

# Drainage Report



Prepared For  
**Cardbury Developments**  
**Unit 1A, Horton Ind Est**  
**New Town**  
**Sussex**  
**XX0 0XX**

Site  
**Mr Jones**  
**24 Albemarle Terrace**  
**Taunton**  
**Somerset**  
**XX0 0XX**



Total Defects for Project



Total DRB Grades for Project



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## Albemarle Terrace - CCTV Survey Report : 31/08/18

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Name :	Red Arrow Drains
Contact :	Paul Brazier
Location :	
Town :	
Region :	
Postcode :	
Email :	<a href="mailto:info@redarrowdrains.co.uk">info@redarrowdrains.co.uk</a>
Contact Number :	07907523129 / 0800 3345495
Surveyor :	Paul Brazier
Certification No :	L217

### Client Information

Name :	Cardbury Developments
Contact :	Jon Stephens
Location :	Unit 1A, Horton Ind Est
Town :	New Town
Region :	Sussex
Postcode :	XX0 0XX
Tel :	01234 7778888
Mobile :	0712 4356789
Email :	<a href="mailto:jon@cardbury.co.uk">jon@cardbury.co.uk</a>
Fax :	

### Site Information

Name :	Mr Jones
Contact :	Mrs Jones
Location :	24 Albemarle Terrace
Town :	Taunton
Region :	Somerset
Postcode :	XX0 0XX
Tel :	0987 654321
Mobile :	0712 3456789
Email :	<a href="mailto:angie123@somewhere.co.uk">angie123@somewhere.co.uk</a>
Fax :	

Total Defects for Project



Total DRB Grades for Project



## 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/recommendations 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.

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## Overview

<p><b>Section: 1</b></p> <p>From: MH C1 To: MH C2</p>	<p>There is evidence of poor fall and some root infiltration. Our recommendation would be to remove the root infiltration and patch line this area to prevent further growth. The drain would also benefit from cleansing to remove silt.</p>	<p><b>DRB Grade: B</b> <b>Pipe Size: 100</b> <b>Material: Vitrified Clay (i.e. all clayware)</b> <b>Use: Combined</b></p>
<p><b>Section: 2</b></p> <p>From: MH C2 To: MH C3</p>	<p>There is evidence of root infiltration at a number of joints and a Large Open Joint at 6.6 metres. Cutting the roots out and lining the drain would prevent further root infiltration and make the drain watertight.</p>	<p><b>DRB Grade: C</b> <b>Pipe Size: 100</b> <b>Material: Vitrified Clay (i.e. all clayware)</b> <b>Use: Combined</b></p>
<p><b>Section: 3</b></p> <p>From: MH C3 To: Interceptor</p>	<p>Grade A</p>	<p><b>DRB Grade: A</b> <b>Pipe Size: 100</b> <b>Material: Vitrified Clay (i.e. all clayware)</b> <b>Use: Combined</b></p>

Total Defects for Project



Total DRB Grades for Project



**Site: 24 Albemarle Terrace, Taunton**

**Section 1**

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Cardbury Developments	24 Albemarle Terrace	Taunton		Paul Brazier	31/08/2018

Start Node Ref:	MH C1	Finish Node Ref:	MH C2	Direction:	D	Height/Dia:	100
Start Node Depth:	0.90	Finish Node Depth:	1.40	Use:	C	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	12.81	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%				
03.30m	WL	Water level 15%		0_2	0:00:22	
05.10m	DES	Settled deposits fine 20%		0_3	0:00:34	
07.57m	WL	Water level 20%		0_4	0:00:50	
08.50m	RJ	Roots at joint		0_5	0:01:16	
08.50m	LRH	Line of drain/sewer deviates right [half]		0_6	0:01:32	
12.81m	MHF	Finish node type, manhole				




Total Defects for section

DRB Grade for Section



**Descriptive Report with Remarks and Observation Images**

**Section 1**



Pos	Video Ref	Code	Cont.	Description	Image
00.00m		MH		Start node type, manhole MH C1	
00.00m		WL		Water level: 0% Height/Diameter	
03.30m	0:00:22	WL		Water level: 15% Height/Diameter	Image Provided - Ref: 0_2 
05.10m	0:00:34	DES		Settled deposits fine: 20% Cross sectional area loss - Severity 3	Image Provided - Ref: 0_3 
07.57m	0:00:50	WL		Water level: 20% Height/Diameter	Image Provided - Ref: 0_4 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
08.50m	0:01:16	RJ		Roots at joint - Severity 3	Image Provided - Ref: 0_5 
08.50m	0:01:32	LRH		Line of drain/sewer deviates right [half]	Image Provided - Ref: 0_6 
12.81m		MHF		Finish node type, manhole MH C2	

Total Defects for section



DRB Grade for Section



### Site: 24 Albemarle Terrace, Taunton

### Section 2

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Cardbury Developments	24 Albemarle Terrace	Taunton		Paul Brazier	31/08/2018

Start Node Ref:	MH C2	Finish Node Ref:	MH C3	Direction:	D	Height/Dia:	100
Start Node Depth:	1.40	Finish Node Depth:	1.45	Use:	C	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	13.8	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%				
00.90m	RJ	Roots at joint		1_2	0:00:10	
00.90m	FLJ	Fracture longitudinal 12 at joint			0:00:10	
00.90m	FCJ	Fracture circumferential 10-03 at joint			0:00:10	
01.50m	RJ	Roots at joint		1_5	0:00:17	
01.50m	CCJ	Crack, circumferential 10-02 at joint			0:00:16	
03.30m	RJ	Roots at joint		1_7	0:00:32	
04.60m	RJ	Roots at joint		1_8	0:00:44	
06.50m	OJL	Open joint large		1_9	0:01:03	
06.50m	RJ	Roots at joint			0:01:03	
06.50m	CLJ	Crack, longitudinal at joint			0:01:03	
07.70m	RJ	Roots at joint		1_12	0:01:12	
10.40m	RJ	Roots at joint		1_13	0:01:38	
12.20m	FCJ	Fracture circumferential 03-09 at joint		1_14	0:01:56	
13.00m	LRH	Line of drain/sewer deviates right [half]		1_15	0:02:08	
13.80m	MHF	Finish node type, manhole				

Total Defects for section



DRB Grade for Section





## Descriptive Report with Remarks and Observation Images

## Section 2




Pos	Video Ref	Code	Cont.	Description	Image
00.00m		MH		Start node type, manhole MH C2	
00.00m		WL		Water level: 0% Height/Diameter	
00.90m	0:00:10	RJ		Roots at joint - Severity 3	Image Provided - Ref: 1_2 
00.90m	0:00:10	FLJ		Fracture longitudinal at 12 o'clock at joint - Severity 3	
00.90m	0:00:10	FCJ		Fracture circumferential from 10 o'clock to 03 o'clock at joint - Severity 3	
01.50m	0:00:17	RJ		Roots at joint - Severity 3	Image Provided - Ref: 1_5 
01.50m	0:00:16	CCJ		Crack, circumferential from 10 o'clock to 02 o'clock at joint - Severity 1	

Total Defects for section



DRB Grade for Section






Pos	Video Ref	Code	Cont.	Description	Image
03.30m	0:00:32	RJ		Roots at joint - Severity 3	Image Provided - Ref: 1_7 
04.60m	0:00:44	RJ		Roots at joint - Severity 3	Image Provided - Ref: 1_8 
06.50m	0:01:03	OJL		Open joint large - Severity 4	Image Provided - Ref: 1_9 
06.50m	0:01:03	RJ		Roots at joint - Severity 3	
06.50m	0:01:03	CLJ		Crack, longitudinal at joint - Severity 1	

Total Defects for section



DRB Grade for Section




Pos	Video Ref	Code	Cont.	Description	Image
07.70m	0:01:12	RJ		Roots at joint - Severity 3	Image Provided - Ref: 1_12 
10.40m	0:01:38	RJ		Roots at joint - Severity 3 Mass Roots 60%	Image Provided - Ref: 1_13 
12.20m	0:01:56	FCJ		Fracture circumferential from 03 o'clock to 09 o'clock at joint - Severity 3	Image Provided - Ref: 1_14 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
13.00m	0:02:08	LRH		Line of drain/sewer deviates right [half]	Image Provided - Ref: 1_15 
13.80m		MHF		Finish node type, manhole MH C3	

Total Defects for section



DRB Grade for Section



**Site: 24 Albemarle Terrace, Taunton**

**Section 3**

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Cardbury Developments	24 Albemarle Terrace	Taunton		Paul Brazier	31/08/2018

Start Node Ref:	MH C3	Finish Node Ref:	Interceptor	Direction:	D	Height/Dia:	100
Start Node Depth:	1.45	Finish Node Depth:	1.45	Use:	C	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	1.9	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%			
01.90m	MHF	Finish node type, manhole			

Total Defects for section

DRB Grade for Section



**Descriptive Report with Remarks and Observation Images**

**Section 3**

Pos	Video Ref	Code	Cont.	Description	Image
00.00m		MH		Start node type, manhole MH C3	
00.00m		WL		Water level: 0% Height/Diameter	
01.90m		MHF		Finish node type, manhole Interceptor	

Total Defects for section



DRB Grade for Section



Plan of Site

