**
Contact Name:	
Department:	
Road:	**Fallowfield Campus**
Town:	**Manchester**
County:	**M14 6PA**
Telephone:	
Fax:	
Mobile:	
E-mail:	

Contractor	**Lanes Group Plc**
Contact Name:	**Paul Lynch**
Department:	**Regional Manager**
Road:	**Lansdowne Road**
Town:	**Eccles**
County:	**Manchester**
Telephone:	**0161 788 2222**
Fax:	
Mobile:	
E-mail:	

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
13/02/2020	PJ362527	CCTV	PETER	Dry	1
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
Grass	PK63 KFW	Pushrod			10.34 m

Street/Road:	Fallowfield Campus	**Flow Control:**	No flow control	**U/S MH:**	**LEG A**
Town/City:	Manchester	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	
Postcode:	M14 6POA	**Owner:**	Private	**D/S MH :**	**F83**
Location:	Grass verge	**Direction:**	F83 (U/S) LEG A	**D/S Depth(m):**	

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Carrier	**Asset width (mm):**	100 mm
Purpose:	Post repair	**Asset shape:**	Circular
Asset Lining:	Resin - Liner	**Asset material:**	Clay pipe

Comments:

1:90	Position	Observations and Remarks	Grade
F83			
	0.00	Start node type, manhole, reference number : F83	(Constr) 0
	0.01	Water level, 5% of the vertical dimension	(Serv) 0
	1.68	Line deviates right	(Serv) 0
	7.45	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
	8.63	Line deviates right	(Serv) 0
	10.34	Finish node type, other special chamber reference number: LEG A Remarks: SVP	(Constr) 0
LEG A			

Structural Defects | **Constructional Features**

Service Defects | **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	1	0	0	0	0	1

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

Lanes Group - Drainage CCTV Inspection report

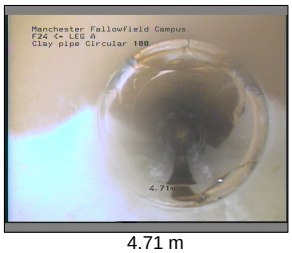
Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
13/02/2020	PJ362527	CCTV	PETER	Dry	2
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
Grass	PK63 KFW	Pushrod			7.96 m

Street/Road:	Fallowfield Campus	**Flow Control:**	No flow control	**U/S MH:**	**LEG A**
Town/City:	Manchester	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	
Postcode:	M14 6POA	**Owner:**	Private	**D/S MH :**	**F24**
Location:	Grass verge	**Direction:**		**D/S Depth(m):**	

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Carrier	**Asset width (mm):**	100 mm
Purpose:	Post repair	**Asset shape:**	Circular
Asset Lining:	Resin - Liner	**Asset material:**	Clay pipe

Comments:

1:75 Position	Observations and Remarks	Grade
LEG A		
0.00	Start node type, manhole, reference number : F24	(Constr) 0
0.01	Water level, 5% of the vertical dimension	(Serv) 0
1.50	Line deviates down	(Serv) 0
1.50	Line deviates left	(Serv) 0
4.71	Fracture, circumferential at joint, from 10 to 2 o'clock Remarks: Fracture	(Struct) 3
5.74	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
6.11	Line deviates right	(Serv) 0
7.96	Finish node type, other special chamber reference number: F24 Remarks: SVP	(Constr) 0
F24		



4.71 m

Structural Defects					Constructional Features				
Service Defects					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	1	0	0	0	0	1

Lanes Group Plc
Lansdowne Road
Eccles
Manchester
Tel: 0161 788 2222
Email:

Observation Inspection Photographs:

City:	Road Name:	Date :	Section number :	Asset Size(mm):
Manchester	Fallowfield Campus	13/02/2020	2	100 mm

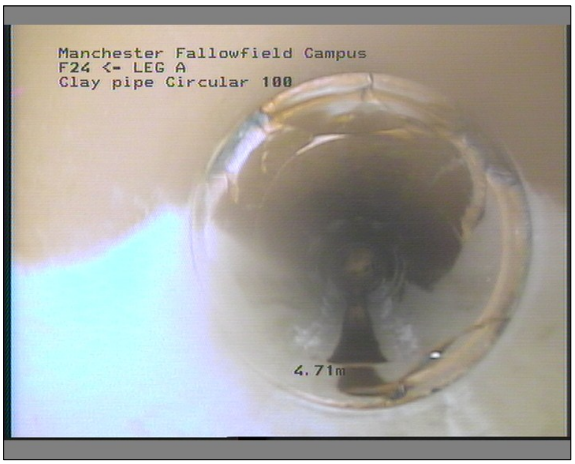


Photo: 52513022020150113_A.JPG
4.71m, Fracture, circumferential at joint, from 10 to 2 o'clock

N

ALL BRANCH RUNS WITH INTERNAL CONNECTIONS/JUNCTIONS BENEATH THE SLAB TO BE RODDABLE FROM ABOVE GROUND INTERNALLY

BLOCK 2
F.F.L. 44.200m

ENERGY CENTRE
F.F.L. 44.800m

BLOCK 1
F.F.L. 45.650m

BLOCK 3
F.F.L. 44.950m

BLOCK 4
F.F.L. 44.950m

BLOCK 5
F.F.L. 45.150m

BLOCK 6
F.F.L. 45.150m

BLOCK 7
F.F.L. 45.550m

BLOCK 8
F.F.L. 45.500m

BLOCK 8
F.F.L. 45.950m

BLOCK 8
F.F.L. 45.950m

fracture 1.32m from f44 @ 12 O'clock (lining by lanes)

Hole in drain 1.37m from f45 @12 O'clock (lining done by lanes)

Fracture 1.07m from f45 @ 12 O'clock

Screed removed from pipe and lining done by Lanes

Broken pipe 1.47m from f25 (Lining done by lanes)

Screed in channel, jetted and removed by lanes.

open joint @ 1.12m (lining by Lanes)

Open Joint @ 10.0m (lining done by Gunn)

Open Joint @ 8.71m (Lining by Lanes)

Open Joint @ 9.69m from f107 (lining by Gunn)

Cap end left on pipe (pipe redundent)

Joint displaced @ 0.34m and @3.10m (lined Lanes)

Joint displaced @ 0.92m and 3.12m - scaffold clip stuck in line (lining and scaffold clip removed by Lanes)

Cracked rocker pipe @ 0.00 (lining done by Lanes.

open joint @ 0.36 (Pipe removed and replaced by ACS)

9 to 24

CHANCELLORS WAY

EXISTING 300mm PUBLIC WATER SEWER

NEW CONNECTION INTO EXISTING 300mm PUBLIC SEWER VIA EXISTING SURFACE WATER SEWER TO BE LOCATED PRIOR TO COMMENCEMENT OF WORKS

CONNECTION INTO EXISTING SEWER

ESS

L Twr

L Twr

L Twr

L Twr

LEGEND

- PRIVATE SURFACE WATER DRAINAGE
- PRIVATE FOUL WATER DRAINAGE
- SITE BOUNDARY
- ACO DRAINAGE CHANNEL OR SIMILAR
- PRIVATE SURFACE WATER GULLY
- PRIVATE FOUL WATER GULLY
- FLOW CONTROL UNIT WITHIN ADOPTABLE MANHOLE SUBJECT TO S104 APPROVAL
- PRIVATE LAND DRAIN
- PRIVATE CATCHPIT MANHOLE

REV	DATE	DESCRIPTION	BY	CHK	APP
C15	30.09.2019	AMAZON STORAGE DROP OFF AREA ADDED	AM	Mac	JMM
C14	10.09.2019	LINE DRAINS ADDED - GULLY TO NEW BIN STORE ADDED	PL	Mac	JMM
C13	27.02.2019	PPICS F153 AND F154 ADDED TO THE EXTERNAL AREA OF BLOCK 2	AM	Mac	JMM
C12	27.01.2019	FINAL CONSTRUCTION ISSUE	JMM	Mac	JMM
C11	18.01.2019	OIL BYPASS SEPERATOR SPECIFICATION ADDED	JMM	Mac	JMM
C10	19.12.2018	NOTE REGARDING TEMPORARY LAND DRAINAGE CONNECTION ADDED	JMM	Mac	JMM
C9	31.07.2018	FOUL OUTFALL MANHOLES ADJUSTED TO SUIT SITE CONSTRAINTS	JMM	Mac	JMM
C8	24.07.2018	BLK-2 S83 UPRATED. BLK-6 DRY RISERS ADDED TO FIR. BLK-7 LAND DRAINS HIGHLIGHTED	LS	Mac	JMM
C7	22.06.2018	ADDITIONAL RWP TO BLOCK 8. INCORRECT EXTERNAL RWP'S REMOVED TO BLOCK 8	Mac	Mac	JMM
C6	07.06.2018	FOUL DRAINAGE UPDATED SURROUNDING BLOCK 6 AND ENERGY CENTRE	LS	Mac	JMM
C5	01.06.2018	UPDATED TO SUIT CONFIRMED FOUL BRANCH CONNECTIONS BLOCKS 4 & 5. LAND DRAIN ADDED TO REAR OF PLOT 4. MINOR AMENDMENTS TO BRANCH CONNECTIONS	Mac	Mac	JMM
C4	20.05.2018	UPDATED TO SUIT CONFIRMED FOUL BRANCH CONNECTIONS BLOCKS 2 & 8. LANDSCAPING PLAN AND LEVELS INCORPORATED. GULLY POSITIONS AMENDED	Mac	Mac	JMM
C3	09.05.2018	UPDATED TO SUIT ANTICIPATED FOUL BRANCH CONNECTIONS BLOCKS 2, 4 & 5	LS	Mac	JMM
C2	30.04.2018	UPDATED TO SUIT CONFIRMED FOUL BRANCH CONNECTIONS BLOCKS 3, 6 & 7	Mac	JMM	JMM
C1	16.04.2018	CONSTRUCTION ISSUE	Mac	JMM	JMM

DRAWING STATUS: **FINAL CONSTRUCTION ISSUE**

CLIENT: VINCI

ARCHITECT: MICHAEL HYDE & ASSOCIATES

PROJECT: OWENS PARK FALLOWFIELD

TITLE: FULL SITE DRAINAGE LAYOUT

STATUS:	PROJECT NUMBER:	DRAWING No:	REV:
S2	218-078	FLF-AJP-XX-00-DR-C-1000	C15

SCALE @ A0	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:500	N.McGorry	N.McGorry	N.McGorry	J.Murphy	APRIL 2018

alan johnston partnership LLP
CONSULTING STRUCTURAL & CIVIL ENGINEERS
1 Dale Street, Liverpool L2 2ET
Tel: 0151 227 1462
Fax: 0151 225 1187
E-Mail: Mail@ajpstructeng.com



Fallowfield Campus, Fallowfield.

CIPP Patch Liner Repair

19th - 20th November 2019

Civil Engineering, Drainage and Groundwork Contractors

Specialists in CIPP Lining Installations, CCTV Surveys,
Man Entry Sewer & Culvert Traverse Surveys,
High Pressure Water Jetting, Sewer, Drain & Culvert Cleaning,
Septic Tank Emptying & Interceptor Cleaning,
Sonar Drain Tracing, Drain Repairs & Replacements,
Sewer Connections and Site Investigation Excavations.

General Utilities Northwest Limited
Unit 1, Boundary Trading Park
Liverpool Road, Irlam
Manchester M44 6FB
tel: 0161 776 0011
fax: 0161 776 0044
email: generalutilities @btconnect.com
website: www.generalutilitiesnorthwest.co.uk

Company Reg. No. 6468779

CUSTOMER ACCEPTANCE RECEIPT

4247

SITE ADDRESS

Fallowfield campus
A.C.S

WORK CARRIED OUT

19-11-19 - DK56 - van Jetter A. Maidment
PK07 - cctv M. Mcglain — 1 day

installed 3 x cipp liners 1 x 150mm 2 x 100mm
1 day van Jetter

20-11-19 DK56 - M. Smith, P. Ratcliffe
1 day PK07 - cctv - A. Maidment M. Mcglain
4HRS CN56 - V. Thorpe, C Perkins Gully wagon
attempted to re line 4 defect's but unable
to pass bend's with packer. completed work on
block 6,

PLEASE SIGN AND RETURN PINK COPY TO THE ABOVE ADDRESS

RECEIVED	DATE
S WRIGHT	19-11-19 20-11-19

General Utilities Northwest LTD
Irlam
Manchester
Tel: 0161 776 0011, Fax: 0161 776 0044

Defect Grade Description

1:	Brick: No Structural Defects Pipe: No Structural Defects **Acceptable Structural Condition**
2:	Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight Pipe: Circumfrential crack, Moderate joint defects,, Spalling slight, Wear slight **Minor collapse risk in short term but potential for further deterioration**
3:	Brick: Total mortorloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint defects, Spalling medium, Wear medium **! Collapse unlikely in near future but future deterioration likely !**
4:	Brick: Total mortorloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multiple fractures, Serious loss of level, spalling large, wear large **!! Collapse likely in foreseeable future !!**
5:	Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10% **!!! Collapsed or collapse imminent !!!**

General Utilities Northwest Limited
Unit 1, Boundary Trading Park,
Liverpool Road, Irlam, Manchester M44 6FB
tel: 0161 776 0011 *fax:* 0161 776 0044
email: generalutilities@btconnect.com
website: www.generalutilitiesnorthwest.co.uk

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∑∅ / Main sections

Project name :	Project number :	Contact :	Date :
FALLOWFIELD REMIDIAL WORKS			**19/11/2019**

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	PIPE C	F45	19/11/2019	BLOCK 102		Vitrified clay	9.21	9.21
2	PIPE B	F45	20/11/2019	BLOCK 102		Vitrified clay	7.45	7.45
3	PIPE B	F44	20/11/2019	BLOCK 102		Vitrified clay	9.53	9.53
5	PIPE A	F107	20/11/2019	BLOCK 108		Vitrified clay	10.14	10.14
6	PIPE C	F105	20/11/2019	BLOCK 107		Vitrified clay	11.25	11.25
Pipe size: CIRCULAR 100 = 47.58 m (47.58 m)								

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
4	F109	F110	20/11/2019	BLOCK 108		Vitrified clay	2.96	2.96
Pipe size: CIRCULAR 150 = 2.96 m (2.96 m)								

All sections = 50.54 m (50.54 m)

Inspection Summary

Project Name:	Project number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Total Length of sewer network	**50.54 m**
Inspected Length of sewer network	**50.54 m**
Not inspected Length of sewer network	**0.00 m**
Total Length of sewer network (abandoned)	**0.00 m**
Inspected Length of Sewer network (abandoned)	**0.00 m**
Not inspected Length of sewer network (abandoned)	**0.00 m**
Total Length of house connections (satellite)	**0.00 m**
Inspected Length of house connections (satellite)	**0.00 m**
Not inspected Length of house connections (satellite)	**0.00 m**
Number of Sections	**6**
Number of sections (abandoned)	**0**
Number of house connections	**0**
Number of Photos	**45**

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	9.21 m
Road:	BLOCK 102	Pipe length:	
U/S MH:	PIPE C	Material:	Vitrified clay
D/S MH:	F45	Shape:	Circular

F45	0.00	MH	Start node type, manhole, reference number : F45	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.53	LU	Line deviates up, Start	0
	1.22	LU	Line deviates up, End	0
	1.22	OJM	Open joint, medium	1
	1.24	H	Hole in drain/sewer, from 1 to 3 o'clock	4
	5.88	GP	General photograph taken at this point	0
	8.89	LU	Line deviates up	0
PIPE C	9.21	MHF	Finish node type, manhole reference number: PIPE C	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	7.45 m
Road:	BLOCK 102	Pipe length:	
U/S MH:	PIPE B	Material:	Vitrified clay
D/S MH:	F45	Shape:	Circular

F45	0.00	MH	Start node type, manhole, reference number : F45	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.10	LR	Line deviates right	0
	0.56	LU	Line deviates up, Start	0
	1.10	LU	Line deviates up, End	0
	1.10	FM	Fracture, multiple, from 11 to 6 o'clock	4
	1.33	OJM	Open joint, medium	1
	4.56	GP	General photograph taken at this point	0
	6.89	LU	Line deviates up	0
PIPE B	7.45	MHF	Finish node type, manhole reference number: PIPE B	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	9.53 m
Road:	BLOCK 102	Pipe length:	
U/S MH:	PIPE B	Material:	Vitrified clay
D/S MH:	F44	Shape:	Circular

F44	0.00	MH	Start node type, manhole, reference number : F44	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.00	LU	Line deviates up, Start	0
	0.97	LU	Line deviates up, End	0
	0.97	FL	Fracture, longitudinal, at 12 o'clock	3
	1.29	OJM	Open joint, medium	1
	7.05	GP	General photograph taken at this point	0
	9.00	LU	Line deviates up	0
PIPE B	9.53	MHF	Finish node type, manhole reference number: PIPE B	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	2.96 m
Road:	BLOCK 108	Pipe length:	
U/S MH:	F109	Material:	Vitrified clay
D/S MH:	F110	Shape:	Circular

F109	0.00	MH	Start node type, manhole, reference number : F109	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.00	GP	General photograph taken at this point	0
	1.53	RPL	Point repair, localised lining, from 12 to 12 o'clock	0
	1.88	GP	General photograph taken at this point	0
	2.21	GP	General photograph taken at this point	0
	2.96	JN	Junction, at 6 o'clock, diameter 150mm	0
F110	2.96	MHF	Finish node type, manhole reference number: F110	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	10.14 m
Road:	BLOCK 108	Pipe length:	
U/S MH:	PIPE A	Material:	Vitrified clay
D/S MH:	F107	Shape:	Circular

F107	0.00	MH	Start node type, manhole, reference number : F107	0
	0.00	WL	Water level, 10% of the vertical dimension	0
	0.00	GP	General photograph taken at this point	0
	0.34	LU	Line deviates up	0
	1.85	LR	Line deviates right	0
	2.37	RPL	Point repair, localised lining, from 12 to 12 o'clock	0
	2.85	GP	General photograph taken at this point	0
	5.07	JN	Junction, at 9 o'clock, diameter 100mm	0
	6.94	JN	Junction, at 9 o'clock, diameter 100mm	0
	9.49	LU	Line deviates up	0
PIPE A	10.14	MHF	Finish node type, manhole reference number: PIPE A	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
FALLOWFIELD REMIDIAL WORKS			19/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	11.25 m
Road:	BLOCK 107	Pipe length:	
U/S MH:	PIPE C	Material:	Vitrified clay
D/S MH:	F105	Shape:	Circular

F105	0.00	MH	Start node type, manhole, reference number : F105	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.08	LL	Line deviates left	0
	0.57	GP	General photograph taken at this point	0
	2.00	LL	Line deviates left	0
	7.43	JN	Junction, at 3 o'clock, diameter 100mm	0
	7.86	JN	Junction, at 3 o'clock, diameter 100mm	0
	10.03	RPL	Point repair, localised lining, from 12 to 12 o'clock	0
	10.27	GP	General photograph taken at this point	0
	10.49	GP	General photograph taken at this point	0
PIPE C	11.25	MHF	Finish node type, manhole reference number: PIPE C	0

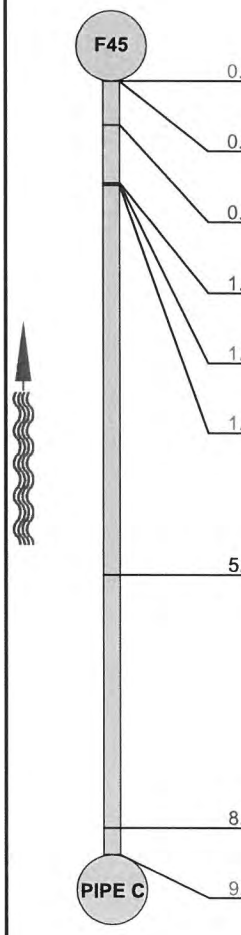
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
19/11/2019		**no rain or snow**	**A.MAIDMENT**	**1**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

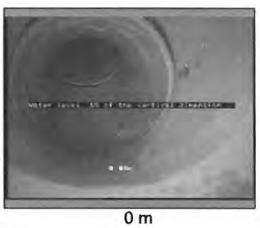
Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE C**
Road :	**BLOCK 102**	Catchment:		U/S Depth :	
Location	**Other Pedestrian area**	Tape number :		D/S MH :	**F45**
Inspection	**F45 (U/S) PIPE C**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Investigation of known defects**	Pipe material :	**Vitrified clay**
Total length :	**9.21 m**	Lining :	

Comment : **WATER TURNED OFF**



1:84 Position		Code	Observation	Grade
0.00		MH	Start node type, manhole, reference number : F45 Remarks: UP/S C	(Constr) 0
0.00		WL	Water level, 5% of the vertical dimension	(Serv) 0
0.53	S01	LU	Line deviates up, Start	(Serv) 0
1.22	F01	LU	Line deviates up, End	(Serv) 0
1.22		OJM	Open joint, medium	(Struct) 1
1.24		H	Hole in drain/sewer, from 1 to 3 o'clock	(Struct) 4
5.88		GP	General photograph taken at this point	(Misc) 0
8.89		LU	Line deviates up	(Serv) 0
9.21		MHF	Finish node type, manhole reference number: PIPE C Remarks: AT LINE UP	(Constr) 0


0 m


0.53 m


1.22 m


1.24 m


5.88 m

Structural Defects					Constructional Features				
Service Defects					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	81	8.79	81	4	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**19/11/2019**	**1**	**X**

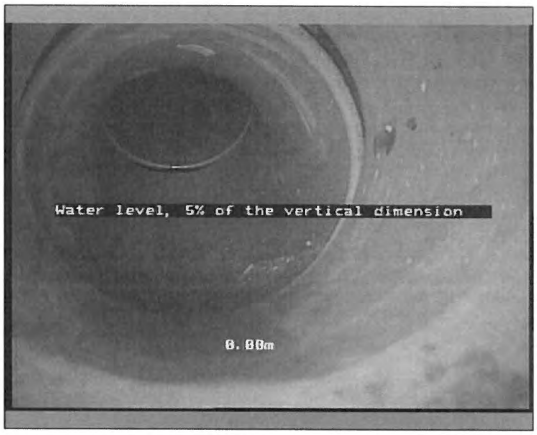


Photo: 1_1_3_A.JPG, 00:00:03
0m, Water level, 5% of the vertical dimension

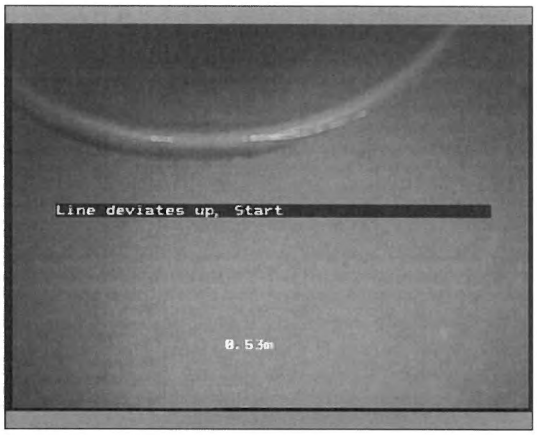


Photo: 1_1_4_A.JPG, 00:00:17
0.53m, Line deviates up, Start

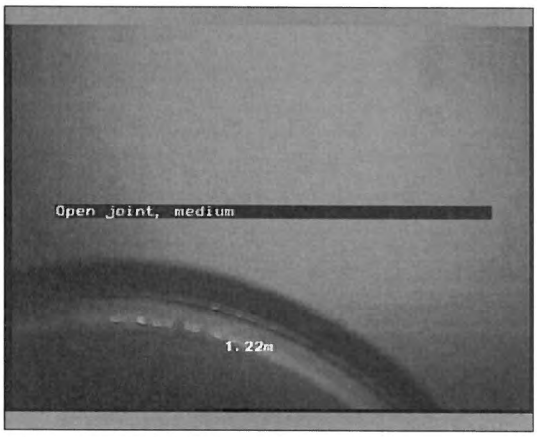


Photo: 1_1_6_A.JPG, 00:00:41
1.22m, Open joint, medium

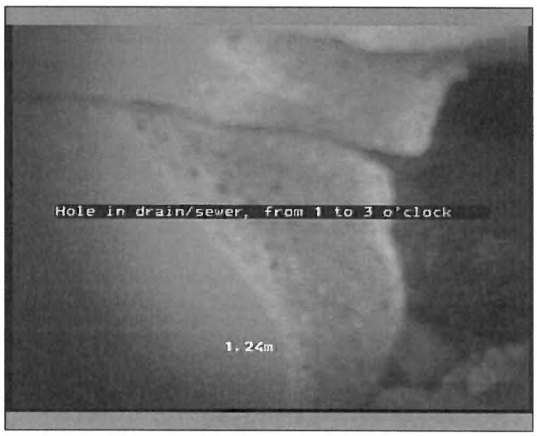


Photo: 1_1_7_A.JPG, 00:00:54
1.24m, Hole in drain/sewer, from 1 to 3 o'clock

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**19/11/2019**	**1**	**X**

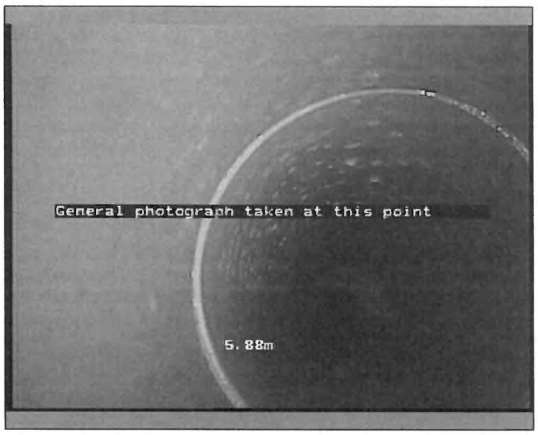


Photo: 1_1_8_A.JPG, 00:01:44
5.88m, General photograph taken at this point

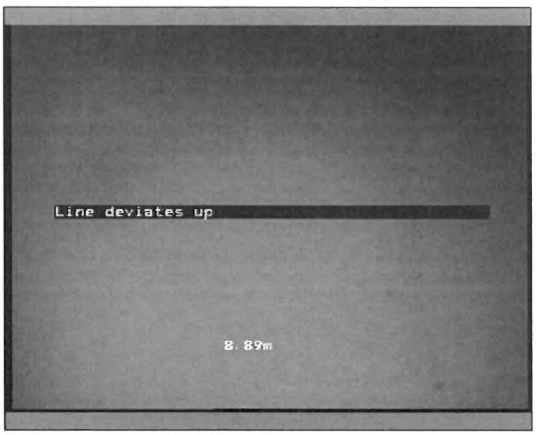


Photo: 1_1_9_A.JPG, 00:02:09
8.89m, Line deviates up

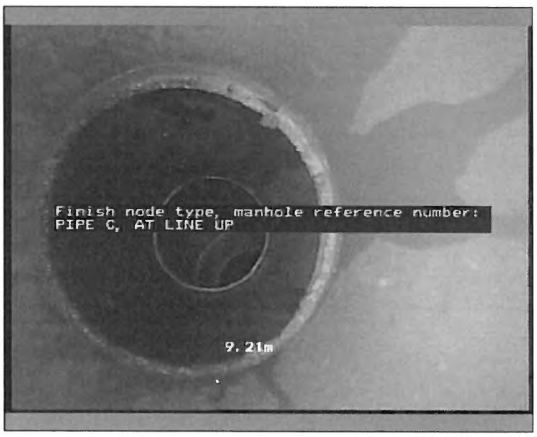


Photo: 1_1_10_A.JPG, 00:02:23
9.21m, Finish node type, manhole reference number: PIPE C

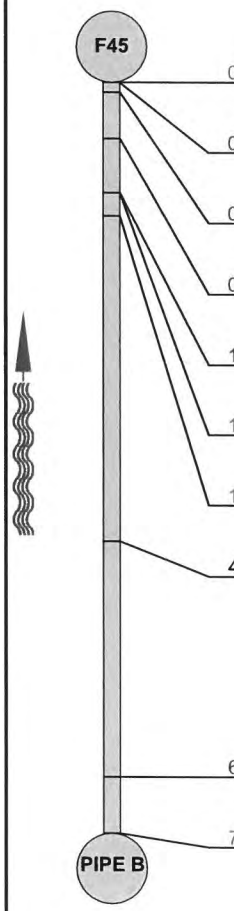
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
20/11/2019		**no rain or snow**	**A.MAIDMENT**	**2**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE B**
Road :	**BLOCK 102**	Catchment:		U/S Depth :	
Location	**Other Pedestrian area**	Tape number :		D/S MH :	**F45**
Inspection	**F45 (U/S) PIPE B**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Investigation of known defects**	Pipe material :	**Vitrified clay**
Total length :	**7.45 m**	Lining :	

Comment : **WATER TURNED OFF**

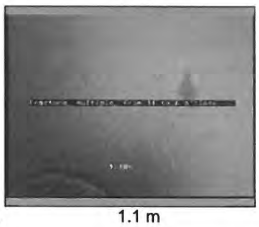


1:70 Position		Code	Observation	Grade
0.00		MH	Start node type, manhole, reference number : F45 Remarks: UP/S B	(Constr) 0
0.00		WL	Water level, 5% of the vertical dimension	(Serv) 0
0.10		LR	Line deviates right	(Serv) 0
0.56	S01	LU	Line deviates up, Start	(Serv) 0
1.10	F01	LU	Line deviates up, End	(Serv) 0
1.10		FM	Fracture, multiple, from 11 to 6 o'clock	(Struct) 4
1.33		OJM	Open joint, medium	(Struct) 1
4.56		GP	General photograph taken at this point	(Misc) 0
6.89		LU	Line deviates up	(Serv) 0
7.45		MHF	Finish node type, manhole reference number: PIPE B Remarks: AT LINE UP	(Constr) 0


0 m


0.1 m


0.56 m


1.1 m


1.33 m

Structural Defects					Constructional Features				
Service Defects					**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	**80**	**10.87**	**81**	**4**	**0**	**0**	**0**	**0**	**1**

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**20/11/2019**	**2**	**X**

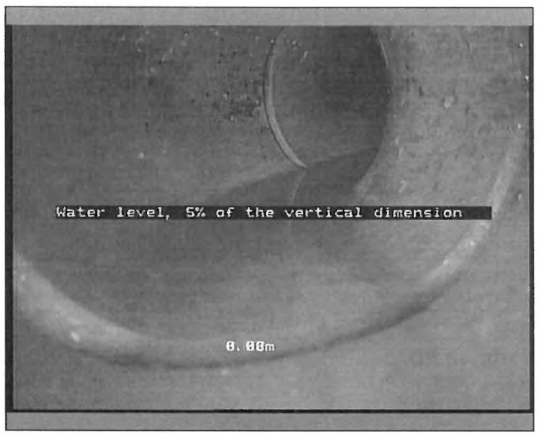


Photo: 3_3_12_A.JPG, 00:00:05
0m, Water level, 5% of the vertical dimension



Photo: 3_3_13_A.JPG, 00:00:14
0.1m, Line deviates right

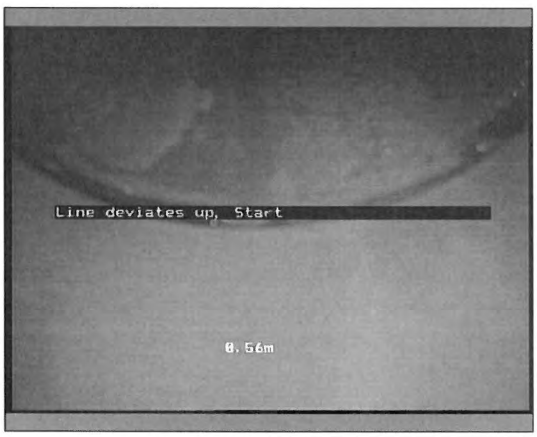


Photo: 3_3_14_A.JPG, 00:00:23
0.56m, Line deviates up, Start

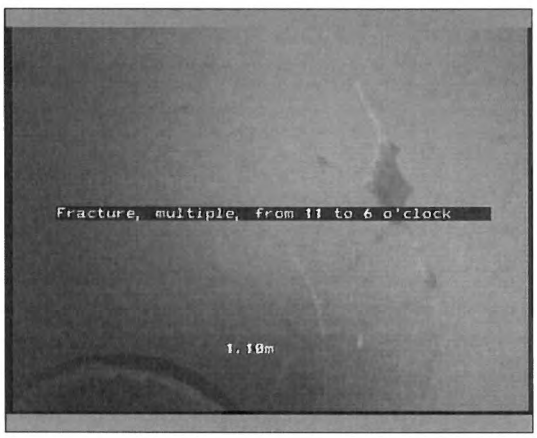


Photo: 3_3_16_A.JPG, 00:00:39
1.1m, Fracture, multiple, from 11 to 6 o'clock

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**20/11/2019**	**2**	**X**

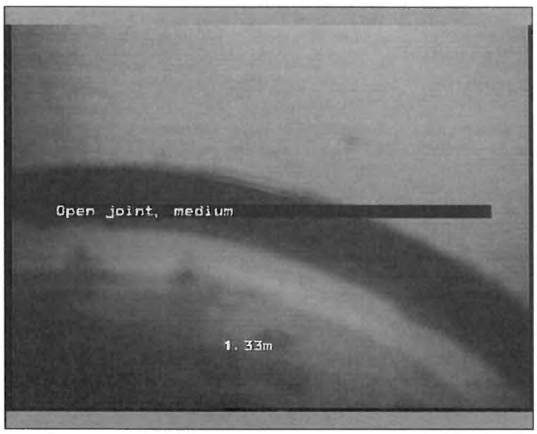


Photo: 3_3_17_A.JPG, 00:00:50
1.33m, Open joint, medium

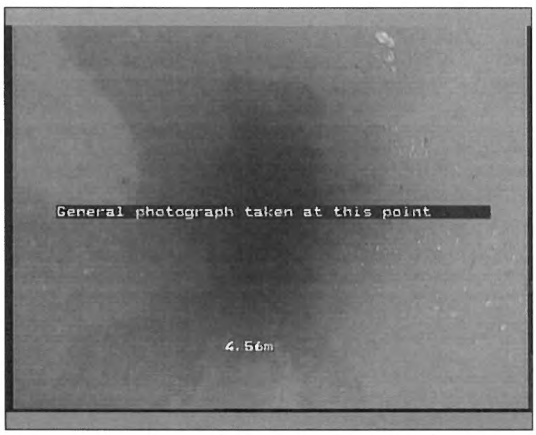


Photo: 3_3_18_A.JPG, 00:01:25
4.56m, General photograph taken at this point

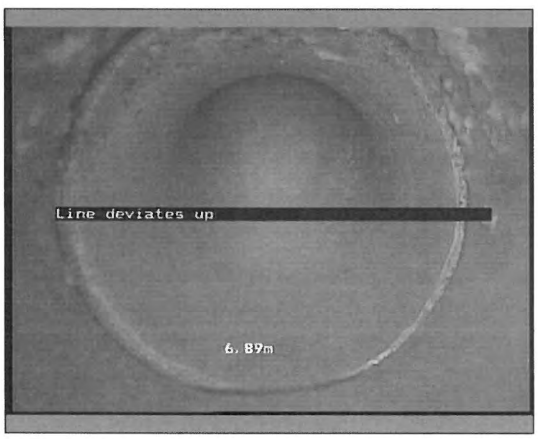


Photo: 3_3_19_A.JPG, 00:01:46
6.89m, Line deviates up

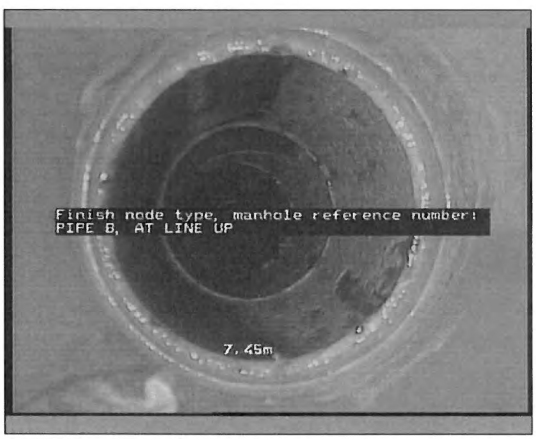


Photo: 3_3_20_A.JPG, 00:02:04
7.45m, Finish node type, manhole reference number: PIPE B

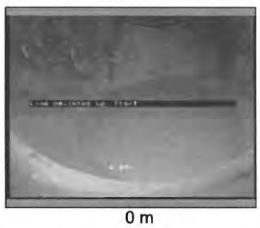
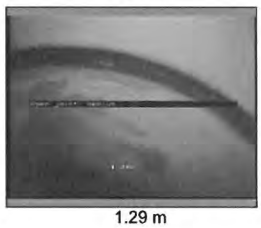
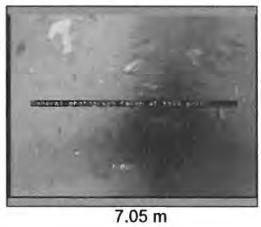
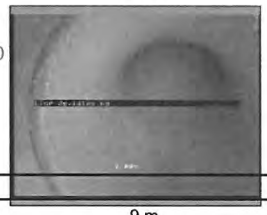
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
20/11/2019		**no rain or snow**	**A.MAIDMENT**	**3**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE B**
Road :	**BLOCK 102**	Catchment:		U/S Depth :	
Location	**Other Pedestrian area**	Tape number :		D/S MH :	**F44**
Inspection	**F44 (U/S) PIPE B**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Investigation of known defects**	Pipe material :	**Vitrified clay**
Total length :	**9.53 m**	Lining :	

Comment : **WATER TURNED OFF**

1:84	Position		Code	Observation	Grade	
F44	0.00		MH	Start node type, manhole, reference number : F44 Remarks: UP/S B	(Constr) 0	 0 m
	0.00		WL	Water level, 5% of the vertical dimension	(Serv) 0	
	0.00	S01	LU	Line deviates up, Start	(Serv) 0	 0.97 m
	0.97	F01	LU	Line deviates up, End	(Serv) 0	
	0.97		FL	Fracture, longitudinal, at 12 o'clock	(Struct) 3	
	1.29		OJM	Open joint, medium	(Struct) 1	 1.29 m
	7.05		GP	General photograph taken at this point	(Misc) 0	 7.05 m
	9.00		LU	Line deviates up	(Serv) 0	
PIPE B	9.53		MHF	Finish node type, manhole reference number: PIPE B Remarks: AT LINE UP	(Constr) 0	 9 m

Structural Defects					Constructional Features				
Service Defects					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	41	4.3	41	3	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**20/11/2019**	**3**	**X**

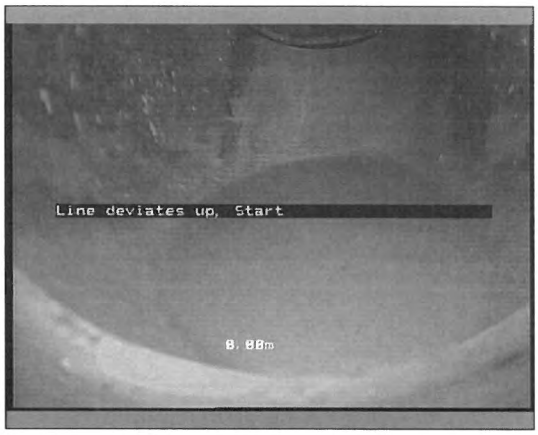


Photo: 4_4_23_A.JPG, 00:00:06
0m, Line deviates up, Start

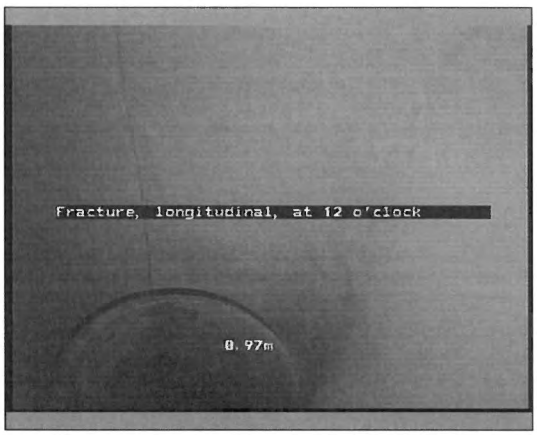


Photo: 4_4_25_A.JPG, 00:00:26
0.97m, Fracture, longitudinal, at 12 o'clock

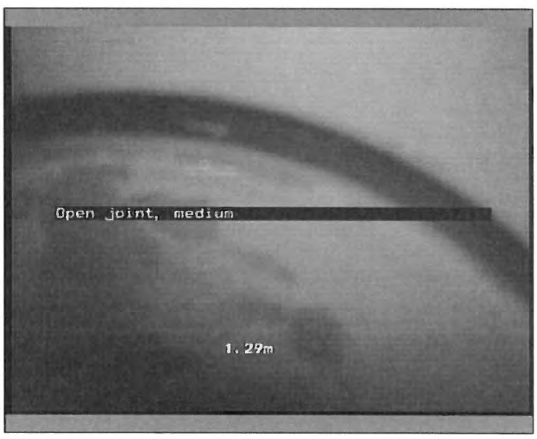


Photo: 4_4_26_A.JPG, 00:00:34
1.29m, Open joint, medium

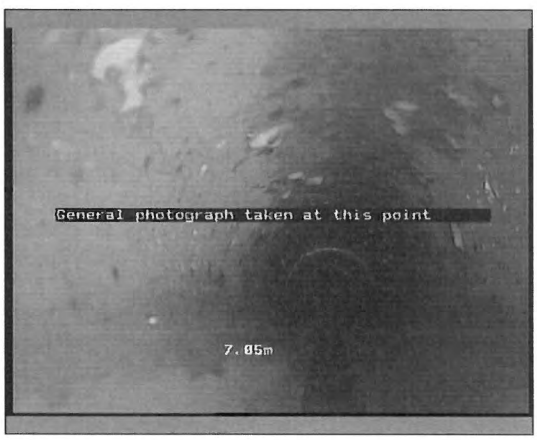


Photo: 4_4_27_A.JPG, 00:01:05
7.05m, General photograph taken at this point

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 102**	**20/11/2019**	**3**	**X**

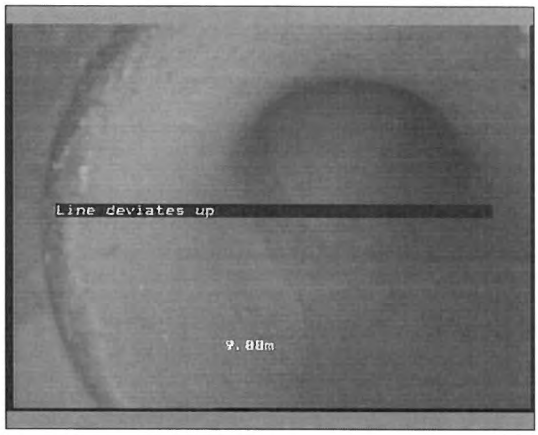


Photo: 4_4_28_A.JPG, 00:01:21
9m, Line deviates up

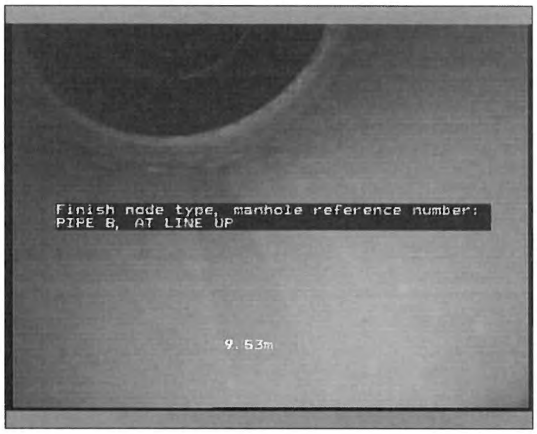


Photo: 4_4_29_A.JPG, 00:01:32
9.53m, Finish node type, manhole reference number: PIPE B

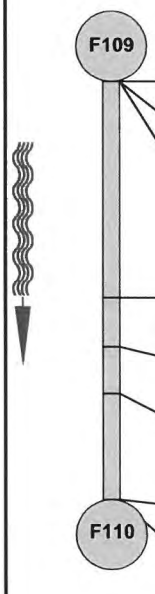
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
20/11/2019		**no rain or snow**	**A.MAIDMENT**	**4**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**F109**
Road :	**BLOCK 108**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F110**
Inspection	**F109 (D/S) F110**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Post completion inspection or repairs**	Pipe material :	**Vitrified clay**
Total length :	**2.96 m**	Lining :	

Comment :



1:50 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F109 Remarks: D/S TO F110	(Constr) 0
0.00	WL	Water level, 5% of the vertical dimension	(Serv) 0
0.00	GP	General photograph taken at this point Remarks: SURVEY OF REPAIR	(Misc) 0
1.53	RPL	Point repair, localised lining, from 12 to 12 o'clock Remarks: CIPP LINER	(Constr) 0
1.88	GP	General photograph taken at this point Remarks: CIPP LINER	(Misc) 0
2.21	GP	General photograph taken at this point Remarks: END OF LINER	(Misc) 0
2.96	JN	Junction, at 6 o'clock, diameter 150mm Remarks: BACKDROP	(Constr) 0
2.96	MHF	Finish node type, manhole reference number: F110 Remarks: MH IN VIEW	(Constr) 0


0 m


1.53 m


1.88 m


2.21 m


2.96 m

Structural Defects					Constructional Features				
Service Defects					**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	1	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 108**	**20/11/2019**	**4**	**X**

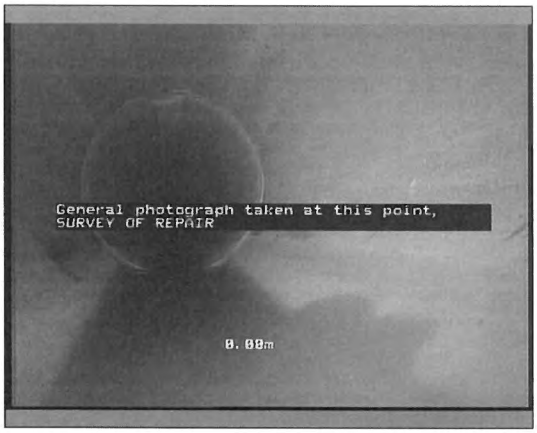


Photo: 5_5_32_A.JPG, 00:00:06
0m, General photograph taken at this point

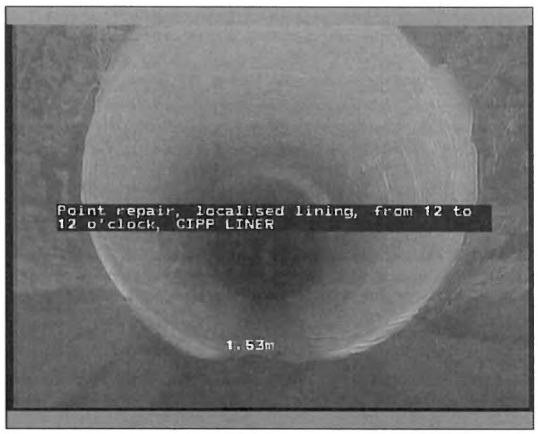


Photo: 5_5_33_A.JPG, 00:00:31
1.53m, Point repair, localised lining, from 12 to 12 o'clock

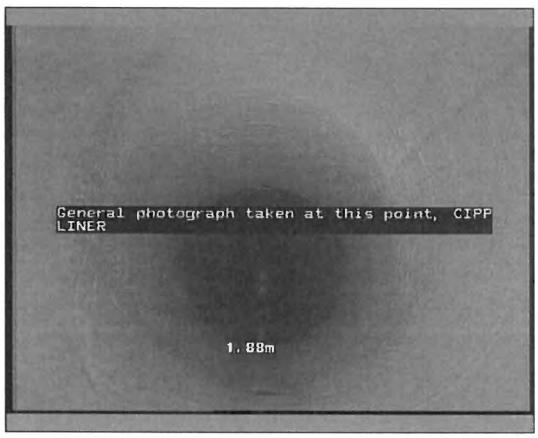


Photo: 5_5_34_A.JPG, 00:00:47
1.88m, General photograph taken at this point

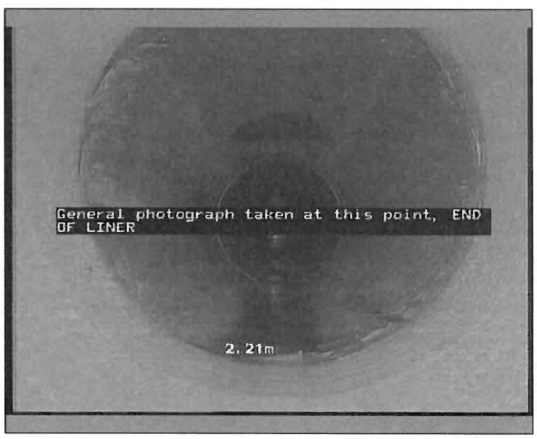


Photo: 5_5_35_A.JPG, 00:00:58
2.21m, General photograph taken at this point

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 108**	**20/11/2019**	**4**	**X**

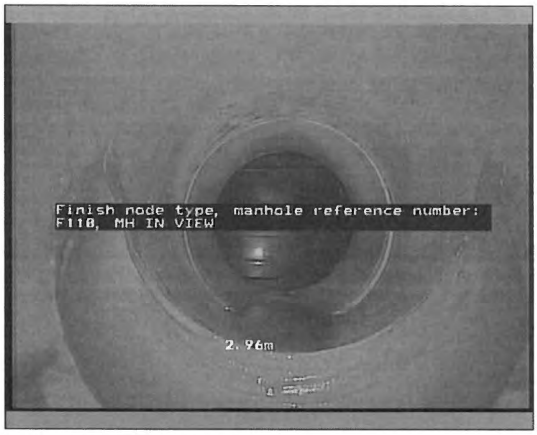


Photo: 5_5_36_A.JPG, 00:01:11
2.96m, Junction, at 6 o'clock, diameter 150mm

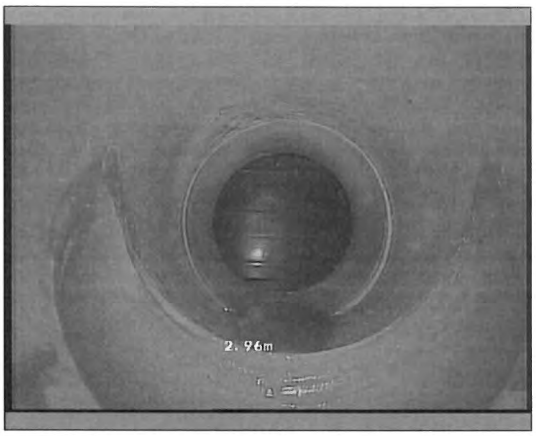


Photo: 5_5_37_A.JPG, 00:01:13
2.96m, Finish node type, manhole reference number: F110

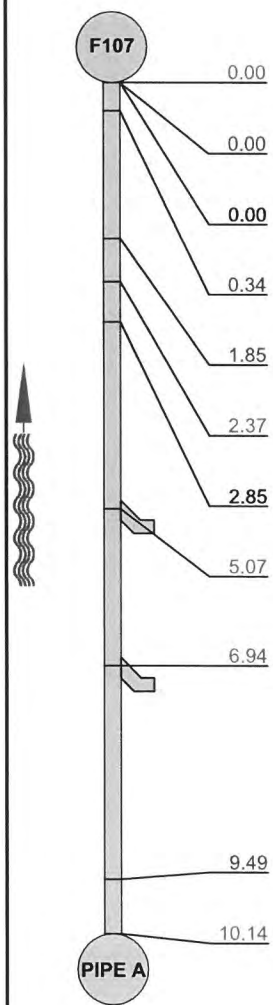
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
20/11/2019		**no rain or snow**	**A.MAIDMENT**	**5**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE A**
Road :	**BLOCK 108**	Catchment:		U/S Depth :	
Location	**A footway beside a road**	Tape number :		D/S MH :	**F107**
Inspection	**F107 (U/S) PIPE A**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Post completion inspection or repairs**	Pipe material :	**Vitrified clay**
Total length :	**10.14 m**	Lining :	

Comment :



1:84 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F107 Remarks: UP/S A	(Constr) 0
0.00	WL	Water level, 10% of the vertical dimension	(Serv) 0
0.00	GP	General photograph taken at this point Remarks: SURVEY OF CIPP LINER REPAIR	(Misc) 0
0.34	LU	Line deviates up	(Serv) 0
1.85	LR	Line deviates right	(Serv) 0
2.37	RPL	Point repair, localised lining, from 12 to 12 o'clock Remarks: CIPP LINER	(Constr) 0
2.85	GP	General photograph taken at this point Remarks: END OF LINER	(Misc) 0
5.07	JN	Junction, at 9 o'clock, diameter 100mm	(Constr) 0
6.94	JN	Junction, at 9 o'clock, diameter 100mm	(Constr) 0
9.49	LU	Line deviates up	(Serv) 0
10.14	MHF	Finish node type, manhole reference number: PIPE A Remarks: AT LINE UP	(Constr) 0


0 m


0.34 m


1.85 m


2.37 m


2.85 m

Structural Defects					Constructional Features				
Service Defects					**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	1	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 108**	**20/11/2019**	**5**	**X**

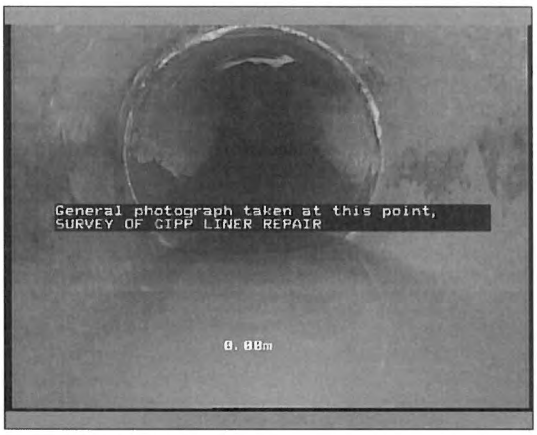


Photo: 6_6_40_A.JPG, 00:00:06
0m, General photograph taken at this point

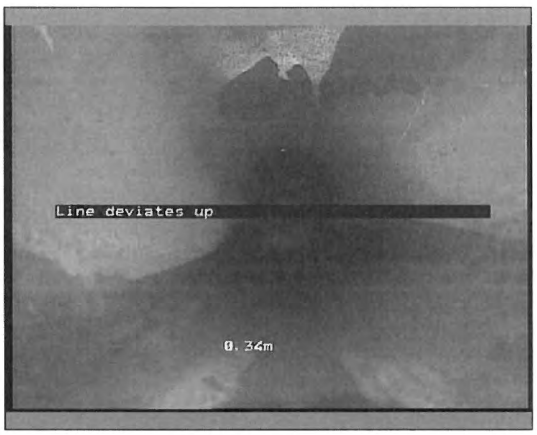


Photo: 6_6_41_A.JPG, 00:00:16
0.34m, Line deviates up

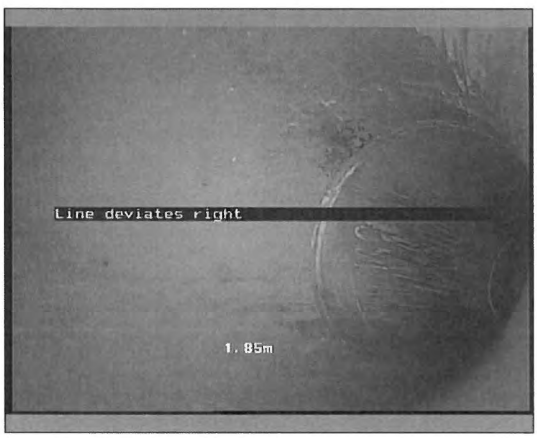


Photo: 6_6_42_A.JPG, 00:00:31
1.85m, Line deviates right

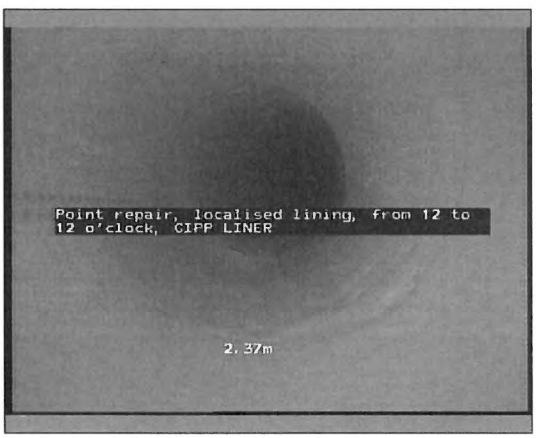


Photo: 6_6_43_A.JPG, 00:00:42
2.37m, Point repair, localised lining, from 12 to 12 o'clock

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 108**	**20/11/2019**	**5**	**X**

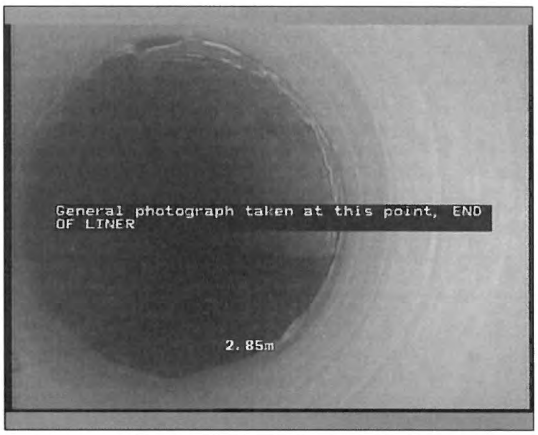


Photo: 6_6_44_A.JPG, 00:00:58
2.85m, General photograph taken at this point

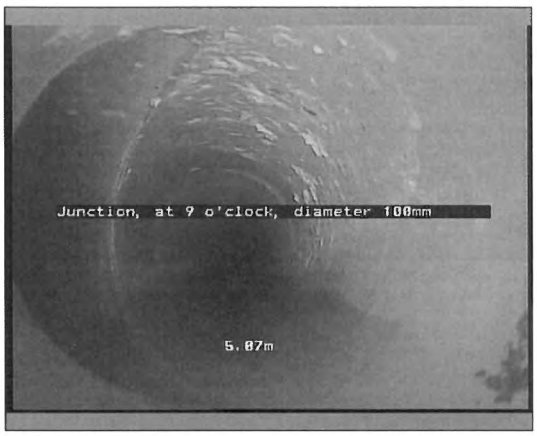


Photo: 6_6_45_A.JPG, 00:01:22
5.07m, Junction, at 9 o'clock, diameter 100mm

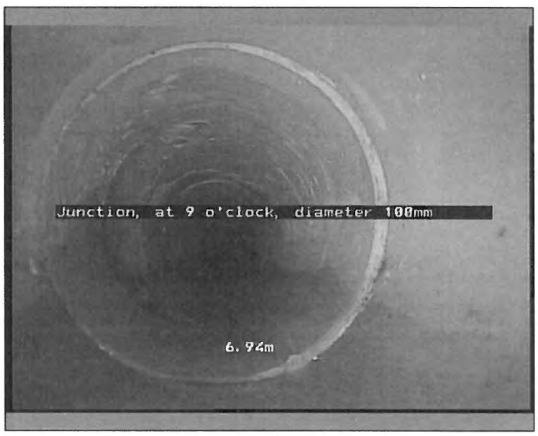


Photo: 6_6_46_A.JPG, 00:01:42
6.94m, Junction, at 9 o'clock, diameter 100mm

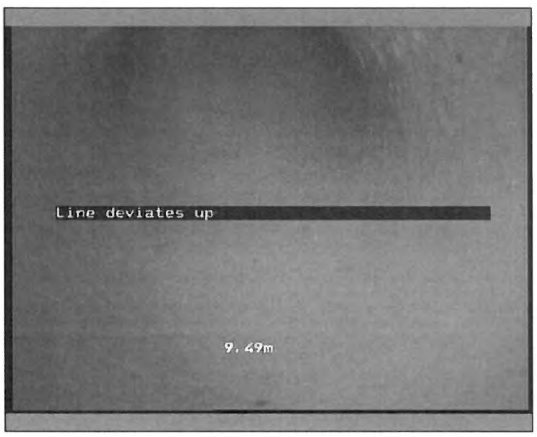


Photo: 6_6_47_A.JPG, 00:02:01
9.49m, Line deviates up

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 108**	**20/11/2019**	**5**	**X**



Photo: 6_6_48_A.JPG, 00:02:12
10.14m, Finish node type, manhole reference number: PIPE A

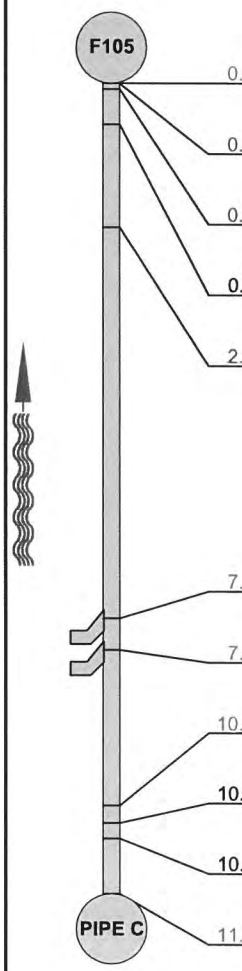
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
20/11/2019		**no rain or snow**	**A.MAIDMENT**	**6**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

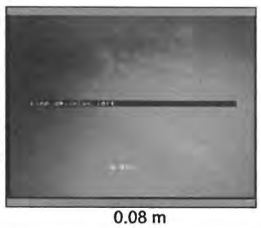
Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE C**
Road :	**BLOCK 107**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F105**
Inspection	**F105 (U/S) PIPE C**	Pipe Length		D/S Depth :	

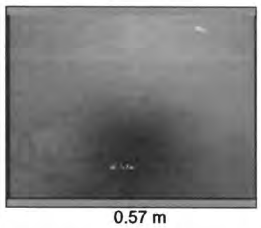
Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Post completion inspection or repairs**	Pipe material :	**Vitrified clay**
Total length :	**11.25 m**	Lining :	

Comment :



1:98 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F105 Remarks: UP/S C	(Constr) 0
0.00	WL	Water level, 5% of the vertical dimension	(Serv) 0
0.08	LL	Line deviates left	(Serv) 0
0.57	GP	General photograph taken at this point Remarks: SURVEY OF CIPP LINER REPAIR	(Misc) 0
2.00	LL	Line deviates left	(Serv) 0
7.43	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
7.86	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
10.03	RPL	Point repair, localised lining, from 12 to 12 o'clock Remarks: CIPP LINER	(Constr) 0
10.27	GP	General photograph taken at this point	(Misc) 0
10.49	GP	General photograph taken at this point Remarks: END OF LINER	(Misc) 0
11.25	MHF	Finish node type, manhole reference number: PIPE C Remarks: AT LINE UP	(Constr) 0


0.08 m


0.57 m


2 m


7.43 m


7.86 m

Structural Defects					Constructional Features				
Service Defects					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	1	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 107**	**20/11/2019**	**6**	**X**

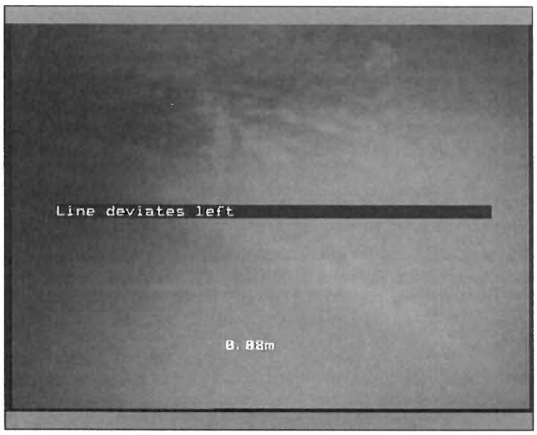


Photo: 7_7_52_A.JPG, 00:00:14
0.08m, Line deviates left

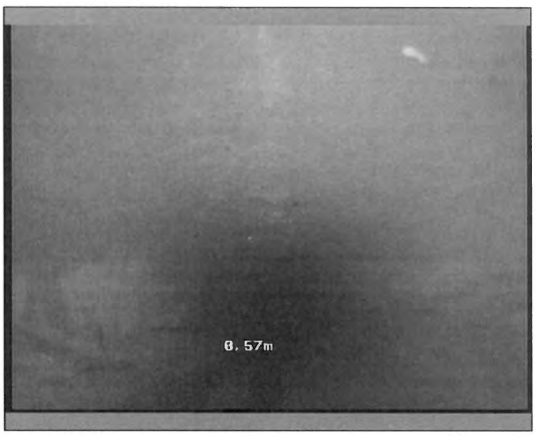


Photo: 7_7_53_A.JPG, 00:00:29
0.57m, General photograph taken at this point

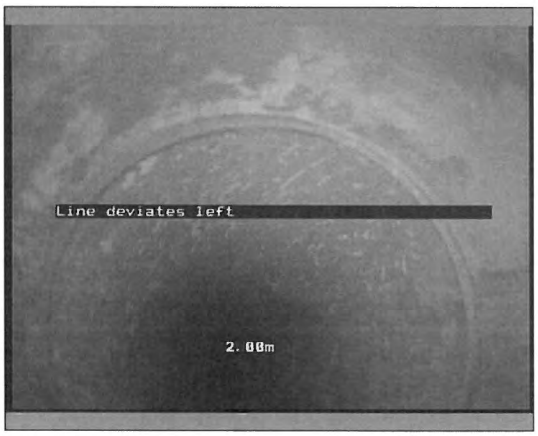


Photo: 7_7_54_A.JPG, 00:00:59
2m, Line deviates left

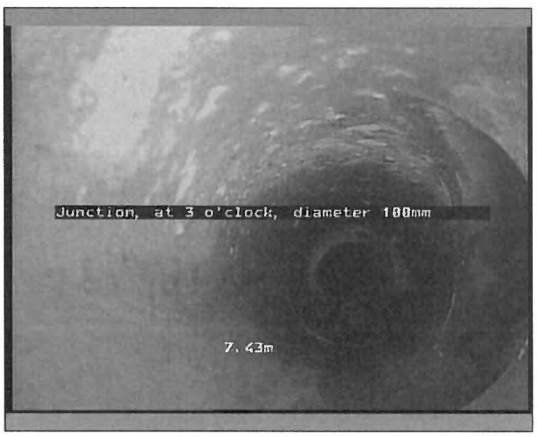


Photo: 7_7_55_A.JPG, 00:01:36
7.43m, Junction, at 3 o'clock, diameter 100mm

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 107**	**20/11/2019**	**6**	**X**



Photo: 7_7_56_A.JPG, 00:01:49
7.86m, Junction, at 3 o'clock, diameter 100mm

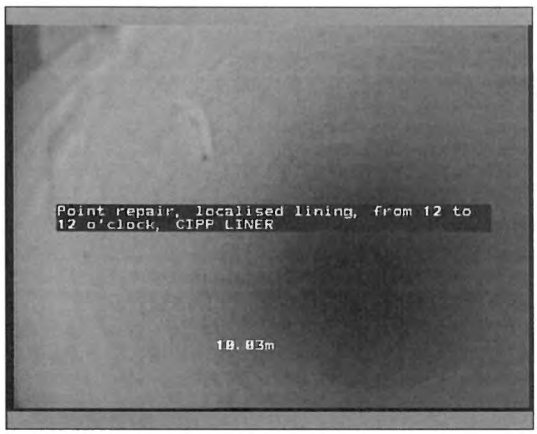


Photo: 7_7_57_A.JPG, 00:02:13
10.03m, Point repair, localised lining, from 12 to 12 o'clock

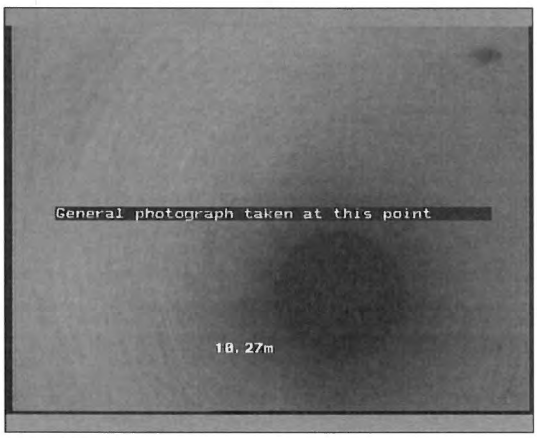


Photo: 7_7_58_A.JPG, 00:02:24
10.27m, General photograph taken at this point

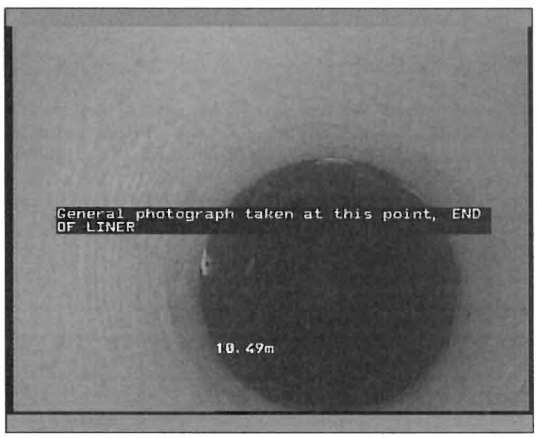


Photo: 7_7_59_A.JPG, 00:02:42
10.49m, General photograph taken at this point

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 107**	**20/11/2019**	**6**	**X**

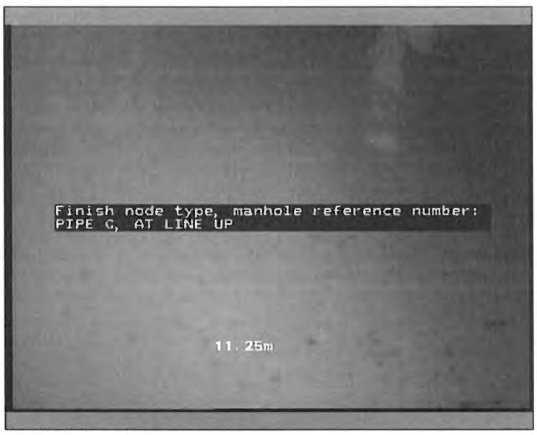
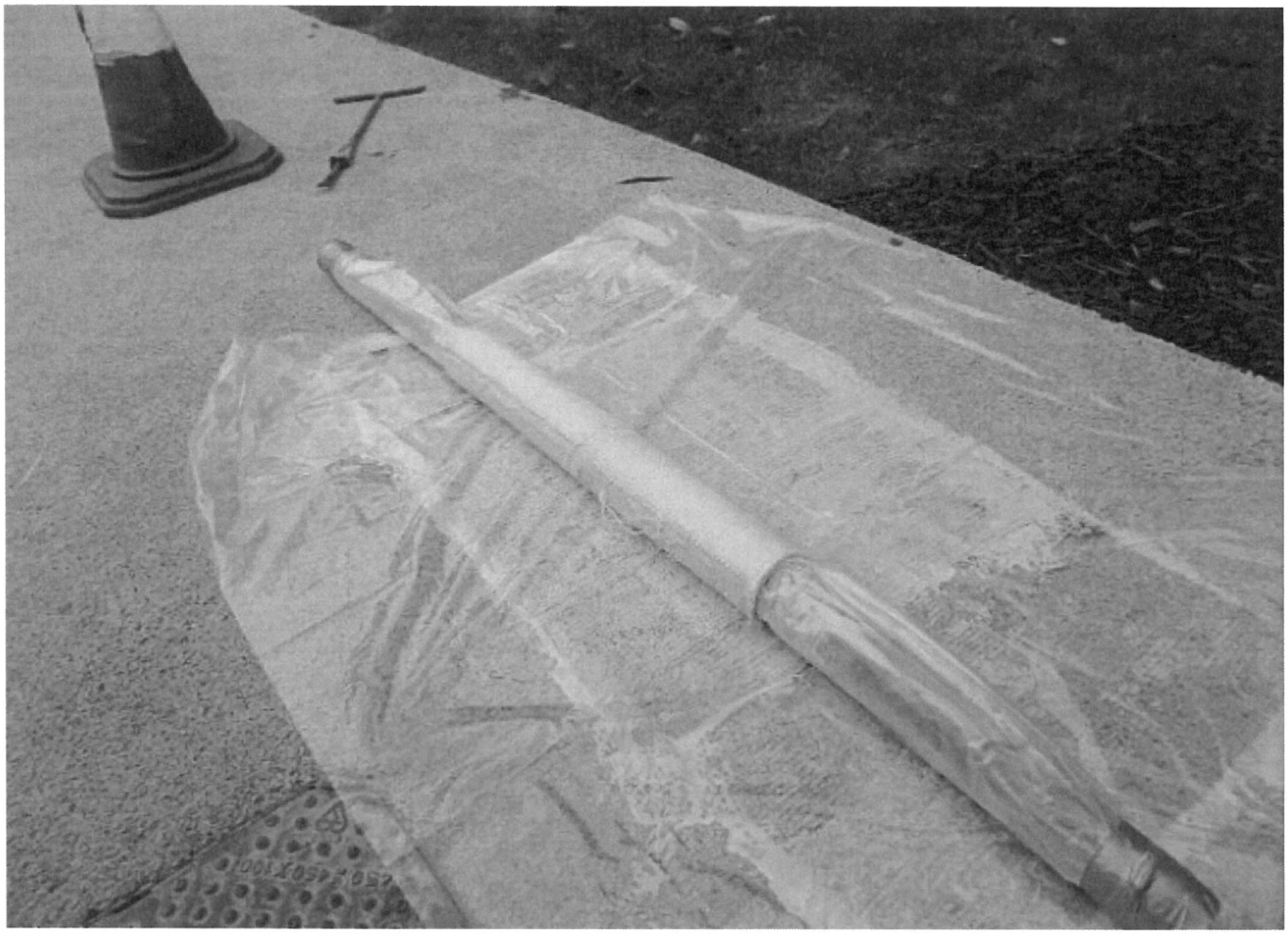


Photo: 7_7_60_A.JPG, 00:02:57
11.25m, Finish node type, manhole reference number: PIPE C











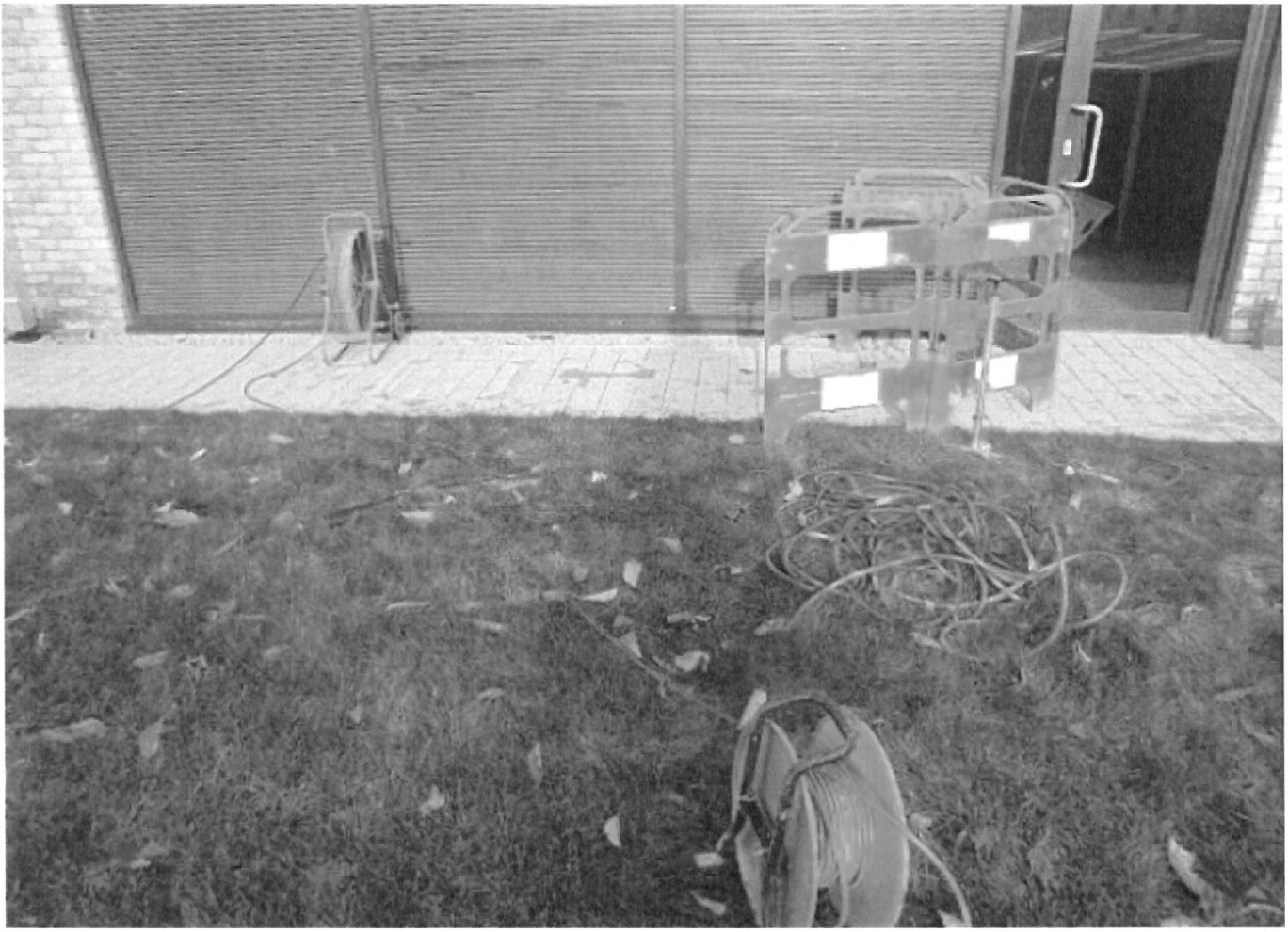





General
Utilities
Northwest Ltd
0161 776 0011


776 0011







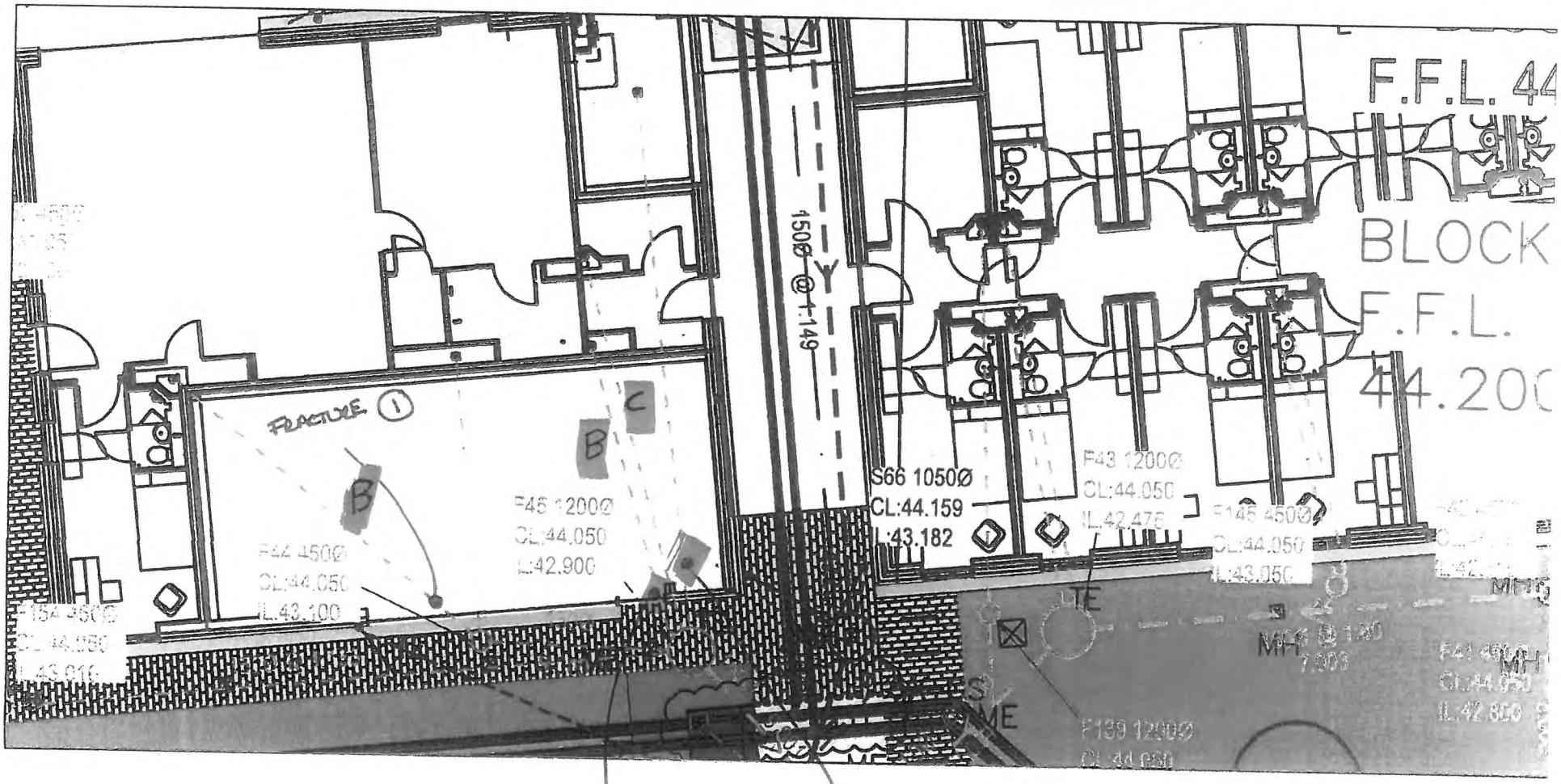






Block 102

MH F45 + MH F44



unable to pass bends with packer to line

(1)

BLOCK 102 →

NRC Waste Water Industrial & Emergency Solutions
0151 643 0800 www.nrc.com

NRC WWS Ltd
UNIT D, RUSSELL ROAD ROCK FERRY BIRKENHEAD
Tel 0151 643 0800
dkearns@nrcc.com

Section Inspection - 22/08/2019 - SSX

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
77	51	22/08/19	21:40	23887	No Rain Or Snow	Yes	SSX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
D Hampson	Not Specified	Not Specified	Not Specified	Not Specified	1

Town or Village:	Fallowfield	**Inspection Direction:**	Upstream	**Upstream Node:**	SS
Road:	Chancellors Way	**Inspected Length:**	10.09 m	**Upstream Pipe Depth:**	
Location:	Difficult access	**Total Length:**	10.09 m	**Downstream Node:**	F44
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	
Use:	Foul			**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer			**Dia/Height:**	100 mm
Year Constructed:				**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control			**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition			**Lining Material:**	No Lining
Comments:	CCTV Survey				
Recommendations:					

Scale: 1:88	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m F44						
	0.00	IC	Start node type inspection chamber, reference number F44	00 00 00		
	0.00	WL	Water level 5% of the vertical dimension	00 00 00		
	[illegible]	[illegible]	[illegible]	[illegible]		
	10.09	DEF	Line deviates up	00 00 49		
	10.09	BRF	Finish node type, major connection without manhole reference number SS	00 00 50		
SS Depth: m						

On Bend

Construction Features

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	40.0	4.0	40.0	3.0	0	0.0	0.0	0.0	1.0

(2)

Block 102 →

NRC Waste Water, Industrial & Emergency Solutions
0151 643 0800 www.nrcc.com

NRC WWS Ltd
UNIT D RUSSELL ROAD ROCK FERRY BIRKENHEAD
Tel 0151 643 0800
dkearns@nrcc.com

Section Inspection - 21/08/2019 - SS1X

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
44	17	21/08/19	21:07	23887	No Rain Or Snow	Yes	SS1X
Operator		**Vehicle**		**Camera**	**Preset Length**	**Legal Status**	**Alternative ID**
D Hampson		Not Specified		Not Specified	Not Specified	Not Specified	1

Town or Village:	Fallowfield	**Inspection Direction:**	Upstream	**Upstream Node:**	SS1
Road:	Chancellors Way	**Inspected Length:**	7.17 m	**Upstream Pipe Depth:**	
Location:	Difficult access	**Total Length:**	7.17 m	**Downstream Node:**	F45
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	
Use:	Foul			**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer			**Dia/Height:**	100 mm
Year Constructed:				**Pipe Material:**	Vitrified clay pipe (e.g. all clayware)
Flow Control:	No flow control			**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition			**Lining Material:**	No Lining
Comments:	CCTV Survey				
Recommendations:					

Scale: 1:63	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m F45						
	0.00	IC	Start node type inspection chamber, reference number F45	00:00:00		
	0.00	WL	Water level 5 % of the vertical dimension	00:00:00		
	0.29	[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]			
			On Bend			
	[illegible]	[illegible]	[illegible]	[illegible]		
	7.17	BRF	Finish node type major connection without manhole reference number SS1	00:00:42		
SS1 Depth: m						

Construction Features					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	11.2	80.0	4.0	0	0.0	0.0	0.0	1.0

(3)

Block 102 →

NRC Waste Water, Industrial & Emergency Solutions
0151 643 0800 www.nrcc.com

NRC WWS Ltd
UNIT D, RUSSELL ROAD, ROCK FERRY, BIRKENHEAD
Tel: 0151 643 0800
dkearns@nrcc.com

Section Inspection - 21/08/2019 - SSX

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
45	18	21/08/19	21:10	23887	No Rain Or Snow	Yes	SSX
Operator		**Vehicle**		**Camera**	**Preset Length**	**Legal Status**	**Alternative ID**
D Hampson		Not Specified		Not Specified	Not Specified	Not Specified	1

Town or Village:	Fallowfield	**Inspection Direction:**	Upstream	**Upstream Node:**	SS
Road:	Chancellors Way	**Inspected Length:**	1.38 m	**Upstream Pipe Depth:**	
Location:	Difficult access	**Total Length:**	1.38 m	**Downstream Node:**	F45
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	
Use:	Foul			**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer			**Dia/Height:**	100 mm
Year Constructed:				**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control			**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition			**Lining Material:**	No Lining
Comments:	CCTV Survey				
Recommendations:					

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m F45						
	0.00	IC	Start node type inspection chamber reference number F45	00 00 00		
	0.00	WL	Water level 5% of the vertical dimension	00 00 00		
	0.20	DD	Line deviates at	00 00 03		
	[redacted]	[redacted]	[redacted]	[redacted]		
	1.38	SA	Survey abandoned Unable to take bend	00 00 46		

on Bend
possibly wont get
packer with patch on
round bend

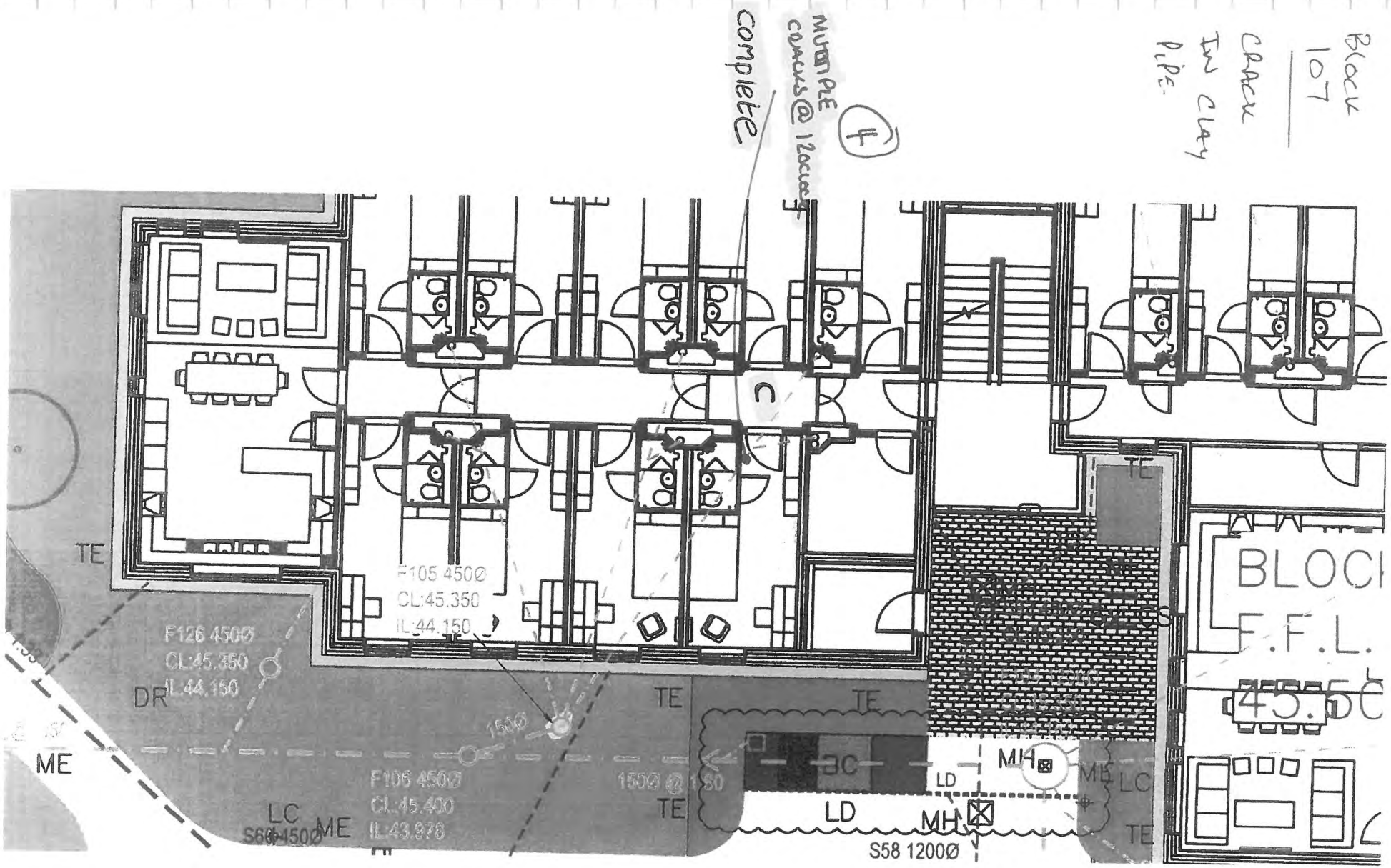
Construction Features

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade
1	80.0	58.4	80.0	4.0

Miscellaneous Features

Service & Operational Observations

SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0


Block 107
Crack in clay pipe.
Multiple cracks @ 12 occasions
complete
(4)
C
TE
F105 450Ø
CL:45.350
IL:44.150
F126 450Ø
CL:45.350
IL:44.150
DR
ME
LC
F106 450Ø
CL:45.400
IL:43.978
150Ø
150Ø @ 180
TE
3C
LD
MH
S58 1200Ø
BLOCK
F.F.L.
45.5

(4)

Block 107 (Bedroom)

300 Lansdowne Road
Monton Eccles
Manchester M30 9PJ
Tel: 0161 788 2222
E mail: manchesterops@lanesgroup.co.uk

Lanes Group Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
Main ground type:	Vehicle:	Camera:	Preset:	Cover location:	Total Length (m):

Street/Road:	Flow Control:	U/S MH:
Town/City:	Pre-Cleaned:	U/S Depth(m):
Postcode:	Owner:	D/S MH :
Location:	Direction:	D/S Depth(m):

Asset Use:	Asset Dia (mm):
Asset type:	Asset width (mm):
Purpose:	Asset shape:
Asset Lining:	Asset material:

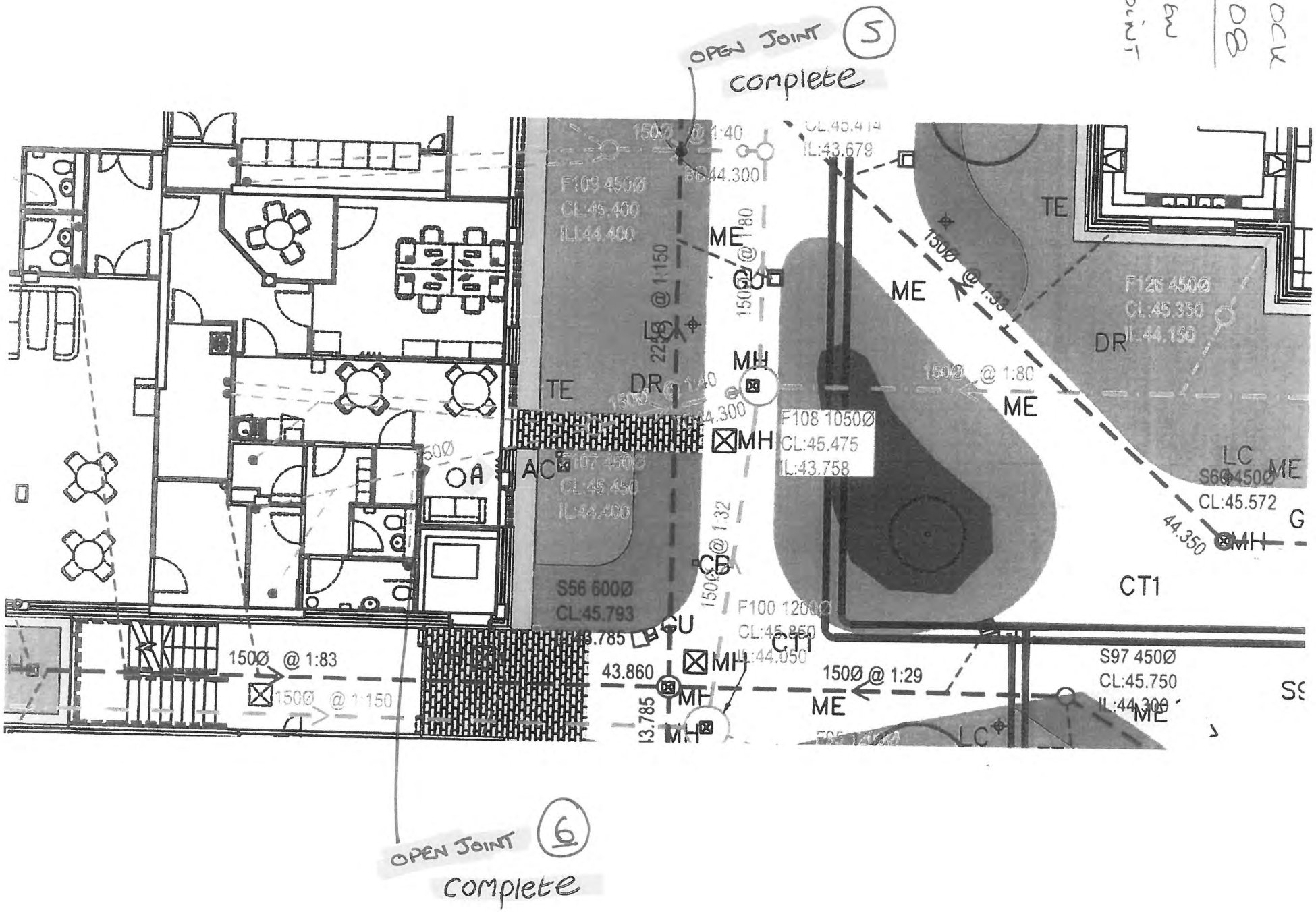
Comments:

1:90 Depth: 0	Position	Observations and Remarks	Grade
F105 PIPE C			
	0.00	MH Start node type manhole reference number F105 Pipe C	(Constr) 0
	0.00	WL Water level 0%	(Serv) 0
	7.03	JN Junction from 3 O'Clock diameter 100 mm	(Constr) 0
	7.13	JN Junction from 3 O'Clock diameter 100 mm	(Constr) 0
	10.68	OCF Finish node type other special chamber reference number Pipe C Remarks At rest bend debris up	(Constr) 0
Pipe C			

Service Defects					Constructional 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
1	40	3.75	40	3	0	0	0	0	1

Block 108

Open Joint



5

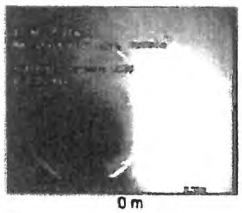
OUTSIDE BLOCK 8 → BLOCK 7 BETWEEN MH'S

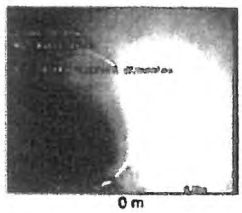
Inspection report

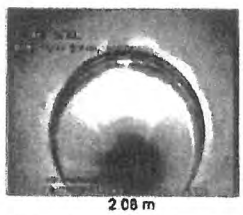
Date	Job number	Weather	Operator	Section number	PLR SUFFIX
13/09/2019		no rain or snow	A.MAIDMENT	37	X
Weather	**Vehicle**	**Camera**	**Preset**	**Cleaned**	**Operator**
no rain or snow	PK07	SOLO PRO		yes	A.MAIDMENT

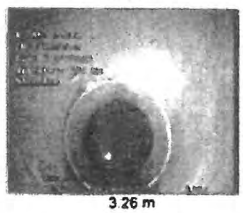
Place	MANCHESTER	Location details		U/S MH	F110
Road	FALLOWFIELD CAMPUS	Catchment		U/S Depth	
Location	Property with buildings	Tape number		D/S MH	F109
Inspection	F109 (U/S) F110	Pipe Length		D/S Depth	
Use	Foul		Pipe shape	Circular	
Year laid			Pipe size	150 mm	
Purpose	Post completion inspection of new sewers		Pipe material	Vitrified clay	
Total length	3.86 m		Lining		
Comment					

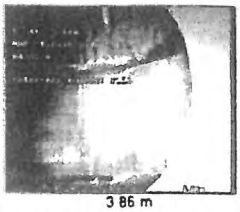
1:50	Position	Code	Observation	Grade
F109				
	0.00	MH	Start node type, manhole reference number F109 D/S TO F110	0
	0.00	WL	Water level 5 % of the vertical dimension	0
	2.08	OJM	Open joint, medium	1
	3.26	JN	Junction from 6 O'Clock diameter, 150 mm BACKDROP	0
	3.86	MHF	Finish node type, manhole reference number, F110	0
F110				


0 m


0 m


2.08 m


3.26 m


3.86 m

	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
	1	0.26	1	1	0	0	0	0	1

6

Block 108 → To Internal Pop-up.

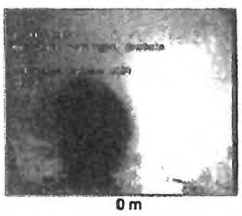
Inspection report

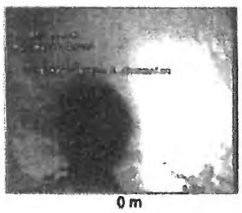
Date	Job number	Weather	Operator	Section number	PLR SUFFIX
13/09/2019		no rain or snow	A.MAIDMENT	30	X
Weather	**Vehicle**	**Camera**	**Preset**	**Cleaned**	**Operator**
no rain or snow	PK07	SOLO PRO		yes	A.MAIDMENT

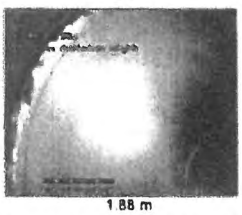
...ate	MANCHESTER	Location details		U/S MH	PIPE A
...ad	FALLOWFIELD CAMPUS	Catchment		U/S Depth	
...ation	Property with buildings	Tape number		D/S MH	F107
...ection	F107 (U/S) PIPE A	Pipe Length		D/S Depth	
...e	Foul		Pipe shape	Circular	
...ad			Pipe size	100 mm	
...ose	Post completion inspection of new sewers		Pipe material	Vitrified clay	
...length	10.95 m		Lining		

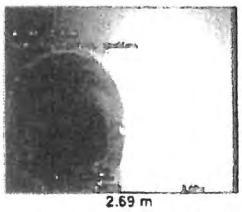
...ent :

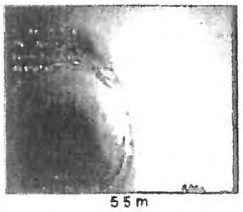
1:90	Position	Code	Observation	Grade
F107				
	0.00	MH	Start node type, manhole reference number F107 UPS/A	0
	0.00	WL	Water level 5 % of the vertical dimension	0
	1.88	LR	Line deviates right	0
	2.69	OJM	Open joint medium	1
	5.50	JN	Junction from 9 O'Clock diameter 100 mm	0
	7.35	JN	Junction from 9 O'Clock diameter 100 mm	0
	10.14	LU	Line deviates up	0
	10.95	BRF	Finish node type, major connection without manhole reference number PIPE A AT LINE UP	0
PIPE A				


0 m


0 m


1.88 m

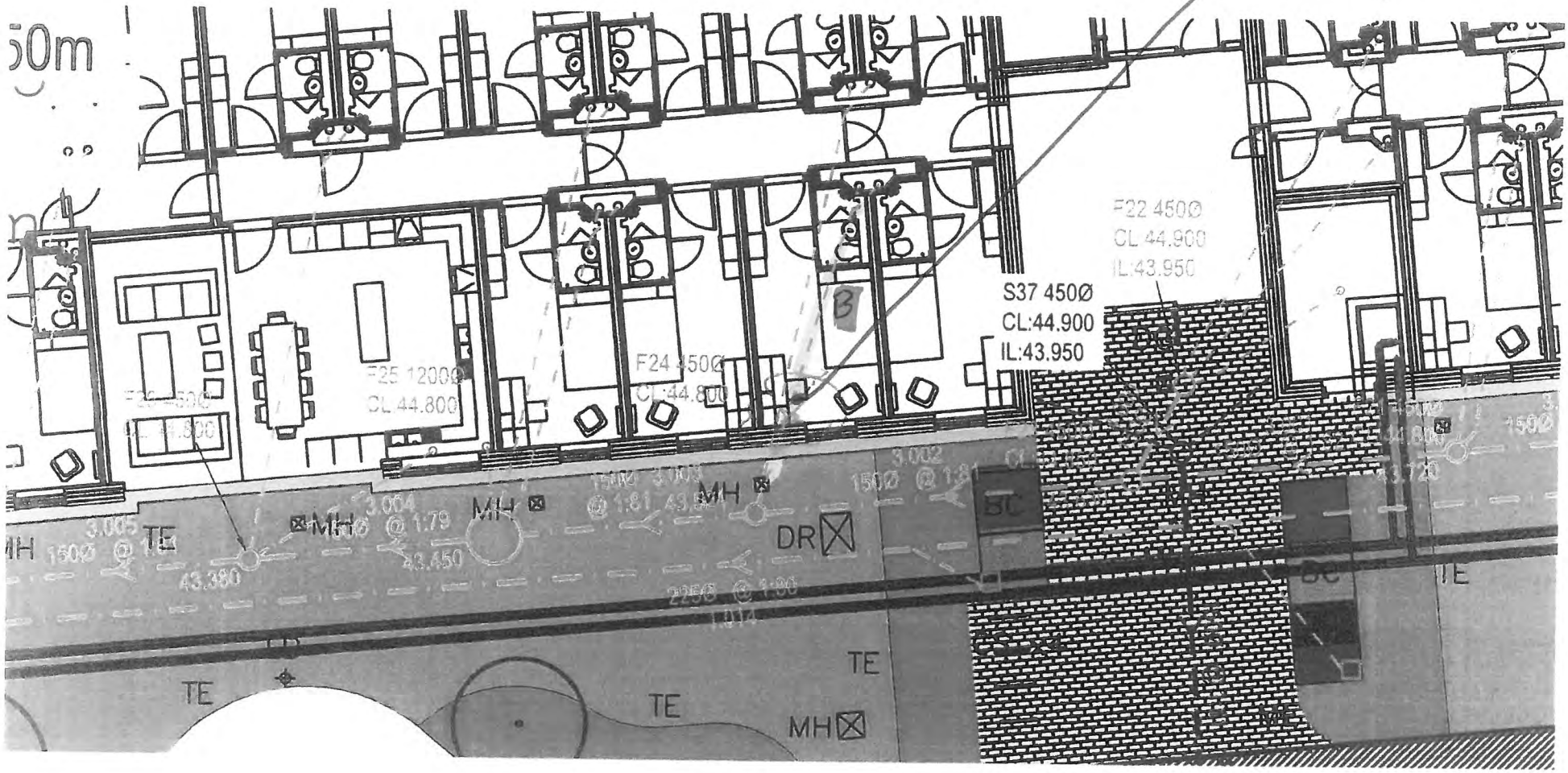

2.69 m


5.5 m

...ef	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
	1	0.09	1	1	0	0	0	0	1

Block 103 — Crack in clean of Pipe

(7) on Bend



unable to push packer past bends

7

BLOCK 103 → (BEDROOM)

Inspection report

Date	Job number	Weather	Operator	Section number	PLR SUFFIX
13/09/2019		no rain or snow	A.MAIDMENT	15	X
Weather	**Vehicle**	**Camera**	**Preset**	**Cleaned**	**Operator**
no rain or snow	PK07	SOLO PRO		yes	A.MAIDMENT

Place :	MANCHESTER	Location details		U/S MH	PIPE B
Road	FALLOWFIELD CAMPUS	Catchment		U/S Depth	
Location	Property with buildings	Tape number		D/S MH :	F24
Inspection	F24 (U/S) PIPE B	Pipe Length		D/S Depth :	

Use	Foul	Pipe shape	Circular
Year laid		Pipe size	100 mm
Purpose	Post completion inspection of new sewers	Pipe material	Vitrified clay
Total length	8.52 m	Lining	

Comment :

1:75 Position	Code	Observation	Grade	
F24				
0.00	MH	Start node type: manhole reference number: F24 UPS/B	0	
0.00	WL	Water level: 5 % of the vertical dimension	0	0 m
0.00	LU	Line deviates up	0	
1.47	B	Broken pipe from 10 O'Clock to 2 O'Clock	4	0 m
		on Bend		
5.07	GP	General photograph taken at this point	0	0 m
6.63	JN	Junction from 3 O'Clock diameter: 100 mm	0	
7.04	LR	Line deviates right	0	1.47 m
7.71	LU	Line deviates up	0	
PIPE B 8.52	BRF	Finish node type: major connection without manhole reference number: PIPE B AT LINE UP	0	5.07 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	80	8.39	80	4	0	0	0	0	1

SURVEY REQ F62-49.

F31. PIPE A. BLOCKAGE WITHIN RUN.

F20

MH F29

UNABLE TO SURVEY DUE TO BLOCKAGE IN F29.

BROKEN PIPE 9.8m DOWNSTREAM FROM MH F86.

F24 BROKEN PIPES x2 1.47 UPSTREAM

TEMPORARY LAND DRAINAGE CONNECTION TO BE DISCONNECTED FOLLOWING COMPLETION OF FOUNDATION WORKS

BLOCK 4
F.F.L. 44.950m

BLOCK 7

1.07 F45.

HOLE 1.37 UNDERNEATH F45

BLOCK 2
F.F.L. 44.200m

BLOCK 2
F.F.L.
44.200m

SURVEY HERE F62-49.

F31. PIPE A. BLOCKAGE WITHIN RUN.

F20

MH F29

UNABLE TO SURVEY DUE TO BLOCKAGE IN F29.

TEMPORARY LAND DRAINAGE CONNECTION TO BE DISCONNECTED FOLLOWING COMPLETION OF FOUNDATION WORKS

F24 BRANCH PIPES x2 1.47 UPSTREAM

BLOCK 3
F.F.L. 44.950m

BLOCK 8
F.F.L. 45.500m

BLOCK 7
F.F.L.

BLOCK 7
F.F.L. 45.550m

TEMPORARY LAND DRAINAGE CONNECTION TO BE DISCONNECTED FOLLOWING COMPLETION OF FOUNDATION WORKS

BLOCK 4
F.F.L. 44.950m

BLOCK 7
F.F.L. 45.550m

BLOCK 6
F.F.L. 45.150m

MH
F 104

ESS

L.F.D. 11/9/19.
SECTION 6.
MULTIPLE CRACKS.

L.F.D. 11/9/19 ?
SECTION 12.
SURVEY ABANDONED.

CHANCELLORS WAY

L Twr

L Twr

L Twr

L Twr

CONNECTION INTO
EXISTING SEWER

EXISTING 300mm SURFACE WATER DRAIN

NEW CONNECTION INTO EXISTING 300mm SURFACE WATER DRAIN. EXISTING SURFACE WATER SEWER TO BE LOCATED PRIOR TO COMMENCEMENT OF WORKS

BACK DROP BLOCKED ON MH

OPEN Joint 2nd Downstream MH F109.

OPEN Joint 2.69m U/S of MH F107

CONCRETE OVER PIPE BETWEEN MH 95 & 100

FOUL DRAIN SURVEY REQD.

SURFACE WATER MH REQUIRES CLEANING

BLOCK 8
F.F.L. 45.500m

BLOCK 8
F.F.L. 45.950m

BLOCK 8
F.F.L. 45.950m

BLOCK 7
F.F.L. 45.550

BLOCK 7
F.F.L. 45.550

S9 x4

10x CS

BLOCKAGE GREASE ON SURFACE.

MH F108

MH F 106.

MH F 104

ESS

CLEANED L.F.D. SURVEY SECTION 1

CLEANED L.F.D. SECTION 2.

L.F.D. 11/9/19 ? SECTION 12. SURVEY ABANDON

ADDITIONAL FALL BACKDROP MH NEEDS CLEANING OUT.

SURFACE MH NEEDS BENCHING

SURFACE MH'S INTO INTERCEPTOR NEEDS BENCHING

MH66. REMOVED. 19/OCT/19 RESIDENTS REQ.

9 to 24

RE-SCREED CONCRETE SCRAPED. 5-10% MH 67

FOUL MH NEEDS BENCHING

BACK DROP BLOCKED ON MH

OPEN JOINT 2nd DRAWSTRAW MH F109.

OPEN

ENERGY CENTRE F.F.L. 44.800m

BLOCK 2 F.F.L. 44.200m

BLOCK 1 F.F.L. 45.650m

BLOCK 8 F.F.L. 45.500m

CHANCELLORS WAY

L Twr

L Twr

EXISTING 300mm SURFACE WATER DRAIN

NEW CONNECTION INTO EXISTING 300mm SURFACE WATER DRAIN. EXISTING SURFACE WATER SEWER TO BE LOCATED PRIOR TO COMMENCEMENT OF WORKS

S77 CL:45.048 IL:43.397 KLARGESTER BYPASS OIL SEPARATOR REF: NSBP003 FOR CAR PARK RUNOFF. TOTAL AREA OF CAR PARK INCLUDED 1400m² TO ALLOW FOR FUTURE HUB BUILDING AND CAR PARK AREA.



Fallowfield Campus, Manchester.

Patch Liner Repair Report

25th November 2019

Civil Engineering, Drainage and Groundwork Contractors

Specialists in CIPP Lining Installations, CCTV Surveys,
Man Entry Sewer & Culvert Traverse Surveys,
High Pressure Water Jetting, Sewer, Drain & Culvert Cleaning,
Septic Tank Emptying & Interceptor Cleaning,
Sonar Drain Tracing, Drain Repairs & Replacements,
Sewer Connections and Site Investigation Excavations.

General Utilities Northwest Limited
Unit 1, Boundary Trading Park
Liverpool Road, Irlam
Manchester M44 6FB
tel: 0161 776 0011
fax: 0161 776 0044
email: generalutilities @btconnect.com
website: www.generalutilitiesnorthwest.co.uk

Company Reg. No. 6468779

CUSTOMER ACCEPTANCE RECEIPT

4291

SITE ADDRESS

fallowfield campus
ACS

WORK CARRIED OUT

installed 2 cipp liners,
and started surface water on site
but struggling with access to site and
MH'S

PK07 - cctv - lining — 1 day
CN56 - Gully wagon

PLEASE SIGN AND RETURN PINK COPY TO THE ABOVE ADDRESS

RECEIVED	DATE
SWRIGHT	25/11/19

General Utilities Northwest LTD
Irlam
Manchester
Tel: 0161 776 0011, Fax: 0161 776 0044

Defect Grade Description

1:	Brick: No Structural Defects Pipe: No Structural Defects **Acceptable Structural Condition**
2:	Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight **Minor collapse risk in short term but potential for further deterioration**
3:	Brick: Total mortorloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint defects, Spalling medium, Wear medium **! Collapse unlikely in near future but future deterioration likely !**
4:	Brick: Total mortorloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multiple fractures, Serious loss of level, spalling large, wear large **!! Collapse likely in foreseeable future !!**
5:	Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10% **!!! Collapsed or collapse imminent !!!**

General Utilities Northwest Limited
Unit 1, Boundary Trading Park,
Liverpool Road, Irlam, Manchester M44 6FB
tel: **0161 776 0011** ***fax:*** **0161 776 0044**
email: **generalutilities@btconnect.com**
website: **www.generalutilitiesnorthwest.co.uk**

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ACS FALLOWFIELD CAMP		25/11/2019		

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Section: 2, PIPE B --- F58/EXC1 10

Section: 3, PIPE A --- F58/EXC1 12

Section: 4, PIPE B --- F58/EXC1 15

∑∅ / Main sections

Project name :	Project number :	Contact :	Date :
ACS FALLOWFIELD CAMPUS 25111			**25/11/2019**

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	PIPE A	F58/EXC1	25/11/2019	BLOCK 1		Vitrified clay	7.75	7.75
2	PIPE B	F58/EXC1	25/11/2019	BLOCK 1		Vitrified clay	7.26	7.26
3	PIPE A	F58/EXC1	25/11/2019	BLOCK 1		Vitrified clay	7.63	7.63
4	PIPE B	F58/EXC1	25/11/2019	BLOCK 1		Vitrified clay	7.69	7.69

Pipe size: CIRCULAR 100 = 30.33 m (30.33 m)

All sections = 30.33 m (30.33 m)

Inspection Summary

Project Name:	Project number:	Contact:	Date:	
ACS FALLOWFIELD CAMPUS 251119			25/11/2019	

Total Length of sewer network	**30.33 m**
Inspected Length of sewer network	**30.33 m**
Not inspected Length of sewer network	**0.00 m**
Total Length of sewer network (abandoned)	**0.00 m**
Inspected Length of Sewer network (abandoned)	**0.00 m**
Not inspected Length of sewer network (abandoned)	**0.00 m**
Total Length of house connections (satellite)	**0.00 m**
Inspected Length of house connections (satellite)	**0.00 m**
Not inspected Length of house connections (satellite)	**0.00 m**
Number of Sections	**4**
Number of sections (abandoned)	**0**
Number of house connections	**0**
Number of Photos	**23**

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
ACS FALLOWFIELD CAMPUS 251119			25/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	7.75 m
Road:	BLOCK 1	Pipe length:	
U/S MH:	PIPE A	Material:	Vitrified clay
D/S MH:	F58/EXC1	Shape:	Circular

F58/EXC1	0.00	MH	Start node type, manhole, reference number : F58/EXC1	0
	0.00	GP	General photograph taken at this point	0
	0.41	OJM	Open joint, medium	1
	1.14	CC	Crack, circumferential, from 4 to 8 o'clock	2
	4.41	JN	Junction, at 9 o'clock, diameter 100mm	0
	5.88	LL	Line deviates left	0
	6.84	JN	Junction, at 3 o'clock, diameter 100mm	0
PIPE A	7.75	LU	Line deviates up	0

Place:	FALLOWFIELD CAMPUS	Section length:	7.26 m
Road:	BLOCK 1	Pipe length:	
U/S MH:	PIPE B	Material:	Vitrified clay
D/S MH:	F58/EXC1	Shape:	Circular

F58/EXC1	0.00	MH	Start node type, manhole, reference number : F58/EXC1	0
	0.00	GP	General photograph taken at this point	0
	0.43	LR	Line deviates right	0
	0.43	B	Broken pipe, from 7 to 11 o'clock	4
	0.43	DEZ	Attached deposits, other, from 5 to 7 o'clock, 5% cross-sectional area loss	3
PIPE B	7.26	LU	Line deviates up	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
ACS FALLOWFIELD CAMPUS 251119			25/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	7.63 m
Road:	BLOCK 1	Pipe length:	
U/S MH:	PIPE A	Material:	Vitrified clay
D/S MH:	F58/EXC1	Shape:	Circular

F58/EXC1	0.00	MH	Start node type, manhole, reference number : F58/EXC1	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.00	RPL	Point repair, localised lining, from 12 to 12 o'clock	0
	0.36	GP	General photograph taken at this point	0
	1.45	GP	General photograph taken at this point	0
	4.33	JN	Junction, at 9 o'clock, diameter 100mm	0
	5.76	LL	Line deviates left	0
	6.54	JN	Junction, at 3 o'clock, diameter 100mm	0
	7.29	LL	Line deviates left	0
PIPE A	7.63	LU	Line deviates up	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
ACS FALLOWFIELD CAMPUS 251119			25/11/2019	

Place:	FALLOWFIELD CAMPUS	Section length:	7.69 m
Road:	BLOCK 1	Pipe length:	
U/S MH:	PIPE B	Material:	Vitrified clay
D/S MH:	F58/EXC1	Shape:	Circular

F58/EXC1	0.00	MH	Start node type, manhole, reference number : F58/EXC1	0
	0.00	WL	Water level, 5% of the vertical dimension	0
	0.00	RPL	Point repair, localised lining, from 12 to 12 o'clock	0
	0.17	LR	Line deviates right	0
	0.99	GP	General photograph taken at this point	0
	2.08	LL	Line deviates left	0
	3.89	JN	Junction, at 3 o'clock, diameter 100mm	0
	5.95	LR	Line deviates right	0
	7.01	JN	Junction, at 3 o'clock, diameter 100mm	0
PIPE B	7.69	LU	Line deviates up	0

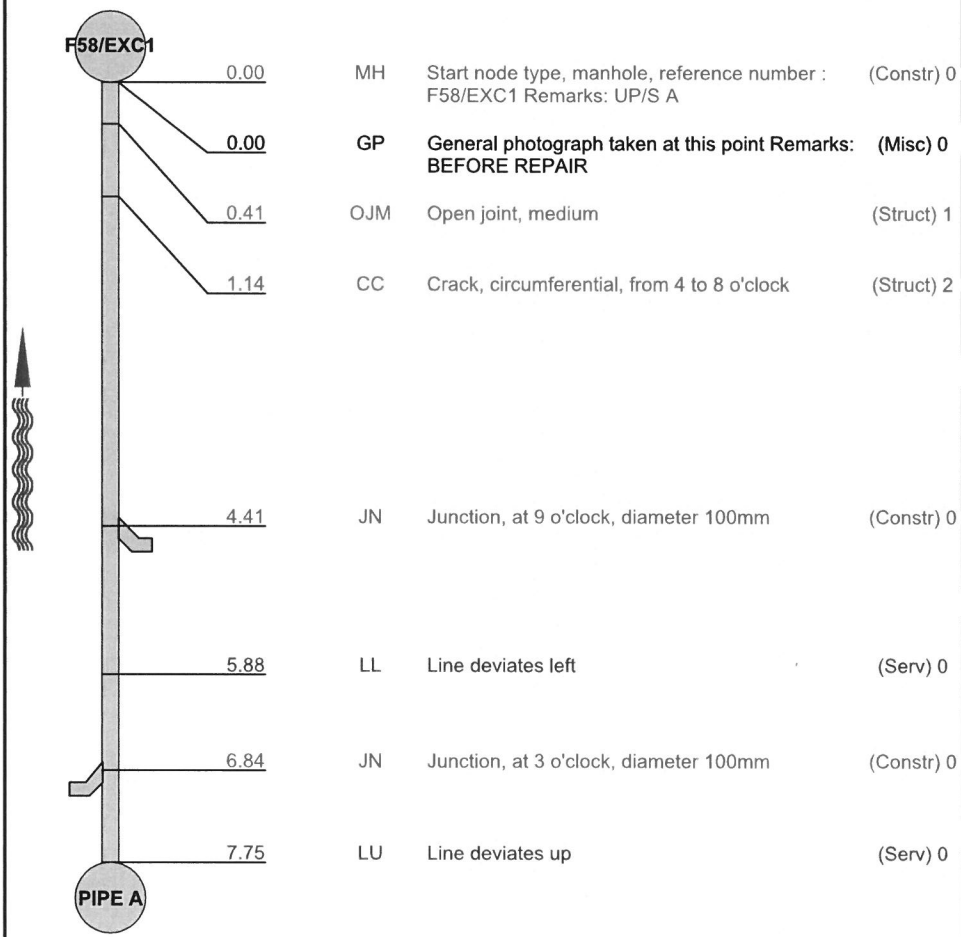
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
25/11/2019		**no rain or snow**	**A.MAIDMENT**	**1**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

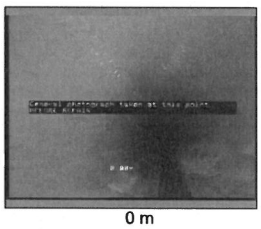
Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE A**
Road :	**BLOCK 1**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F58/EXC1**
Inspection	**F58/EXC1 (U/S) PIPE A**	Pipe Length		D/S Depth :	

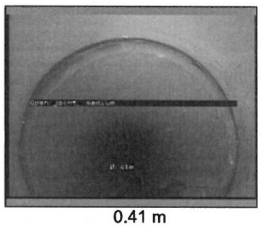
Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Investigation of known defects**	Pipe material :	**Vitrified clay**
Total length :	**7.75 m**	Lining :	

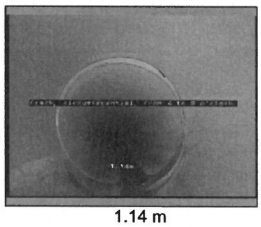
Comment :

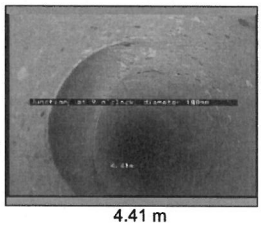


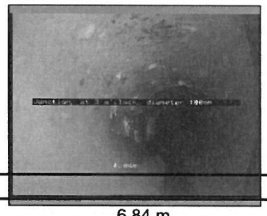
1:70 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F58/EXC1 Remarks: UP/S A	(Constr) 0
0.00	GP	General photograph taken at this point Remarks: BEFORE REPAIR	(Misc) 0
0.41	OJM	Open joint, medium	(Struct) 1
1.14	CC	Crack, circumferential, from 4 to 8 o'clock	(Struct) 2
4.41	JN	Junction, at 9 o'clock, diameter 100mm	(Constr) 0
5.88	LL	Line deviates left	(Serv) 0
6.84	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
7.75	LU	Line deviates up	(Serv) 0


0 m


0.41 m


1.14 m


4.41 m


6.84 m

Structural Defects					Constructional Features				
Service Defects					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	10	1.42	11	2	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**1**	**X**

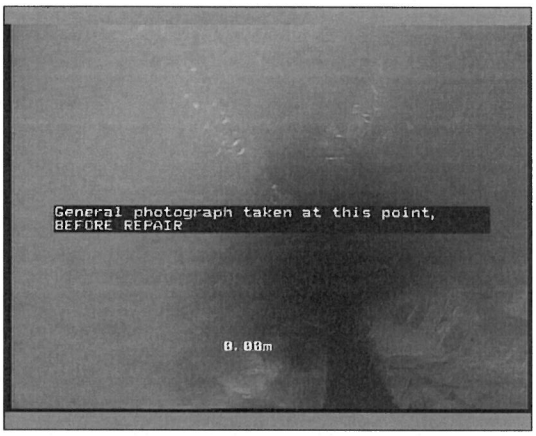


Photo: 1_1_3_A.JPG, 00:00:05
0m, General photograph taken at this point

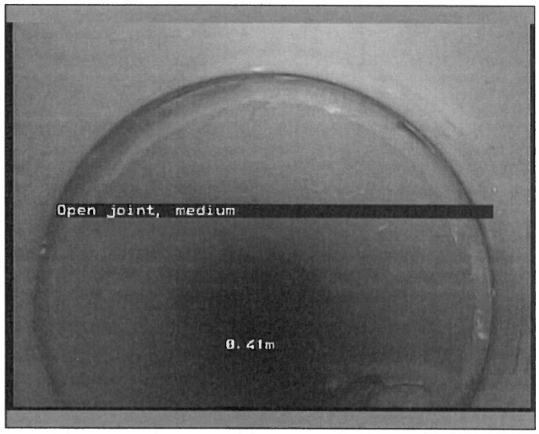


Photo: 1_1_4_A.JPG, 00:00:19
0.41m, Open joint, medium

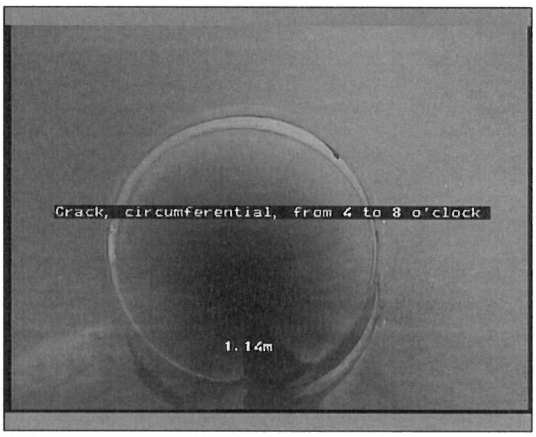


Photo: 1_1_5_A.JPG, 00:00:54
1.14m, Crack, circumferential, from 4 to 8 o'clock

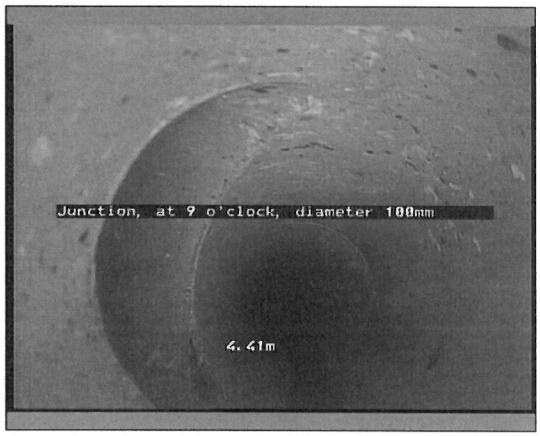


Photo: 1_1_6_A.JPG, 00:01:25
4.41m, Junction, at 9 o'clock, diameter 100mm

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**1**	**X**

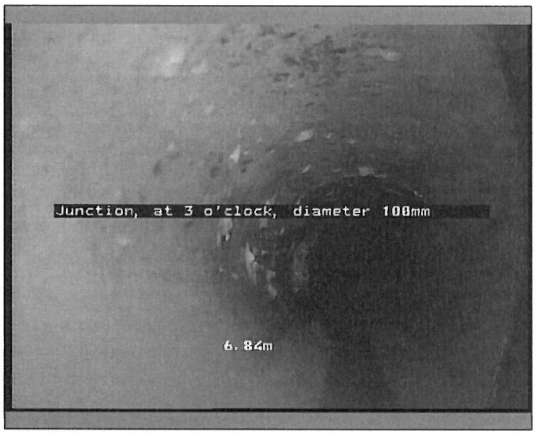


Photo: 1_1_8_A.JPG, 00:01:44
6.84m, Junction, at 3 o'clock, diameter 100mm

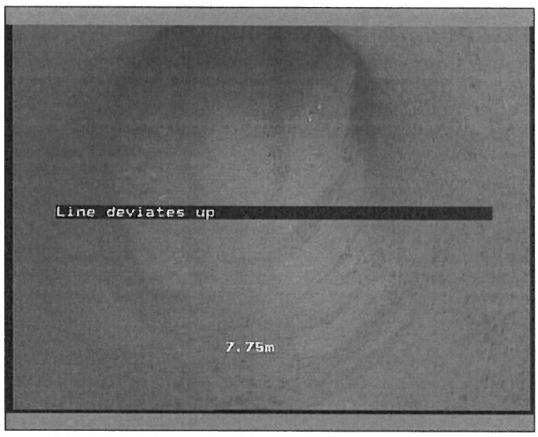


Photo: 1_1_9_A.JPG, 00:01:53
7.75m, Line deviates up

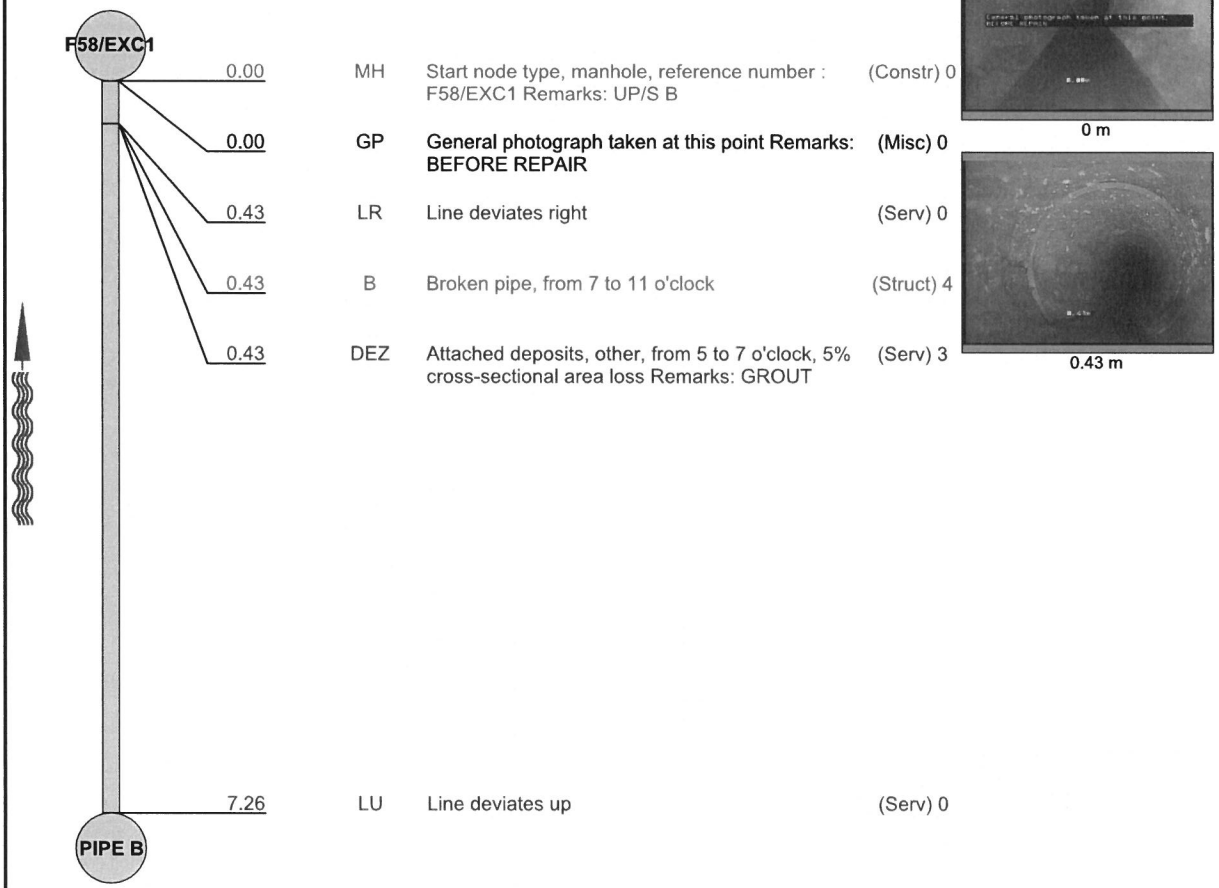
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
25/11/2019		**no rain or snow**	**A.MAIDMENT**	**2**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE B**
Road :	**BLOCK 1**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F58/EXC1**
Inspection	**F58/EXC1 (U/S) PIPE B**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Investigation of known defects**	Pipe material :	**Vitrified clay**
Total length :	**7.26 m**	Lining :	

Comment :



1:70 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F58/EXC1 Remarks: UP/S B	(Constr) 0
0.00	GP	General photograph taken at this point Remarks: BEFORE REPAIR	(Misc) 0
0.43	LR	Line deviates right	(Serv) 0
0.43	B	Broken pipe, from 7 to 11 o'clock	(Struct) 4
0.43	DEZ	Attached deposits, other, from 5 to 7 o'clock, 5% cross-sectional area loss Remarks: GROUT	(Serv) 3
7.26	LU	Line deviates up	(Serv) 0

0 m

0.43 m

Structural Defects					Constructional Features				
Service Defects					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	80	11.02	80	4	1	2	0.28	2	3

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**2**	**X**

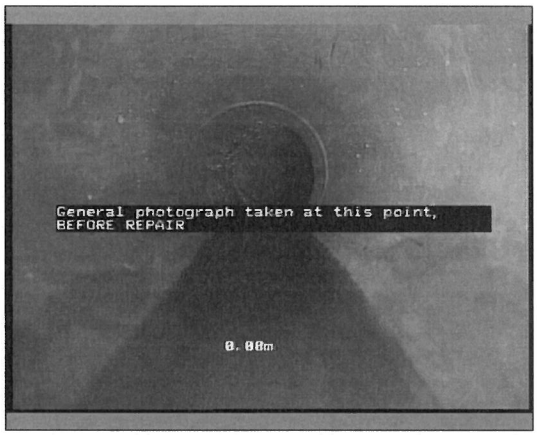


Photo: 3_3_11_A.JPG, 00:00:04
0m, General photograph taken at this point

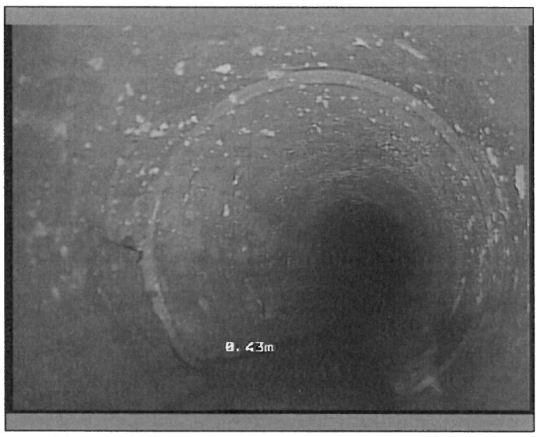


Photo: 3_3_13_A.JPG, 00:00:24
0.43m, Broken pipe, from 7 to 11 o'clock

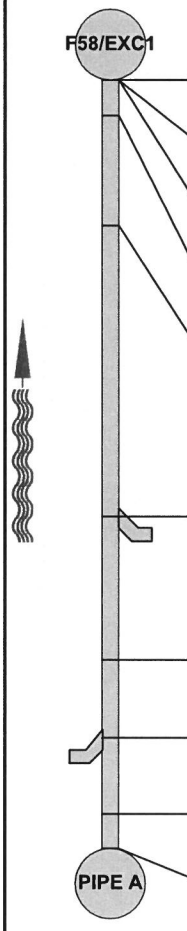
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
25/11/2019		**no rain or snow**	**A.MAIDMENT**	**3**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

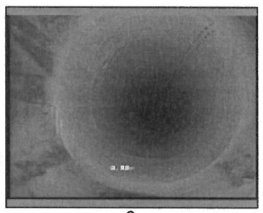
Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE A**
Road :	**BLOCK 1**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F58/EXC1**
Inspection	**F58/EXC1 (U/S) PIPE A**	Pipe Length		D/S Depth :	

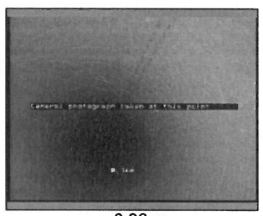
Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Post completion inspection or repairs**	Pipe material :	**Vitrified clay**
Total length :	**7.63 m**	Lining :	

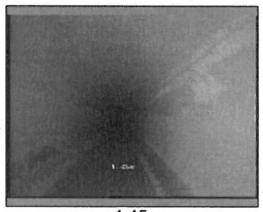
Comment :

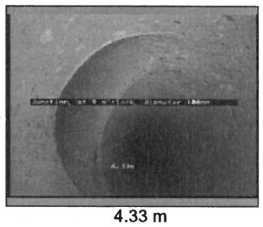


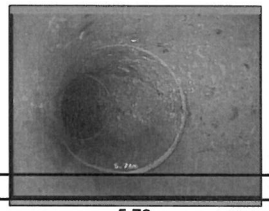
1:70 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F58/EXC1 Remarks: UP/S A	(Constr) 0
0.00	WL	Water level, 5% of the vertical dimension	(Serv) 0
0.00	RPL	Point repair, localised lining, from 12 to 12 o'clock Remarks: CIPP LINER	(Constr) 0
0.36	GP	General photograph taken at this point	(Misc) 0
1.45	GP	General photograph taken at this point	(Misc) 0
4.33	JN	Junction, at 9 o'clock, diameter 100mm	(Constr) 0
5.76	LL	Line deviates left	(Serv) 0
6.54	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
7.29	LL	Line deviates left	(Serv) 0
7.63	LU	Line deviates up Remarks: END OF SURVEY	(Serv) 0


0 m


0.36 m


1.45 m


4.33 m


5.76 m

Structural Defects					Constructional Features				
Service Defects					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	1	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**3**	**X**

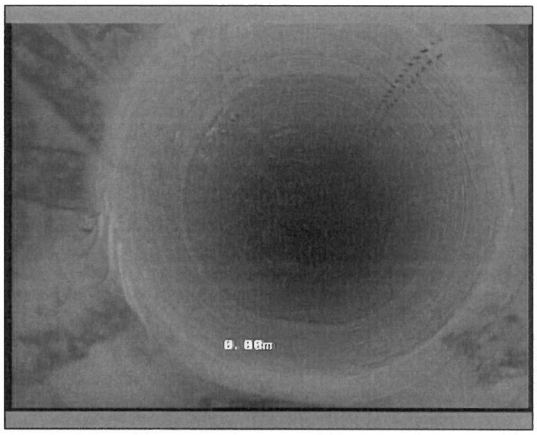


Photo: 4_4_18_A.JPG, 00:00:06
0m, Point repair, localised lining, from 12 to 12 o'clock

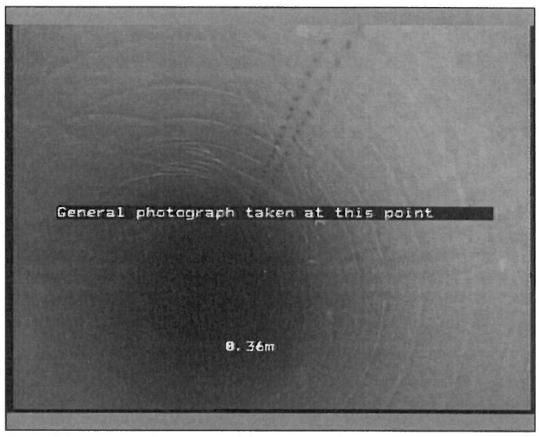


Photo: 4_4_19_A.JPG, 00:00:19
0.36m, General photograph taken at this point

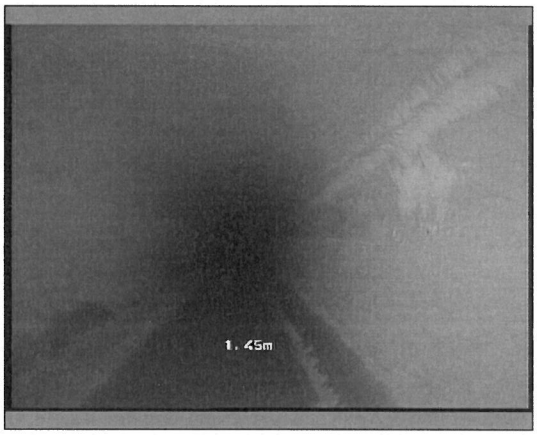


Photo: 4_4_20_A.JPG, 00:00:34
1.45m, General photograph taken at this point

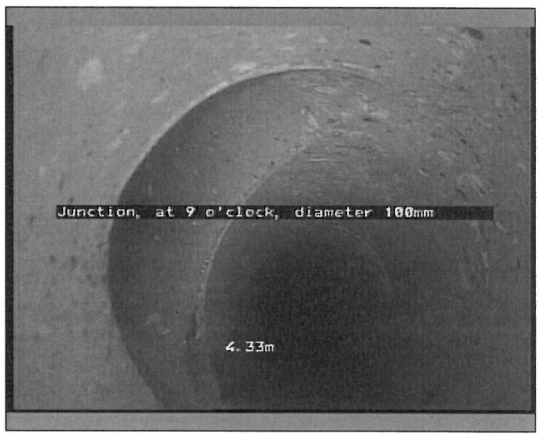


Photo: 4_4_21_A.JPG, 00:00:58
4.33m, Junction, at 9 o'clock, diameter 100mm

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**3**	**X**

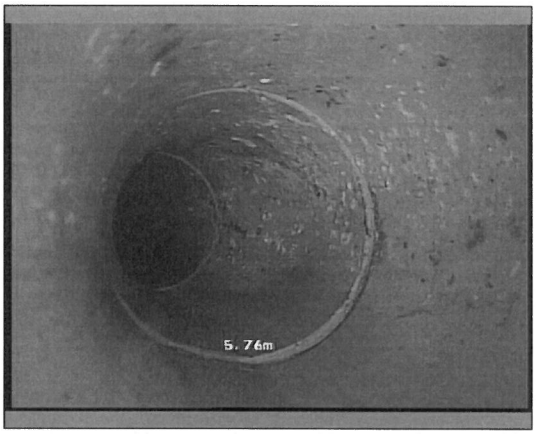


Photo: 4_4_22_A.JPG, 00:01:10
5.76m, Line deviates left

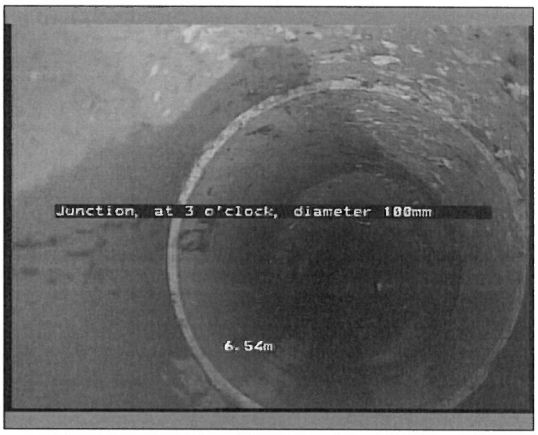


Photo: 4_4_23_A.JPG, 00:01:26
6.54m, Junction, at 3 o'clock, diameter 100mm

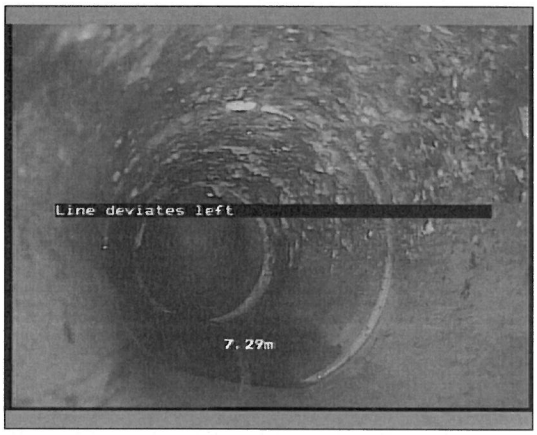


Photo: 4_4_24_A.JPG, 00:01:37
7.29m, Line deviates left

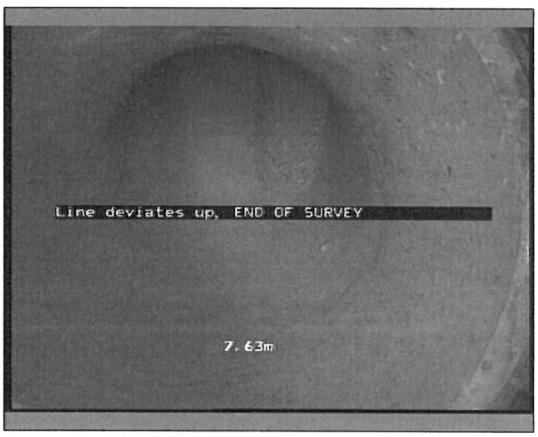


Photo: 4_4_25_A.JPG, 00:01:45
7.63m, Line deviates up

Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
25/11/2019		**no rain or snow**	**A.MAIDMENT**	**4**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Operator :
no rain or snow	**PK07**	**camera 2**		**yes**	**A.MAIDMENT**

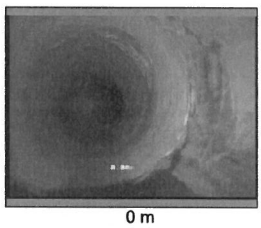
Place :	**FALLOWFIELD CAMPUS**	Location details:		U/S MH :	**PIPE B**
Road :	**BLOCK 1**	Catchment:		U/S Depth :	
Location	**Verge**	Tape number :		D/S MH :	**F58/EXC1**
Inspection	**F58/EXC1 (U/S) PIPE B**	Pipe Length		D/S Depth :	

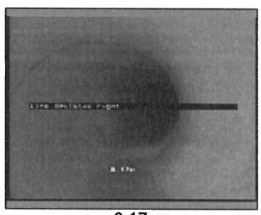
Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Post completion inspection or repairs**	Pipe material :	**Vitrified clay**
Total length :	**7.69 m**	Lining :	

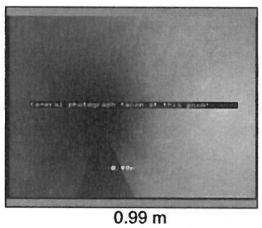
Comment :

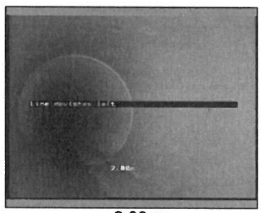


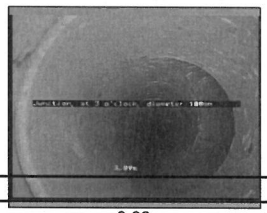
1:70 Position	Code	Observation	Grade
0.00	MH	Start node type, manhole, reference number : F58/EXC1 Remarks: UP/S B	(Constr) 0
0.00	WL	Water level, 5% of the vertical dimension	(Serv) 0
0.00	RPL	Point repair, localised lining, from 12 to 12 o'clock Remarks: CIPP LINER	(Constr) 0
0.17	LR	Line deviates right	(Serv) 0
0.99	GP	General photograph taken at this point	(Misc) 0
2.08	LL	Line deviates left	(Serv) 0
3.89	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
5.95	LR	Line deviates right	(Serv) 0
7.01	JN	Junction, at 3 o'clock, diameter 100mm	(Constr) 0
7.69	LU	Line deviates up Remarks: END OF SURVEY	(Serv) 0


0 m


0.17 m


0.99 m


2.08 m


3.89 m

Structural Defects					Constructional Features				
Service Defects					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	1	0	0	0	0	1

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**4**	**X**

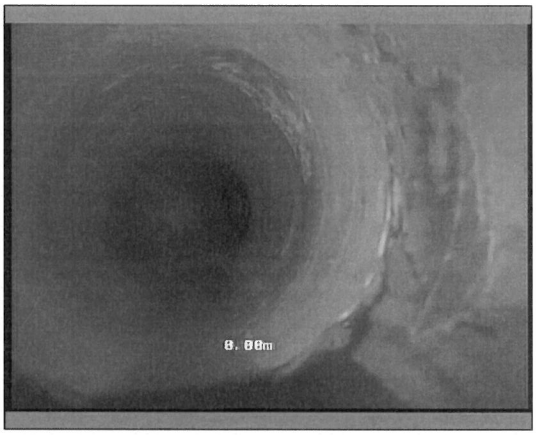


Photo: 5_5_28_A.JPG, 00:00:04
0m, Point repair, localised lining, from 12 to 12 o'clock

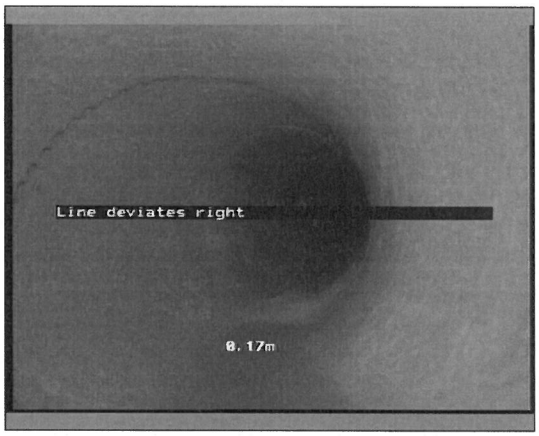


Photo: 5_5_29_A.JPG, 00:00:17
0.17m, Line deviates right

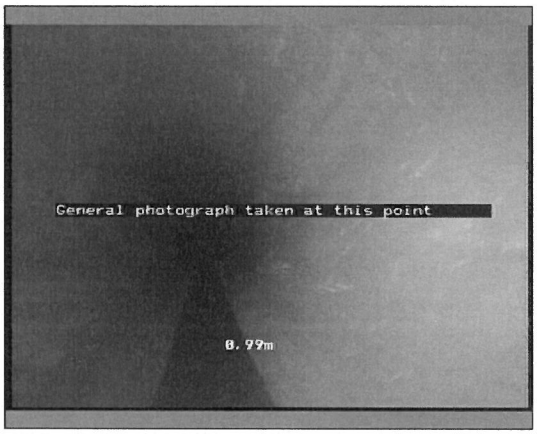


Photo: 5_5_30_A.JPG, 00:00:33
0.99m, General photograph taken at this point

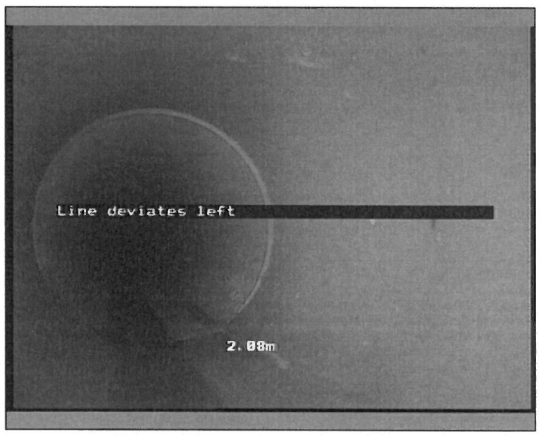


Photo: 5_5_31_A.JPG, 00:00:46
2.08m, Line deviates left

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
FALLOWFIELD CAMPUS	**BLOCK 1**	**25/11/2019**	**4**	**X**

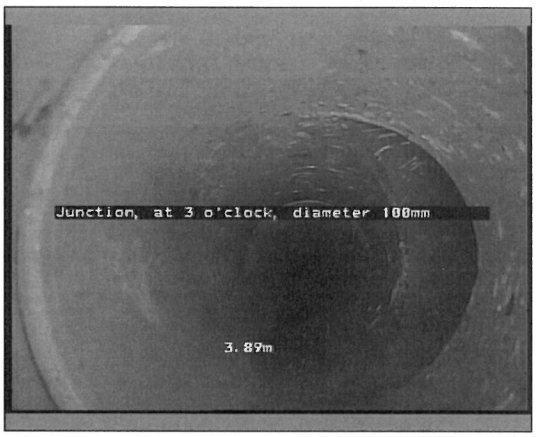


Photo: 5_5_32_A.JPG, 00:01:01
3.89m, Junction, at 3 o'clock, diameter 100mm

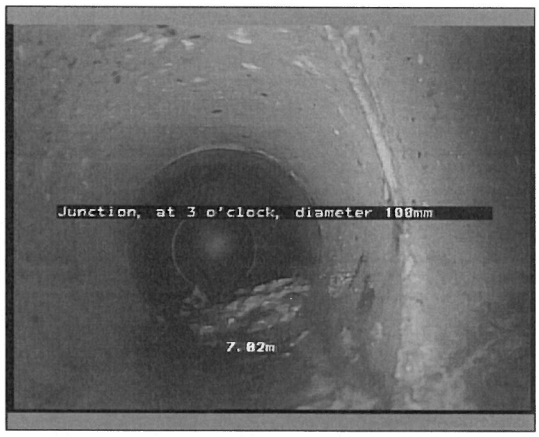


Photo: 5_5_34_A.JPG, 00:01:31
7.01m, Junction, at 3 o'clock, diameter 100mm

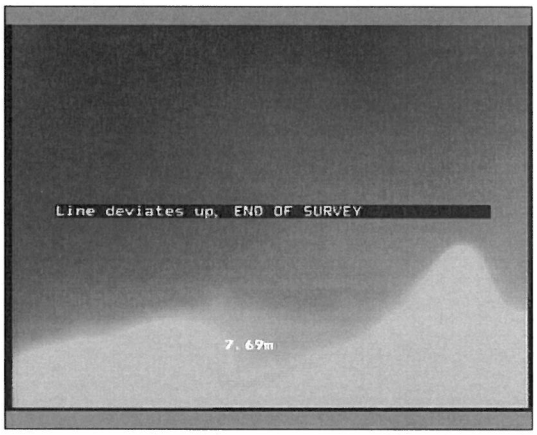
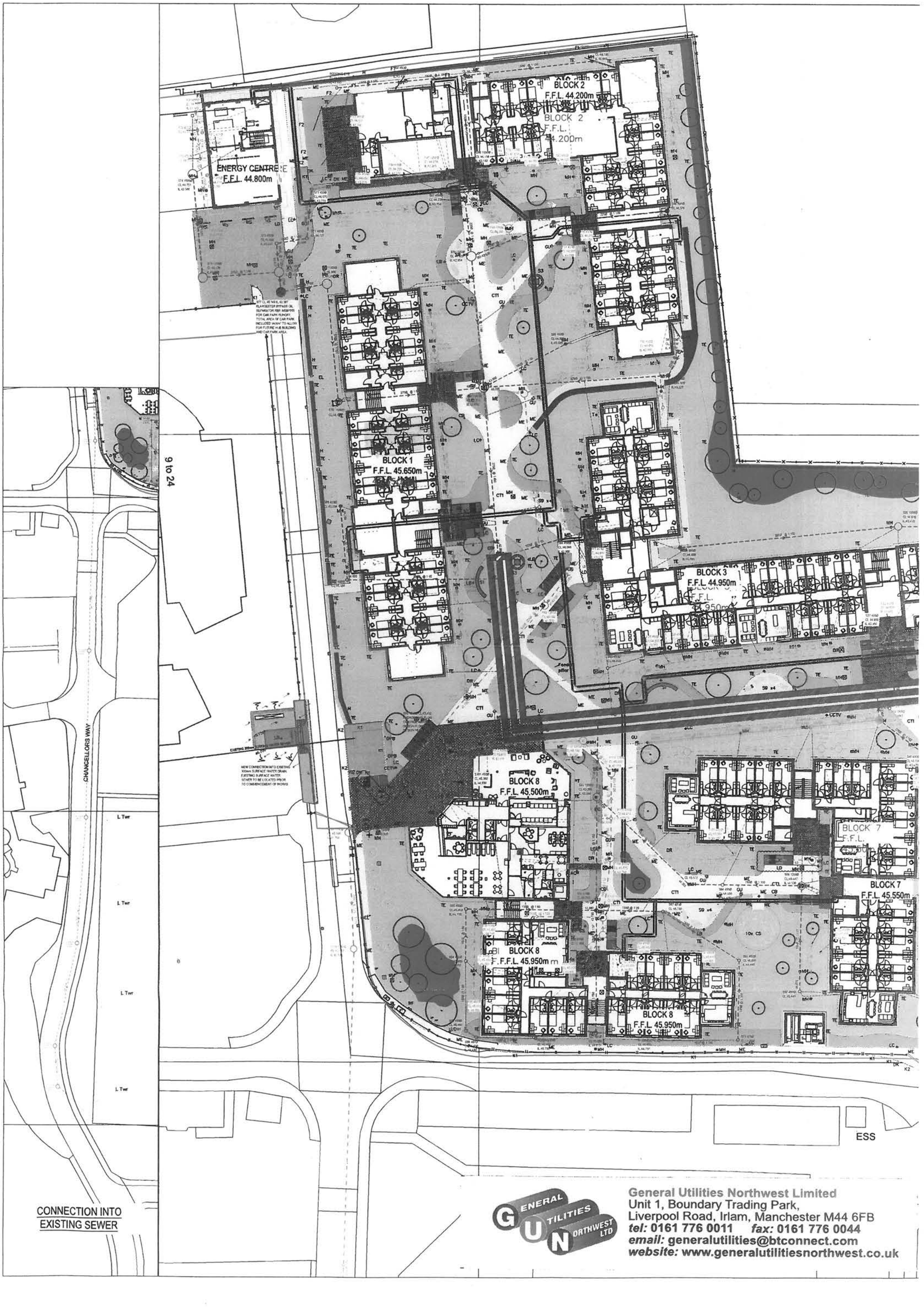


Photo: 5_5_35_A.JPG, 00:01:42
7.69m, Line deviates up


A
B
F58/EXC1


INSTALLING LINER





General Utilities Northwest Limited
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Lanes Group PLC

ACS FALLOWFIELD CAMPUS

20 January 2020

Lanes Group Plc
300 Lansdowne Road, Eccles, Manchester, M30 9PJ
0161 788 2222
www.lanesgroup.com

Lanes Group plc - CCTV Report - Defect Grade Summary

The defect codes and observations used in this report are colour coded and fall into four main categories. Please refer to the descriptions below:

Structural Observations/Defects:

These codes/observations relate to the structural integrity of the drain or sewer and include defects such as cracks, fractures, moderate joint defects, holes, breaks and surface wear.

- **Grade 3**: Best practice suggests a medium term repair schedule is planned due to possible deterioration.
- **Grade 4**: Best practice suggests a repair schedule is planned in the short term to avoid potential collapse or increased damage.
- **Grade 5**: Best practice suggests an immediate repair schedule as the risk of collapse or further structural damage is very high.

Service Observations/Defects:

These codes/observations relate to the hydraulic efficiency of the drain or sewer, its capability to meet its service requirements, loss of capacity, potential for blockage/s and water tightness.

- **Grade 3**: Best practice suggests a medium term maintenance schedule is planned.
- **Grade 4**: Best practice suggests a repair schedule is planned in the short term to avoid potential blockages and/or flooding.
- **Grade 5**: Best practice suggests an immediate maintenance schedule is implemented as the risk of blockages and/or flooding is very high.

Miscellaneous Observations/Defects

These codes/observations relate to general items concerning the drain or sewer and cover changes to size, shape and materials, general remarks and photographs, vermin and abandoned surveys. These items should be considered individually by referring to the remarks presented in the section reports.

Construction Observations/Defects

These codes/observations relate to the general construction of the drain or sewer and covers connections/junctions, Lining and sealing defects, Node points and point repairs. These items should be considered individually by referring to the remarks presented in the section reports.

Thank you for choosing Lanes Group plc

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CCTV reports overview

Profile Report 1

Inspection: 1

Project Information 2

Section: 1, PIPE B --- F44 PIPE B 3

Section: 2, PIPE B --- F45 PIPE B 4

Section: 3, PIPE D --- F45 PIPE D 5

Section: 4, PIPE B --- F44 PIPE B 6

Section: 5, PIPE B --- F45 PIPE B 7

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∑∅ / Main sections

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
1	PIPE B	F44 PIPE B	03/01/2020	Fallowfield Campus Block 2	100 mm	Plastic (smooth)	9.16	9.16
2	PIPE B	F45 PIPE B	03/01/2020	Fallowfield Campus Block 2	100 mm	Plastic (smooth)	7.33	7.33
3	PIPE D	F45 PIPE D	03/01/2020	Fallowfield Campus Block 2	100 mm	Plastic (smooth)	12.71	12.71
4	PIPE B	F44 PIPE B	03/01/2020	Fallowfield Campus Block 2	100 mm	Plastic (smooth)	9.18	9.18
5	PIPE B	F45 PIPE B	03/01/2020	Fallowfield Campus Block 2	100 mm	Plastic (smooth)	7.26	7.26

Pipe size: CIRCULAR 100 = 45.64 m (45.64 m)

All sections = 45.64 m (45.64 m)

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Project Information Overview:

Client:	**ACS Construction Group Limited**
Contact Name:	
Department:	**Lansdowne House - Unit 11 Oak Green**
Road:	**Stanley Green Business Park**
Town:	**Stockport**
County:	**SK8 6QL**
Telephone:	
Fax:	
Mobile:	
E-mail:	

Site:	**ACS Construction Group Limited**
Contact Name:	
Department:	**Block 2**
Road:	**Fallowfield Campus**
Town:	**Manchester**
County:	**M14 6PA**
Telephone:	
Fax:	
Mobile:	
E-mail:	

Contractor	**Lanes Group PLC**
Contact Name:	**Paul Lynch**
Department:	**North West Office Building 1**
Road:	**300 Lansdowne Road**
Town:	**Monton, Eccles**
County:	**Manchester, M30 9PJ**
Telephone:	**0161 788 2222**
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Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
03/01/2020	PJ357492	CCTV	CHE	Dry	3
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
					12.71 m

Street/Road:	Fallowfield Campus Block 2	**Flow Control:**	No flow control	**U/S MH:**	**PIPE D**
Town/City:	Fallowfield	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	0
Postcode:	M14 6PA	**Owner:**		**D/S MH :**	**F45 PIPE D**
Location:	PD	**Direction:**	F45 PIPE D (U/S) PIPE D	**D/S Depth(m):**	1.9

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Gravity drain	**Asset width (mm):**	
Purpose:	Standard investigation	**Asset shape:**	Circular
Asset Lining:		**Asset material:**	Plastic (smooth)

Comments:

1:105	Position	Observations and Remarks	Grade
Depth: 1.9			
F45 PIPE D	0.00	MH: Start node type, manhole reference number: F45 PIPE D	
	0.00	WL: Water level 0%	
	12.71	OCF: Finish node type, other special chamber reference number: PIPE D Remarks: At rest bend	
PIPE D			
Depth: 0			

Structural Defects | **Constructional Features**
Service Defects | **Miscellaneous Features**

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade

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Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
03/01/2020	PJ357492	CCTV	CHE	Dry	1
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
					9.16 m

Street/Road:	Fallowfield Campus Block 2	**Flow Control:**	No flow control	**U/S MH:**	**PIPE B**
Town/City:	Fallowfield	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	0
Postcode:	M14 6PA	**Owner:**		**D/S MH :**	**F44 PIPE B**
Location:	PD	**Direction:**	F44 PIPE B (U/S) PIPE B	**D/S Depth(m):**	1.9

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Gravity drain	**Asset width (mm):**	
Purpose:	Standard investigation	**Asset shape:**	Circular
Asset Lining:		**Asset material:**	Plastic (smooth)

Comments:

1:75	Position	Observations and Remarks	Grade

Depth: 1.9



F44 PIPE B

0.00 — MH: Start node type, manhole reference number: F44 PIPE B

0.00 — WL: Water level 0%

9.16 — OCF: Finish node type, other special chamber reference number: PIPE B Remarks: At rest bend

PIPE B

Depth: 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade

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Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
03/01/2020	PJ357492	CCTV	CHE	Dry	4
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
					9.18 m

Street/Road:	Fallowfield Campus Block 2	**Flow Control:**	No flow control	**U/S MH:**	PIPE B
Town/City:	Fallowfield	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	0
Postcode:	M14 6PA	**Owner:**		**D/S MH :**	F44 PIPE B
Location:	PD	**Direction:**	F44 PIPE B (U/S) PIPE B	**D/S Depth(m):**	1.6

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Gravity drain	**Asset width (mm):**	
Purpose:	Standard investigation	**Asset shape:**	Circular
Asset Lining:	PVC	**Asset material:**	Plastic (smooth)

Comments:

1:75	Position	Observations and Remarks	Grade
Depth: 1.6			
F44 PIPE B	0.00	MH: Start node type, manhole reference number: F44 PIPE B	
	0.00	WL: Water level 0%	
	8.22	REM: General remark Remarks: Liner ends	
PIPE B	9.18	OCF: Finish node type, other special chamber reference number: PIPE B Remarks: At rest bend	
Depth: 0			

Structural Defects | **Constructional Features**
Service Defects | **Miscellaneous Features**

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade

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Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
03/01/2020	PJ357492	CCTV	CHE	Dry	2
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
					7.33 m

Street/Road:	Fallowfield Campus Block 2	**Flow Control:**	No flow control	**U/S MH:**	PIPE B
Town/City:	Fallowfield	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	0
Postcode:	M14 6PA	**Owner:**		**D/S MH :**	F45 PIPE B
Location:	PD	**Direction:**	F45 PIPE B (U/S) PIPE B	**D/S Depth(m):**	1.6

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Gravity drain	**Asset width (mm):**	
Purpose:	Standard investigation	**Asset shape:**	Circular
Asset Lining:		**Asset material:**	Plastic (smooth)

Comments:

1:60	Position	Observations and Remarks	Grade
Depth: 1.6			
F45 PIPE B	0.00	MH: Start node type, manhole reference number: F45 PIPE B	
	0.00	WL: Water level 0%	
	0.99	CM: Cracks, multiple at 6 O'Clock	
	7.33	OCF: Finish node type, other special chamber reference number: PIPE B Remarks: At rest bend	
PIPE B			
Depth: 0			



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade

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Lanes Group - Drainage CCTV Inspection report

Date of survey:	Lanes Job number:	Method of Inspection:	CCTV Operator:	Weather:	Section Number:
03/01/2020	PJ357492	CCTV	CHE	Dry	5
Main ground type:	**Vehicle:**	**Camera:**	**Preset:**	**Cover location:**	**Total Length (m):**
					7.26 m

Street/Road:	Fallowfield Campus Block 2	**Flow Control:**	No flow control	**U/S MH:**	**PIPE B**
Town/City:	Fallowfield	**Pre-Cleaned:**	Yes	**U/S Depth(m):**	0
Postcode:	M14 6PA	**Owner:**		**D/S MH :**	**F45 PIPE B**
Location:	PD	**Direction:**	F45 PIPE B (U/S) PIPE B	**D/S Depth(m):**	1.6

Asset Use:	Foul waste	**Asset Dia (mm):**	100 mm
Asset type:	Gravity drain	**Asset width (mm):**	
Purpose:	Standard investigation	**Asset shape:**	Circular
Asset Lining:	PVC	**Asset material:**	Plastic (smooth)

Comments:

1:60	Position	Observations and Remarks	Grade
Depth: 1.6			
F45 PIPE B	0.00	MH: Start node type, manhole reference number: F45 PIPE B	
	0.00	WL: Water level 0%	
	3.36	REM: General remark Remarks: Liner end	
	7.26	OCF: Finish node type, other special chamber reference number: PIPE B Remarks: At rest bend	
PIPE B			
Depth: 0			



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade