

Lead Local Flood Authority
Section 19 (Flood and Water Management Act
2010)
Flood Investigation Report

Report Title:

The Street, Great Barton

Report Reference:

FW2021-1071

	Name	Date
Lead Officer:	<i>Hannah Purkis</i>	
Created by:	<i>Hannah Purkis</i>	<i>19-02-2021</i>
Checked by:	<i>Simon Curl</i>	<i>11-03-2021</i>
RMA Review:	<i>Anglian Water Services SCC Highways</i>	<i>09-04-2021</i>
Approved by:	<i>Matt Hullis</i>	<i>26-04-2021</i>
Date Published		<i>30-04-2021</i>

1.0 Suffolk County Council as a Lead Local Flood Authority (LLFA) has determined that in accordance with the criteria, it considered it necessary or appropriate to carry out an investigation into this flood event in accordance with Section 19 (1) of the Flood and Water Management Act 2010, and in accordance with Section 19 (2) of the Flood and Water Management Act 2010, to publish the results and notify the relevant risk management authorities (RMAs).

2.0 Reference: FW2021-1071

2.1 Location: The Street, Great Barton

2.2 Date of Most Recent Flood Event: 24/12/2020

2.3 Reported to SCC Date: 24/12/2020

2.4 Investigation Commencement Date: 16/2/2021

2.5 Criteria for investigation:

Criteria for an investigation (as per Appendix D of the Suffolk Flood Risk Management Strategy):	✓/X
There was a risk to life as a result of flooding.	X
Internal flooding of one property (domestic or business) has been experienced on more than one occasion.	✓
Internal flooding of five properties has been experienced during one single flood incident.	X
Where a major transport route was closed for more than 10 hours as a result of flooding.	X
Critical infrastructure was affected by flooding.	X
There is ambiguity surrounding the source or responsibility of a flood incident.	✓

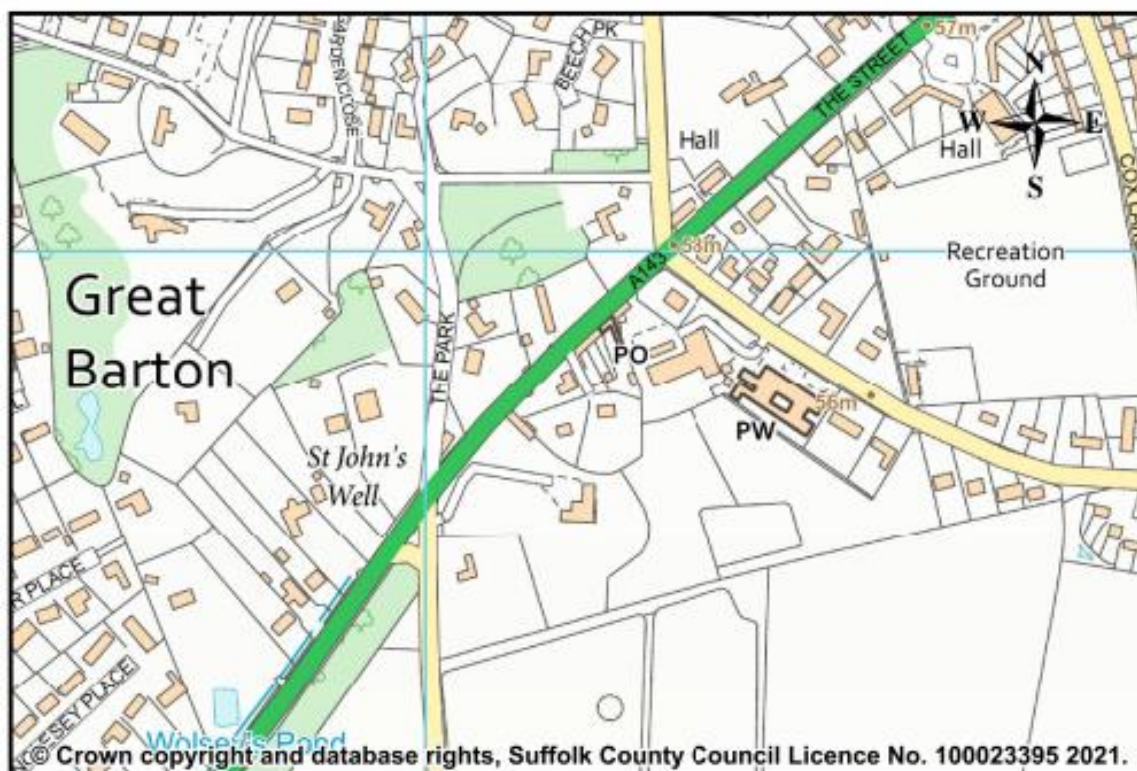


Figure 1 - Investigation Area Map

2.6 OS Grid Reference: TL 89095 66882

2.7 Extent of flooding:

Multiple incidents of flooding within a single property located on The Street, Great Barton. Floodwaters encroached onto garden areas, driveway, private access road and internally in May 2017 and December 2020.

2.8 Effect of flooding:

May 2017: Ground floor of the property flooded with foul effluent and surface water to a depth of approximately 100mm during the first incident.

December 2020: Internal flooding of surface water to a depth of 150-225mm. This resulted in reported safety issues with electrical services and the customer being unable to use the toilets in property. The customer was rehoused in temporary accommodation over the festive period.

2.9 History:

The property was first recorded to have flooded in May 2017, shortly after the occupant first moved in. Foul and surface water reported to flood internal areas. Anglia Water attended site and retro-fitted non-return valves to the combined network located within the private access road for at least 2 No. properties. The subsequent flooding incident has not involved foul effluent.

Several highways flooding incidents have been recorded in the adjacent highway since 2017 but haven't been reported to have encroached on the property or its garden.

The most recent occurrence of flooding, in December 2020, comprised surface water runoff only and again internal flooding was reported.

2.10 Sources & Cause of Flooding:

Foul effluent and surface water originating from a combined Anglian Water sewer in access road to the property is very likely to have caused the first flooding incident in May 2017. This is evidenced by the fitting of the non-return valve preventing any further foul effluent flood related incidents.

The flooding in December 2020, comprised surface water only. The exact source is unknown. Possible sources include:

- Significant rainfall event overwhelming drainage systems locally,
- overland flows from adjacent areas including highways,
- shallow groundwater levels limiting infiltration to ground and
- potential restriction of surface water flows into combined sewer as a result of the non-return valve, which in turn prevented foul effluent from causing flooding in December 2020.

2.11 Additional Information:

Home insurers and Anglian Water had been contacted as of 24th December. Customer was unable to remain in property and was rehoused in temporary accommodation during flooding incident, which took several days to subside.

Anglian Water stated that they attended site following December 2020 flooding incidents and reported all manholes to be empty. Customer who reported incident was not at home and thus investigation couldn't be continued further.

Highway gullies were reported to be surcharging during the storm event resulting in flowing water in The Street, accumulating in areas.

Customer and neighbouring property(ies) report seasonal shallow groundwater.

Customer and neighbouring property(ies) report the presence of a potential culverted watercourse locally, this may be an unrecorded sewer/drain, however there is no evidence of any historic watercourses locally that may have been culverted.

3.0 Risk Management Authority & Relevant Flood Risk Function:

Anglian Water Services

SCC – LLFA

SCC – Highways Authority

4.0 Recommendations:

Actions		Responsible Authorities	Timescale for response	Progress
1.	Fit non-return valve to combined sewer to protect property	Anglian Water Services	Immediately	Completed
2.	Cleanse Anglian Water sewer	Anglian Water Services	Immediately	Completed
3.	Explore potential options for property level resilience measures and funding opportunities	Property Owners as advised by SCC - LLFA	Prior to summer 2021 ideally, vital prior to autumn/winter season 2021	N/A
4.	Ensure any surface water conveyance /storage features are clear and functioning	Riparian Owners adjacent to the property – supported by SCC LLFA as required	Prior to summer 2021, vital prior to autumn/winter season 2021	
5.	Investigate (CCTV survey) and record sewer network in The Street and access road	Anglian Water Services	6 months	
6.	Cleanse highways gullies and investigate they are functioning as designed to minimise overland flow off the highway onto the site	SCC – Highways Authority	6 months	
7.	Action any points of concern highlighted by the CCTV survey	Anglian Water Services	If the above investigation identifies the need	