FLOOD RESILIENCE ANALYSIS

Introduction:

The following list has been compiled as a desk top exercise, with reference to EA 2007 Flood Zones Maps, and where applicable, local knowledge. No reference has yet been made to any of the utility companies.

The list is purely furnished for guidance purposes, to provide an initial focus on potentially vulnerable locations within Redditch Borough Council's administrative area. Those areas in **bold text** are locations which can become marooned and isolated from the general highways network.

Astwood Bank		
Astwood Lane	Worcestershire CC	Public Highway Residential
Batchley		
Salter's Lane	Worcestershire CC	Public Highway Residential
Rosedale Close	S38	Unadopted Highway
Beech Tree Close	Worcestershire CC	Public Footpath Residential
Oak Tree Avenue	Worcestershire CC	Public Highway Residential
Bordesley		
A441	Worcestershire CC	Public Highway
B4101 Dagnell End Rd	Worcestershire CC	Public Highway
Elcocks Brook		
Norgrove Lane	Worcestershire CC	Public Highway Residential
Sillins Lane	Worcestershire CC	Public Highway
Feckenham		
Priest Bridge WRW	Severn Trent Water Ltd	Sewage Treatment Works
Moors Lane		Business/Residential

B4090 Droitwich Road	Worcestershire CC	Public Highway Residential
B4090 Salt Way	*Worcestershire CC*	*Public Highway*
Feckenham Sub-station Mill Lane	*National Grid*	*Electricity Supply* Residential
Astwood Lane		Business/Residential
Swansbrook Lane	Worcestershire CC	Public Highway **State Education**
<u>Ham Green/Callow Hill</u>		
Brookhouse Lane	Worcestershire CC	Public Highway
<u>Hunt End</u>		
Blaze Lane	Worcestershire CC	Public Highway Residential

<u>Other Comments</u>

The Flood Zone Maps also indicates extensive areas of flooding which are not substantiated by records and anecdotal evidence. I would comment as follows: -

<u>BATCHLEY</u>

Batchley Road

This is believed to be due to surface flooding arising from flooding upstream, which is unable to return to Batchley Brook. Generally, dwellings are considerably higher in relation to Batchley Brook.

Bridley Moor Road/Hewell Road

This may be due to surface flooding arising from flooding upstream. Generally, dwellings are considerably higher in relation to Batchley Brook.

Pulman Close

This is believed to be due to surface flooding arising from flooding upstream. Generally, dwellings are considerably higher in relation to Batchley Brook. Further reports confirm this to be due to natural run-off from adjacent green areas.

Salter's Lane

The balancing areas shown on the Flood Zones Maps are too extensive. They are shown as one as opposed to two (Ponds B & C). Pond A, rear of Windsor Road is not shown, but this is strictly speaking an appurtenance to the surface water sewerage system as opposed to a pure, land drainage feature.

CHURCH HILL

Church Hill Brook

There are only minor problems affecting Exhall Close and Arley Close and these would be immediately adjacent to the river corridor.

Enfield

Windsor Road

Flooding is indicated on either side. This is erroneous. Land on the south side is particularly at a considerably higher elevation. On the north side, there is limited evidence of flooding caused by the Red Ditch which is at a higher elevation than either Windsor Road or Batchley Brook into which it ultimately drains. There remains a moderate risk that the highway can become surcharged which could cause some flooding problems.

The area immediately to the west of the Redditch to Birmingham Railway Line is not susceptible to flooding – no reports on 20/07/07.

Middlehouse Lane/Birmingham Road

The area immediately to the east of the Redditch to Birmingham Railway Line is not susceptible to flooding – no reports on 20/07/07. Previously, there were problems with respect to highway drainage and/or public surface water sewers. Both STW and WCC have carried out works which on the basis of the 20/07/07 event have significantly improved the situation. No reports from Birmingham Road; Middlehouse Lane is now (subject to regular highways maintenance), only affected to a minor extent and at reduced frequencies.

LAKESIDE

Marlfield Lane/Proctors Barn Lane

This area, immediately to the south of Coventry Highway (A4023) is not believed to be so extensively affected. It's possible that the course modelling failed to recognise the presence of this highway (elevated embankment) and the corresponding drainage rationalisation works that were carried out at the same time.

River Arrow

The areas to the west of Holloway Drive near Arthur Street and Broadground Road are not known to be so susceptible to flooding. I suspect that levels have been raised as a part of the Meir Road development and hence are not believed susceptible either.

Arrow Valley Park/Blacksoils Brook

The Arrow Valley Lake is not susceptible to flooding (although levels would react under adverse conditions), nor is the parallel reach of the Blacksoils Brook. The levels which dictate any effects from the River Arrow's confluence with the Brook is approximately 170m downstream of two weirs. Therefore any 'parallel' effects on the Arrow upstream would not have any influence on these.

Stitch Meadow is believed to be vulnerable to water logging – not flooding.

MOONS MOAT

Blacksoils Brook

The industrial areas east of Winyates Way (north & south of Coventry Highway are not known to flood with the exception of one property off Oxleasow Road. This may be due to surface drainage problems.

Similarly, the Padgetts Lane Industrial Estate is not known to be susceptible to flooding.

MATCHBOROUGH WEST

Ipsley Brook

Areas of possible flooding at Merevale Road, Ashorne Close, Brinklow Close and Washford Industrial Estate are not known to be as vulnerable as is suggested. This is probably due to the river modelling failing to recognise the extent to which the areas are served by surface water sewers.