

# CCTV Survey Report

Drain Condition  
Reporting  
Software  
PT/430/0918



Prepared For  
**Friar Lettings**  
**78 Vartry Road**  
**London**

Site  
**Friar Lettings**  
**78 Vartry Road**  
**London**

**N15 6PU**

**N15 6PU**



**SINGING IN THE DRAINS LTD**

**Surveyor: Kevin Norman**

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**020 3005 5307**

Total Defects for Project



Total DRB Grades for Project





**78 Vartry Road N15 6PU - CCTV Survey Report : 15/01/24**

**Prepared by:**

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Surveyor :	Kevin Norman
Valid Certification No :	

**Client Information**

Client Name :	Friar Lettings
Contact :	Gillian Clyne
Location :	78 Vartry Road
Town :	London
Region :	
Postcode :	N15 6PU
Tel :	
Mobile :	07498983861
Email :	admin@friarlettings.co.uk
Fax :	

**Site Information**

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## Report interpretation.

### Overview:

Each section of the drainage system is allocated a score indicating areas that require attention. These areas are detailed in the Overview section on the following page and also at the bottom right of the first few pages. We use colour coding as an indicator of severity. Additional information concerning rehabilitation options/recomendations is included in the Overview page, which can also be used as an, "at a glance" indication of system condition. More in depth information for each section, Including images can be found later in the report. Grade indicators are as follows:

**Grade A:** Drain is serviceable no recommendations required

**Grade B:** There is an issue that might require remedial works

**Grade C:** There is a defect that requires remedial works, the drain is not serviceable.

### Observations:

Each section of drainage reported on (manhole to manhole for example), contains detailed information about that drain and any observations made concerning condition are detailed below the header section. The observations are colour coded and given a severity score, with more significant defects being given a higher score, using a scale from 1 to 5 as detailed below:

**Severity 1 to 2:** These defects may require remedial monitoring

**Severity 3:** These defects probably require some form of remedial works

**Severity 4 to 5:** Defects that will require remedial repair or replacement

### General:

The information provided is relevant at the time of survey. The coding system in this report is based on the Manual of Sewer Condition Classification, 5th edition (MSCC5) domestic codes ( BS EN 13508-1:2003 ). This is the official standard for the water industry.

The severity system is based on significant experience in general practice and the 1 -5 grades represent the severity of individual defects: 5 representing a more serious defect.

Please feel free to contact us for further explanation or pricing for remedial works required.




Total Defects for Project




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Overview

<b>Section: 1</b> From: MH01 To: MH02		Purpose of Inspection: Investigation of known structural or service defects	<b>DRB Grade:</b> <b>Pipe Size: 150</b> <b>Material: Vitrified Clay (i.e. all clayware)</b> <b>Use: Combined</b>
<b>MH</b>	Cover  Benching  Channel 	Grade	

<b>Section: 2</b> From: MH01 To: POINT A		Purpose of Inspection: Investigation of known structural or service defects	<b>DRB Grade:</b> <b>Pipe Size: 150</b> <b>Material: Vitrified Clay (i.e. all clayware)</b> <b>Use: Combined</b>
<b>MH</b>	Cover  Benching  Channel 	Grade	

Total Defects for Project



Total DRB Grades for Project





Site: 78 Vartry Road, London

Section 1

Client: Friar Lettings	Location (Street Name): 78 Vartry Road	City/Town/Village London	Cust Job Ref.	Surveyors Name: Kevin Norman	Date: 15/01/2024
Start Node Ref: Start Node Depth: Start Node Coordinate:	MH01 1.20	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	MH02 0.00	Direction: Use: Material:	D C VC Height/Dia: Shape: Cleaned: 150 C N

Node Type	Cover Condition	Benching Condition	Channel Condition	Node Condition Remarks
MH	Inadequate <span style="color: orange;">✗</span>	Good <span style="color: green;">✓</span>	Good <span style="color: green;">✓</span>	Needs new cover installed

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	11.2	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%			0:00:00
00.09m	CC	Crack, circumferential 12-12		0_2	0:00:24
01.90m	CC	Crack, circumferential 12-12		0_3	0:00:58
02.20m	CC	Crack, circumferential 12-06		0_4	0:01:06
03.16m	DEE	Attached deposits, encrustation 04-08 10%		0_5	0:01:27
03.55m	DEE	Attached deposits, encrustation 03-06 20%		0_6	0:01:33
09.22m	FM	Fracture multiple 12-12		0_7	0:03:08
11.20m	MHF	Finish node type, manhole			

0m  
11.2m  
FLOW

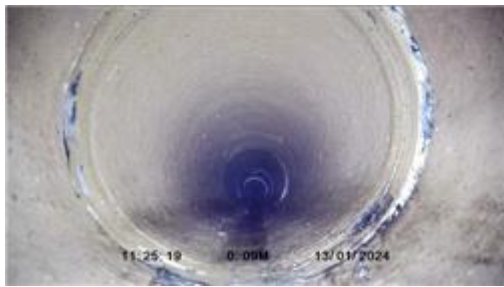


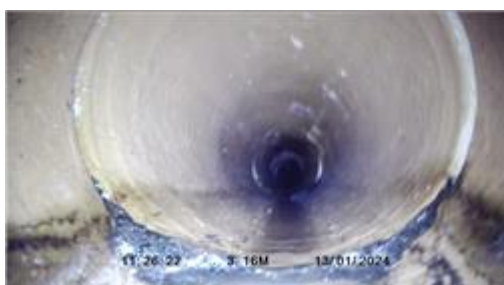
Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

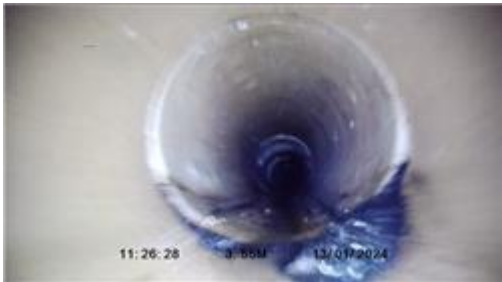
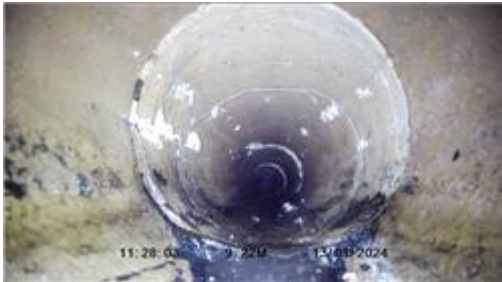
Section 1

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole MH01	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	
00.09m	0:00:24	CC	Crack, circumferential from 12 o'clock to 12 o'clock - Severity 1	Image Provided - Ref: 0_2 
01.90m	0:00:58	CC	Crack, circumferential from 12 o'clock to 12 o'clock - Severity 1	Image Provided - Ref: 0_3 
02.20m	0:01:06	CC	Crack, circumferential from 12 o'clock to 06 o'clock - Severity 1	Image Provided - Ref: 0_4 
03.16m	0:01:27	DEE	Attached deposits, encrustation from 04 o'clock to 08 o'clock: 10% Cross sectional area loss - Severity 3 Build up of scale.	Image Provided - Ref: 0_5 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
03.55m	0:01:33	DEE	Attached deposits, encrustation from 03 o'clock to 06 o'clock: 20% Cross sectional area loss - Severity 3	<p>Image Provided - Ref: 0_6</p> 
09.22m	0:03:08	FM	Fracture multiple from 12 o'clock to 12 o'clock - Severity 4	<p>Image Provided - Ref: 0_7</p> 
11.20m		MHF	Finish node type, manhole MH02 Manhole is burried in the front garden.	

Total Defects for section

DRB Grade for Section





Site: 78 Vartry Road, London

Section 2

Client: Friar Lettings	Location (Street Name): 78 Vartry Road	City/Town/Village London	Cust Job Ref.	Surveyors Name: Kevin Norman	Date: 15/01/2024
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Start Node Ref: MH01	Finish Node Ref: POINT A	Direction: U	Height/Dia: 150
Start Node Depth: 1.20	Finish Node Depth: 0.00	Use: C	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: VC	Cleaned N

Node Type	Cover Condition	Benching Condition	Channel Condition	Node Condition Remarks
MH	Inadequate <span style="color: orange;">✗</span>	Good <span style="color: green;">✓</span>	Good <span style="color: green;">✓</span>	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	04.1	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%			0:00:00
00.00m	LRF	Line of drain/sewer deviates right [full]		1_2	0:00:10
00.67m	OJM	Open joint medium		1_3	0:00:22
00.96m	OJL	Open joint large		1_4	0:00:29
01.00m	JN	Junction 03 : 150mm Diameter		1_5	0:00:34
01.00m	CC	Crack, circumferential 03-06		1_6	0:00:37
01.34m	CM	Cracks, multiple 03-07		1_7	0:00:43
02.49m	JN	Junction 02 : 100mm Diameter		1_8	0:00:57
02.59m	OJM	Open joint medium		1_9	0:01:00
02.97m	LRF	Line of drain/sewer deviates right [full]		1_10	0:01:07
03.55m	LUF	Line of drain/sewer deviates up [full]		1_11	0:01:15
04.10m	GYF	Finish node type Gully			

Total Defects for section



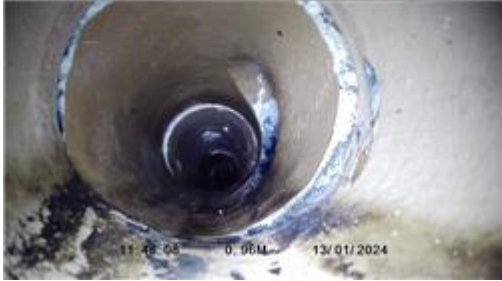
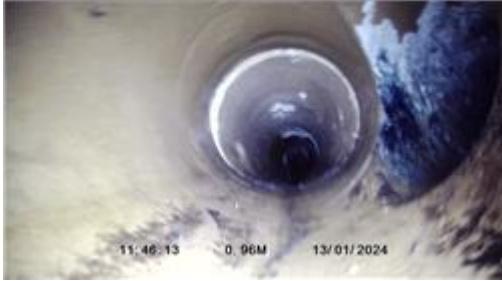
DRB Grade for Section





Descriptive Report with Remarks and Observation Images




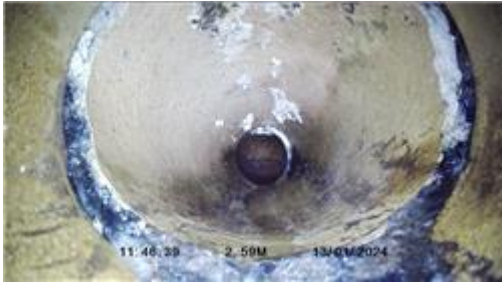
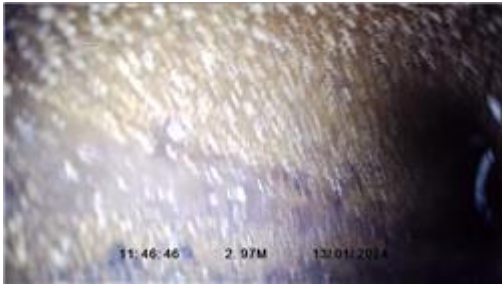
Section 2

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole MH01	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	
00.00m	0:00:10	LRF	Line of drain/sewer deviates right [full]	Image Provided - Ref: 1_2 
00.67m	0:00:22	OJM	Open joint medium - Severity 3	Image Provided - Ref: 1_3 
00.96m	0:00:29	OJL	Open joint large - Severity 4	Image Provided - Ref: 1_4 
01.00m	0:00:34	JN	Junction at 03 o'clock: 150mm Diameter	Image Provided - Ref: 1_5 

Total Defects for section

DRB Grade for Section

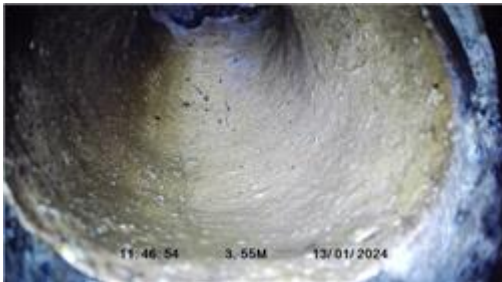


Pos	Video Ref	Code	Description	Image
01.00m	0:00:37	CC	Crack, circumferential from 03 o'clock to 06 o'clock - Severity 1 CRACK ON JUNCTION	Image Provided - Ref: 1_6 
01.34m	0:00:43	CM	Cracks, multiple from 03 o'clock to 07 o'clock - Severity 2	Image Provided - Ref: 1_7 
02.49m	0:00:57	JN	Junction at 02 o'clock: 100mm Diameter	Image Provided - Ref: 1_8 
02.59m	0:01:00	OJM	Open joint medium - Severity 3	Image Provided - Ref: 1_9 
02.97m	0:01:07	LRF	Line of drain/sewer deviates right [full]	Image Provided - Ref: 1_10 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
03.55m	0:01:15	LUF	Line of drain/sewer deviates up [full]	<p>Image Provided - Ref: 1_11</p> 
04.10m		GYF	Finish node type Gully POINT A	

Total Defects for section

DRB Grade for Section



**A guide to defects and other observations in drainage systems**

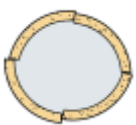


More detailed information can be found in the National Standard (BS EN 13508-1:2003) and in the Manual of Sewer Condition Classification (MSCC) 5th Edition, written by the Water Research Centre (WRc).

Use	
Code	Description
C	Combined
F	Foul
S	Surface Water
T	Trade Effluent
W	Culverted Watercourse
Z	Other

Common Materials	
Code	Description
VC	Vitrified Clay
PVC	Polyvinyl Chloride
CO	Concrete
CI	Cast Iron
PF	Pitch Fibre
PE	Polyethylene
DI	Ductile Iron

Start Node	Description	Finish Node
MH	Manhole	MHF
IC	Inspection Chamber	ICF
GY	Gulley	GYF
RE	Rodding Eye	REF
SK	Soakaway	SKF
BN	Buchan Trap	BNF
BR	Major Connection without Ref	BRF
CP	Catch Pit	CPF
OC	Other Special Chamber	OCF
OF	Outfall	OFF
OS	Oil Seperator	OSF
WR	Winser Trap	WRF
LH	Lamphole	LHF

Code	Observation	Description	Attributes	
B	Broken	Pieces pipe have visibly moved	Defined by clock references. Associated with deformity in rigid pipe	
CC CL CM CR	Cracks	Cracks are break lines that are not visibly open	Defined by clock reference position/s. Longitudinal and radiating cracks attract only one clock reference	
CN	Connection	Lateral pipe has been connected after original construction	Described by clock reference position and diameter	

Total Defects for section

DRB Grade for Section





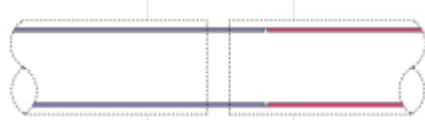

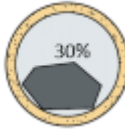





<b>CX(I)</b>	Defective Connection (Intruding)	Defective by intrusion or damage due to factors including: cracks, fractures, obstruction, position etc	Described by clock reference position and diameter (+ % intrusion)	
<b>CU</b>	Loss of Vision	Lens of camera is obscured by debris, water etc. Operator is unable to see drain clearly	'W' can be added if loss of vision is due to water	
<b>D</b>	Deformed	Pipe has lost its structure	Described by percentage loss of height or width. Recorded in 5% increments	
<b>DEE</b>	Deposits Encrustation	Eg. Attached scale deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
<b>DEG</b>	Deposits Grease	Attached grease deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
<b>DER DES</b>	Deposits Coarse/Fine	Settled deposits on the invert of the pipe.	Described by percentage loss of height or diameter. Recorded in 5% increments.	
<b>FC FL FM FR</b>	Fractures	Fractures are visibly open. Pieces of pipe have not moved	Defined by clock reference position/s. Longitudinal and radiating fractures attract only one clock reference	
<b>H</b>	Holes	Section of pipe fabric is missing	Defined by clock reference location. Normally two clock references	
<b>I</b>	Infiltration	Water is infiltrating the pipe, normally via a joint but could be via another defect	Can be described in Remarks using terms such as Seeper, Dripper and Runner	
<b>JDL</b>	Joint Displaced Large	Pipe has moved at joint, perpendicular to axis of pipe	More than 1.5 times the pipe wall thickness must be visible	

Total Defects for section

DRB Grade for Section






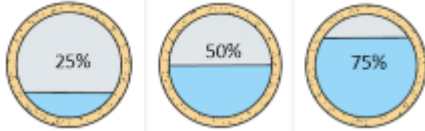


<b>JDM</b>	Joint Displaced Medium	Pipe has moved at joint, perpendicular to axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
<b>JN</b>	Junction	Lateral pipe was installed at construction	Described by clock reference position and diameter	
<b>JX</b>	Defective Junction	Lateral pipe was installed at construction but is defective in some way	Joint can be defective due to factors including: cracks, fractures, obstruction, position etc	
<b>LD LU LL LR</b>	Line Deviation	LD = Line Down, LU = Line Up, LL = Line Left, LR = Line Right. Not related to CIPP lining.	Additional modifiers are added: Q = Quarter (22.5), H = Half (45), F = Full (90). In degrees.	
<b>LC</b>	Lining Changes	If the drain is lined, the lining material has changed	Position of lining material change	
<b>MC</b>	Material Change	The pipe material has changed	Position of change is noted. Type of material change can be defined	
<b>OB</b>	Obstruction/Obstacle	An obstruction or obstacle is affecting the flow through the pipe	Described in percentage loss of cross-sectional area	
<b>OJL</b>	Open Joint Large	Pipe has moved at joint, along the axis of pipe	More than 1.5 times the pipe wall thickness must be visible	
<b>OJM</b>	Open Joint Medium	Pipe has moved at joint, along the axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
<b>PC</b>	Pipe Length Changes	Length of individual pipe changes	New length described at this position	

Total Defects for section

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<b>R</b>	Roots	Evidence of root ingress	Roots will normally infiltrate via bad joints, cracks, fractures, breaks etc	
<b>REM</b>	Remark	General remark	Used for additional information	
<b>S</b>	Surface Damage	This might include corrosion, spalling and chemical attack	Position only. Additional information can be added in Remarks	
<b>SA</b>	Survey Abandoned	Used when a survey cannot continue for any reason	The reason for abandoning a survey should be noted in the remarks area	
<b>SC</b>	Shape Changes	Dimension of drain changes	Diameter dimension change recorded. Second dimension is recorded for no circular pipe changes	
<b>SR</b>	Sealing Ring	Sealing ring intrudes into pipe at joint	Described by clock reference position	
<b>V</b>	Vermin	Evidence of Vermin in pipe	Can also be used for evidence within manhole etc	
<b>WL</b>	Water Level	Used to record changes in water level. Always shown at the beginning of every survey, if dry noted as 00.	Described by percentage of height or diameter. Recorded in 5% increments	
<b>XP</b>	Collapsed	Drain is suffering from complete loss of structural integrity. Always followed by SA - Survey Abandoned	Percentage loss of cross-sectional area is recorded. Other related structural defects are not recorded	