

# Flood Investigation Report

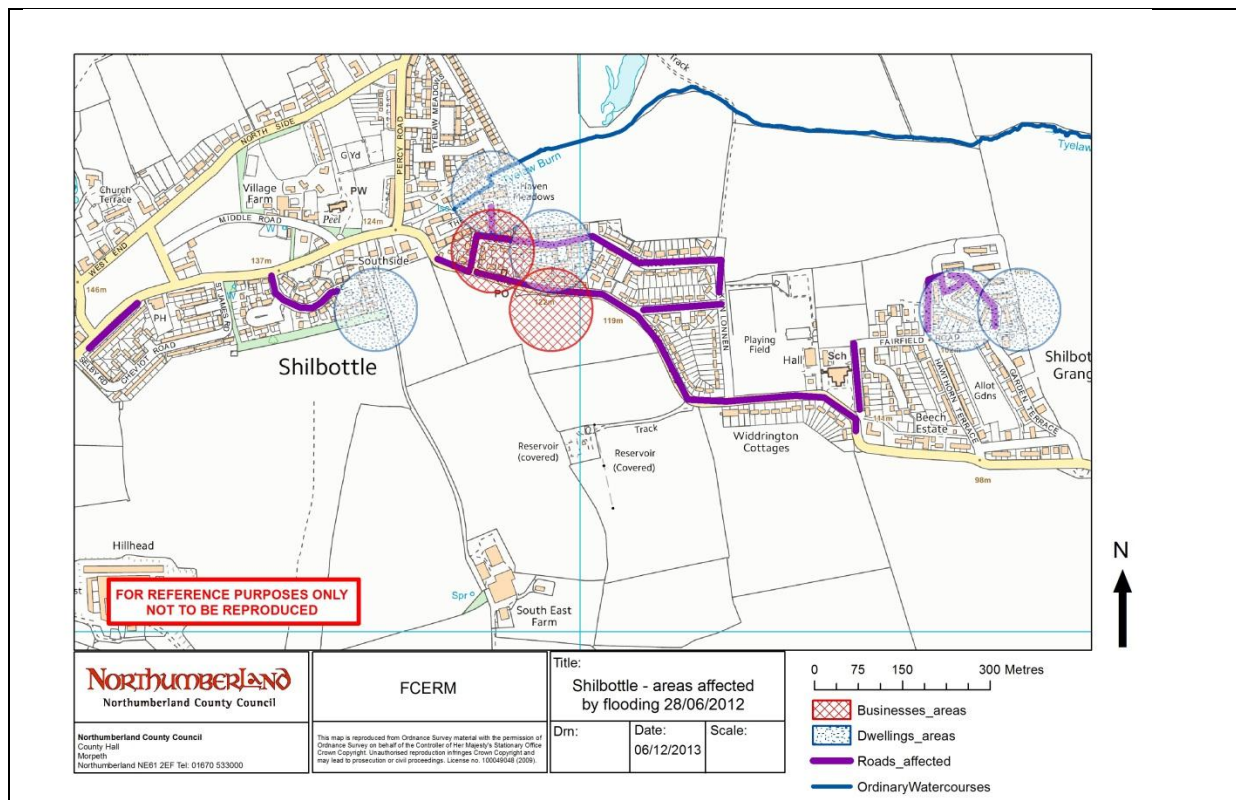
4.21

Location: **Shilbottle** Incident Date: **28/06/12**

## Source(s) of flooding:

Ordinary Watercourse	Main River	Surface Water	Groundwater	Sewer	Sea	Tidal Lock
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts (number)	Residential	Business	Other Buildings	Roads	Critical Infrastructure
	15	3	0	6	0



## Description

Shilbottle is located approximately 4km south-east of Alnwick and sits on a relatively steep slope in the upper reaches of the Tyelaw Burn catchment. The topography of the village generally falls from west to east as seen in the plan of the digital terrain model for the area overleaf.

The rainfall event of 28<sup>th</sup> June 2012, estimated regionally to be an event of between 1 in 150-200 years, resulted in surface water flooding to a number of residential properties in the Haven, Lee Avenue, Farmers Rise and Colliers Close in addition to businesses on Grange Rd. The source of this surface flood water was from the relatively steep fields to the south of the village, also the location of a spring, with additional runoff from the fields to the west of Colliers Close.

Despite the event of 28<sup>th</sup> June 2012 being of such low annual probability and the fact that infiltration rates of the ground were reduced due to a particularly wet summer; anecdotal evidence highlights a significant surface water flooding issue in the village. There is evidence to support at least four additional occasions in the last 5 years where flooding has occurred as a result of more frequent rainfall events.

### RMA Actions:

NCC	Exercised:	Investigation carried out
	Proposed:	Explore opportunity to alleviate issues as part of the proposed development (Ref No.:12/02093/FUL) and explore options for further work to manage runoff to west of Colliers Close.
EA	Exercised:	N/A
	Proposed:	N/A
NWL	Exercised:	N/A
	Proposed:	N/A
Other	Exercised:	N/A
	Proposed:	N/A

### Additional supporting information



Figure 1 - Plan of Shilbottle highlighting observed surface water flow routes

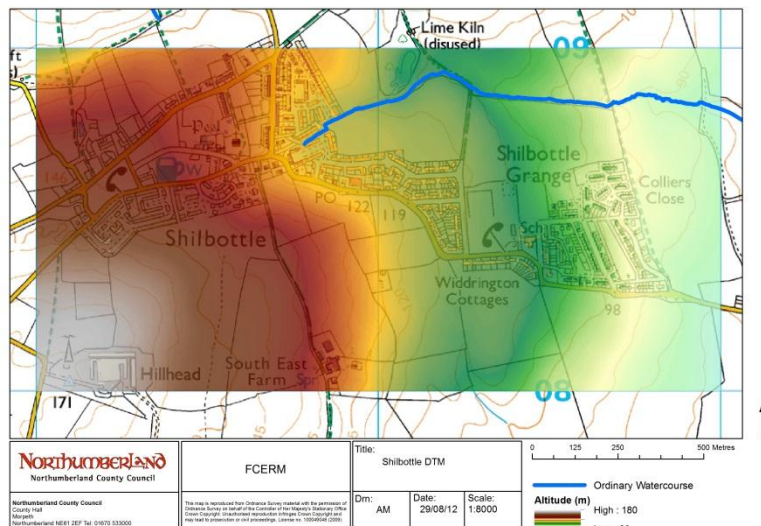


Figure 2 - Shilbottle Digital Terrain Model

### Sign Off

Drafted by: Aaron McNeill, FCERM Assistant Engineer  
Approved by: Trevor Dixon, FCERM Policy Officer

Date

20/08/12

RMA Notification: EA ☒ NWL ☒ Other ☐ (please specify)