Laxton & Moorhouse Parish Council

Report author: David Sheard **Report to** Parish Council- Flooding Working Group **Date**: 14th November 2023 **Decision Required?** Starting point for discussion.

Subject: Flooding and Drainage Strategy

Summary of main issues

Highlight the current problems in the drainage system in the parish and the effects on properties and public areas.

Offer short-term, low-cost solutions

Suggest long term solutions

Purpose of this report

This report provides information for an informed discussion on the flooding and drainage problems within Laxton and Moorhouse, as highlighted recently by storm Babet.

It highlights, inexpensive solutions to solve some property flooding and explores options for larger future flood mitigation schemes.

Background information

Despite being in an elevated position in Nottinghamshire, **Laxton** is pretty much surrounded by higher farmland and consequently receives its surface water run-off. The catchment area includes West Field and Beth Shalom, to the West, moving round to near Wood Close farm, Ompton. Just below Kneesall, Kneesall Woods and Brockilow and Mill Field. Downstream from **Laxton**, **Moorhouse** receives all of the Laxton water and additional surface water run-off from South Field, Kneesall Woods, Laxton Woods and North woods. Geographically, the top of Laxton at Town End is around 30 metres higher than the bottom, at Kneesall Road/ Moorhouse Road. With another 10 metre drop to Ide and Moorgate farms.

Main issues

Laxton

Blocked drains and gulleys: - Water either not entering into the drainage system, or it comes out of the drainage system and back onto the road, threatening properties. **And** surface water running off the surrounding fields, onto the roads and threatening properties

Moorhouse

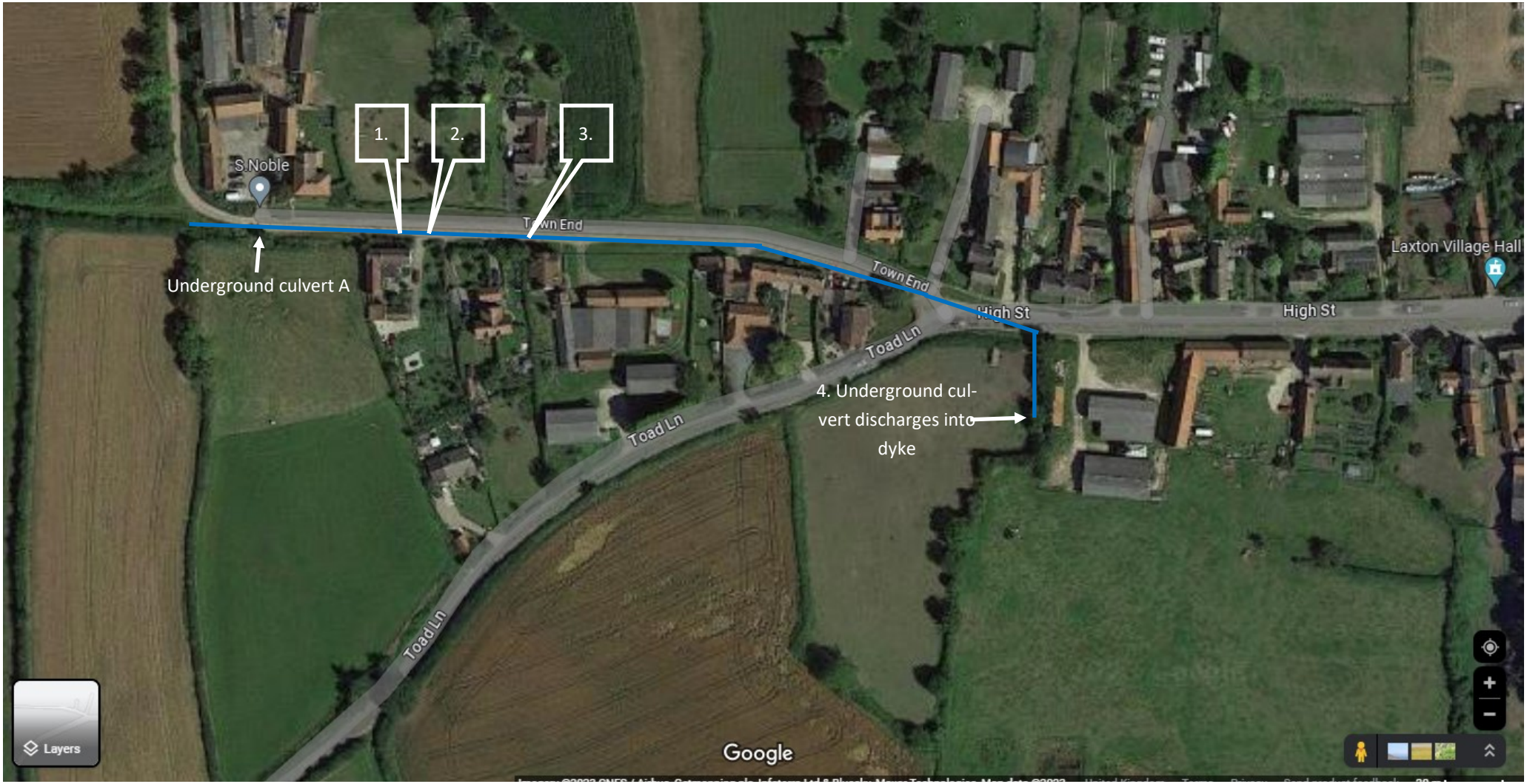
Large amounts of surface water from surrounding farmland, entering and overwhelming the Moorhouse Beck.

Recommendations

1. **Working drainage system, capable of managing all water that enters the system.**
2. **Small scale alleviation measures in the village to reduce the impact of surface water flooding.**
3. **Large scale mitigation measures, working with local farmers and landowners to store the surface water run-off in the fields surrounding the villages.**

Background documents

Photos of the various flooding and drainage problems, Ordinance survey map of the area., Environment Agency surface water flood mapping.


1.
2.
3.
S.Noble
Town End
Underground culvert A
Town End
High St
High St
Laxton Village Hall
Toad Ln
4. Underground cul-
vert discharges into
dyke
Toad Ln
Toad Ln
Layers
Google

Town End

Water emerging out of the verge, in 2 places, adjacent to Westlea, Town End.

Water emerging out of the verge, adjacent to Top Farm, Town End

Problem: Blockage of underground culvert forcing water out through weak points, back onto the highway adding to the surface water flooding further down the road.

Solution: Inspection of the underground culvert, removal of any blockages and repair as necessary

Town End (looking up)

Town End (looking down)

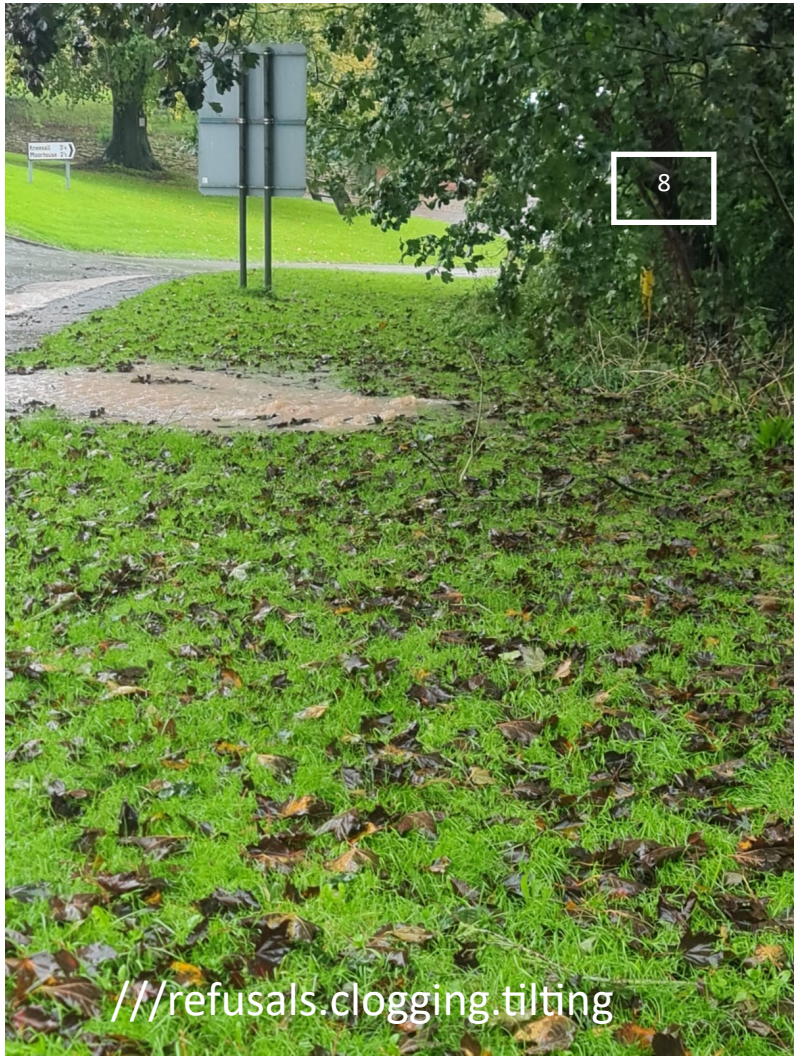
Holme View Farm Junction of Town End/ High Street

Red Area= potential surface water flooding

Of these properties

1. Holme View Farm
2. Blacksmiths Cottage
3. Cherry Tree Farm
4. Lilac Farm

Crosshill



Problem: Blockage of underground culvert forcing water out through weak points, back onto the highway adding to the surface water flooding further down the road.

Solution: Inspection of the underground culvert, removal of any blockages and repair as necessary

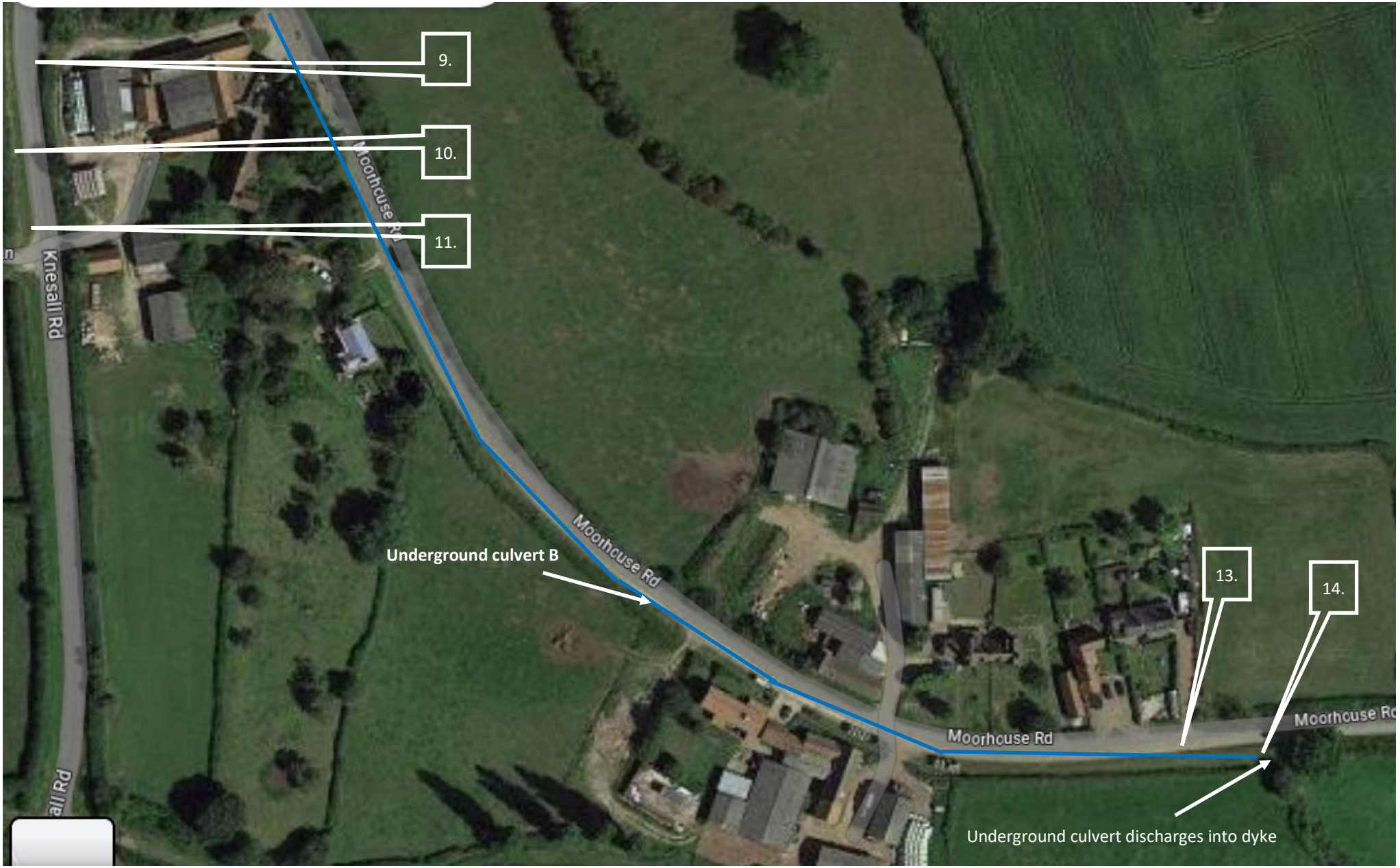
High Street

Blocked drain requires clearing

Main Street

Blocked drain requires clearing


Main St
Main St
KP Chauffeuring
Knesall Rd
Moorhouse Rd
Google


9.
10.
11.
Knesall Rd
Moorhouse Rd
Underground culvert B
Moorhouse Rd
13.
14.
Moorhouse Rd
Underground culvert discharges into dyke

Kneesall Road

Blocked drains requiring clearing to allow water to enter the drainage system and to reduce the impact of surface water flooding on adjacent houses.

Moorhouse Road

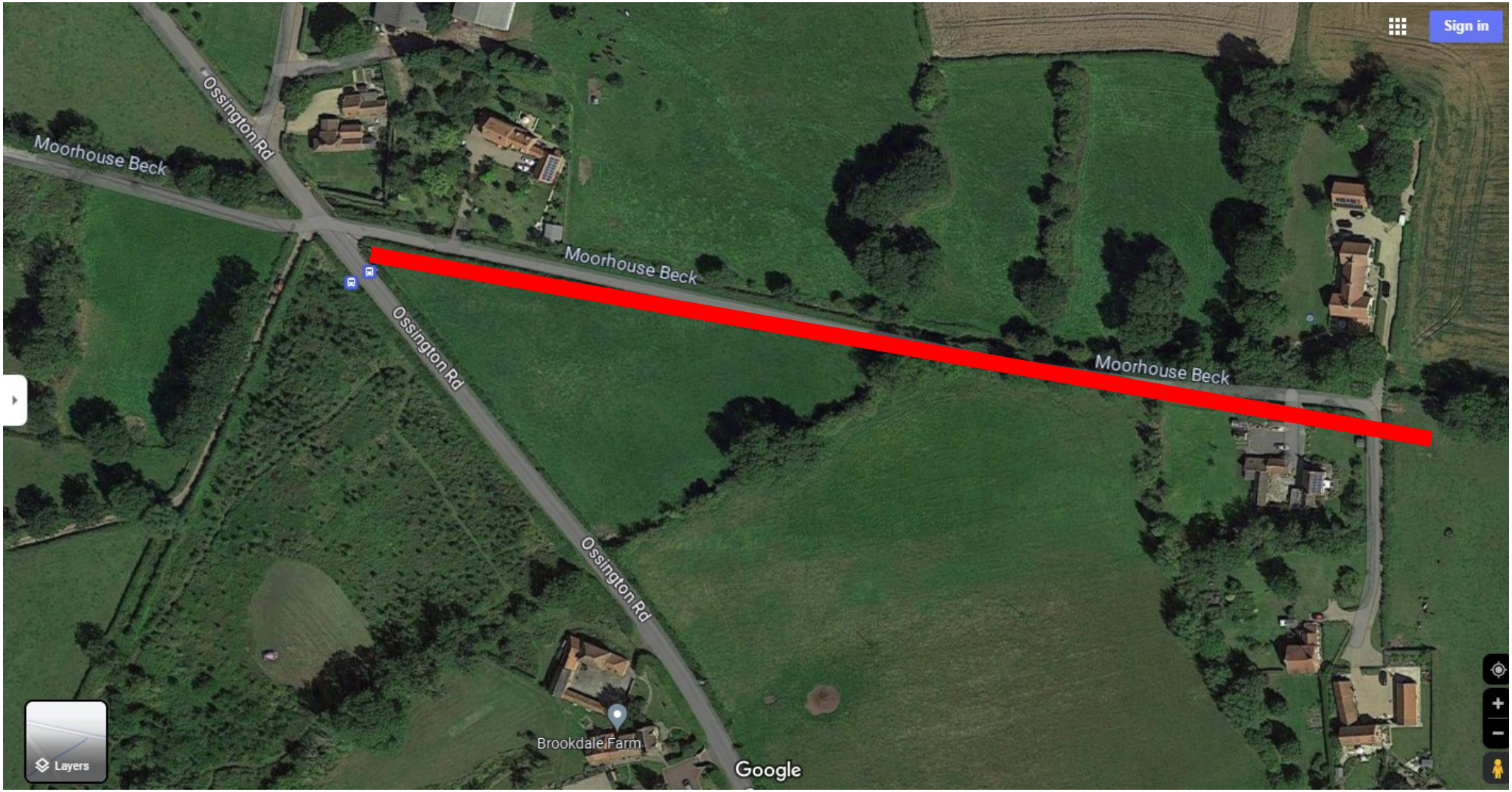

Knesall Rd
12.
Knesall Rd

Kneesall Road

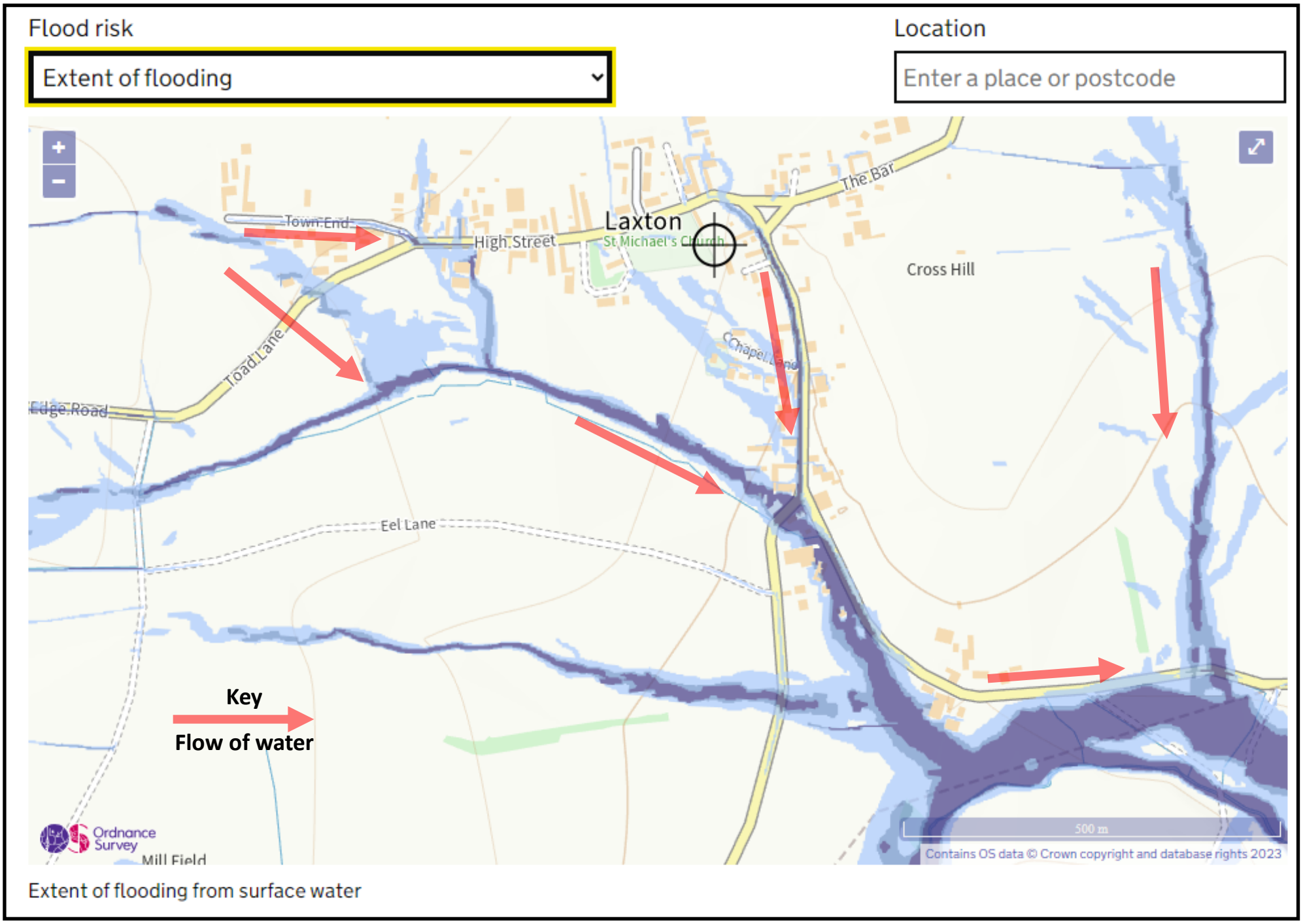
Problem: Lack of drainage on the road causes pooling of water on the road surface. Water overflows from the dike, crossing the road from Approx 300 mm deep in heavy rain.

Solution: Channel cut on the grass verge to allow the surface water to enter the dike, and/or create another drain on the other side of the road(the lower side).

Moorhouse Beck flooding in Moorhouse



Moorhouse Beck flooding in Moorhouse

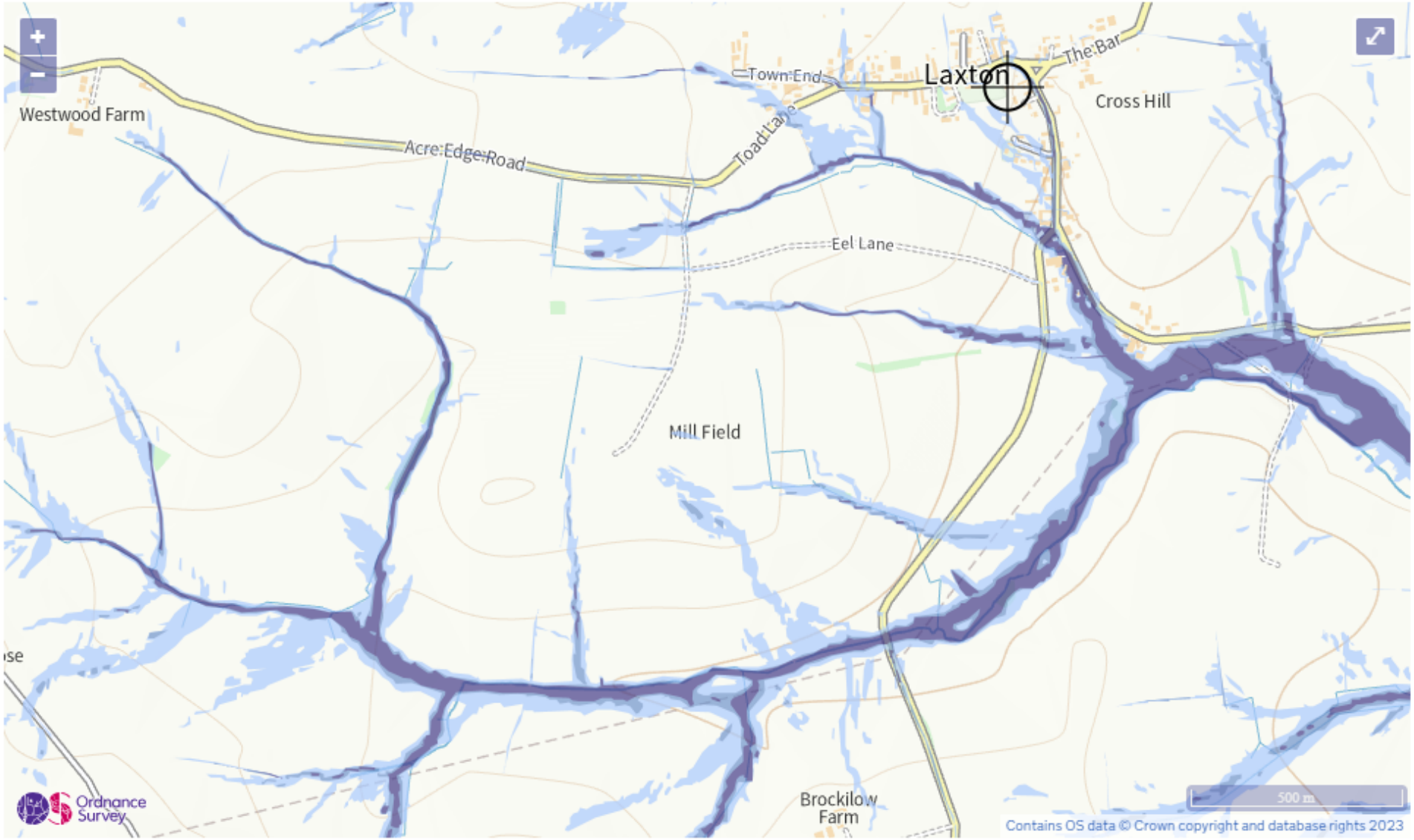

Flood risk
Extent of flooding
Location
Enter a place or postcode
Town End
High Street
Laxton
St Michael's Church
The Bar
Cross Hill
Toad Lane
Edge Road
Eel Lane
Mill Field
Key
Flow of water
Ordnance Survey
500 m
Contains OS data © Crown copyright and database rights 2023
Extent of flooding from surface water

Flood risk

Extent of flooding

Location

Enter a place or postcode



Extent of flooding from surface water

Flood risk

Extent of flooding

Location

Enter a place or postcode

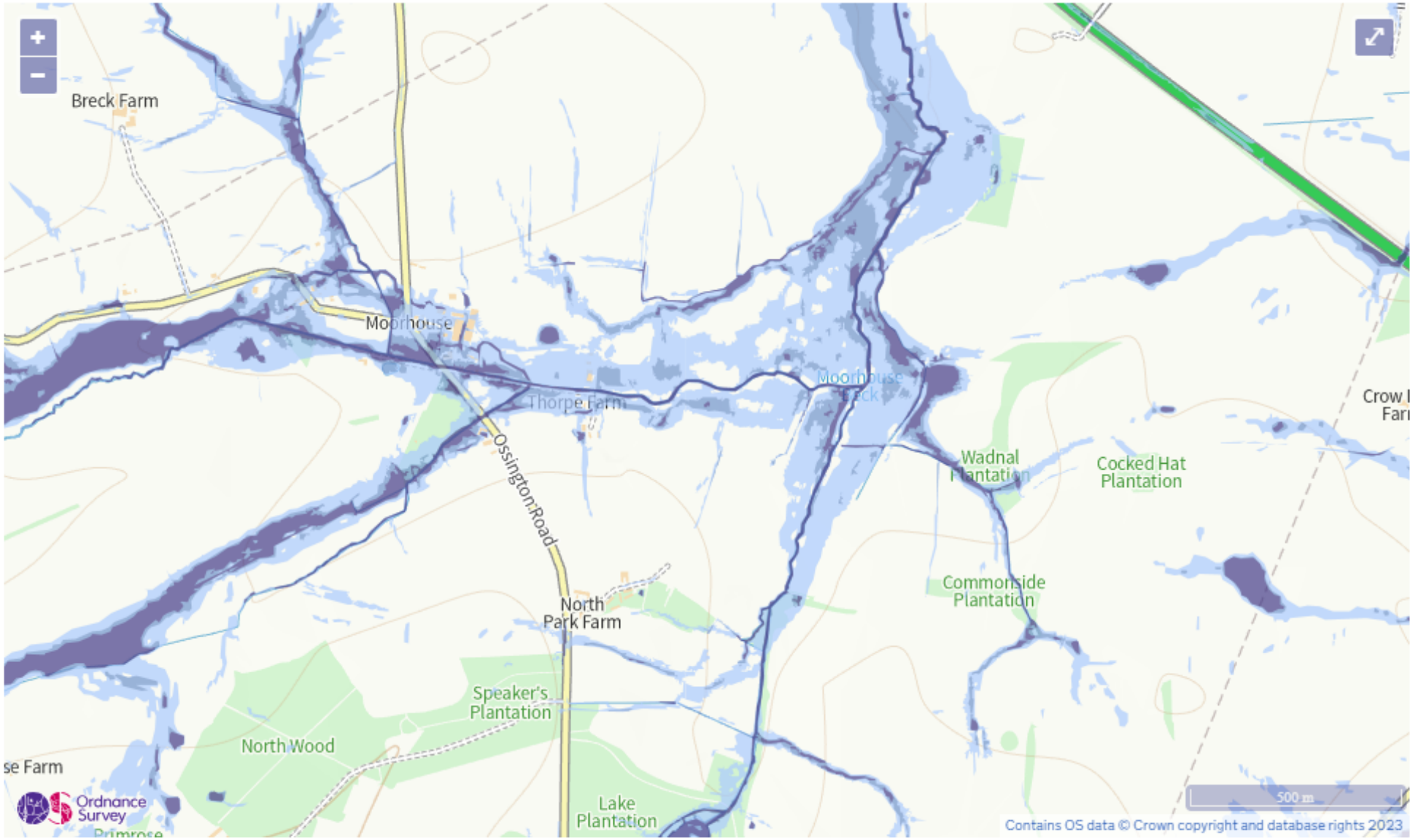
Extent of flooding from surface water

Flood risk

Extent of flooding

Location

Enter a place or postcode



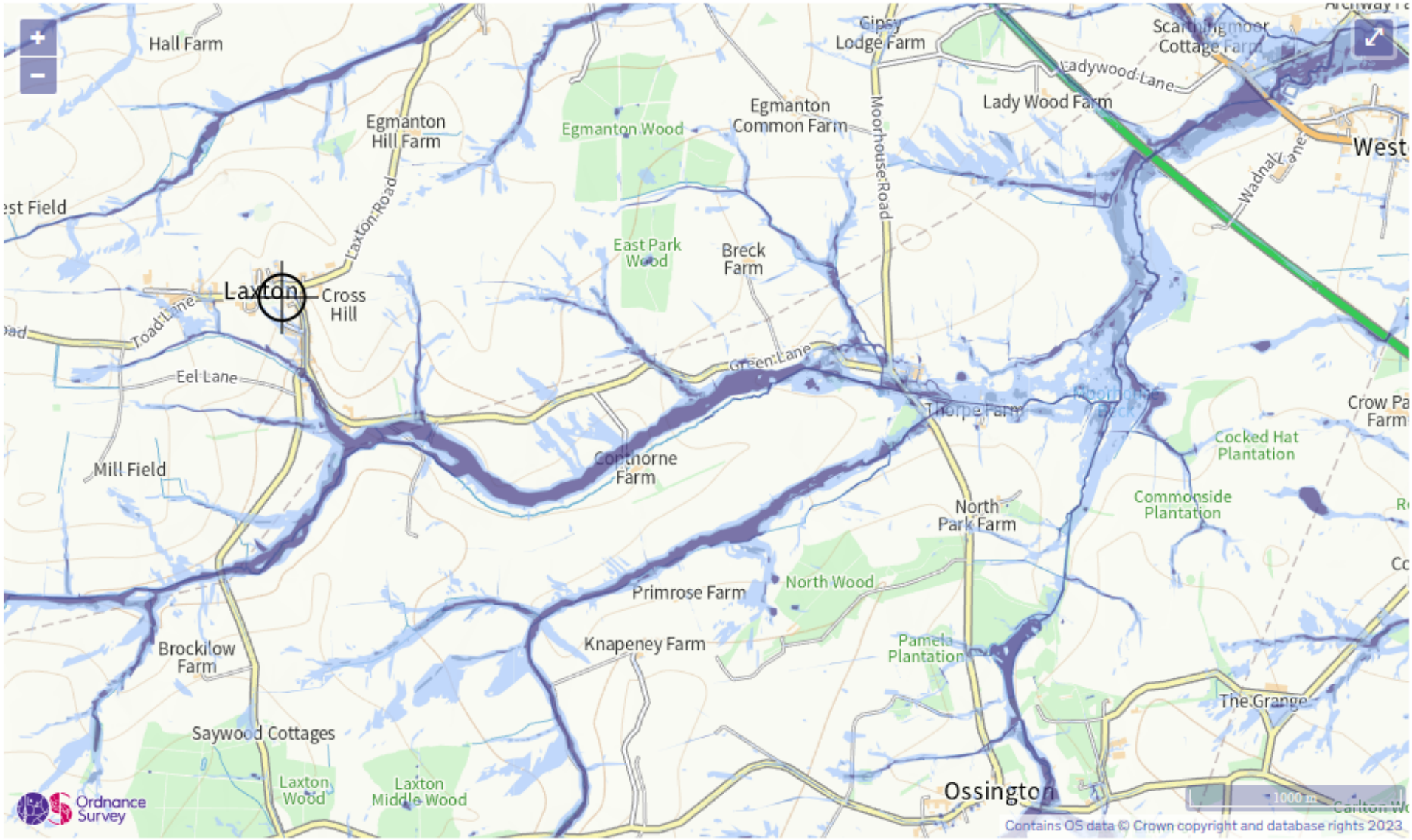
Extent of flooding from surface water

Flood risk

Extent of flooding

Location

Enter a place or postcode



Extent of flooding from surface water