



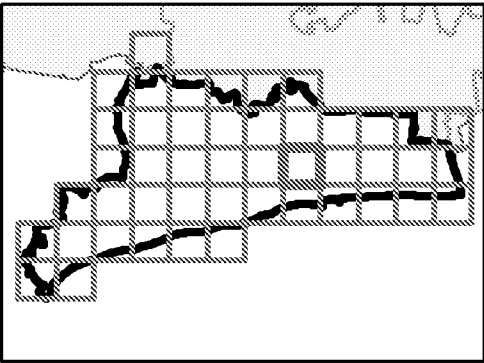
Notes

The Historic Flooding Map shows the recorded incidents and flood outlines provided by Arun District Council, West Sussex County Council, Southern Water and Environment Agency. Historical flood extent was obtained from the Environment Agency

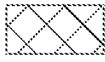
Flooding incidents provided have been categorised based upon the details provided in the records. Unknown flood points could not be determined from the information provided, and therefore could be from a number of sources.

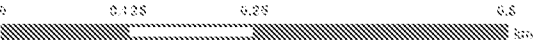
Please note that not all historical records may be shown on this map, and that it is therefore advised you contact Arun District Council for updated information post 2015.

Key Plan



Legend

-  Arun District SFRA boundary
-  Historic flood outline
- Source of flooding**
-  Fluvial
-  Coastal
-  Tidal
-  Surface Water
-  Feature
-  Unknown



REF	Date	Comments
A	June 2015	-
B		
C		

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. 100018467

ARUN DISTRICT COUNCIL
LEVEL 1 SFRA: APPENDIX H
HISTORIC FLOODING RECORDS

Sheet No. 25 of 48 Index Number: AGC_25

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





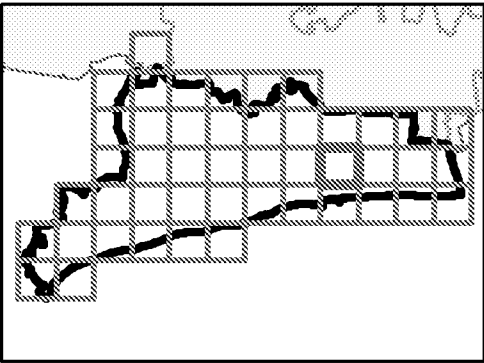
Notes

The Historic Flooding Map shows the recorded incidents and flood outlines provided by Arun District Council, West Sussex County Council, Southern Water and Environment Agency. Historical flood extent was obtained from the Environment Agency

Flooding incidents provided have been categorised based upon the details provided in the records. Unknown flood points could not be determined from the information provided, and therefore could be from a number of sources.

Please note that not all historical records may be shown on this map, and that it is therefore advised you contact Arun District Council for updated information post 2015.

Key Plan



Legend

-  Arun District SFRA boundary
-  Historic flood outline
- Source of flooding**
-  Fluvial
-  Coastal
-  Tidal
-  Surface Water
-  Future
-  Unknown



REF	Date	Comments
A	June 2015	-
B		
C		

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. 100018447

ARUN DISTRICT COUNCIL
LEVEL 1 SFRA: APPENDIX H
HISTORIC FLOODING RECORDS

Sheet No. 26 of 48 Index Number: AGC_26

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





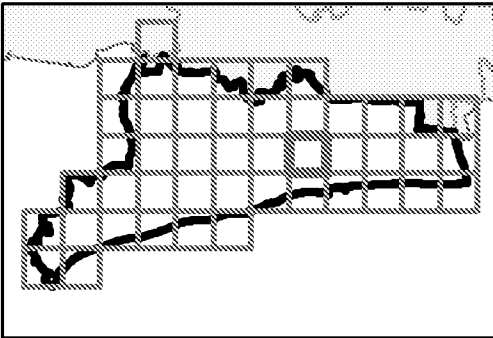
Notes

The Areas Susceptible to Groundwater Flooding (ASiGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. The data was produced to annotate Indicative Flood Risk Areas for Preliminary Flood Risk Assessment (PFRA) studies and allow the Lead Local Flood Authorities (LLFAs) to determine whether there may be a risk of flooding from groundwater.

This data shows the proportion of each 1km grid square where geological and hydrogeological condition show that groundwater might emerge. It does not show the likelihood of groundwater flooding occurring. It does not take account of the chance of flooding from groundwater rebound. This dataset covers a large area of land, and only isolated locations within the overall susceptible area are actually likely to suffer the consequences of groundwater flooding.

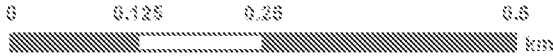
The ASiGWF data should be used only in combination with other information, for example local data or historic data. It should not be used as sole evidence for any specific flood risk management, land use planning or other decisions at any scale. However, the data can help to identify areas for assessment at a local scale where finer resolution datasets exist.

Key Plan



Legend

-  Arun District SFRA boundary
-  < 25%
-  >= 25% <50%
-  >= 50% <75%
-  >= 75%



REF	Date	Comments
A	June 2012	-
B		
C		

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. 100015487.

ARUN DISTRICT COUNCIL

LEVEL 1 SFRA: APPENDIX F

AREAS SUSCEPTIBLE TO GROUNDWATER

Sheet No. 25 of 48 Index Number: AGC_25

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

The Areas Susceptible to Groundwater Flooding (ASiGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. The data was produced to annotate Indicative Flood Risk Areas for Preliminary Flood Risk Assessment (PFRA) studies and allow the Lead Local Flood Authorities (LLFAs) to determine whether there may be a risk of flooding from groundwater.

This data shows the proportion of each 1km grid square where geological and hydrogeological condition show that groundwater might emerge. It does not show the likelihood of groundwater flooding occurring. It does not take account of the chance of flooding from groundwater rebound. This dataset covers a large area of land, and only isolated locations within the overall susceptible area are actually likely to suffer the consequences of groundwater flooding.

The ASiGWF data should be used only in combination with other information, for example local data or historic data. It should not be used as sole evidence for any specific flood risk management, land use planning or other decisions at any scale. However, the data can help to identify areas for assessment at a local scale where finer resolution datasets exist.

Key Plan



Legend

-  Arun District SFRA boundary
-  < 25%
-  >= 25% < 50%
-  >= 50% < 75%
-  >= 75%



REF	Date	Comments
A	June 2012	-
B		
C		

This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. 100015487.

ARUN DISTRICT COUNCIL

LEVEL 1 SFRA: APPENDIX F AREAS SUSCEPTIBLE TO GROUNDWATER

Sheet No. 26 of 48 Index Number: AGC_26

This document is the property of Jeremy Bann Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Bann Associates Ltd.





E. Southern Water Records

Appendices

Former Waitrose, Littlehampton

Project Number: WIE14296

Document Reference: WIE14296-100-R-2-3-1-FRA

Connor Henderson

From: [REDACTED]
Sent: 12 March 2018 11:33
To: Connor Henderson
Subject: Southern Water

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: To be Filed



Mr Henderson
connor.henderson@watermangroup.com

Ref:
8001420206

Date:
12 March 2018

Contact: [REDACTED]

Dear Mr Henderson

The Environmental Information Regulations 2004
Request for Information

Thank you for your request for information which we received on 8 March 2018. We have dealt with your request under the Environmental Information Regulations 2004. This letter provides the response to your request, which reads as follows:

I am writing in regards to the proposed development at the Former Waitrose site located on Avon Road, Littlehampton, approximate postcode BN17 6AT.

Should you hold any records of flooding at the site, please could you specify the following, if known.

- 3. The date the incident(s) occurred.
- 4. The location and extent of the incident(s).
- 5. The reason behind the flooding (i.e. blockages, extreme storm events, etc.).
- 6. The duration of the event(s).

I have checked our records and I can confirm that our records do not show any history of sewer incidents or flooding at this site.

If you are dissatisfied with the handling of your request, you have the right to ask for an internal review. Internal review requests should be submitted within forty working days of the date of receipt of this response and should be addressed to Robin Churchill, Southern Water Services Ltd, Southern House, Yeoman Road, Worthing, West Sussex BN13 3NX.

Please do not hesitate to contact me if you have any queries.

Sophie Eley
Case Handler

[illegible]

$\frac{d}{dt} \left(\int_{\Omega} u^2 dx \right) = -2 \int_{\Omega} u \Delta u dx = 0$



Waterman Infrastructure & Environment
Pickfords Wharf
Clink Street
London
SE1 9DG

Your ref WIE14296
Our ref 285860
Date 21 March 2018
Contact



Attention: Connor Henderson

Dear Customer

Re: New Road and Street Work Act 1991
Provision of public sewer and water main record extract
Location: Former Waitrose, East Street, Littlehampton, BN17 6AT

Thank you for your request for the provision of extracts of our sewer and/or water main records under the New Road and Street Work Act 1991.

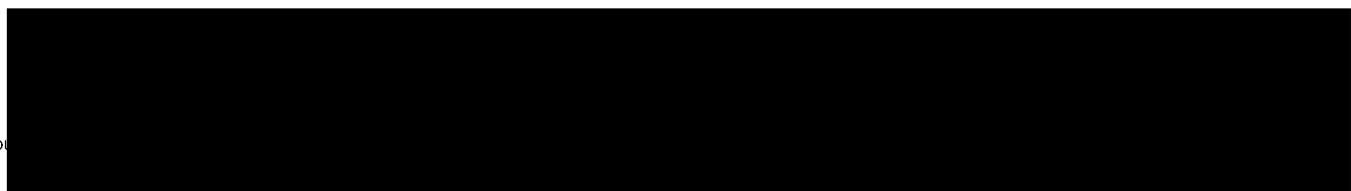
Please find enclosed the extracts from Southern Water's records for the above location.

Customers should be aware that there are areas within our region in which there are neither sewers nor water mains. Similarly, whilst the enclosed extract may indicate the approximate location of our apparatus in the area of interest, it should not be relied upon as showing that further infrastructure does not exist and may subsequently be found following site investigation. Actual positions of the disclosed (and any undisclosed) infrastructure should therefore be determined on site, because Southern Water does not accept any responsibility for inaccuracy or omission regarding the enclosed plan. Accordingly it should not be considered to be a definitive document.

Should you require any further assistance regarding this matter, please contact the LandSearch team.

Yours faithfully

LandSearch



102381



102093

O.S. REF. TQ0202SE		Drawn by: kumaria	The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. WARNING: 80% OF THE INFORMATION ON THIS PLAN IS BASED ON DATA PROVIDED BY THE LOCAL AUTHORITY. THE ACTUAL POSITIONS SHOULD BE DETERMINED ON SITE. THE INFORMATION ON THIS PLAN IS NOT A GUARANTEE OF THE POSITIONS OF THE SEWERS AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
Scale: 1:1250			
Title: 285860_Former Waitrose, East S		Date: 21/03/2018	Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. WU 298530.

502641

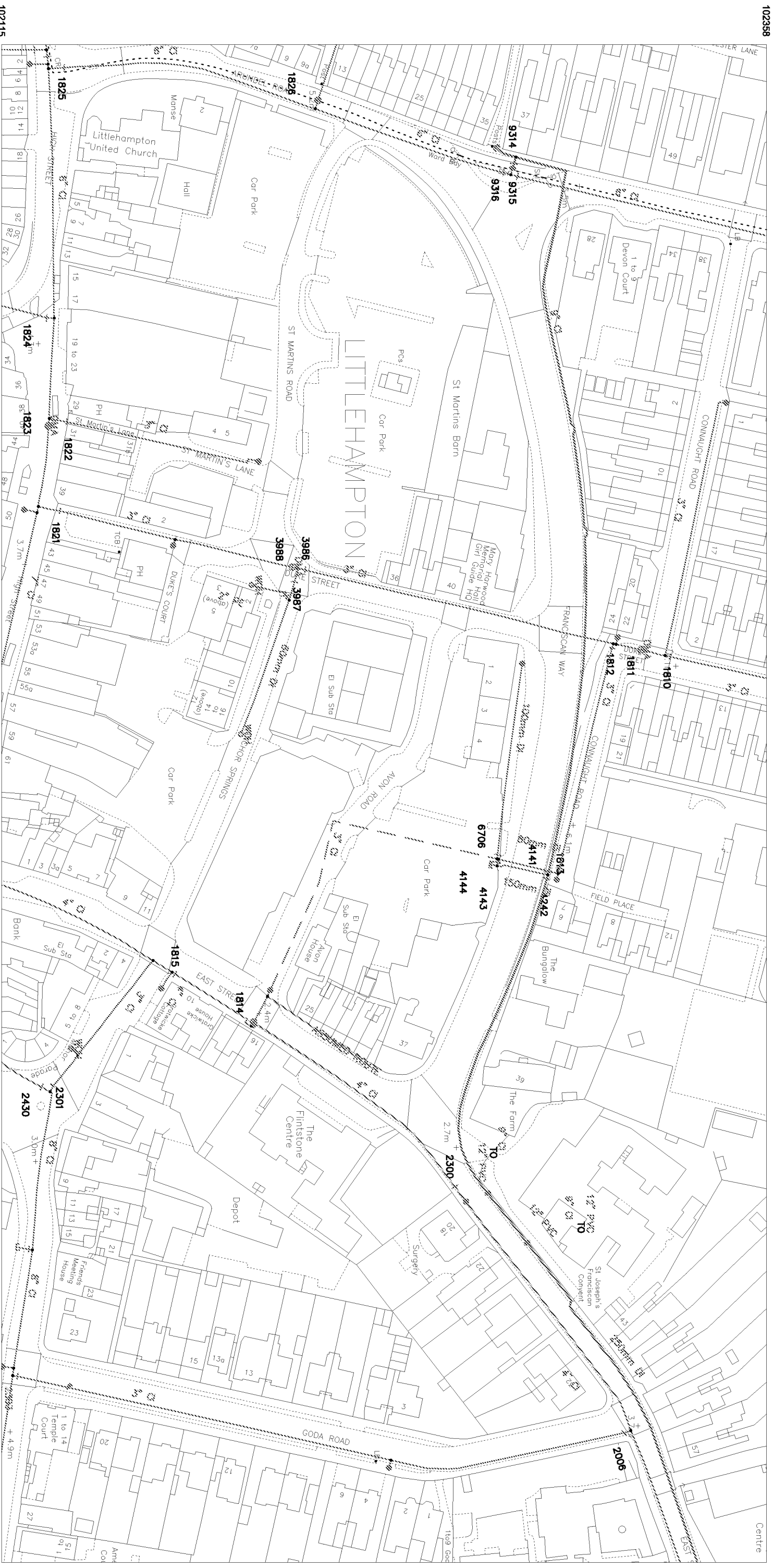
503112

SEWER RECORDS PAGE 2 OF 2

Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape
0101X	4.64	1.46	225	VC	CIRC	7320X	2.71	0.21	150	VC	CIRC												
0102X	4.28		225	VC	CIRC	8101X	3.03	0.62	1100	CP	Egg												
0103X			UNK	UNK	UNK	8102X			450	VC	CIRC												
010DX			225	VC	CIRC	8103X			UNK	UNK	CIRC												
012DX			UNK	UNK	UNK	810DX			450	VC	CIRC												
013DX			UNK	UNK	UNK	811DX			UNK	UNK	UNK												
014DX			UNK	UNK	UNK	814DX			UNK	UNK	CIRC												
0151X	3.56	1.77	375	CP	CIRC	8150X	2.98	1.25	450	UNK	CIRC												
01ADX			UNK	UNK	UNK	8151X	3.35	1.82	450	BAC	CIRC												
01BDX			UNK	UNK	UNK	8201X	5.16	1.88	225	VC	CIRC												
01DDX			225	VC	CIRC	8250X	5.55	4.14	150	VC	CIRC												
0201X	3.26	0.66	OTHER	CP	Egg	8251X	5.39	3.43	150	VC	CIRC												
0202X	5.66	3.81	225	VC	CIRC	8252X	3.81	2.33	225	VC	CIRC												
020DX			UNK	UNK	UNK	8301X	6.7	3.33	225	VC	CIRC												
021DX			UNK	UNK	UNK	8302X	6.28	2.87	225	VC	CIRC												
0301X	3.61	0.73	OTHER	CP	Egg	8303X	6.16	2.77	225	VC	CIRC												
030DX			UNK	CP	Egg	8304X	6.74	5.46	150	VC	CIRC												
031DX			UNK	CP	Egg	8306X			225	VC	CIRC												
6101X			UNK	CP	Egg	830DX			UNK	UNK	UNK												
6102X			300	VC	CIRC	831DX			UNK	UNK	CIRC												
610DX	4.93	1.85	300	VC	CIRC	832DX			225	VC	CIRC												
611BX			300	VC	CIRC	833DX			225	VC	CIRC												
611DX			100	UNK	UNK	834DX	6.41	5.74	150	VC	CIRC												
612DX			225	UNK	UNK	835DX			UNK	UNK	CIRC												
614DX			225	UNK	UNK	836DX			UNK	UNK	UNK												
6150X	4.43		OTHER	BRE	CIRC	83ADX	6.5	5.31	150	VC	CIRC												
615DX			UNK	UNK	UNK	83BDX	6.59	5.54	150	VC	CIRC												
616DX			UNK	UNK	UNK	83CDX	6.32	4.93	150	VC	CIRC												
617DX			UNK	BRE	CIRC	83DDX	6.16	3.62	150	VC	CIRC												
6201X		2.15	300	VC	CIRC	83GDX	6.59	5.17	100	VC	CIRC												
620DX			300	VC	CIRC	9001X	6.59	5.23	1100	BRE	Egg												
6301X	5.6		300	VC	CIRC	9001X	2.39	0.2	1100	VC	Egg												
6303X			UNK	UNK	CIRC	9101X	2.6	0.47	150	CP	Egg												
630BX			UNK	UNK	CIRC	9102X	2.28	0.45	900	CP	Egg												
630DX			225	VC	CIRC	9103X	2.29		150	VC	CIRC												
634DX			UNK	UNK	UNK	9104X			150	VC	CIRC												
63FBX			225	VC	CIRC	9105X	2.49		225	VC	CIRC												
63FBX			UNK	UNK	CIRC	910BX			150	VC	CIRC												
7001X			300	VC	CIRC	910DX			150	VC	CIRC												
7002X			UNK	UNK	CIRC	9110X			150	VC	CIRC												
7003X			UNK	UNK	CIRC	9111X			150	VC	CIRC												
7101X	3.79	0.85	450	VC	CIRC	9112X			150	VC	CIRC												
7102X	4.18	1.11	300	VC	CIRC	9116X			100	VC	CIRC												
7103Y	4.55	1.17	300	VC	CIRC	9120X			900	CP	Egg												
7104X			UNK	UNK	CIRC	9150X	2.65	1.25	450	CP	CIRC												
7105X			UNK	UNK	CIRC	9151X	2.34	0.83	300	VC	CIRC												
710BX			UNK	UNK	CIRC	9152X	2.52	1.15	450	CP	CIRC												
7107X			UNK	UNK	CIRC	915DY			375	VC	CIRC												
710DX			UNK	UNK	CIRC	9201X	3.21		UNK	CP	Egg												
711DX			UNK	UNK	UNK	9202X			150	VC	CIRC												
712DX			225	VC	CIRC	9203X			UNK	UNK	UNK												
714DX			300	VC	CIRC	9204X			UNK	UNK	CIRC												
7150X	3.84	2.18	450	BAC	CIRC	920DX			UNK	UNK	CIRC												
7151X	3.92	2.83	375	CP	CIRC	921DX			225	VC	CIRC												
7152X	4.59		UNK	UNK	CIRC	921LX	6.01	3.48	UNK	CP	Egg												
715DX			375	CP	CIRC	924DX			300	VC	CIRC												
7201X	5.34	2.18	225	VC	CIRC	9250X	2.58	0.87	150	VC	CIRC												
7202X	6.87	4.37	150	VC	CIRC	9301X			150	VC	CIRC												
7301X	6.34	3.21	225	VC	CIRC																		
7302X	6.69	3.71	150	VC	CIRC																		
7303X			UNK	UNK	CIRC																		
7304X			UNK	UNK	CIRC																		
730DX			UNK	UNK	CIRC																		
731DX			UNK	UNK	UNK																		

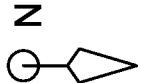
[illegible]

Drawn by:	kumaria
Title:	285860_Former Waitrose, East S
Date:	21/03/2018
	

[illegible]

Drawn by:	kumaria	O.S.Ref: TQ0202SE
Scale:	1:1250	
Date:	21/03/2018	TITLE: 285860_Former Waitrose, East S

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd. accept no responsibility in the event of inaccuracy. The actual positions of pipes should be determined on site.





F. Surface Water Runoff Calculations

Appendices

Former Waitrose, Littlehampton

Project Number: WIE14296

Document Reference: WIE14296-100-R-2-3-1-FRA

CALCULATIONS

Company: WIE

Office: London

Sheet No: 1 of 4

Project No: WIE14296

By C. Henderson

Date 05.12.18

Checked: D. O'Donovan

Date 05.12.18

Project Title: Former Waitrose, Littlehampton

Calculations Title: Surface Water Management - Summary Sheet

[illegible]

CALCULATIONS

Company: WIE
 Sheet No: 2 of 4
 By: C. Henderson
 Checked: D. O'Donovan

Office: London
 Project No: WIE14296
 Date: 05.11.18
 Date: 05.11.18

Project Title: Former Waitrose, Littlehampton
 Calculations Title: Surface Water Management (M100_60)

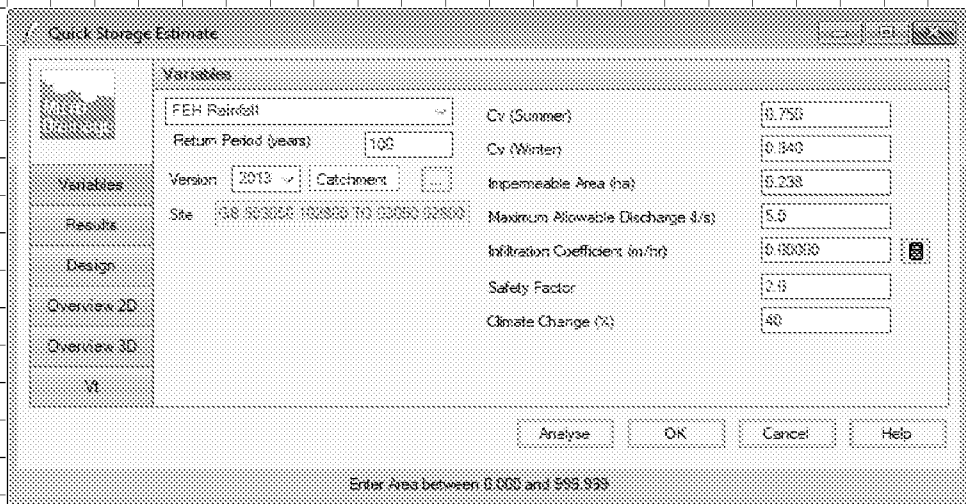
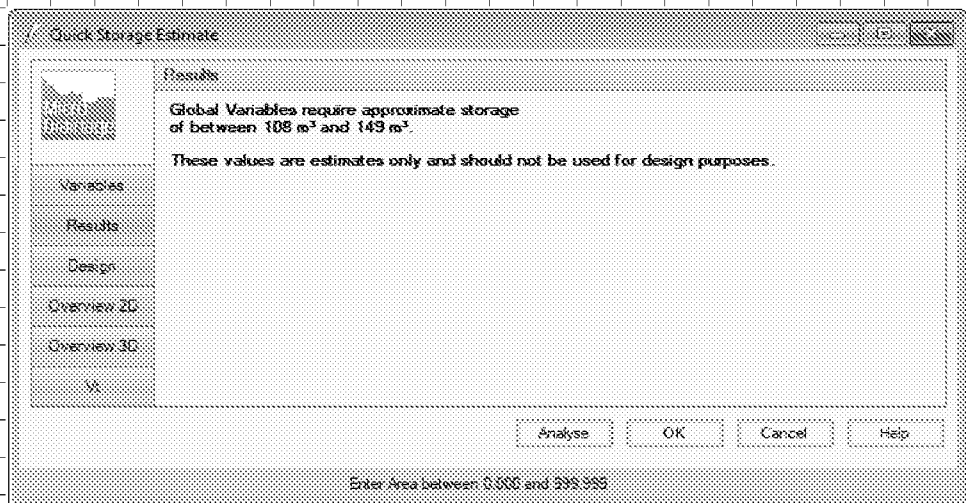
LOCATION	CALCULATIONS	OPTIONS
	Calculations based on: Design and Analysis of urban storm drainage. The Wallingford Procedure, Volume 1 Principles methods and practice.	
	User Input Data	
	Total site area (exclucing Avon Road) 0.469 ha	
	SAAR (From FEH) 726	
	Rainfall Intensity (From FEH) 45.40	
	PIMP (% impervious) 100 %	
	Soil Type 0.40	
	Very Low Runoff (well drained sandy, loamy or earthy peat soils) 0.15	
	Low Runoff (Very permeable soils (e.g. gravel, sand) 0.30	
	Moderate (Very fine sands, silts and sedimentary clays) 0.40	
	High Runoff (Clayey or loamy soils) 0.45	
	Very High Runoff (Soils of the wet uplands) 0.50	
Fig. 9.7	UCWI (From Figure 9.7 of Wallingford Method) 74	
Eqn. 13	Qp (peak discharge) = 2.78 Cv CR i A	
	Where: Qp (Peak Discharge) i = rainfall intensity A = Total Area	
From FEH	Average rainfall Intensity (i)	
	M100_60 is: 45.4 mm	
Eqn 7.20	Cv = PR/100	
Eqn 7.3	PR = (0.829 PIMP) + (25.0 SOIL) + (0.078 UCWI) - 20.7	
	PIMP (Percentage of catchment which is impervious) 100 %	
Page 52	Note: PIMP can not be less than 40% 40 %	
	Thus value of PIMP to be used 100 %	
	Soil: 0.40 UCWI: 74	
	PR = 77.97	
	Thus Cv = 0.78	
Sec 7.10	CR (Recommended for simulation and design) 1.3	
	Qp for 1 in 100 year 60 minute duration = 60.0 l/s or 127.9 l/s/ha	

CALCULATIONS

Company: WIE
 Sheet No: 3 of 4
 By: C. Henderson
 Checked: D. O'Donovan

Office: London
 Project No: WIE14296
 Date: 05.12.18
 Date: 05.12.18

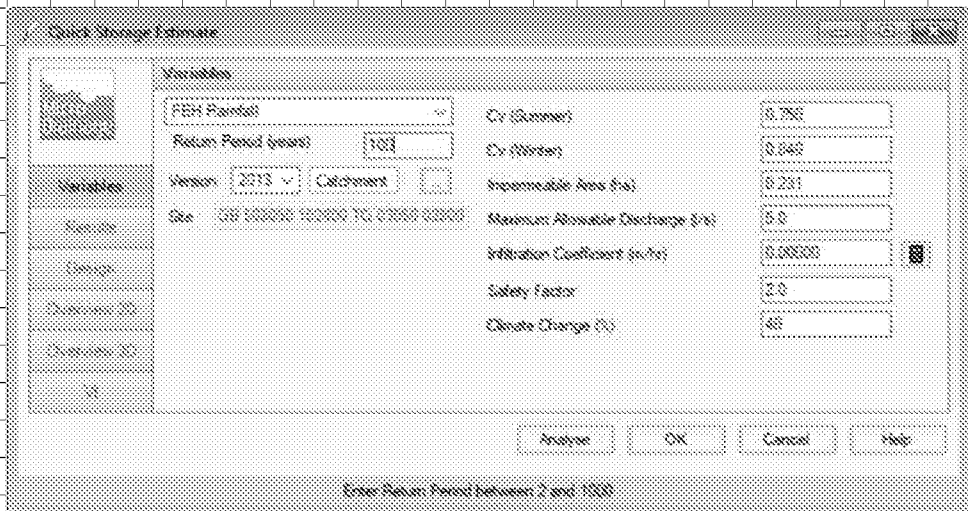
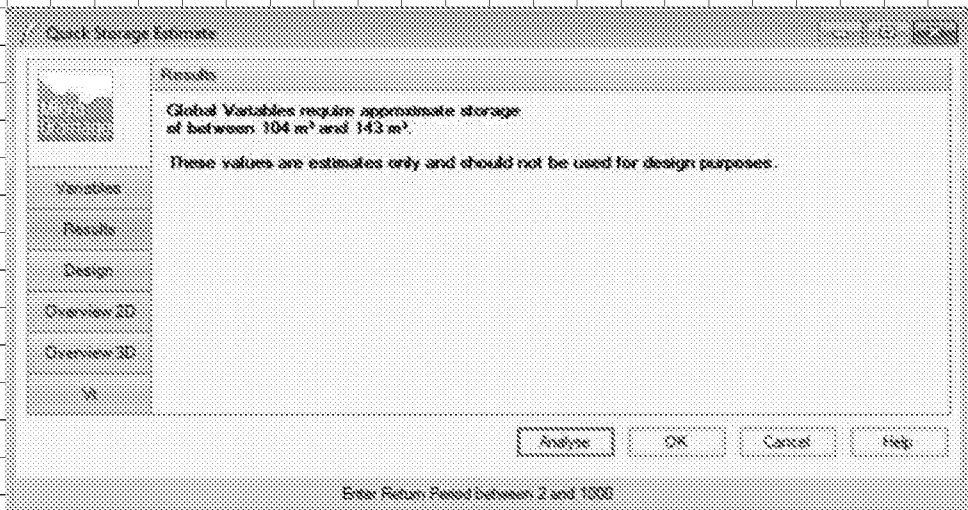
Project Title: Former Waitrose, Littlehampton
 Calculations Title: Preliminary surface water attenuation volume - Catchment 1

LOCATION	CALCULATIONS	OPTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	In order to calculate the volume of surface water attenuation required for the Site, Microdrainage version 2018.1, Source Control module, Quick Storage Estimate has been used. The input and output data for which are shown below;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Input:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Output:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	As Windes Quick Storage Estimate provides a range of attenuation volumes it is considered that an average value of the range is suitable for preliminary design sizing.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	<table><tr><td>Minimum:</td><td>108</td><td>m³</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Minimum:	108	m ³																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Minimum:	108	m ³																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

CALCULATIONS

Company: WIE
 Sheet No: 4 of 4
 By: C. Henderson
 Checked: D. O'Donovan
 Office: London
 Project No: WIE14296
 Date: 05.12.18
 Date: 05.12.18

Project Title: Former Waitrose, Littlehampton
 Calculations Title: Preliminary surface water attenuation volume - Catchment 2

LOCATION	CALCULATIONS	OPTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	In order to calculate the volume of surface water attenuation required for the Site, Microdrainage version 2018.1, Source Control module, Quick Storage Estimate has been used. The input and output data for which are shown below;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Input:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Output:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	As Windes Quick Storage Estimate provides a range of attenuation volumes it is considered that an average value of the range is suitable for preliminary design sizing.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	<table><tr><td>Minimum:</td><td>104</td><td>m³</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></</td></tr></table>	Minimum:	104	m ³																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
Minimum:	104	m ³																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</		

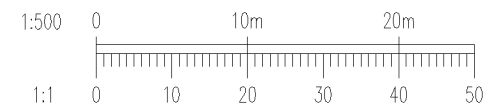
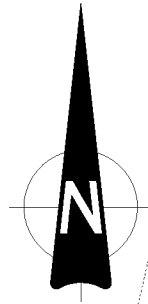
G. Preliminary Drainage Strategy Layout

Appendices

Former Waitrose, Littlehampton

Project Number: WIE14296

Document Reference: WIE14296-100-R-2-3-1-FRA



This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.

This drawing is the property of Waterman Infrastructure & Environment Limited, and the drawing is issued on the condition that it is not copied reproduced, retained or disclosed to any unauthorised person, either wholly or in part without the consent in writing of Waterman Infrastructure & Environment Limited
Pickfords Wharf, Clink Street, London SE1 9DG t 020 7928 7888 f 03333 444 501

LEGEND

- CATCHMENT 1 - 0.238ha
- CATCHMENT 2 - 0.231ha
- HIGHWAY - 0.090ha
- SITE BOUNDARY - 0.559ha

P02	05.12.18	ARCHITECT'S LAYOUT UPDATED, CATCHMENTS REVISED	LS
P01	02.07.18	FIRST ISSUE	DO
Rev	Date	Description	By

Amendments

Project	LITTLEHAMPTON
---------	---------------

Title	PROPOSED DRAINAGE CATCHMENTS
-------	------------------------------

Client	ROPEMAKER PROPERTIES LIMITED
--------	------------------------------

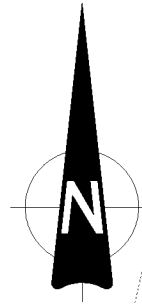


Pickfords Wharf Clink Street London SE1 9DG
t 020 7928 7888
mail@watermangroup.com www.watermangroup.com

Drawing Status	PRELIMINARY
----------------	-------------

Designed by	DO	Checked by	SM	Project No WIE14296 Computer File No 14296-WIE-ZZ-XX-DR-D-92001.dwg
Drawn by	DO	Date	JULY 2018	
Scales @ A3 work to figured dimensions only		1:500		

Publisher	Zone	Category	Number	Revision
WIE	ZZ	92	001	P02



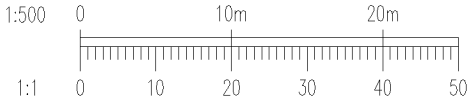
PERMEABLE PAVING (WITH SUB-BASE STORAGE)
RESTRICTION: 5.0 l/s
TOTAL VOLUME: 129m³
SUB-BASE
DEPTH: 0.8m
30% VOIDS

GEOCELLULAR TANK
RESTRICTION: 5.0 l/s
VOLUME: 124m³
DEPTH: 1.0m
95% VOIDS

SWMH230
CL: 2.35
IL: 0.20

SWMH151
CL: 2.34
IL: 0.23

SWMH9102
CL: 2.28
IL: 0.47



This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.

This drawing is the property of Waterman Infrastructure & Environment Limited, and the drawing is issued on the condition that it is not copied, reproduced, retained or disclosed to any unauthorised person, either wholly or in part without the consent in writing of Waterman Infrastructure & Environment Limited.
Pickfords Wharf, Clink Street, London SE1 9DG t 020 7928 7888 f 03333 444 501

LEGEND

- EXISTING PUBLIC SURFACE WATER SEWER
- EXISTING PUBLIC COMBINED SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED FOUL SEWER
- PROPOSED HYDRO BRAKE
- PROPOSED ATTENUATION TANK
- PROPOSED PERMEABLE PAVING

NOTES

- 1) DRAINAGE STRATEGY IS SUBJECT TO CHANGE AT THE DETAILED DESIGN STAGE.

Rev	Date	Description	By
P02	05.12.18	ARCHITECT'S LAYOUT UPDATED, DRAINAGE LAYOUT REVISED	LS
P01	02.07.18	FIRST ISSUE	DO

Amendments	
Project	LITTLEHAMPTON
Title	PROPOSED DRAINAGE STRATEGY
Client	ROPEMAKER PROPERTIES LIMITED



Pickfords Wharf Clink Street London SE1 9DG
t 020 7928 7888
mail@watermangroup.com www.watermangroup.com

Drawing Status				
PRELIMINARY				
Designed by	DO	Checked by	SM	Project No
Drawn by	DO	Date	JULY 2018	WIE14296
Scales @ A3		1:500		Computer File No
work to figured dimensions only				14296-WIE-ZZ-XX-DR-D-92002.dwg
Publisher	Zone	Category	Number	Revision
WIE	ZZ	92	002	P02



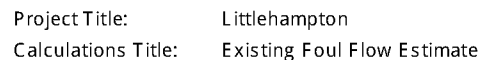
H. Foul Water Calculations

Appendices

Former Waitrose, Littlehampton

Project Number: WIE14296

Document Reference: WIE14296-100-R-2-3-1-FRA



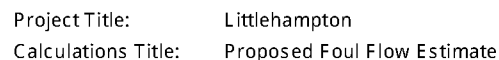
Sheet No:	1 of 2	Project No:	WIE14296
By:	C Henderson	Date:	27.07.18
Checked:	D O'Donovan	Date:	27.07.18

[illegible]

】CIX96X9↑P7r Πτο↑ixT dIΔA56Πto ΓCto IXII5Γ↑IX↑P7r96 III9X4CΠD IXαI⁺D4C↑r ΠIIPr HXTΠdC9↑P7r

C9XX P7rC9 ne I⁺ αI⁺ ix↑ix↑IXII

[illegible][illegible]



Sheet No:	2 of 2	Project No:	WIE 14296
By:	C Henderson	Date:	27.07.18
Checked:	D O'Donovan	Date:	27.07.18

	5↑=° tLpDp↑CpXzWpT ix↑oLz	{IX↑dr	b 5Irt↑IXz	CpTIX	t↑IXz DIX↑	t↑LpACpXzWpT XpT↑CpTIXz
wr↑CpT IpLp	3xix↑ix↑IXIobLp=	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
9=CpTIX ix↑IXp↑=3	3xix↑ix↑IXIobLp=	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
btz=ixIXp↑=3	3xix↑ix↑IXIobLp=	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
hAdIXIobLp=3	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
I IXp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
{pCpT I! AdIXI IXIobLp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
hAdIXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
wr↑Lp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
/CpT IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
I tLpDp/ ½ 5 4ixIXp↑/ t Irt	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
5Lp=AdIXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
. IXIobLp={AdIXI}	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
I IXIobLp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
b 5IrtIXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
wr↑LpCpT	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
t 5 4ixIXp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
° CpTIXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
a CpTIXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
/IXI IrtAdLp	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI	3xix↑ix↑IXI
{- . phd [						
LpDpCpTIXIix↑dr Irt	3xix					
phd [						

[illegible][illegible]

]]]CX956E1P Ito0X1T d1A080T Gto IXIII1T1IXd0X1T100 III956E1P IXd01D1T1T1I1P0T 51T1P0d0A0X1T100
CX956E1P0 れI' らI'ix'ix'100XI

UK and Ireland Office Locations

