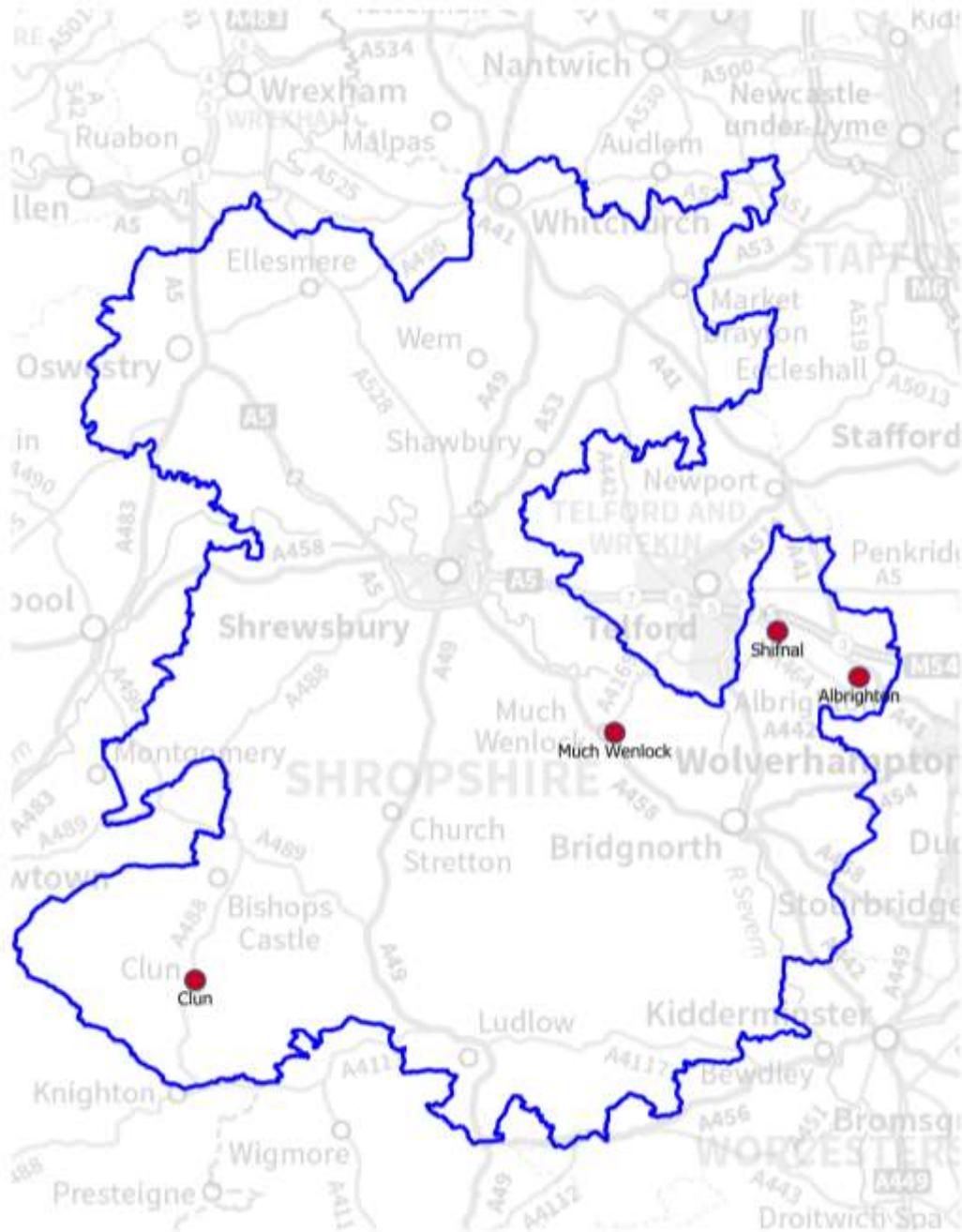


MITIGATION OF KEY FLOOD RISKS IN FOUR COMMUNITIES

1 Locations

The location of the four sites are provided in the map below.



2 Flooding history at these sites

The Council's Confirm system hold reports of flooding incidents at each of the four sites. Each site had a significant number of drainage issues ranging from a blocked gully to completed flood with stranded vehicles. Each enquiry has been reviewed to filter those which are report flooding significant enough to disrupt use or close a road, these are show in Table 1.

Table 1. Number of disruptive flooding events each year

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Albrighton	1	5	2			1	2	2	8		5	1	10	37
Clun			1		1			1						3
Much Wenlock		3	2				1		2		4	1		13
Shifnal							1	2					1	4
Total	1	8	5		1	1	4	5	10		9	2	11	57

The Confirm reporting system also captured the date of resolution of each of these events. These periods have been processed into a number of days of disruption per year as shown in Table 2.

Table 2. Number of days of disruption due to flooding events each year

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Albrighton	1	3	6			3	5	6	16		6	3	20	69
Clun			1		1			3						5
Much Wenlock		1	1				1		3		1	1		8
Shifnal							1	4					3	8
Total	1	4	8		1	3	7	13	19		7	4	23	90

3 Initial drainage investigations

Shropshire Council have undertaken initial investigations at one location (Albrighton). Substantial structural damage to the drainage system was clearly evident. It is expected that similar damage will be found in the systems more widely and will be confirmed as part of this project.



Photo: 31_3A, Media No.: 290819_1, 00:00:18
0.28m, Roots, mass, 60% cross-sectional area loss



Photo: 31_3A, Media No.: 290819_1, 00:00:19
0.29m, Survey abandoned Remarks: Unable to pass root mass - root cutting required



Photo: 72_10A, Media No.: 290819_1, 00:01:46
14.62m, Fracture, multiple, from 9 to 5 o'clock



Photo: 72_12A, Media No.: 290819_1, 00:01:58
14.66m, Broken pipe, from 9 to 3 o'clock Remarks: Excavation required to repair



Photo: 69_3A, Media No.: 290819_1, 00:00:29
0.98m, Settled deposits, fine, 40% cross-sectional area loss



Photo: 70_3A, Media No.: 290819_1, 00:00:41
0.72m, Settled deposits, fine, 45% cross-sectional area loss

4 Proposed approach

The following approach to the work will be followed at each site to fully investigate the causes of flooding and working with communities to design solutions that will work in the long term:

