

## **Preliminary flood risk assessment: North Lincolnshire Council**

**This addendum by North Lincolnshire Council (2017) updates the council's preliminary flood risk assessment report published in 2011. Read the addendum in conjunction with the [preliminary assessment report](#).**

### **Addendum**

The preliminary flood risk assessment (PFRA) and flood risk areas (FRAs) for North Lincolnshire Council were reviewed during 2017, using all relevant current flood risk data and information,

### **Past flood risk**

There have not been any significant flood events (arising from local sources of flooding) in North Lincolnshire since 2011.

Our current understanding of significant (local) flood risk has changed however, as a result of works undertaken in response to the 2007 event. These works have reduced risk in those areas compared to that presented in the 2011 PFRA. These reductions in risk are accounted for in the 2016 Local Flood Risk Management Strategy (LFRMS).

### **Future flood risk**

Local Flood Risk Extents (LFREs) were created for the 2011 PFRA. These were updated for the 2016 LFRMS based upon new information on local flood risk, such as the Environment Agency's updated Flood Map for Surface Water (uFMfSW), latest Environment Agency Flood Zones (for Ordinary Watercourses), and works undertaken by North Lincolnshire Council and our Risk Management Authority partners (listed in the LFRMS) to reduce the likelihood of historic events from occurring again. Overall, the new information indicates that the current risk of flooding from local sources in North Lincolnshire is slightly reduced compared to that presented in the 2011 PFRA.

New information on the potential impacts of climate change has been made available by the Environment Agency to inform this PFRA update review. A series of 'heat maps' were provided which were intended to indicate those areas likely to be at greatest risk of an increase in local flood risk as a result of climate change. The 'heat maps' provided a comparison between the risk during the present day 1% AEP event, and the present day 0.1% AEP event, and intend to show how susceptible an area could be to an increase in rainfall intensity. This proxy comparison indicates a relatively low increase in flood risk in the future for the District as a whole – North Lincolnshire is ranked 67 out of 152 LLFAs in England). Further detail was provided on a 1km grid square basis, including a heat map showing the increase in people at risk of flooding from the 0.1% AEP rainfall event compared with the 1% AEP rainfall event. This suggests that no 1km grid squares within North Lincolnshire would be subject to an absolute increase in people at flood risk of greater than 1500 people (coloured red in the map) when comparing these two events. Four orange squares are indicated (501 to 1500 people) and 25 green (151 to 500). The majority of the 1km squares were coloured grey (1 to 150) or transparent (0).

Further analysis of the underlying data that fed into the ranking and the heat map has been undertaken as part of this update. The number of people (both residential and non-residential properties), and key services, predicted to be at risk during the 0.1% AEP event, indicates that, in future, Scunthorpe may qualify as a Flood Risk Area. This is based upon the assumption that the present day 0.1% AEP event may represent the 1% AEP event in future, that the existing criteria for classifying a FRA is retained and no mitigation is put in place in the meantime. No other area in North Lincolnshire Council would meet the current classification criterion of at least 5 x 1km squares exceeding the given threshold within a 3x

3km grid square. A Surface Water Management Plan for Scunthorpe is currently in preparation, including future flood risk and climate change.  
Long Term Development

The primary long term development in North Lincolnshire is the Lincolnshire Lakes Development located on the western edge of Scunthorpe and the River Trent. This project will create a number of high quality, sustainable village communities set within an attractive waterside environment. The Lincolnshire Lakes Area Action Plan (AAP) sets out the planning policy framework to deliver the Lincolnshire Lakes development in a consistent and properly planned way. Policy F1 covers the Strategic Flood Mitigation Strategy, and Policy L2 covers the Strategic Drainage Strategy. Allowances for climate change have been incorporated into the policies. The AAP was adopted on 10 May 2016. As a statutory consultee on all major developments, North Lincolnshire will be consulted on the Flood Risk Assessments and Drainage Strategies required from the Developer(s). At the present time, a number of flood risk and drainage strategies are currently being undertaken for this development, which will include consideration of future flood risk and climate change.

### **Flood risk areas (FRAs)**

No FRAs have been identified in the North Lincolnshire lead local flood authority (LLFA) are for the purposes of the Flood Risk Regulations (2009) second planning cycle.

### **Other changes**

There have been no changes to the governance or structure of Flood Risk Management in the North Lincolnshire Council area since the original PFRA report in 2011.

The Humber River Basin District Flood Risk Management Plan (2015 to 2021), published by the Environment Agency on 17 March 2016<sup>1</sup> covers all sources of flooding in the wider Humber Catchment.

### **Annexes**

The annexes to the preliminary assessment report have been reviewed and updated to show relevant new information since 2011. No updates to Annex 1 (Past Floods) and 3 (Local Flood Risk Areas) were required. Annex 2 (Future Floods) has been updated to reflect the information utilised in the Local Flood Risk Management Strategy 2016.

Appendix A – Preliminary Flood Risk Assessment 2017 review: Completed self-assessment

### **Annexes to the PFRA**

Annex 1: Past Floods – unchanged from the 2011 PFRA

Annex 2: Future Floods – updated for this PFRA review

Annex 3: Flood Risk Areas – unchanged from the 2011 PRFA

**North Lincolnshire Council  
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<sup>1</sup> <https://www.gov.uk/government/publications/humber-river-basin-district-flood-risk-management-plan>