

North Cave Catchment Partnership (working title!)

25 Feb 2020

Introductions (is recording OK?)

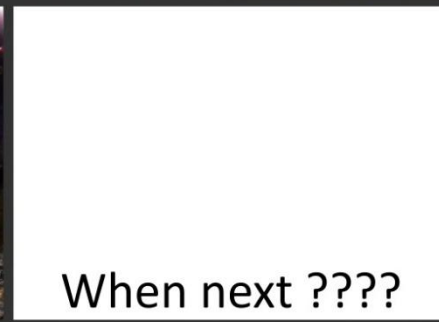
Presentation – the scope of the issue

General discussion

Next steps – Partnership?

Village Link

The Newsletter of Hotham, Everthorpe and North Cave
December 2019 - January 2020



Flooding - time for action?



Newbald 9 Feb



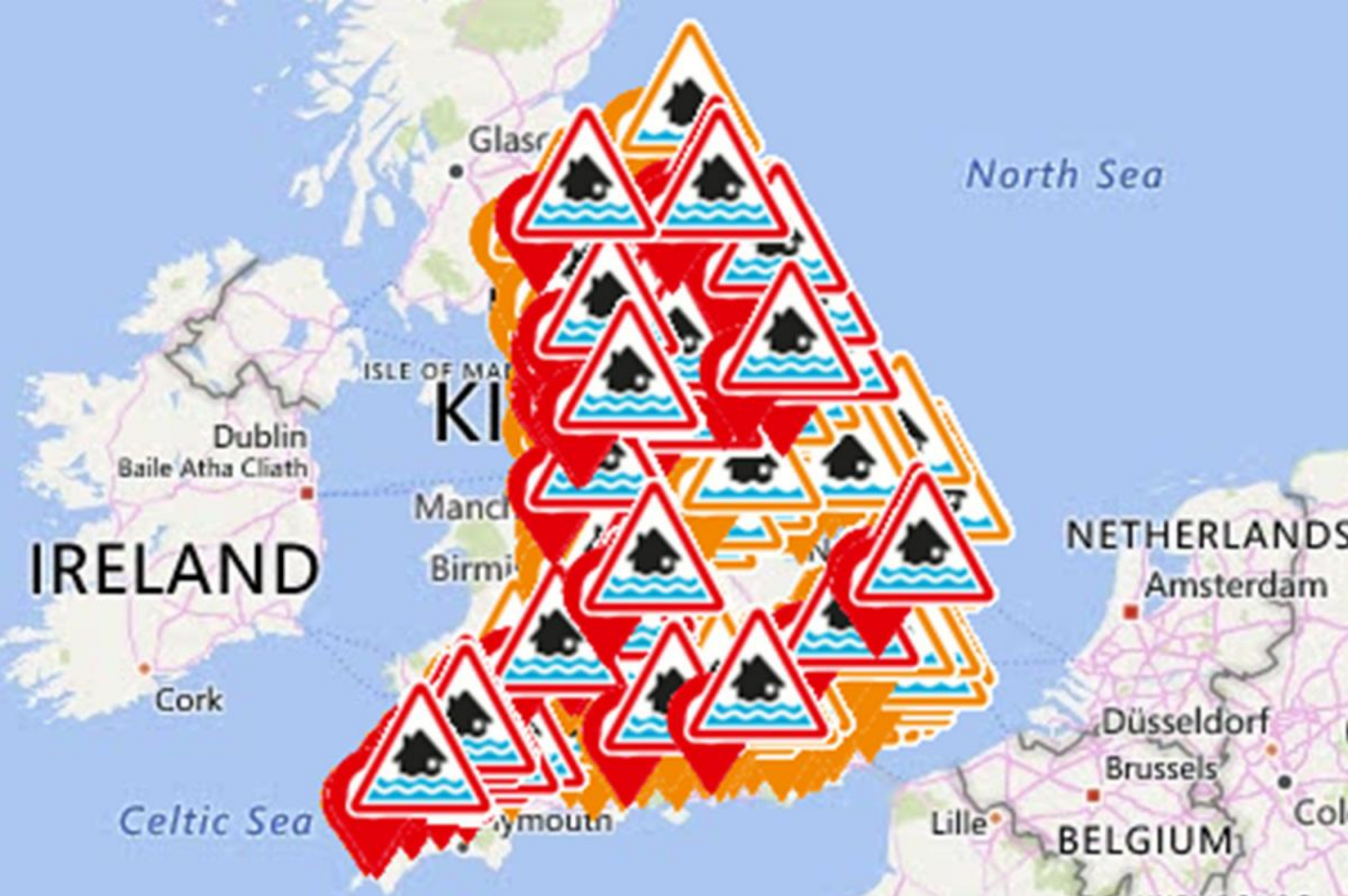
Nordham 16 Feb



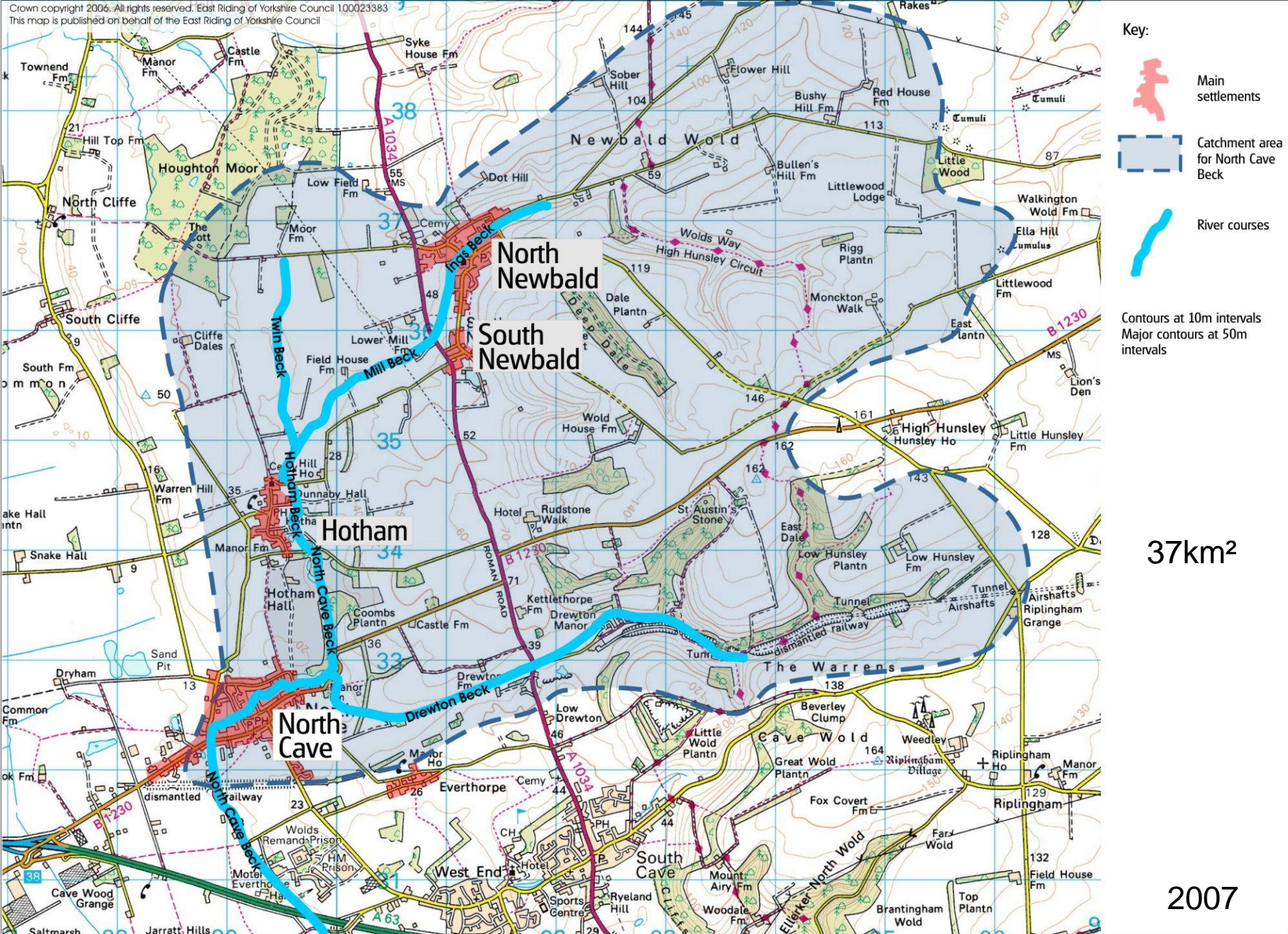
Ellerker 16 Feb



Everthorpe yesterday



Fluvial = from Rivers (becks)





Newbald

Hotham

North Cave



Hotham

Newbald

North Cave

Everthorpe

Drewton →

South Cave

Ellerker ↘

$$37\text{km}^2 = 37,000,000\text{m}^2$$

50mm rainfall (as on 14 November 2019) = 0.05m depth

$$0.05\text{m} \times 37,000,000\text{m}^2 = 1,850,000\text{m}^3 \text{ water}$$

= 740



2007



2007



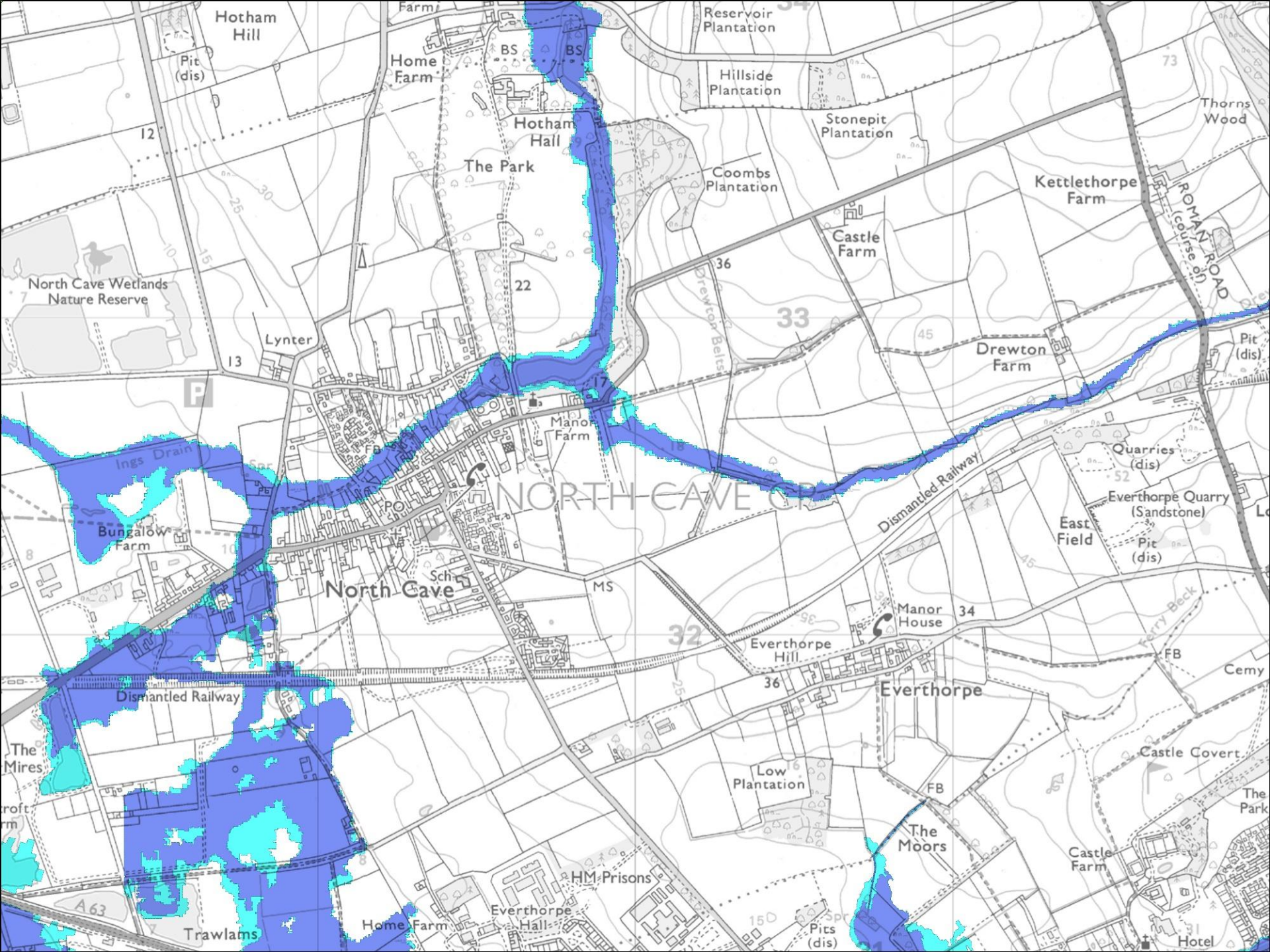
2007



25 June 2007 – 14:07



2007 06 25

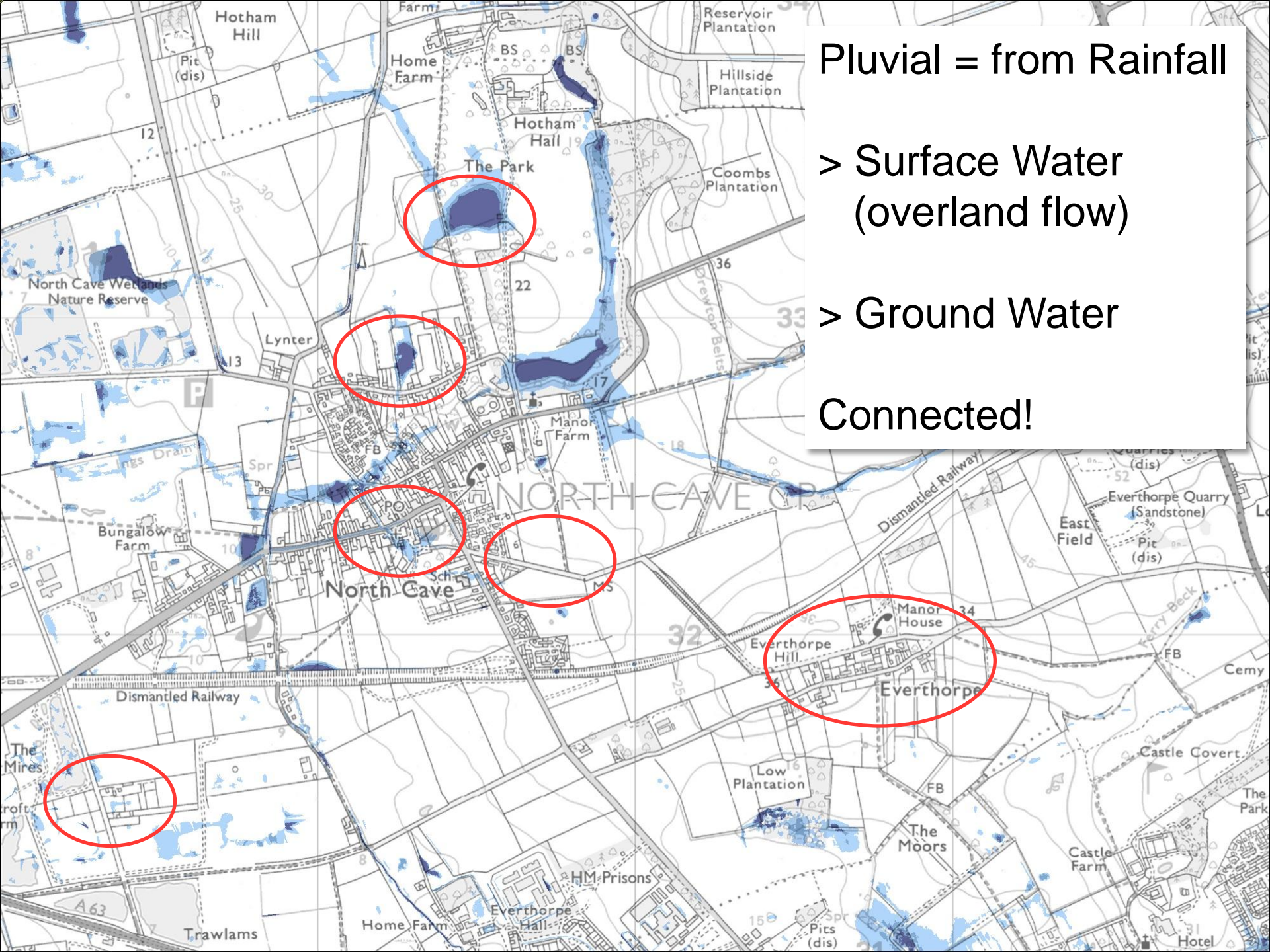


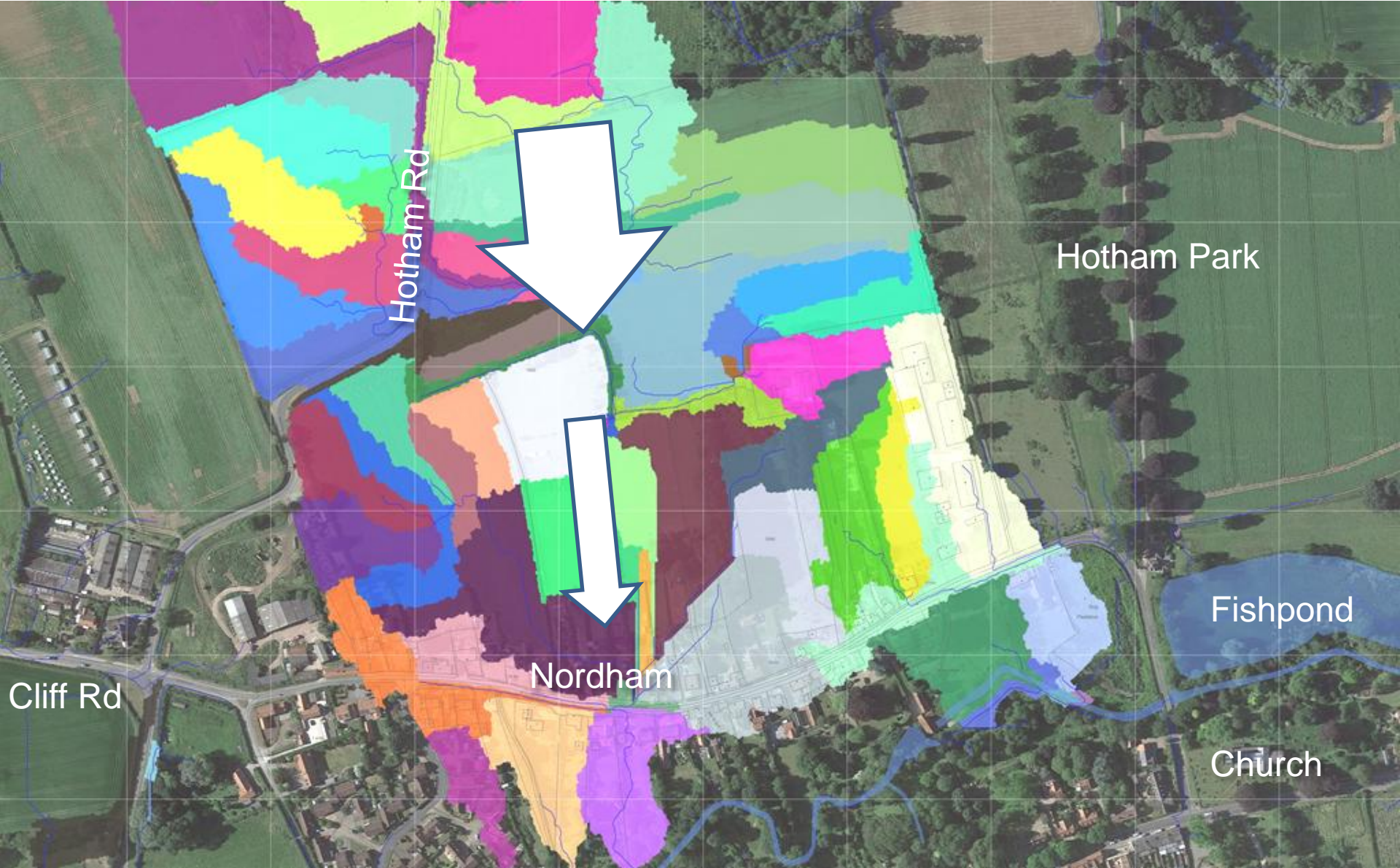
Pluvial = from Rainfall

> Surface Water
(overland flow)

> Ground Water

Connected!





Nordham



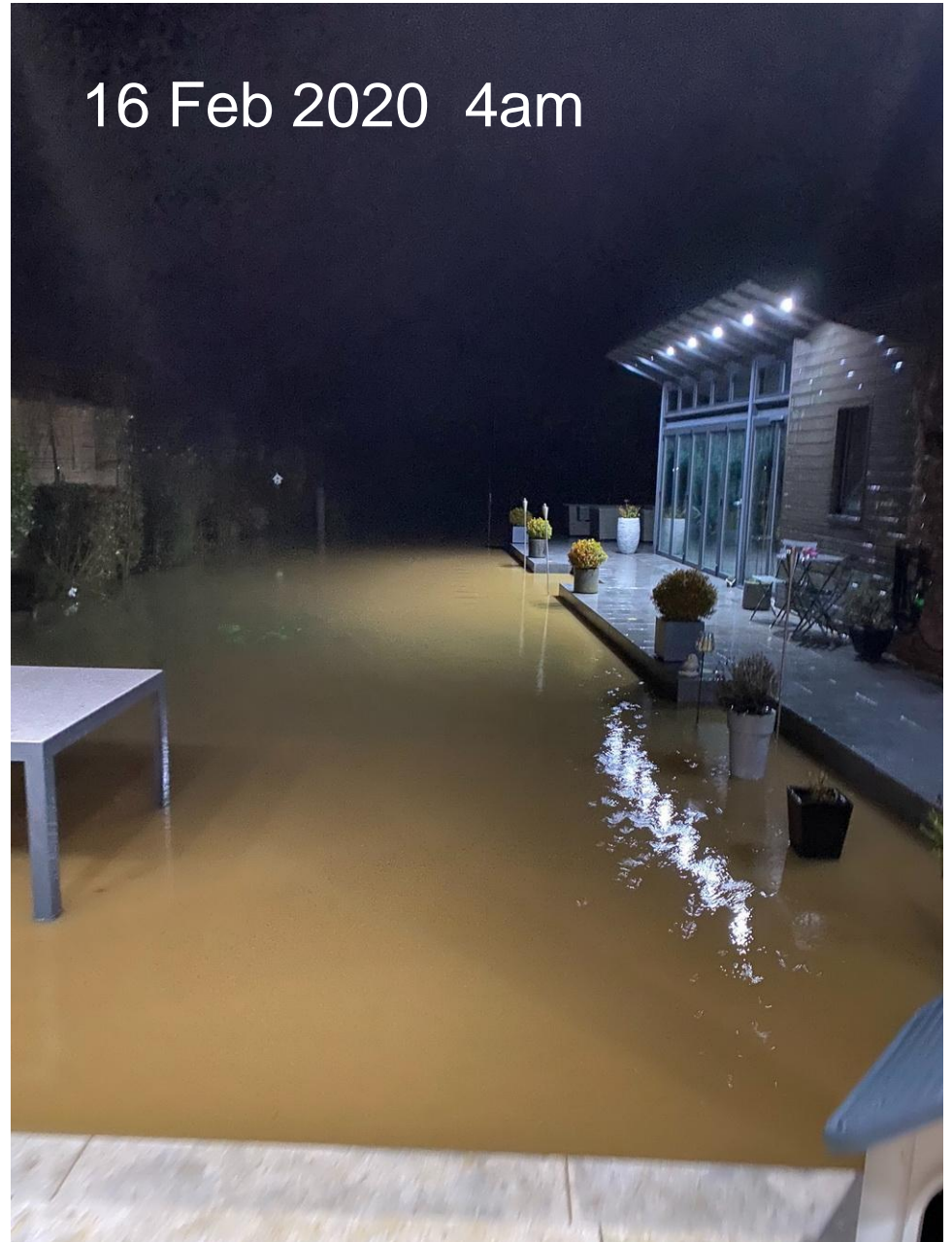
Nordham

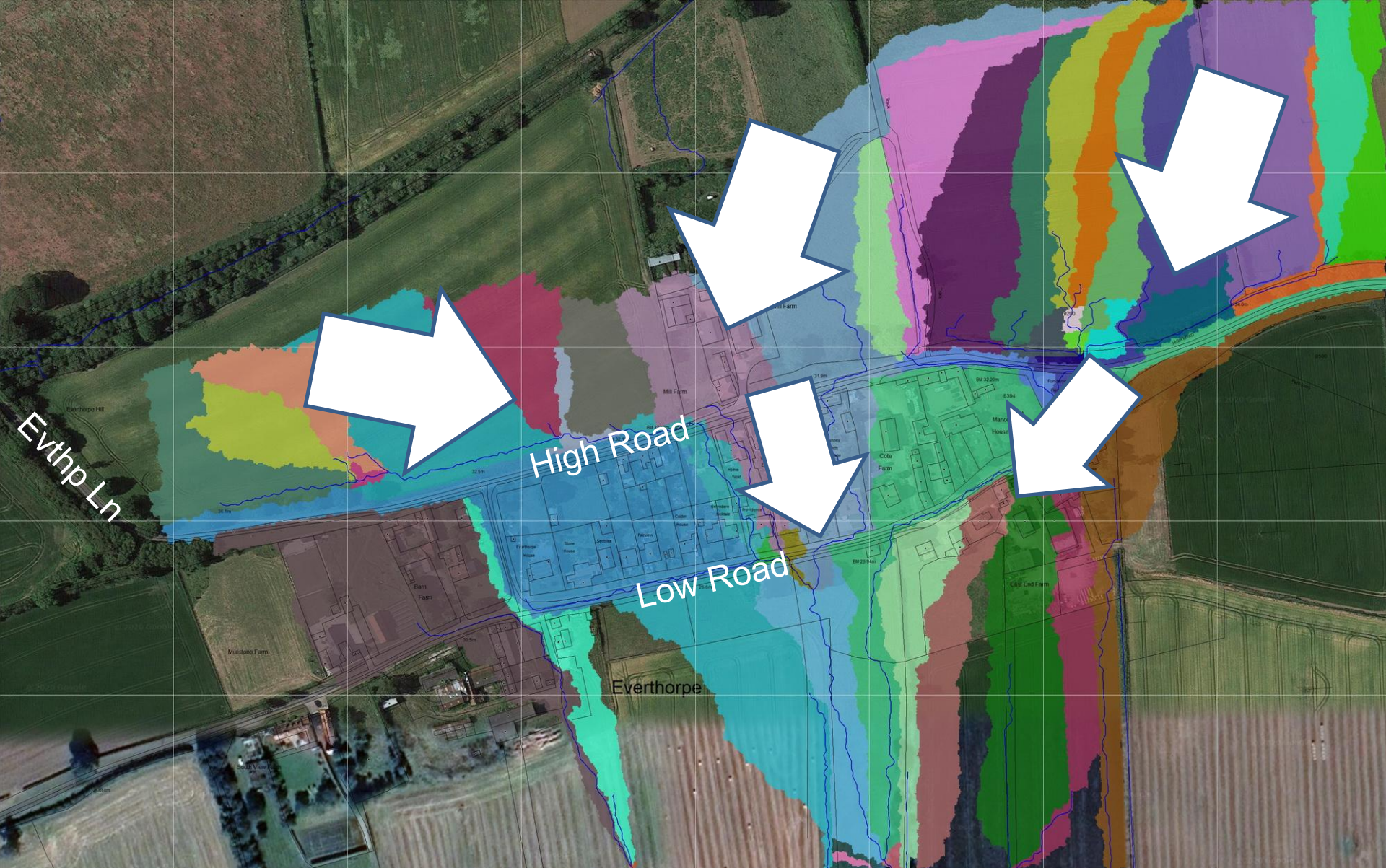
15 Nov 2019 8pm



Nordham

16 Feb 2020 4am



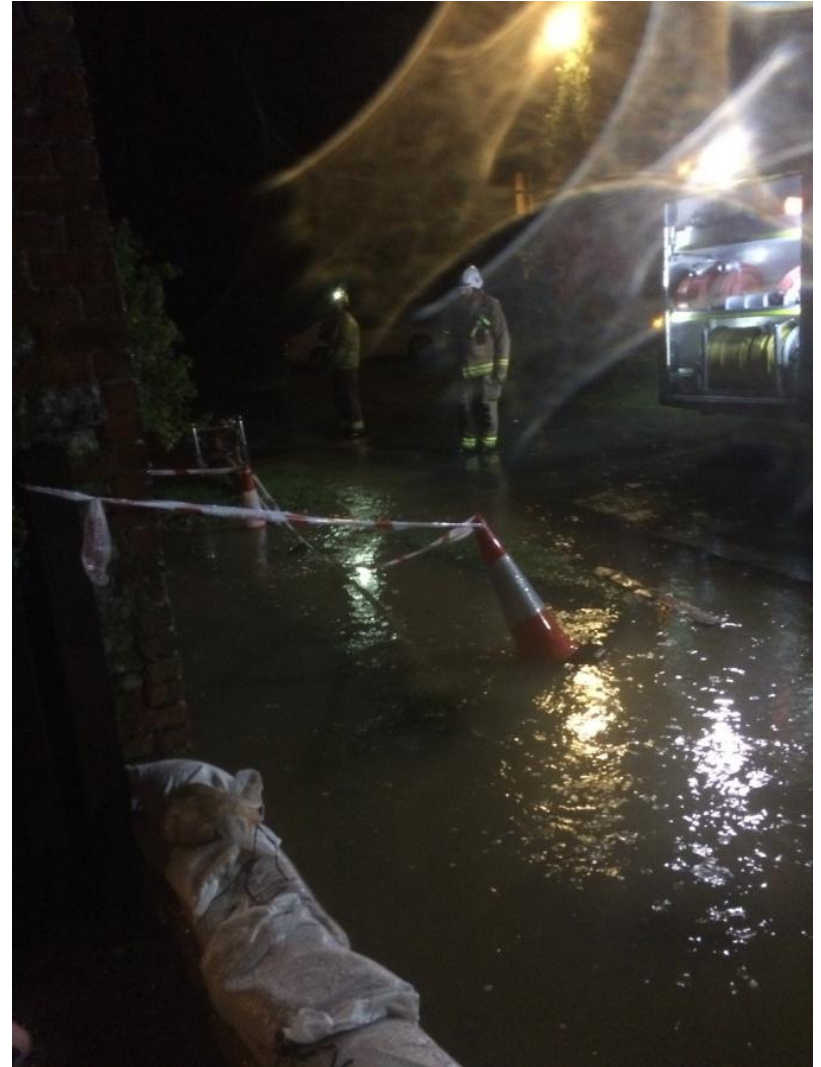


Everthorpe

14 Nov 2019 4pm



14 Nov 2019 7pm

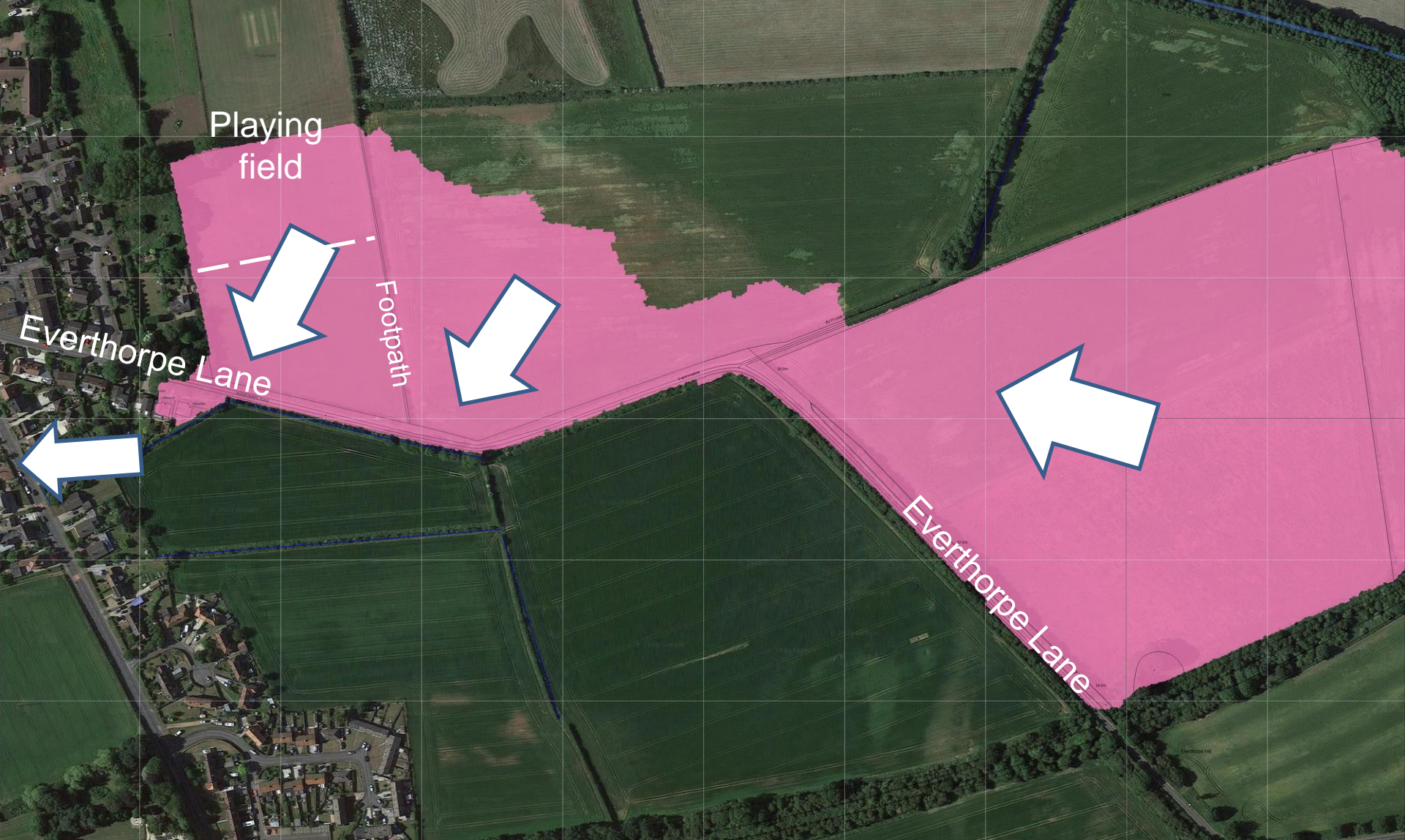


Everthorpe

24 Feb 2020



Everthorpe



Everthorpe Lane



Everthorpe Lane

Playing field



Everthorpe Lane 14 Nov 2019 8pm

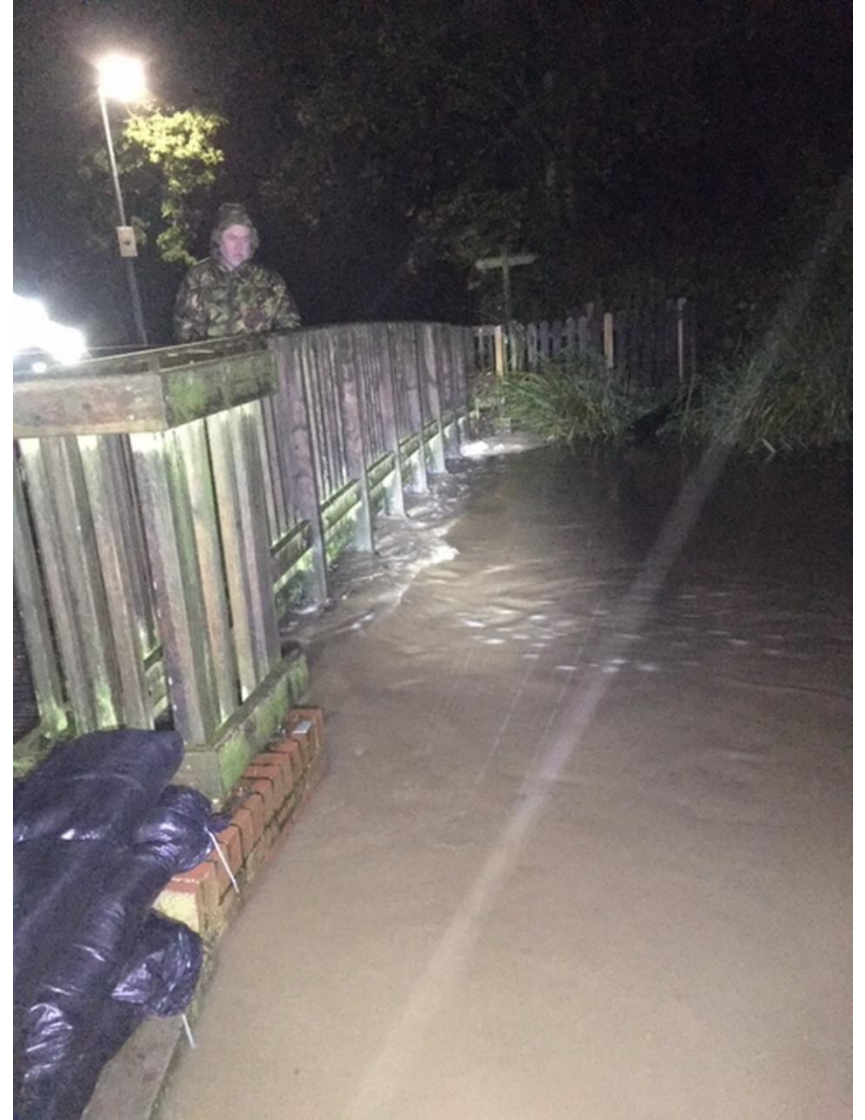




Finkle Street Nov 2000



Blanshards Lane 25 June 2007



Finkle Street / Blanshards Lane 14 Nov 2019



Blanshards Lane / Newbald



South Ings Lane - 2008



South Ings Lane 18 Nov 2019



Principles

NOT to 'get water away'!

Slow the Flow

Catch and detain water where it falls, across all parts of the catchment
e.g. along Hotham- Drewton- North Cave- Mires- Becks.

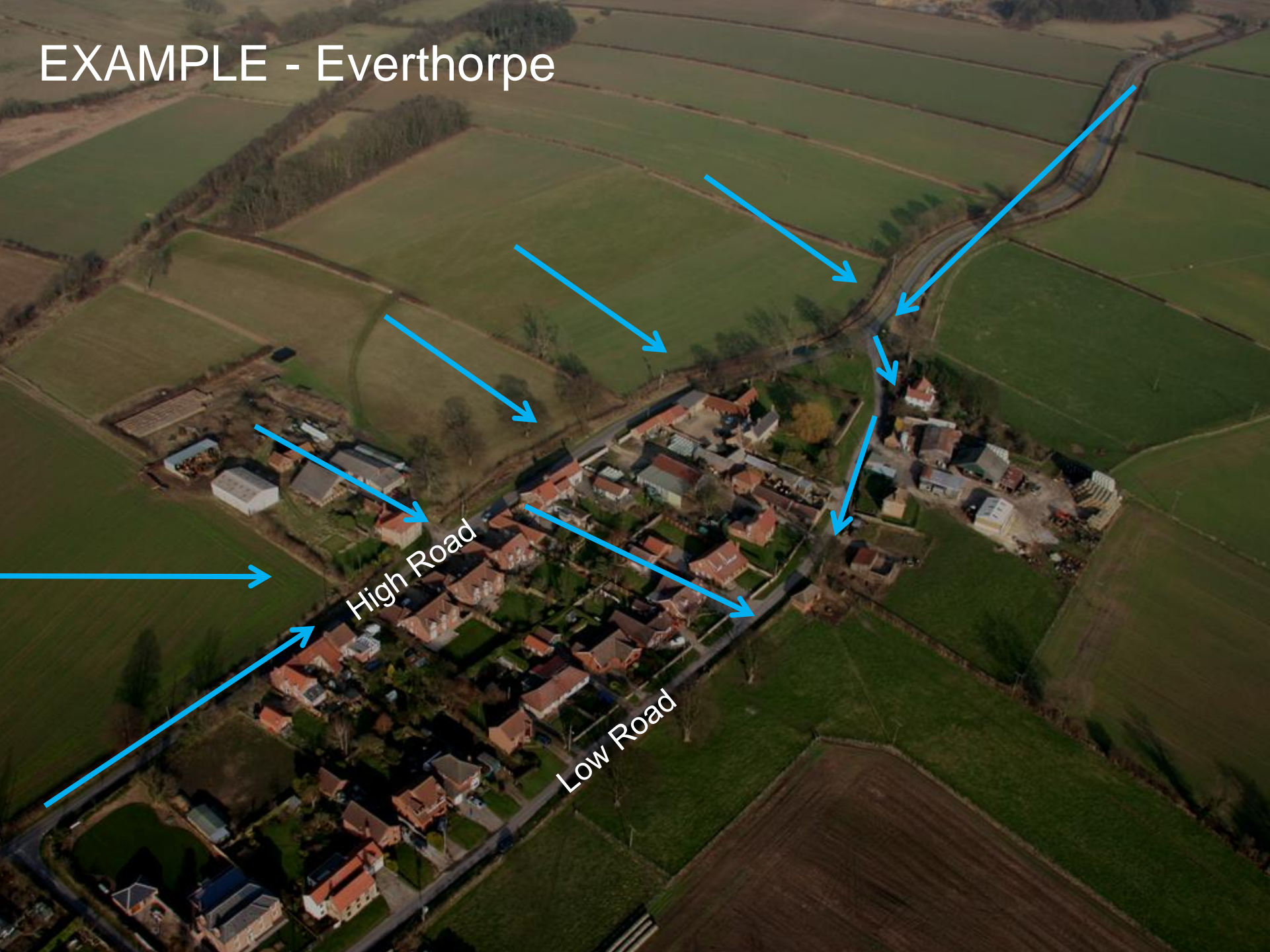
Intercept, detain and direct flow paths

Create controlled flow paths around groupings of property

Take opportunities to **use existing infrastructure**, like ditches, to both **expand attenuation capacity** and **detain water** with leaky dams (whether woody or engineered)

Reduce surface water **surcharge to foul sewers**

EXAMPLE - Everthorpe



EXAMPLE

Partnership approach...

Design Workshop with:

- landowners/farmers
- residents
- council/agencies

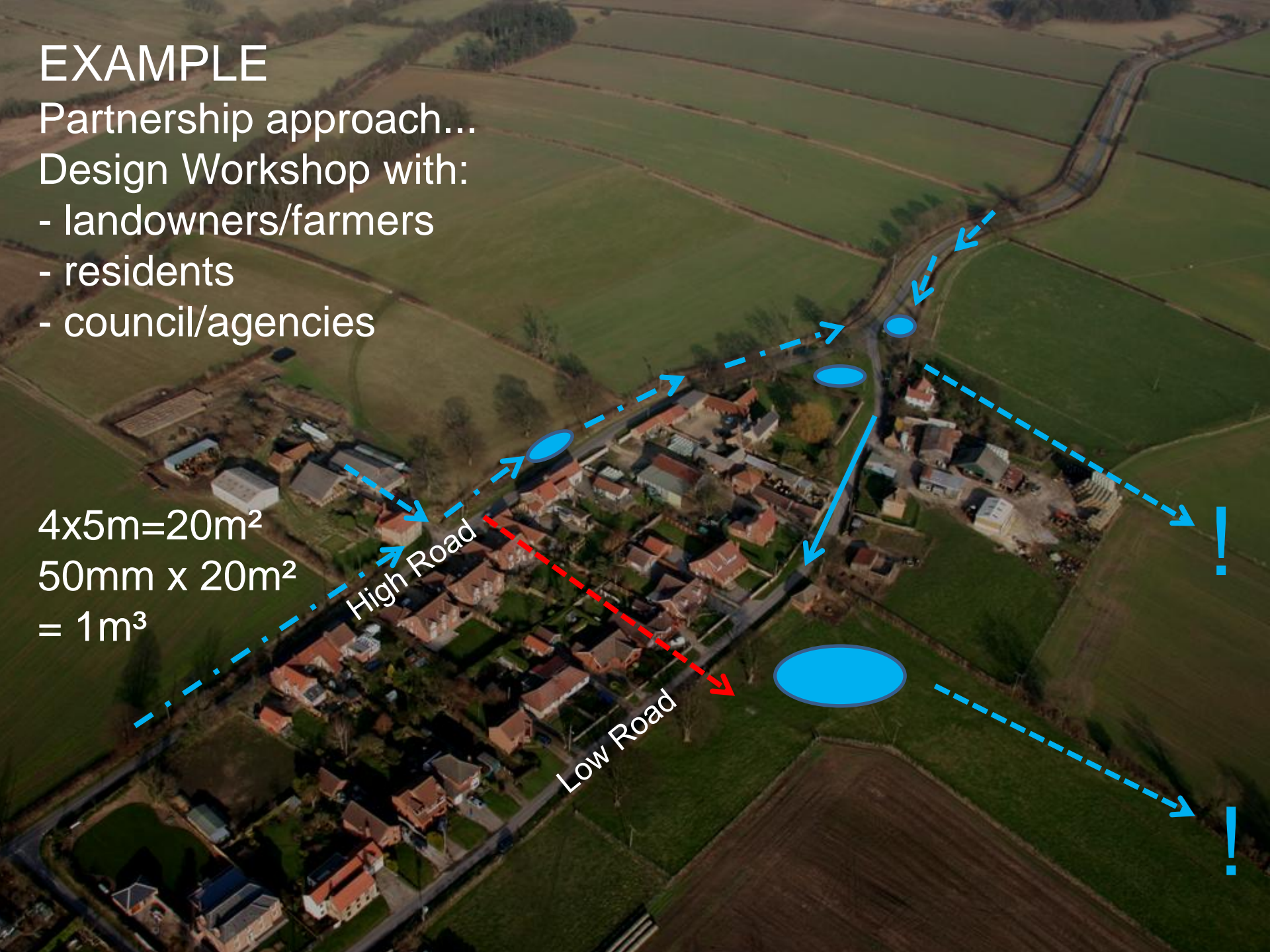
$4 \times 5 \text{m} = 20 \text{m}^2$

$50 \text{mm} \times 20 \text{m}^2$

$= 1 \text{m}^3$

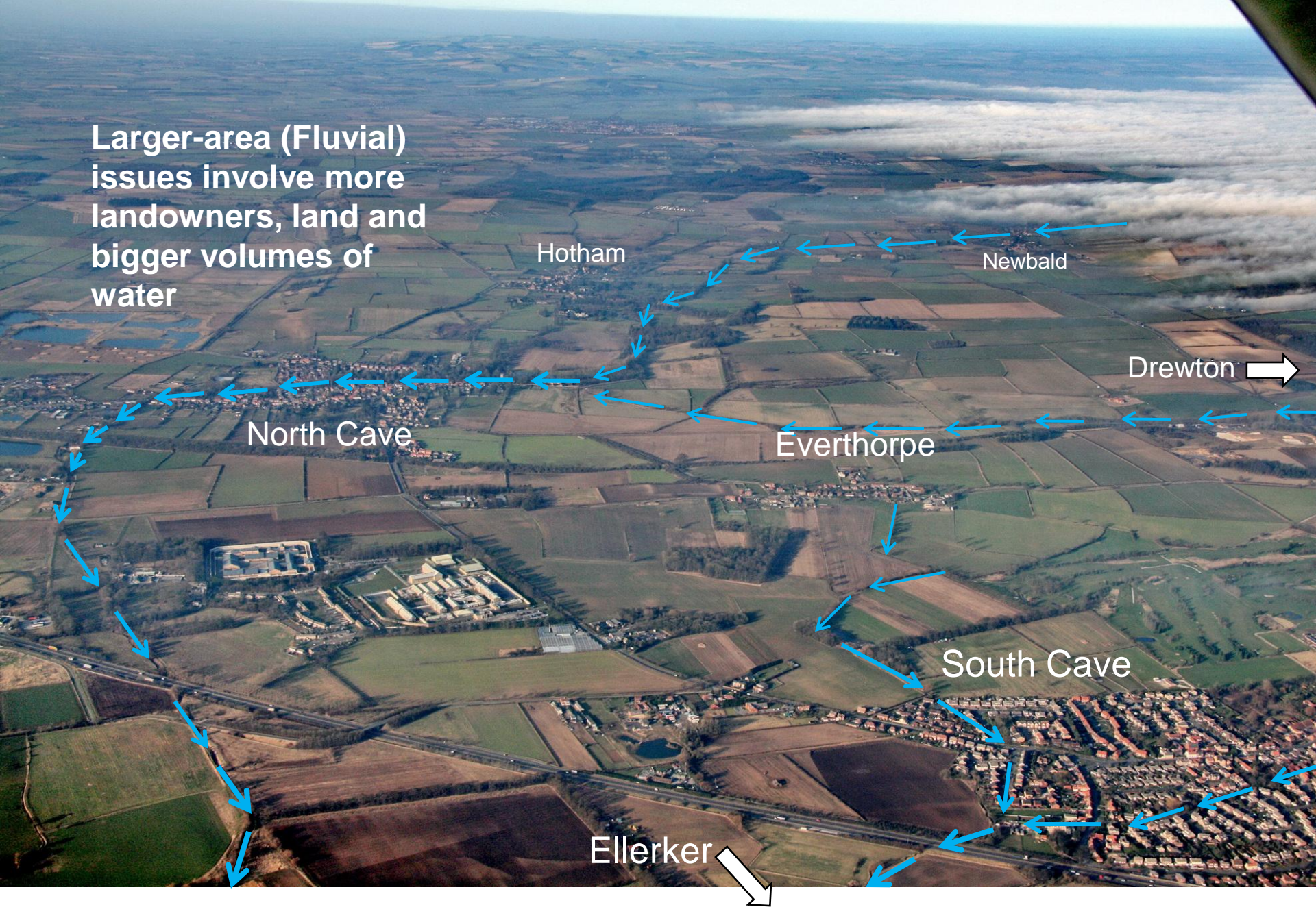
High Road

Low Road



**Smaller (surface water flooding issues)
proportionately 'easier' to design, implement and resolve**

**Larger-area (Fluvial)
issues involve more
landowners, land and
bigger volumes of
water**



**But also tends to have
deepest / fastest water
and affects the most people**



Partnership Approach

East Riding of Yorkshire Council

- officer expertise across flooding, drainage, highways, tree planting, more?
- political backing

Environment Agency

- catchment-based approach, biodiversity targets

Yorkshire Water

- relationship between foul and surface water
- flood risk + resilience

Ouse+Humber Drainage Board

- issue of current role and extent of remit

Landowners

- key partners, with knowledge of land and land-use.
- can partnership make agriculture more resilient to flood and drought? (e.g. reduce erosion, provide irrigation water)

Community

- Take responsibility for matters which over-stretch council resources: monitoring, simple maintenance

- Maintain a common and continuous view of what is needed

- Local knowledge + flood experience

- Act within own property, whether house or landholding

- Property resilience

- Monitor weather...

 - understand relationship between events (e.g. 7/14 Nov each close to 50mm, 2007 80mm) so understand

 - implications of weather forecasts and warnings

 - contribute to understanding of flood events

Education

- University research

- School involvement e.g. monitoring

Wildlife trusts other partnerships

- e.g. "Chalkshire" biodiversity opportunities

Funding

- e.g. weather monitoring, highway / ditch / attenuation works, landowner compensation?, planting grants

Taking a Partnership Approach

Benefit of combined expertise / action / funding

Response to flooding should not be piecemeal 'one-off' actions

Regular meetings (perhaps every few months, reverting to annual over time)

Maintain continuity of attention and approach, ensure maintenance is carried out to an agreed regime

What next...

Meeting with ERYC / EA / YWT / OHDB proposed for early April

Are they willing to help set up a Catchment Partnership?

Is the community willing to help set up a Catchment Partnership?

What next...

Convene formal partnership meeting

Agree scope (North Cave / Newbald / Ellerker / South Cave?) and aims

Identify priorities based on:

- regularity and severity of flooding
- achievability of mitigation
- cost / funding
- ERYC S19 report and other official / statutory inputs

Set timescales for action based on:

- short/long term
- liaison within partnership
- landowner agreements
- funding
- design
- planning / other approvals
- implementation

Publicity / wider engagement