

APPENDIX P

SECTION 19 REPORT – KIRKLINGTON – STORM BABET, OCTOBER 2023

Introduction:

Section 19 of the Flood and Water Management Act 2010 states:

1. On becoming aware of a flood in its area, a lead local flood authority must, to the extent that it considers it necessary or appropriate, investigate:
 - (a) Which Risk Management Authorities (RMAs) have relevant flood risk management functions.
 - (b) Whether each of those RMAs has exercised, or is proposing to exercise, those functions in response to the flood.
2. Where an authority carries out an investigation under subsection (1) of Section 19 it must:-
 - (a) Publish the results of its investigation.
 - (b) Notify any relevant RMAs.
3. The objective of this report is to investigate which RMAs had relevant flood risk management functions during the flooding in October 2023 and whether the relevant RMAs have exercised, or propose to exercise, their risk management functions (as per section 19(1) of the Flood and Water Management Act 2010).
4. The Risk Management Authorities for this area of Nottinghamshire are Newark and Sherwood District Council (NSDC), Nottinghamshire County Council (NCC) as Lead Local Flood Authority (LLFA), VIA East Midlands Ltd as Highways Authority on behalf of NCC & Severn Trent Water Ltd. (STW).
5. It should be noted that this duty to investigate does not guarantee that flooding problems will be resolved and cannot force others into action.

Background

6. Kirklington is a village in the Newark and Sherwood District of Nottinghamshire with a population of approximately 400 people according to the 2011 census.
7. On the 20th of October, during Storm Babet, Kirklington suffered a flood event caused by sustained heavy rainfall. Between the 18th and 20th of October, 124mm of rainfall was recorded at the Staythorpe rain gauge (Figure 1).
8. This storm came after a prolonged period of persistent rain which had saturated the ground resulting in flooding of roads and properties quicker than they would following a dry period.

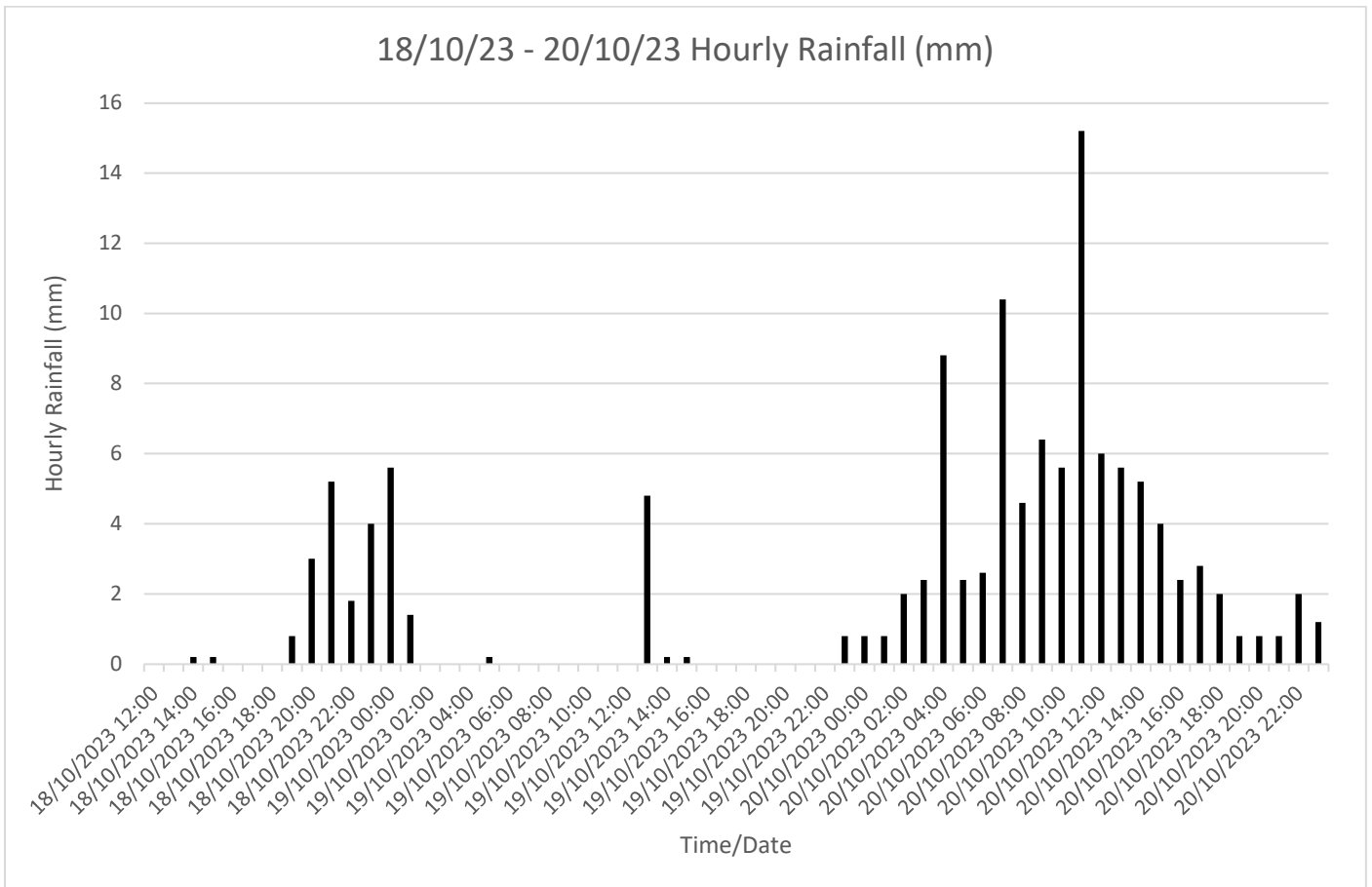


Figure 1: Staythorpe Hourly Rainfall 18th October 2023.
Data supplied by the Environment Agency.

9. Internal property flooding affected different areas with Kirklington; Main Street (4 properties), Church Lane (1 property), Southwell Road (3 properties), and The Crops (2 properties).
10. Figures 2 and 3 highlight the areas affected.



Figure 2: Reference View for affected area in Kirklington: Main Street and Church Lane.



Figure 3: Reference View for affected area in Kirklington: Southwell Road and The Crops.

11. Evidence as to the causes of the flooding have been supplied by the local community. Figure 4 below is an extract from the Environment Agency's surface water flood risk maps that shows specific areas of risk across Kirklington.

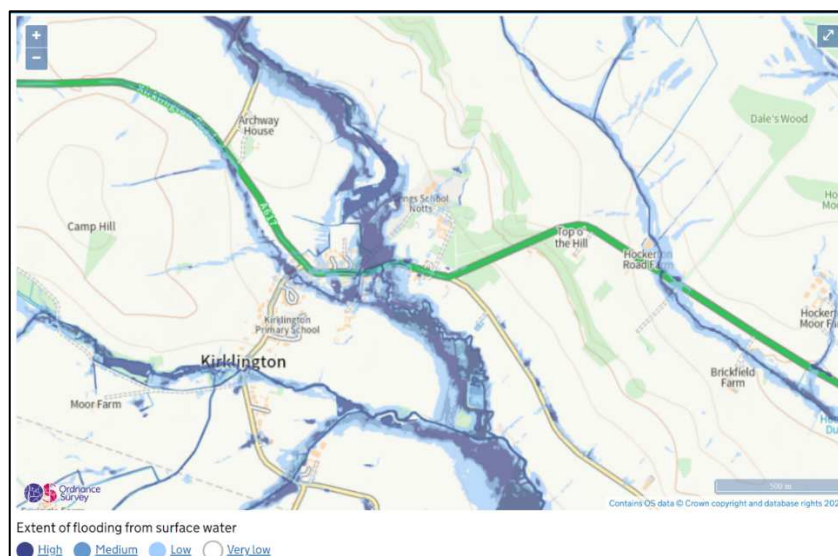


Figure 4: Environment Agency: Surface Water Risk Mapping for Kirklington

12. Main Street (A617 Flooding)

During Storm Babet substantial surface water ran off agricultural land both north and south of the A617, which subsequently flowed down the A617 towards the village. This flow overtopped the highway in areas with low and dropped kerbs resulting in various instance of internal property flooding across Main Street. The flooding was further exacerbated by additional flows from the east of the A617 with further flows from adjacent agricultural land entering the A617. Figure 5 below highlights the flow of surface water during the event.



Figure 5: Surface Water flows in Kirklington.

13. Within Kirklington there are 4 named watercourses: River Greet, Edingley Beck, Northern Drain and Southern Drain. During this event one property was affected due to the overtopping of the Northern Drain, 2 properties affected as a result of the Southern Drain , 2 properties affected as a result of the Edingley Beck and 1 property as a result of the River Greet. In all these instances this was caused by the overtopping of watercourses due to the quantity of water falling in and around the catchment.

Risk Management Authorities and their responsibilities

14. Nottinghamshire County Council.

a) Lead Local Flood Authority.

- i. Investigate significant local flooding incidents and publish the results of such investigations.
- ii. Play a lead role in emergency planning and recovery after a flood event.
- iii. As the Lead Local Flood Authority, we have a duty to determine which risk management authorities have relevant powers to investigate flood incidents to help understand how they happened, and whether those authorities have or intend to exercise their powers.
- iv. By working in partnership with communities, Lead Local Flood Authorities can raise awareness of flood risks.

- v. Lead Local Flood Authorities should encourage local communities to participate in local flood risk management.
 - b) Emergency Planning.
 - i. If a flood happens, all local authorities are 'category one responders' under the Civil Contingencies Act. This means they must have plans in place to respond to emergencies and control or reduce the impact of an emergency.
 - c) Highway Authority (VIA East Midlands Ltd. on behalf of Nottinghamshire County Council).
 - i. Maintenance of the public highways including highway drainage assets.
15. Newark and Sherwood District Council
- i. Category one responder under the Civil Contingencies Act. This means they must have plans in place to respond to emergencies and control or reduce the impact of an emergency.
16. Severn Trent Water Ltd.
- a) Maintenance of the public sewerage system.
 - b) As a water and sewerage company, STW manage the risk of flooding from their water supply and sewerage facilities. This includes;
 - Surface water sewers – these carry rainfall and surface water away from properties to watercourses;
 - Foul water sewers – these carry wastewater away from properties to be treated;
 - Combined water sewers – these drain both wastewater and surface water from properties along with run off from highways.
 - Managing the impact of flooding to their networks by ensuring their systems have the appropriate level of resilience to flooding.
 - Engage with RMAs on how water and sewerage company assets impact on local flood risk.
 - STW are Category 2 responders under the Civil Contingencies act, providing emergency response and supporting the management of flooding events

Risk Management Authority Responses to Flood

17. The following lists the actions taken by each Risk Management Authority in response to the flooding both in the immediate aftermath as well as in the longer term:

18. Nottinghamshire County Council.

Officers from across the County Council played a key role in the response to the Major Incident that had significant impacts across the county. The following lists the key actions taken by Nottinghamshire County Council:

- a) Initiated its Community Flood Recovery Grant to support individuals affected by internal flooding as a short-term recovery aid.

- b) Attended site after flooding occurred to verify scale of internal flooding, offer support, guidance and advice to affected residents and businesses.
- c) Information gathered on site was fed back to relevant RMA's and partners.
- d) Collated flood impact data from other RMA's and partners and published verified data on Resilience Direct.
- e) Visited flood affected residents and businesses to establish sources and mechanisms of flooding and severity of flood impacts.
- f) Chaired and attended Strategic / Tactical / Recovery Coordination Group meetings initiated by the Local Resilience Forum.
- g) Provided 24-hour support through the Emergency Planning team.
- h) Carried out relevant actions requested by Strategic / Tactical / Recovery Coordination Groups.
- i) Initiated and led the Section 19 Flood Investigation, including liaison with relevant RMA's, parish councils, community groups, affected residents and businesses.
- j) Leading on procurement and delivery of DEFRA Property Flood Resilience Repair Grant Scheme.
- k) Liaised with and supported existing community flood signage schemes during the flooding.
- l) Delivered sandbags to affected areas and communities.
- m) Closed 77 roads across Nottinghamshire to promote road safety and avoid additional flood damage to at risk areas.
- n) Supported District and Borough partners by sharing resources during the emergency response.
- o) Utilised existing communication channels to update the public, partners and Elected Members with key messages during the event.
- p) Met with community representatives to discuss the flooding and consider ways of supporting the community.

19. Newark and Sherwood District Council:

- a) Played a full and intensive role alongside other agencies and community representatives.
- b) Worked to deliver whatever support was possible from the skills and resources available.
- c) Ahead of the storm the council stood up a team of managers to prepare for potential impacts across the district. A large team of staff was formed from across departments prioritising the flood response. Staff worked throughout the flood event, working beyond the normal working hours and days.
- d) Staff visited impacted communities and vulnerable individuals.
- e) Many hundreds of aqua sacs were delivered and people were helped to evacuate their homes.
- f) The council prepared to support evacuated residents and provided emergency accommodation when necessary.
- g) The communications officers worked with other agencies to warn and inform the public of the risks and the support that was available. Daily briefings were also provided to councillors and community leaders.
- h) As the flood event changed from the surface water flooding to the continued risk of river flooding the council commenced actions to help clean up roads , paths and remove bulky waste from flooded homes.
- i) Staff contacted affected individuals to identify humanitarian needs and offer direct support or liaised with other agencies to find the appropriate assistance.

- j) Due to the predicted extreme levels for the River Trent, the council coordinated in person visits to communities at high risk of flooding to reinforce the need to take immediate action to prepare for potential flooding.
 - k) Once the risk of further flooding had passed the council commenced its role in meeting the recovery needs of impacted communities and individuals. Grant funding is being delivered to those eligible.
 - l) An internal and multi-agency debrief was conducted to identify any lessons learned.
 - m) Since the flood the council has worked with parish and town councils to restock stores of aqua sacs.
20. Severn Trent Water
- i. Actively engaged with the Section 19 flood investigations.
 - ii. Received reports regarding flooding from foul water sewer.
 - iii. Deployed tankers in January.
 - iv. Will undertake further investigations into pumping station.

Additional information and future actions

21. The local community spirit and resilience during the flooding must be recognised as without their efforts the impacts of the flooding could have been worse. They provided a significant input into the writing of the Section 19 report and their local knowledge and understanding of the flooding will be an essential part of moving forward.
22. All the Risk Management Authorities involved in this event are committed to continuing the investigations into the causes of this incident. Those investigations may identify further actions not contained within this report.
23. As the Lead Local Flood Authority we have witnessed and have experience of how flooding devastates communities. The most vulnerable in the community will be our priority. NCC will continue to work closely with partners and communities to identify ways of proactively reducing the risk, likelihood and consequences of future flooding events.
24. NCC will continue to develop its Flood Warden / Road Closure training programme and support given to community volunteer groups to help ensure they operate as effectively and safely as possible. A community flood signage scheme is being developed in Bilsthorpe with support from NCC. Officers for the Flood Risk Management team are working with the community to help them develop a local flood action group.
25. The Flood Risk Management team will look at the suitability of its Property Flood Resilience Programme for communities affected by Storm Babet and will take recommendations through the Cabinet Member later this year for consideration.
26. NCC will work with its partners to look at ways of strengthening the enforcement of riparian responsibilities alongside developing our asset inspection process.