

# Flood Investigation Report

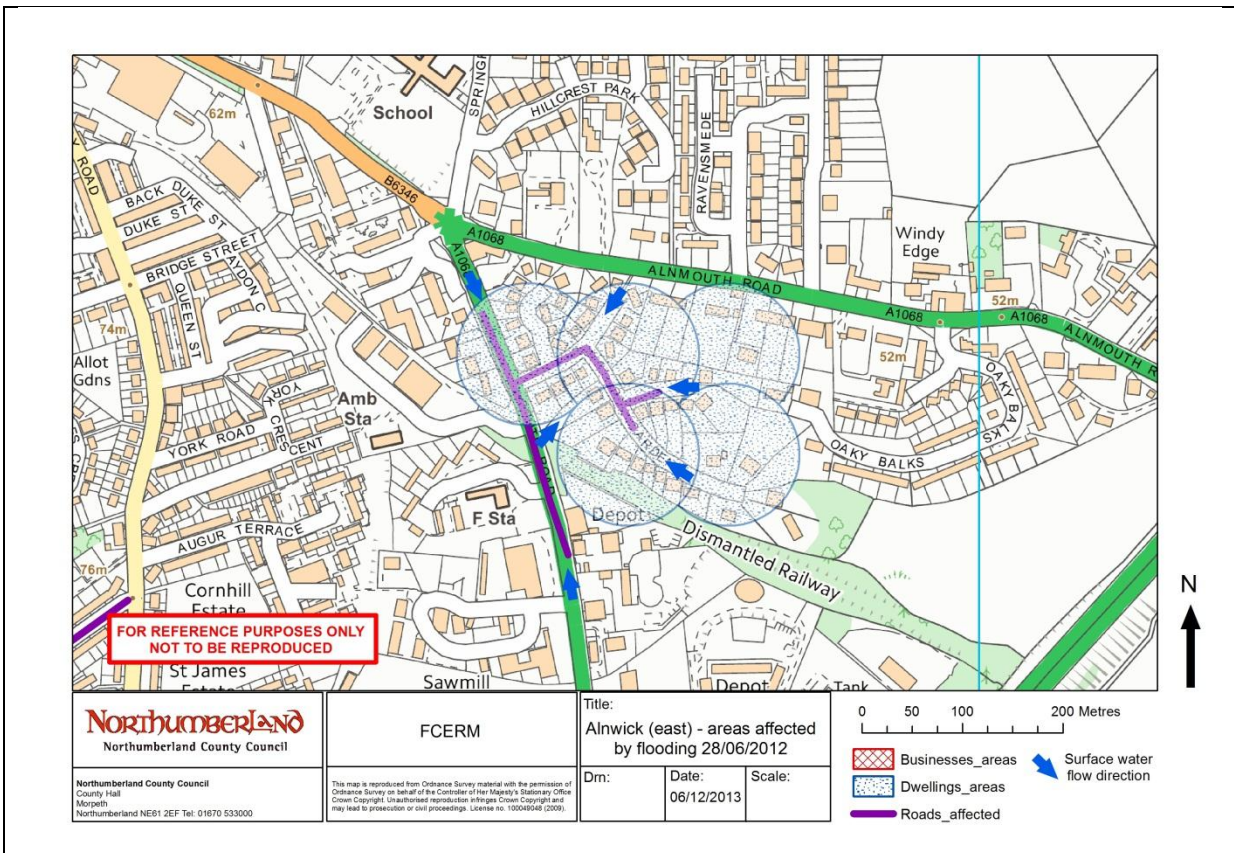
## 4.2.1

Location: **Alnwick (east)** 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"/>

<b>Impacts</b>	<b>Residential</b>	<b>Business</b>	<b>Other Buildings</b>	<b>Roads</b>	<b>Critical Infrastructure</b>
(number)	<b>8</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>



### Description

Heavy rain on 28 June 2012 resulted in the flooding of many properties in the east of Alnwick. The main residential area affected was that of Royal Oak Gardens. The flooding of Royal Oak Gardens occurred as a result of surface water runoff and insufficient capacity within the drainage system that was unable to cope with the large rainfall event.

Surface water runoff to Royal Oak Gardens occurs in three main directions. Direct runoff from the fields north of Royal Oak Gardens, runoff from adjoining streets that are at a higher elevation and runoff accumulating in South Road to the west that overflows through the back gardens of some properties in Royal Oak Gardens.

It is the third of these sources that has seen the most significant volume of surface water accumulate in Royal Oak Gardens. There is a prominent dip in the road along South Road; water naturally flows from the north and the south into this depression. On this occasion the rainfall was too intense and water levels exceeded the height on the road kerbs. This led to water flowing in an easterly direction through the back gardens of some properties on Royal

Oak Gardens and finally into the road.

To the north of Royal Oak Gardens there is a footpath that links this road to Alnmouth Road. This footpath channelled some surface water that accumulated on the higher ground at Alnmouth Road down into Royal Oak Gardens.

The volume of water overwhelmed the sewer network system which consequently saw the flooding of properties. There was one report of the backup of sewage affecting one property. There were reports of gulleys not connecting properly to the main sewer network and the network not working as efficiently as it conceivably could.

It was reported that this was the third time in circa twenty years that some of the properties on Royal Oak Gardens have experienced flooding with a similar event occurring in 1994.

**RMA Actions:**

<b>NCC</b>	<i>Exercised:</i> Carried out Flood Investigation Report. Gullies on Alnmouth Road and South Road have been cleaned post 28 <sup>th</sup> June.
	<i>Proposed:</i> Investigate funding opportunities for further study

<b>EA</b>	<i>Exercised:</i>
	<i>Proposed:</i>

<b>NWL</b>	<i>Exercised:</i>
	<i>Proposed:</i>

<b>Other</b>	<i>Exercised:</i>
	<i>Proposed:</i>

## Additional supporting information

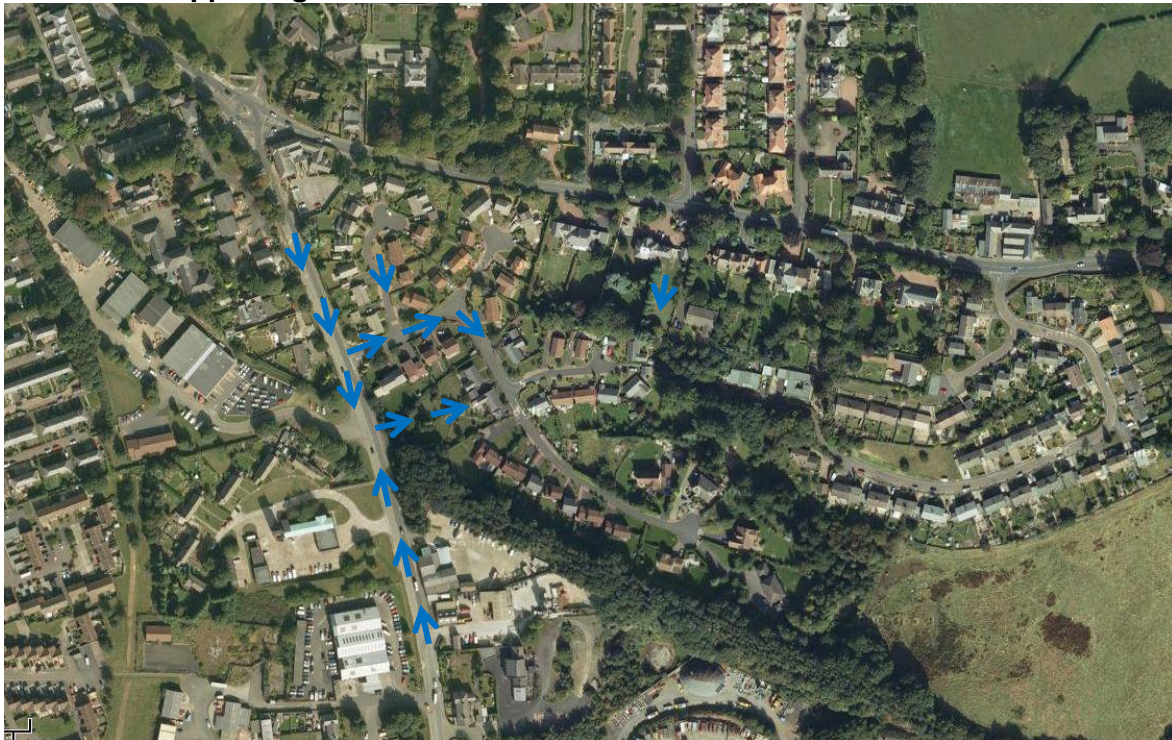


Plate 1: Flow paths in and around Royal Oak Gardens, Alnwick



Plate 2: Water flowing from South Road through rear gardens on Royal Oak Gardens

### **Sign Off**

Drafted by: James Hitching  
Approved by: Aaron McNeill

### **Date**

21/08/12

RMA Notification: EA  NWL  Other  (please specify)