Flood Investigation Report

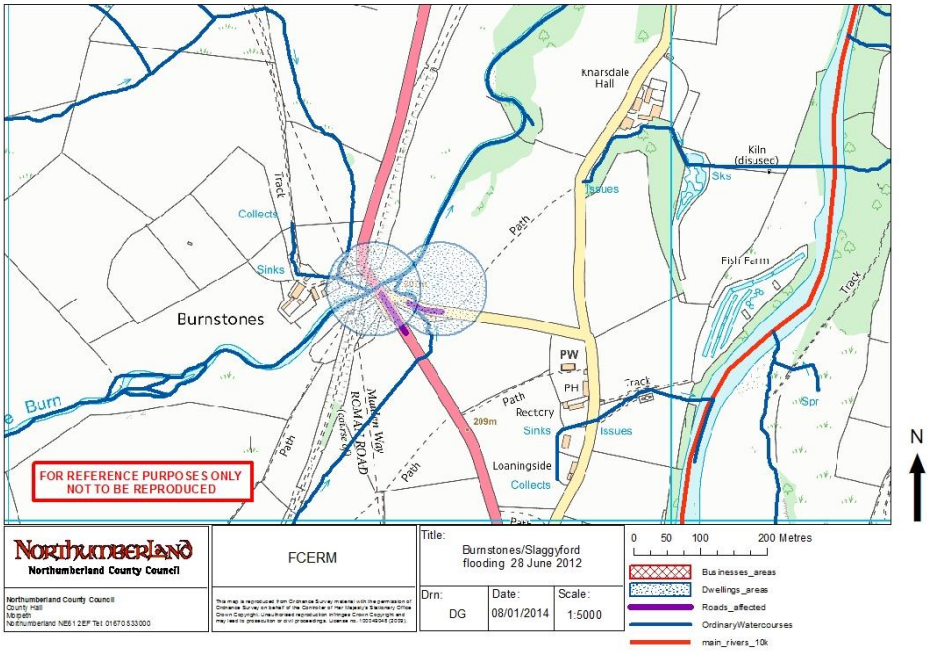
4.5

Location: **Burnstones (Knarsdale)**	Incident Date: **28/06/12**

Source(s) of flooding:

Ordinary Watercourse	Main River	Surface Water	Groundwater	Sewer	Sea	Tidal Lock
☒	☐	☒	☐	☐	☐	☐

Impacts	Residential	Business	Other Buildings	Roads	Critical Infrastructure
(number)	**4**	**0**	**0**	**2**	**0**



Description

The settlement of Burnstones (Knarsdale) is situated in the southwest of the county. Burnstones and Knarsdale are situated approximately 9.75km southwest of Haltwhistle. Events of the 28th June saw 4 properties affected in Burnstones.

In Burnstones surface water from the A689 contributed to the flooding of one property. In other rainfall events, the drainage system along this stretch of road has been adequate, with no reported previous problems. However, the rainfall on the 28th June was excessive and the drainage system could not cope. The standing water on the road was not at a depth to flood the adjacent properties but speeding vehicles on the road caused waves in the flood water which resulted in the subsequent flooding.

The properties off the A689 within Burnstones south of the masonry arch bridge were affected by flooding. There is an ordinary watercourse that flows from south to north, at the back of these properties. The watercourse enters a culvert adjacent to one of these properties before exiting south of the road. Reports were that water levels in this watercourse rose and became out of bank, here water flowed around to the front of the properties and water entered via the front doors. Surface water from the highway would have also contributed. However, the contours of the road mean that there is not a large contributing area.

RMA Actions:		
NCC	*Exercised:* *Proposed:*	Carried out Flood Investigation Report Look to seek funding for any potential flood alleviation works in the MTP.
EA	*Exercised:* *Proposed:*	
NWL	*Exercised:* *Proposed:*	
Other	*Exercised:* *Proposed:*	

Additional supporting information

Plate 1: Flow routes in Burnstones

Plate 2: The entrance to the culvert in bank full conditions at Merit Hall, Burnstones

Sign Off Drafted by: James Hitching Approved by:	**Date** 18/09/12
RMA Notification: EA ☒ **NWL** ☒ **Other** ☐ **(please specify)**	