



Table B1 : Historic Flooding Records from watercourses within Bromsgrove

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
4	High Street	Cause i - ? brook, tributary of Spadesbourne Brook	13/04/1792	Guide to Bromsgrove Blog http://www.mark.norton.dsl.pipex.com/town_guid e.html	Plaque on wall of MFG Solicitors building marks flood level
5	Railway Line	Unspecified Cause i – Sugar Brook or River Salwarpe Or Cause iv	12/02/2001	Worcester news archive http://archive.worcesternews.co.uk/2001/2/14/337808.html	Railway line impassable because of flood water covering the rails. 16hr delay for passengers on Newcastle to Plymouth line.
7	A448 (Stratford Road) near West Road junction	Unspecified Cause i - ? brook, tributary of Spadesbourne Brook	22/07/2007	BBC Traffic Website http://www.bbc.co.uk/mobile/traffic/mid/here/story/2007_07_22.shtml?ame=	Closed both ways because of flooding
8	Austin Road at Housman Close junction	Unspecified Cause iv?	22/07/2007	BBC Traffic Website http://www.bbc.co.uk/mobile/traffic/mid/here/story/2007_07_22.shtml?ame=	Closed both ways because of flooding
9	Sherwood Road near Stoke Road junction	Unspecified Cause i – Sugar Brook Cause iv?	22/07/2007	BBC Traffic Website http://www.bbc.co.uk/mobile/traffic/mid/here/story/2007_07_22.shtml?ame=	Closed both ways because of flooding
12	Next to B&W canal, Bromsgrove	Cause i – canal overtopping	July 2007	Waterscape.com http://www.waterscape.com/features-and-articles/features/boaters-update/boaters-update-august-2007	High water levels caused localised flooding
96	A38 by Morrisons Supermarket	Unspecified Cause i, iii or iv	20 th July 2007	West Mercia Constabulary News http://www.westmercia.police.uk/press/joinedup.htm	Road closed due to flooding
207	Pennine Road	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Run off from agricultural land on to 60s estate flood properties. Infrastructure will not take flood waters and it is difficult to improve. The land has been left fallow by the farmer which now minimises such flooding incidents.
208	Bungay Lake Lane (Parkgate/Kidderminster Road)	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream culverted by Worcestershire County Council in various places. Large catchment area with a poor outfall. Affects mainly highway plus property

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
209	Birmingham Road/The Strand	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	<p>Spadesbourne passes beneath The Strand. Large culvert partially cleared out by Worcestershire County Council but premises are affected by highway water not getting away.</p> <p>Also the Severn Trent Water balancing tank off line from the foul water sewer, otherwise High Street properties affected by surcharge within 1884 combined sewer.</p>
210	Market Street	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Two hidden weirs on line of Spadesbourne, will flood properties at Southern end of high street if obstructed.
211	Watt Close	Cause iii and i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Bromsgrove District Council land around Spadesbourne/Battlefield Brook will become flooded. Is a good control point. Downstream restricted by Ford Road Bridge. Brook Road properties can be affected by flooding.
212	Worcester Road/Charford	Cause iii and i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Bridging points hold back flows. Occasional flooding on Worcester Road. Charford Road, with the Spadesbourne by its side has a deep profile thus acting as a storage area protecting Sugarbrook area that has limited flooding opposite public house.



ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
213	Old Station Road/Bank Mill Road	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Properties flood due to inadequate highway drains along with recent development adding storm discharge both to the foul and highway drain. Bromsgrove District Council arranged a hydro brake onto foul/combined. Four houses previously affected.
214	Stonehouse Road/Wellington Road	Cause iii and i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream divides properties. Lacks capacity and maintenance. Run off from the highways being unattenuated is a problem, as is the downstream culvert. Three houses plus gardens are affected on a regular basis.
215	Stoke Road (Morrisons)	Cause i – Sugar Brook SEWERS	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Traffic island area becomes flooded during high flows and prolonged storm. Is on line to the main sewerage works. Along with numerous storm water sewers and highway drains to The Sugarbrook Works has supposedly corrected main inlet to accommodate this situation. Major works to all sewers required.

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
216	Buntsford Hill/Fish House Lane	Cause i – River Salwarpe	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The River Salwarpe bursts its banks onto the adjoining highway closing off the valley and isolating various houses. EA needs to put in extra storage in this area in the way of recreating flood plans.
217	Fish House Lane – Manor House	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Subsidiary stream joins the River Salwarpe. Backs up instantly to house. Recent flood defence scheme has eased the situation but upstream between the railway and canal property again floods due to restrictive culverts.

Notes

1. The above is not an exhaustive list of flooding records.
2. Causes of flooding
 - i. Overflow of watercourses and existing flood defences including water retention facilities such as flood storage reservoirs/washlands and storm water balancing ponds;
 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
3. *Italic and underlined* numbers indicate a general, unspecified location (e.g. an event affecting an entire town or a long stretch of river)

Table B2 : Historic Flooding Records from watercourses within Redditch

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
17	Abbotswood Close, Winyates Green	Ipsley Brook Cause i, iii, iv	Repeatedly	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson) Redditch Council 'Policy Statement on Flood Defence, Revised Dec 2005	Approximately 5 houses flooded internally from overland flow 1 house flooded externally from land drainage, highway and sewer flooding Earth Flood bund constructed to protect houses in Abbotswood Close
19	Allensmore Close, Matchborough	Ipsley Brook Cause i, iii, iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 8 houses flooded internally and 3 houses flooded externally from land drainage, sewer overflow and highways runoff.
20	Arley Close, Church Hill	Churchill Brook Cause i and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 3 houses flooded externally from land drainage and brook overflow.
21	Ashperton Close, Southcrest	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 10 houses flooded externally by overland flow (land drainage)
22	Ash Tree Road, Batchley	Batchley Brook Cause i and Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house suffered external flooding
24	Atcham Close, Matchborough	Ipsley Brook Cause i and cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally from land drainage problems
25	Atherstone Close, Matchborough	Ipsley Brook	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house affected
26	Batchley Road, Batchley	Batchley Brook	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house affected
27	Beech Tree Close, Batchley	Batchley Brook Cause i and Case iv	Repeatedly	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 11 houses affected by internal flooding and 3 houses affected by external flooding as a result of land drainage.

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
29	Brinklow Close, Matchborough	Not Known	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 property flooded externally
30	Bromsgrove Road, Batchley	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 15 properties flooded internally – 3 from sewer and highway flooding and 12 from land drainage problems
31	Brooklands Lane	Dagnell Brook Cause i	20/07/07 Formerly Repeatedly until Q100 works completed in the mid 1990s.	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally
32	Cedar Road, Batchley	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	3 houses flooded externally
34	Cheswick Close, Winyates	Cause iii (illegal works/obstructions in rear gardens)	Repeatedly	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded and 1 house externally flooded
35	Church Road, Webheath	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded
36	Crabbs Cross Lane, Crabbs Cross	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded
37	Dairy Lane, Brockhill	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded internally from land drainage problems
38	Dolphin Road, Abbeydale	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	7 houses flooded externally from sewers and highways
40	Dunlop Road, Hunt End	The Wharrage Cause i and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	10 business units internally flooded from sewers
41	Edgmond Close, Winyates	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
42	Mason Road, Headless Cross	Cause iii	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally from highways flooding
43	Exhall Close, Church Hill	Unspecified Some cause iii	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses flooded externally. 1 house flooded internally from highways drainage
44	Flanders Close, Church Hill	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
45	Forge Mill Road, Riverside	Cause iii	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses flooded externally from highways flooding

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
46	Foxlydiate Crescent, Batchley	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses externally flooded from land drainage
47	Furze Lane, Winyates Green	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Business premises flooded externally from land drainage
48	Goodrich Close, Winyates West	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded from sewer and highway flooding
49	Greenlands Avenue, Greenlands	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally
50	Haseley Close, Matchborough East	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally by highway drainage flooding
51	Highley Close, Church Hill	Church Hill Brook Cause i and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses flooded externally from land drainage
53	Hillmorton Close, Church Hill	Churchill Brook Cause i, iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally from overbank, sewer and highway flooding
54	Hither Green Lane, Abbey Park	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house and golf course suffered external flooding
55	St Bede's School, Holloway Lane, Lakeside	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	School flooded internally by sewers
56	Holyoaks Close, Winyates East	Ipsley Brook, Cause i, iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 7 houses suffered external flooding from land drainage, sewers and highway
57	Ibstock Close, Winyates West	Blacksoils Brook Cause i, iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	4 houses internally flooded from highways drainage. 4 houses externally flooded from land drainage
58	Ilmington Close, Matchborough	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally
59	Ipsley Church Lane, Ipsley	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally from land drainage
60	Kempsey Close, Woodrow, Winyates West	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 7 houses flooded externally
61	Kinnersley Close	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded
62	Ladygrove Close, Greenlands	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses externally flooded
63	Linton Close, Matchborough	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded by sewers and highways

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
65	Loxley Close, Church Hill	Church Hill Brook Cause i and iv	20/07/07 Formerly repeatedly, progressive reductions in frequency and magnitude following various improvements	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 11 houses externally flooded and 1 house internally flooded from land drainage
66	Middleton Close, Mappleborough Green	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded by sewer and highway drainage
67	Milcote Close, Greenlands	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 property internally flooded
68	Milhill Road, Matchborough	Ipsley Brook Cause i?	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
69	Napton Close, Matchborough	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
71	Northleach Close, Church Hill	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	10 houses externally flooded by sewers and highway flooding 3 houses internally flooded from sewers
72	Oak Tree Avenue, Batchley	Batchley Brook Cause i and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded and 8 externally flooded from land drainage
73	Ombersley Close, Church Hill	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded by sewers
74	Oxleasow Road, Moons Moat	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 business unit internally flooded
75	Patch Lane, Oakenshaw North	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses externally flooded
76	Pebworth Close, Church Hill	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded (externally?)
77	Plymouth Road, Southcrest	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
78	Poplar Road, Batchley	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded
79	Proctors Barn Lane, Lakeside	Unspecified River Arrow?	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded
80	Pulman Close, Batchley	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded and 1 house externally flooded
81	Quinton Close, Matchborough	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house externally flooded



ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
82	Salters Lane, Brockhill	Batchley Brook Cause i and iv	20/07/07 Repeatedly following construction of dwellings in early 2000s Regular, sporadic	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson) Redditch Borough Council Drainage Engineer (Clive Wilson) – anecdotal local knowledge	1 house internally flooded by sewers and 1 house externally flooded by sewers Highways and Drainage – Highway flooding in excess of 700mm depth Former farm land
84	Sandhurst Close, Church Hill	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally and 1 house externally flooded by sewer and highways drainage
85	Snowshill Close, Church Hill	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally from sewers and highways drainage
88	Watery Lane, Greenlands	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	Approximately 7 houses flooded internally from sewers and highways drainage
89	Windsor Road, Enfield	Red Ditch Cause i	Formerly infrequent flooding prior to Brockhill Development. Enforcement actions secured improved performance, nevertheless flooding occurred on 20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 business flooded internally from land drainage
90	Woodland Road, Batchley	Cause iii/iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 property externally flooded from highways drainage

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
91	Plymouth Road, Southcrest	Unspecified. Assumed cause i and/or iv	Early 1930s A new relief Surface Water Sewer was constructed by STWL in 1978/79 which also significantly improved drainage performance.	Redditch Advertiser http://www.redditchadvertiser.co.uk/news/ranewspicturegalleries/reddnewsgalleryhistoricpictures/	'...severe flooding...' New seats in Remembrance Garden carried away and deposited on war memorial. Car's carried along in flood. Further down road a waterfall from the road through the garden grounds onto the train station platform. Some years later the road level was raised which reduced the risk of further flooding.
92	Garage, Redditch, unspecified	Cause iv	June 2007	BBC Hereford and Worcester http://www.bbc.co.uk/herefordandworcester/content/image_galleries/raw_sewage_redditch_gallery.shtml?2	Business garage flooded with sewage – flooded 3 times in 6 weeks
93	Oakly Road and Station Way	Cause i and iii (General lack of proper gully provision in terms of both numbers and siting)	November 2005	Bromsgrove Advertiser http://archive.bromsgroveadvertiser.co.uk/2005/11/23/387027.html	Blocked drains causing flooding at Redditch bus station "torrents of water" pour down Oakly road into taxi rank
95	A441 Dagnell End Road/Weights Lane	Unspecified Cause i, iii or iv	20 th July 2007	West Mercia Constabulary News http://www.westmercia.police.uk/press/joinedup.htm	Road closed due to flooding
<u>97</u>	Arrow Valley from Redditch downstream	River Arrow Cause i	December 1900 (Also 1870s and 1880s)	Alcester Local Past http://www.alcester.dial.pipex.com/localpast/96wn/wn96flo.htm	Torrential Rain "...general picture of destruction from Redditch downwards..."
98	Winyates Way, Matchborough/Winyates	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565297.0.your_flood_photos.php	Photo
99	Battens Drive, South Moons Moat	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565311.0.your_flood_photos.php	Photo

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<u>100</u>	Batchley Brook, between Brockhill Drive and Batchley Road	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565416.0.your_flood_photos.php http://www.redditchadvertiser.co.uk/search/display.var.1565378.0.your_flood_photos.php http://www.redditchadvertiser.co.uk/search/display.var.1565406.0.your_flood_photos.php http://www.redditchadvertiser.co.uk/search/index.var.1.20.flood.php	Photo See also ID82
101	Brockhill and Batchley (general)	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/index.var.1.20.flood.php	Photo
102	Bordesley Lane, Riverside	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565491.0.your_flood_photos.php	Photo
103	Batons Drive, South Moons Moat	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565376.0.your_flood_photos.php	Photo See also ID 99
104	Park Way, Abbeydale	Unspecified Possibly cause i, iii or iv	23 rd July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1565496.0.your_flood_photos.php	Photo
106	Underpass at end of Beoley Road under Holloway Drive, Lakeside	Cause iii	4 th June 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1446168.0.boat_and_bath_in_underpass_flood.php	Several feet of water for 2 weeks as a result of a failed pump
108	Sedgley Close	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded externally
109	Green Lane, Studley	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house flooded internally
124	Rosedale Close and Salters Lane	Unspecified	Regularly and Recently	Ex-Resident – conversation	Houses flooded internally and externally
125	B97 4LE, Birchfield Road	Cause iii	Regularly	Relative of Resident – conversation	1 house floods externally in garden due to blocked drains. Neighbours are not affected

Notes

1. The above is not an exhaustive list of flooding records.
2. Causes of flooding
 - i. Overflow of watercourses and existing flood defences including water retention facilities such as flood storage reservoirs/washlands and storm water balancing ponds;
 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
3. *Italic and underlined* numbers indicate a general, unspecified location (e.g. an event affecting an entire town or a long stretch of river)

Table B3 : Historic Flooding Records from watercourses within Other Areas in Bromsgrove District

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
1	Hanbury Road, Stoke Prior	Cause i – canal or cause iv	30 October 2000	Worcester News Archive online http://archive.worcesternews.co.uk/2000/11/1/350651.html	Floods under railway bridge waist high. One car left floating
2	Houndsfield Lane, Wythall	Cause i	30 October 2000	Worcester News Archive online http://archive.worcesternews.co.uk/2000/11/1/350651.html	Floods 6ft deep at ford
3	Converted Barn, Dagnell End Farm	Cause iv	Recently	Bromsgrove District Council Drainage Engineer (John Bailey)	Barn is below road level on downstream side. Frequent flood problem
6	Railway Line at M42 Bridge	Unspecified Cause i – ordinary watercourse beside line Or Cause iv	12/02/2001	Worcester news archive http://archive.worcesternews.co.uk/2001/2/14/337808.html	“...there were further floods on the line near Barnt Green on the bridge over the M42”
10	Stoney Lane near B4096 Hawell Lane junction, Tutnall	Unspecified Cause i – B&W canal Or Cause iv	22/07/2007	BBC Traffic Website http://www.bbc.co.uk/mobile/traffic/mid/here/story2007_07_22.shtml?ame=	Closed both ways because of flooding
11	Marlbrook	Unspecified Presumed Cause i from unnamed Ordinary Watercourse	July 2007	BBC Hereford and Worcester website http://www.bbc.co.uk/herefordandworcester/content/image_galleries/flash_floods_new_july_gallery.shtml?26	Road flooded and flood defences erected
13	Next to B&W canal, Stoke Prior Adjacent to the B4091	Cause i – canal overtopping Cause i – canal overtopping and cause iv	July 2007 July 2007	Waterscape.com http://www.waterscape.com/features-and-articles/features/boaters-update/boaters-update-august-2007 British Waterways	High water levels caused localised flooding Overtopping of the Worcester and Birmingham canal in Stoke Prior adjacent to the B4091. Due to the extreme weather conditions which resulted in water inundation of the canal from the adjacent Hen Brook and extreme surface water volumes entering the canal.

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
14	Land adjacent to Callow Brook (behind 141-159 New Road and A8)	Unspecified Cause i – Callow Brook? Or Cause iv	Unspecified	Bromsgrove Housing Capacity 2004	Flooding Issues
15	Beaudesert Road, Drakes Cross (open space behind library)	Cause i – stream	Intermittently	Bromsgrove Housing Capacity 2004	Can flood in places
16	Adjacent to 528 Groveley Lane, Cofton Hackett	Unspecified	Unspecified	Bromsgrove Housing Capacity 2004	Problems with flooding
94	Junction Redhill Road and A441 (West Heath)	Unspecified Cause i, iii or iv	15/06/2007	bbc.co.uk/mobile (Traffic Birmingham)	Flooding on Redditch Road (A441) both ways at Redhill Road junction in West Heath
105	The Farm Animal Sanctuary, Stoney Lane, Tardebigge	Unspecified Cause iv	July 2007	Redditch Advertiser http://www.redditchadvertiser.co.uk/search/display.var.1601008.0.event_raises_cash_for_flood_damage.php	Flash floods damaged fences and submerged hay fields
107	Hanbury Road, Stoke Prior	Cause i plus cause iv	July 2007	Redditch Advertiser http://www.bromsgroveadvertiser.co.uk/search/display.var.1614460.0.crunch_talks_on_flooding.php	5 cottages flooded internally. 2 streams under canal overflowed into canal, in addition to surface runoff and caused the canal to overtop
110	House on A38 downhill from M5, Junction 4	Cause iii and iv	24 July 2007	Highways Agency (Amey Mouchel)	M5 badly affected by heavy rain, runoff left motorway and flowed down fields, surrounding a property at the bottom. Residents had to acquire 2 pumps to stop house from flooding.
111	A456 Hagley Wood Roundabout	Cause iii / iv	25 June 2007	Highways Agency (Amey Mouchel)	Flooding in Lane 1 and onto approach to Roundabout
112	Layby on A456 between Hayley Green and Hagley Wood Roundabout	Cause iv	15 January 2008	Highways Agency (Amey Mouchel)	Water collecting at bottom of field and running into layby
113	A456 Eastbound from A491 Roundabout to Wassell Grove Roundabout	Cause vi	15 January 2008	Highways Agency (Amey Mouchel)	Water gushing from the embankment (approximately 10" wide)
114	M42 Northbound, Junction 1 entry slip	Cause iii	14 th June 2007	Highways Agency (Amey Mouchel)	Known place for flooding due to gully location – gully is clear and water is very slowly dispersing
115	M42 Northbound slip at Junction 3	Cause iii	16 th June 2007	Highways Agency (Amey Mouchel)	Possible blocked drain as water flooding from layby opposite ERT phone and about to flood into Lane 1
<u>116</u>	M42 Junction 2 – Junction 1	Cause iii?	20 th July 2007	Highways Agency (Amey Mouchel)	Standing water due to heavy rain

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
<u>117</u>	M42 Junction 3 – Junction 2	Cause iii and Cause iv	15 th August 2007	Highways Agency (Amey Mouchel)	Water running off field and encroaching onto the hard shoulder. Drains further up are blocked. French drain loosened, hard shoulder closure emplaced and gully sucker required.
118	M42 Northbound Junction 1 entry slip	Cause iv (and iii?)	10 th March 2008	Highways Agency (Amey Mouchel)	Water ponding at bottom of entry slip
119	M5 Northbound, Junction 4a	Cause iv (and iii?)	8 th June 2007	Highways Agency (Amey Mouchel)	Flooding on hard shoulder, possibly from a nearby field
<u>120</u>	M5 Northbound, Junction 4A to Junction 4	Cause iii and iv	20 th July 2007	Highways Agency (Amey Mouchel)	Standing water
<u>121</u>	M5 Southbound – Junction 4A – Junction 5	Unspecified (cause iii or iv)	20 th July 2007	Highways Agency (Amey Mouchel)	Reports of flooding
<u>122</u>	M5 Southbound – Junction 3 to Junction 4	Cause iii or iv	16 th March 2008	Highways Agency (Amey Mouchel)	Reports of standing water
123	Clent Road Estate	Cause iv	Previously	Bromsgrove Advertiser http://www.bromsgroveadvertiser.co.uk/search/display.var.1633631.0.residents_call_for_flood_action.php	Drainage problems. Fears that proposed temporary buildings for the junior football club may cause future drainage problems
126	Cobnall Road, Catshill	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The piped watercourse cannot cope
127	Marlbrook	Cause i Battlefield Brook	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The catchment has been infilled and the brook can't cope with the storm runoff.
128	Callowbrook Lane, Rubery	Cause i and iii Callow Brook	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Culvert capacity problems have led to repeated flooding of a house.
129	Birches Lane, Alvechurch	Cause iii	Recently	Bromsgrove District Council Drainage Engineer (John Bailey)	Storm culvert cannot cope and tends to flood
<u>130</u>	Hollywood/Wythall area	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Clay causes land drainage problems
131	Cottage Lane, Marlbrook	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Problems with runoff
132	Fishouse Lane, Stoke Prior	Cause i River Salwarpe	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Flooded in past
133	Fishouse Lane	Cause i River Salwarpe and Henn Brook	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Problems with excess storm water from railway and canal causes flooding at the confluence

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
134	Between Morrisons and Indoor Bowl Centre	Cause i Sugar Brook	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Flooded in past
135	Ford Road, Watt Close, Brook Road Between confluence of Battlefield Brook and Spadesbourne Brook southwest to Brook road (low-lying ground)	Cause i Battlefield Brook and Spadesbourne Brook	Historically	Bromsgrove District Council Drainage Engineer (John Bailey)	Flooded in past
136	Stoke Prior Bridge	Cause i River Salwarpe	Historically	River Salwarpe Model	Susceptible to Flooding
137	Birmingham Road, West Hagley	Cause i and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Watercourse carried beneath highway on several occasions. Will cause localised flooding to front gardens and in particular the highway itself.
138	Hall Lane, Hagley Hall, West Hagley	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Watercourse to the rear of Hagley Hall. Has several ponds, online, now defunct, along with a possible leek to the other watershed served by Gallows Brook. Both open and culverted as it approaches Hall Lane Highway and floods property. General maintenance would ease situation by capacity lacking.
139	Cattle Market/Spencer Arms Public House/Birmingham Road, West Hagley	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Continuation of the above. Open watercourse piped beneath main road. 90° change in direction. Floods parking area and allotments along with public house. Could ease with a realignment.
140	Willows Road/Oasis, West Hagley	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Defunct channel meets watercourse at low point of private development. New hydro-brake designed to control situation before Gallows Brook becomes involved. The latter required attention where systems meet.



ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
141	Severn Trent Water Sewerage Works, West Hagley	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Works replaced by pumping station. Storm infiltration into mains can cause a back-up in various systems thus affecting properties within the locality.
142	Kidderminster Road/Worcester Road Junction, West Hagley	Cause i and iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Gallows Brook meet the culvert that divides the line towards sewerage works. Has overflow to old line but does not usually operate. Flooding upstream through rear gardens. Lack of maintenance and encroachment within Western Road properties.
143	Worcester Road, West Hagley	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Storm infiltration onto foul sewers causes mains to surcharge outside No. 8 and thus into stream via highway. Difficult to correct as foul water sewer carries out a 90° change of direction. Also rising main involved.
144	Worcester Road, West Hagley	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Gallows Brook, as with other watercourses receives a quick runoff from the Cobhams Estates land, but highway drainage along with storm infiltration into the foul also causes flooding
145	Bromsgrove Road/Woodman Lane, Clent	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Village drain with an outfall culvert to the rear of the public house which takes runoff from below Adams hill. This can malfunction and cause damage to the rear of the pub,
146	Adams Hill, Clent	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Storm sewer from the hillside both piped and open continues to five problems in the immediate locality. The National Trust have tried to contain this by Hill Tavern.

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
147	Claterbach, Clent	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	One mill pond and embankment damaged and undermined, while the downstream mill pond is filled in. Quick discharge off steep hill sides causes flooding. The culverts also give problems. The area needs surveying
148	Broome Lane – Field House, Clent	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Culvert from pool area on line of stream inadequate. Will surcharge but affects access track only
149	St Kenelms Cottages, Clent	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The Storm sewer is culverted at different levels. It is protected upstream, see #156
150	Hossill Lane, Clent	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Surface water run off from field systems plus foul water sewer. Surcharging causes minor road to flood. Pumping station in locality has consented overflow and storm tank on line.
151	St Kenelms Road, Clent	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Piped discharge from one of several branches runs over highway. There is a Worcestershire County Council drain to take this additional run off.
152	Bromsgrove Road, Hunnington, adjacent to No. 269	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Severn Trent Water weir point on public foul water sewer which should be on the critical list. System was designed in the 60's to accommodate considerable storm infiltration from Romsley village itself and upper Hunnington. This is known to become obstructed or at least operates regularly and pollutes the stream. It is not immediately obvious due to an outfall on the other side of a Spinney.
153	Dark Lane, Romsley	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Severn Trent Water stream outfall redesigned in the 90s with attenuation and cascade. This outfalls to a bratch (deep valley) and has critical serious erosion. Though the village has separate storm and foul, on the most part surface water run off can be a problem to St Kenelms Road./Dark Lane.



ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
154	South of Daleswood Farm	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Deep valley that had the first of nine ponds down towards Drayton, which were constructed centuries ago for industry. It has partially collapsed due to malfunction of culverts some 40years ago. It has been rebuilt but needs checking.
155	Sling Common	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As #163. Retaining embankment and culverts partially re-built. Work halted some three years ago due to a disagreement between the National Trust and EA. Requires completion.
156	Galton Lane, Belbroughton	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As #164. Mill pond quite extensive and now silted. Weirs and culverts need further attention. Culverts around former mill silted and requiring regrading down to next pool area. Factory below weir floods from stream and highway.
157	Dark Lane, Belbroughton	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The stream has been bypassed to the left of the main complex. The weir has been destroyed and will overflow into the road. Need to reinstate.
158	Dark Lane/Belbroughton Road, Belbroughton	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Various leaks and weirs dividing flow. This just about works and protects the village area. The Highway takes the flood water.
159	Nash works complex, Belbroughton	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Series of ancient culverts and mills ponds partially filled in and built on with EA permission. Former works flooded out, usually due to major blockages within culverts. The area is to be redeveloped which should improve the situation.
160	Queens Head, Drayton Road, Belbroughton	Cause iii	Historically	Bromsgrove District Council Drainage Engineer (John Bailey)	Double weir to major culvert by side of road. Worcestershire County Council desilts system every 7 years or so. Slight restriction downstream
161	Drayton Road, Belbroughton	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As #163,. Pond recently required by Parish outfall rebuilt. Road known to flood.



ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
162	Bromsgrove Road, Dayhouse Bank	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Hillside stream culverted and possibly collapsed. This floods land and the Manchester Inn public house. The rest of the Hamlet suffers from surface water flooding off the highway.
163	Lodge Farm, near Bartley Reservoir	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The watercourse is bridged and culverted causing localised flooding within the Birmingham City Council area.
164	New Inns Lane, Rubery	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Recreation ground (Birmingham city council) served by ditch and outfall to 60s estate. This isn't adequate and causes flooding to properties
165	Gunner Lane, Rubery	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Run off from Waseley Hills, initially off land into back gardens which causes various streams through the estate to suffer. Worcestershire County Council need to place in control points. School extension has new attenuation but there are still problems
166	Callow Brook Road, Nos 115A – 117 etc, Rubery	Cause iii, iv and i (Callow Brook) SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Serious flooding to property where the Callow Brook passes beneath road systems. Worcestershire County Council have tried to upgrade the system but with partial success. The estate upstream has problems both with surface water runoff, but especially, with storm infiltration into foul mains. Severn Trent Water have implemented various projects but with limited success.
167	Beacon Hill etc, Rubery	Cause i and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Scarp slope off Lickey Hills on to Housing Estates. Various small streams all give problems to adjacent properties.

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
168	New Road/Beverley Road, Rubery	Cause i, iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As #176 but in particular the culvert system just before the river Rea outfall
169	Rose Hill, Cofton Hackett	Cause i and iv SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As #176 but stream runs adjacent to highway. Bilberry Centre and island become flooded on the odd occasion. The foul water sewer has attenuated tanks off line. Two others down stream
170	Ten Ashes Lane, Cofton Hackett	Cause i and iv SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	One of the two other tanks mentioned above also streams down through back gardens to private reservoir (built for Waterways. Will cause localised flooding to property and gardens.
171	Plymouth Road, Barnt Green	Cause i and iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Two sets of attenuation tanks within highways. Stream infiltration a problem right down to Bittall lane/Road which is the responsibility of Severn Trent Water. Various small dry ditches/streams will cause instant flooding during flash storms.
172	Fiery Hill Road, Barnt Green	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As above. Requires attenuation on foul water system, in particular although highway drains are also inadequate.

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
173	Bittell Lane, Barnt Green	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As above. Requires attenuation, but stream area in and around Bittell Lane and downstream will give problems. As does small stream to the rear of properties within Hewell Lane (High Street). Localised flooding of premises off Station Approach which is a Highways matter.
174	Cofton Church Lane, Cofton Hackett	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Series of old culverts on River Arrow just off access to Cofton Richards Farm. Upgrade needed.
175	Upper Bittell Reservoir	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Series of old culverts on River Arrow just off access to Cofton Richards Farm. Upgrade needed. British waterways problem. Work has been carried out on parts of the system – culverts along the trackway to Bittell Farm Road,
176	Ash Lane, Hopwood	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Local stream by side of road and in waste land will cause problems. Hopwood itself suffers from highway drainage and run off from fields
177	Lea End Lane, Lea End	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Various streams conflict with highway causing flooding problems. Run off from field systems a common problem.
178	Watery Lane, Lea End	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Various streams conflict with highway causing flooding problems. Run off from field systems a common problem. Hence the name.
179	Icknield Street, Weatherhill	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The whole length of this Roman road from Kings Norton to Redditch has problems with surface water run off from surrounding land. In this case the scarp slope, road and stream cause specific problems.
180	Goodrest Road, Headley Heath	Cause i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream floods road. Line infilled on downstream side. Classic case that represents the whole of this particular locality.

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
181	Gay Hill, Hollywood	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As above, but in particular streams and ditches blocked by household rubbish from conurbation area.
182	Maypole Lane, Hollywood	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Peter Brook affected by lack of maintenance. Land left derelict. Pollution from foul water sewer.
183	Peterbrook Road/Aqueduct Lane	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The Peter Brook will burst its banks on a regular basis. Upstream there is a localised restriction due to an illegal culvert (one of many).
184	Aqueduct Lane	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As above but the stream is carried beneath the canal. Capacity in the system is lacking.
185	Hollywood Lane, Hollywood	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Highway culvert along with a pipe restriction downstream add to flooding at this low point. The estate above suffers both from this stream and land drainage (i.e. Simon Road)
186	May Lane, Hollywood	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Continuation of above, but major culvert and grid will cause serious flooding
187	Houndsfield Lane, Trueman's Heath	Cause i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Ford on River Cole. A good indicator for streams in the locality. Naturally does give problems
188	Barkers Lane, Tanner's Green	Cause i and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	A typical surface water runoff and stream conflict within the highway and property. The sub soil being a heavy clay and this holds water at ground level.
189	Watery Lane/Dumble Pit Lane, Birch Acre	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The upper reaches of the River Cole. Controlled by the Worcestershire County Council with weirs and culverts conflicting with the highway and properties.
190	Old Rectory Lane down to Parish Fields, Alvechurch	Cause i – River Arrow	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The River Arrow (ordinary watercourse) will overflow its banks onto the land due to a combination of high level flows meeting a controlling leek to a former mill Also Parish Fields is a natural holding area above the weir before Radford road. Downstream of here the Arrow is enmained

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
191	George Road area, four houses and other land	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream passing through urban area. Restricted by development and culverts/grids. Will flood both properties and highways
192	Withybed Green, five houses plus other land	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream has a large catchment and is restricted by culverts beneath road, canal and railway. Property affected. Difficult to ease situation on site. Cleared road culvert but still lacks capacity.
193	Lickey Incline, Linthurst Newtown	Cause iii and iv	Historically	Bromsgrove District Council Drainage Engineer (John Bailey)	Watercourse and drainage systems enhanced by Network Rail in 2006.
194	Linthurst Newtown	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	New estate has balancing pond (Severn Trent Water) before railway. Passes onto golf course and causes localised highway flooding in the vicinity.
195	Sand Pit	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	In high intensity storms surface water will run off on to Little Heath Lane and down Alcester Road thus affecting the frontages of properties. Also the Spadesbourne in this locality is carried through a major culvert, for which Bromsgrove District Council are responsible.
196	Land off little Heath Lane	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Field systems behind Garden Centre act as an emergency balancing pond for motorway. Weir and cascade by new Housing Estate.
197	Long Eye, Alcester Road	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Spadesbourne carried beneath main road. Bridge has shallow arch. Road floods. Downstream is Crows Mill with various alterations to Watercourse.
198	Marlbrook Lane, Marlbrook	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Restrictive culvert beneath highway, cannot cope with run off from highway. Infill site controlled by EA. Have left no adequate retention on brook course

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
199	Wildmoor Lane (top end)	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Property and highway flooded when stream is diverted into culvert. Upstream the run off from highway/motorway affects weir (Sandy Lane). Downstream through fields not managed. EA has bore hole to input into Battlefield Brook to compensate for lack of flow south of Catshill.
200	Cobnall Road, Catshill	Cause iii and i	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream from Lydiate Ash altered on line and by culverting during construction of motorway. Lack of maintenance and heavy flows cause properties to be flooded.
201	Green lane Balancing ponds, Catshill	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Bromsgrove District Council constructed a series of balancing ponds to protect the urban area. Run off at this point can come from Alvechurch Highway/Beacon Hill which creates problems
202	Mayfield Close, Catshill	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Series of attenuation systems serving the motorway before entering the water meadows around the Battlefield Brook. At times this affects properties within the Close.
203	Church Road up to Golden Cross Lane, Catshill	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Series of culverts and grids and passage through back gardens causes numerous problems to property
204	Dodford Road, Bournheath	Cause i SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Various properties, but especially four terraced houses suffer flooding. The latter at a low point where two catchments meet plus highway drains and foul sewer
205	Westfields/Stourbridge Road, Catshill	Cause iii SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Highway drains and storm water sewer meet at crossroads. Impact causing highway flooding but also property in Meadow Road and below Crown Inn
206	Washingstocks, Catshill	Cause iii and iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Run off from Hinton Fields along with old weirs on brook causing land to be flooded.

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
218	Fish House Lane, Stoke Prior	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Subsidiary stream joins the River Salwarpe. Backs up instantly. Although a recent flood defence scheme has eased the situation upstream, property floods again due to restrictive culverts. Properties such as the two former mills and the cottages off Bunstford Hill need flood prevention measures.
219	Hanbury Road, Stoke Prior	Cause iii, iv SEWER	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Road bridge causes fields to flood. While in the past both storm water and sewerage has cleared land downstream of this bridge.
220	Brickhouse Lane, Stoke Prior	Cause i – River Salwarpe and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Former ford through the River Salwarpe. Water course needs clearing. Localised flooding only.
221	Hanbury Road/Harris Brush, Stoke Prior	Cause i – Hen Brook and Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	The Hen Brook along with its confluence with the canal can cause serious flooding which is impractical to remedy. Flood prevention undertaken during more recent planning applications but the fact remains that the valley outlet is obstructed by a fairly sizeable culvert underneath Bayers Salt Pans.
222	Trading Estates off Hanbury Road, Stoke Prior	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	As above. Outfalls into the Hen Brook or discharge into the canal and highways drains cause flooding south of the canal
223	Shaw Lane, Stoke Prior	Cause i – Hen Brook and Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Bridging point on the Hen Brook. Property just upstream suffers from localised flooding
224	Astwood Lane, Stoke Prior	Cause iv	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Flooding of highway and property due to relief of land and surface water discharge off field systems. Typical of surrounding area.
225	Dusthouse Lane, Stoke Prior	Cause iv, iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Flooding of highway and property. Typical of the area with narrow highway, damaged roadside ditches and runoff from fields.
226	Brockhill Lane, Stoke Prior	Cause iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Example of Parish lengthsman improving one area of flooding but passing problem to adjoining roads and property.

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
227	Agmore Lane/Warren Lane, Broad Green	Cause iv and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Field systems, highways and distant motorway along with flooding to canal causes problems with both properties and highway
228	Upper Bentley	Cause iv and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Typical of scattered settlement on flat low lying land where land drainage just does not work
229	Lower Park Farm area, Beoley	Cause vi and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	High water table. Typical conflict with rural foul drainage (septic tanks etc) with water courses causing pollution. The situation has improved as problem sites receive attention but represent a health hazard.
230	Icknield Street, Beoley Hall	Cause iv and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Low lying land, ponds, infill contribute to localised flooding of property.
231	Beoley Lane, Holt End	Cause iv and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	Stream, bridge deck and highway drains along with run off across fields cause problems. Several properties affected.
232	Ravensbank development into Redditch	Cause and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	New industrial units with own attenuation systems but there have been one or two incidents at the early stage of construction of water discharging into adjacent underpasses etc within the confines of Redditch Borough Council.
233	Birmingham Road, Bordesley	Cause i and iii	Repeatedly	Bromsgrove District Council Drainage Engineer (John Bailey)	<p>Significant overland flows from the land between the A441 and B4101 Dagnell End Road (north-east sector). These combine with the River Arrow during times of spate and, due to the fact that the A441 is lower in part than the bridge over the River Arrow, the highway is regularly rendered impassable due to surface flooding.</p> <p>The land may no longer be properly drained and similar conditions were witnessed by run-off onto the A441 from the east at Bordesley, where there are no visible signs of channels or former channels serving the land in question.</p>

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
234	Western Road/Kidderminster Road	Cause i?	Historically	Bromsgrove District Council Drainage Engineer (John Bailey)	History of flooding in this locality.
235	Queens Car Park, Belbroughton	Cause i and cause iv	September 2008	YouTube	Fast flowing water down road and through car park
236	Nash Lane, Belbroughton	Cause i – Belne Brook	September 2008	YouTube	Belne Brook broke banks. Video shows flooding approximately 2ft deep.
237	Dark Lane, Belbroughton	Cause i and cause iv	20 th July 2007	YouTube	Video shows water flowing fairly rapidly down and across road.

Notes:

1. The above is not an exhaustive list of flooding records.
2. Causes of flooding
 - i. Overflow of watercourses and existing flood defences including water retention facilities such as flood storage reservoirs/washlands and storm water balancing ponds;
 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
3. *Italic and underlined* numbers indicate a general, unspecified location (e.g. an event affecting an entire town or a long stretch of river)

Table B4 : Historic Flooding Records from watercourses within Other Areas in Redditch Borough

ID ³	Location ¹	Watercourse and Cause ²	Dates	Source	Comments
18	Alcester Road, Feckenham	Cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded
23	Astwood Lane, Feckenham	Plack Brook Cause i, iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses suffered external flooding and approximately 5 houses suffered internal flooding
			11/01/2008		Astwood Lane closed to traffic and one property flooded
			16/03/2008		Astwood Lane closed to traffic
28	Blaze Lane, Hunt End	Wixon Brook Cause i and cause iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 property flooded internally due to land drainage
33	Chestnut Road, Astwood Bank	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 properties flooded externally from sewers and highways drainage
39	Droitwich Road, Feckenham	Bow Brook Cause i, iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses flooded internally from sewers and highways drainage
52	High Street, Feckenham	Unspecified	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	3 houses suffered external and cellar flooding
64	Love Lyne, Callow Hill	Cause i	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded
70	Norgrove Lane, Elcocks Brook	Swans Brook Cause i and iv?	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	1 house internally flooded
83	Salt Way, Feckenham	Brandon Brook Cause i and iii	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	A number of houses suffered either internal or external flooding by land drainage and highways flooding
86	Swansbrook Lane, Shurnock, Astwood Bank	Bow Brook Cause i and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses flooded internally from land drainage
87	Western Hill Close, Astwood Bank	Cause iii and iv	20/07/07	Database provided by Redditch Borough Council Drainage Engineer (Clive Wilson)	2 houses externally flooded from sewers and highways drainage

Notes

1. The above is not an exhaustive list of flooding records.
2. Causes of flooding
 - i. Overflow of watercourses and existing flood defences including water retention facilities such as flood storage reservoirs/washlands and storm water balancing ponds;
 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
3. *Italic and underlined* numbers indicate a general, unspecified location (e.g. an event affecting an entire town or a long stretch of river)