

Manor Vale Lane Flood Risk proposal

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Environment Agency / Yorkshire Wildlife Trust
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**Yorkshire
Wildlife Trust**



**Catchment
Based Approach**

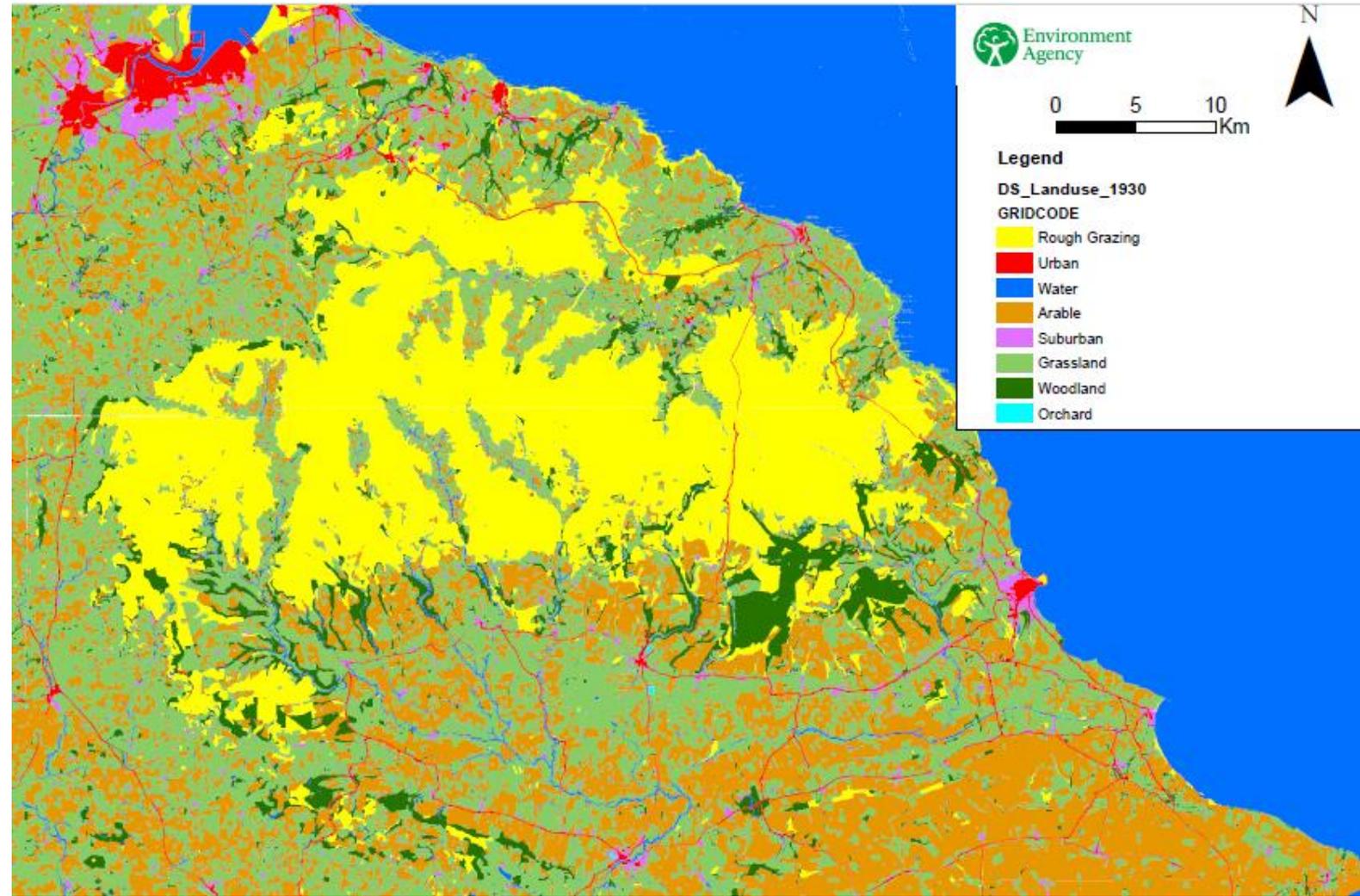


Yorkshire Derwent
Catchment Partnership

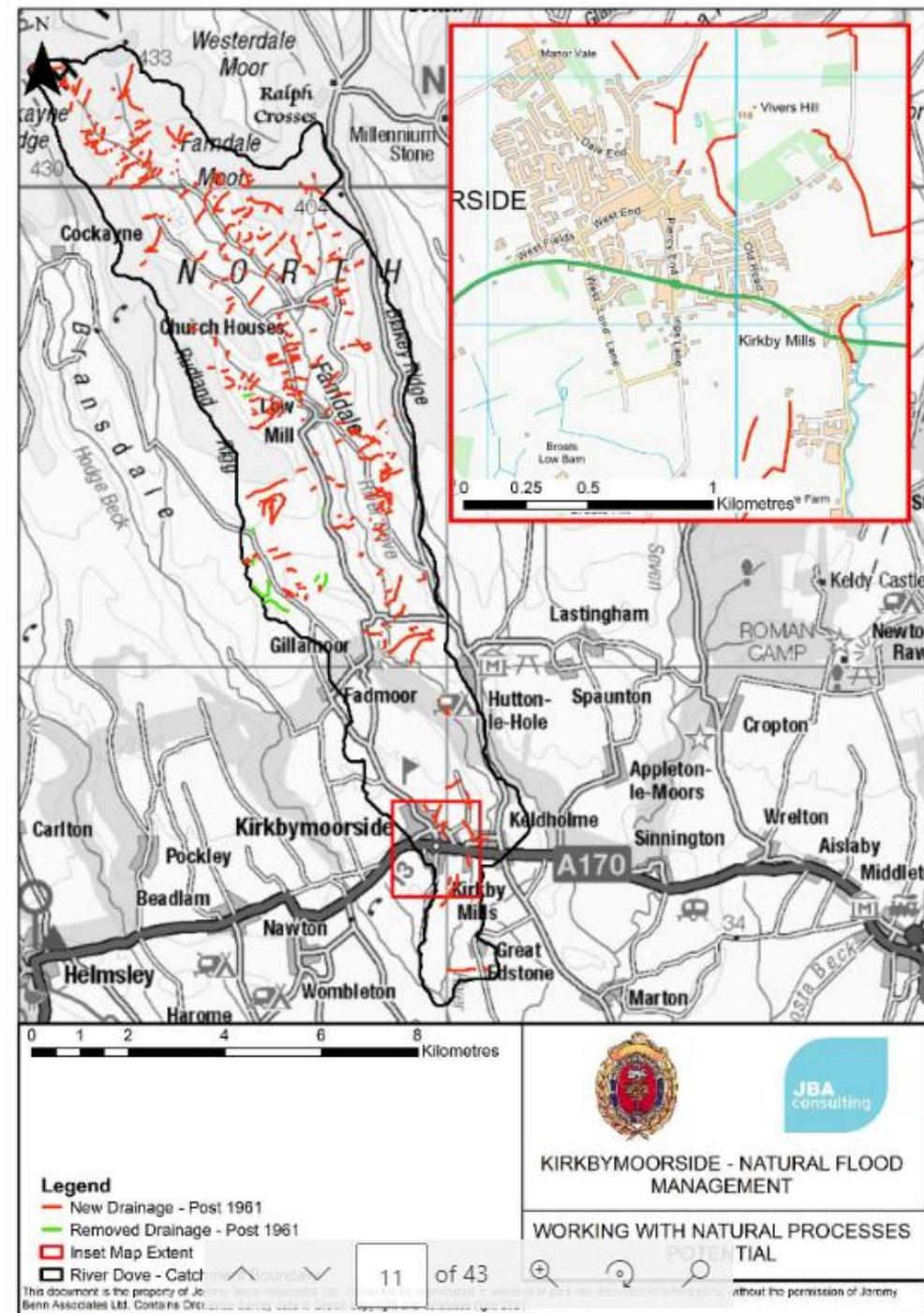


**Environment
Agency**

Woodland cover on the moors is around 23%. There is a significant reduction in interception, absorption transpiration and surface roughness when it rains.



The Natural Flood Management report commissioned by KTC indicates 73km of new drainage connections into the River Dove since the 60s.



Kirkbymoorside Kirby Mills Keldholme

Every 3-5 years the river has been out of bank and on roads, every 5-10 years it threatens houses.

This proposal is part of efforts to 'slow the flow' under the 'River Dove NFM' project.



Several features have been installed in the upper catchment already, including hedgerow restoration, floodplain reconnections, attenuation ponds, leaky dams and soil aeration.





This large reconnection site at Grouse Hall has already created significant extra space for flood water.

Soil Health

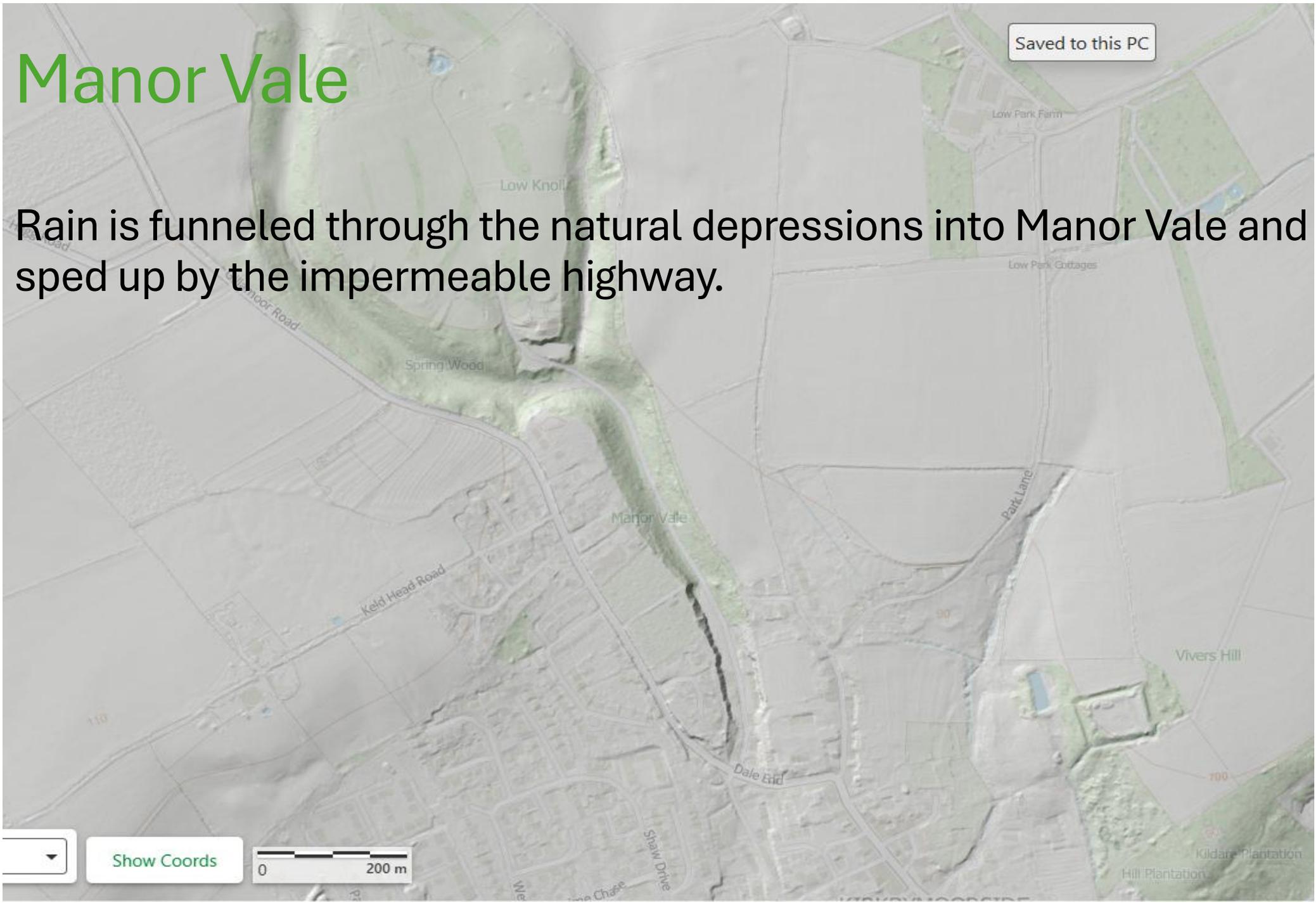
We are also working with landowners on soil health which should encourage infiltration of rainfall and improve their productivity and drought resilience.



Manor Vale

Rain is funneled through the natural depressions into Manor Vale and sped up by the impermeable highway.

Saved to this PC



Manor Vale Lane



Manor Vale Lane is the access road to Golf Club and is owned by KTC.

What is proposed

- There are already a series of speedhumps (~6) on the road where water is naturally slowed. Scrapes (or 'grips') could be installed adjacent to these in the verges to provide additional space for ponding and attenuation of run-off.
- This is similar to the highway grips that the Forest and Dale Community Partnership delivered in adjacent catchments. Thornton-le-Dale for example.
- Each scrape should create at least 1m³ of new space for water. This isn't a huge volume in the catchment but NFM relies on marginal gains wherever they can be found.



Works proposal

- Kirkbymoorside Environment Group, EA, YWT or other volunteers (possibly Slingsby) to support excavations by providing local knowledge and by hand digging the scrapes with hand tools. This should also help to make sure water on the road has a flow path into the scrapes and to be sensitive to the woodland environment.
- Anticipate doing this in April when ground conditions not too wet or firm.

Scrape size

- Dimensions to suit the space available in each location but will only work within the 1-2 metre grassy verge prior to the taller vegetation.
- Excavations to be around 2m long and around 30-50cm deep.
- Removed material to be placed downhill of the excavation – a small raised bund/lip to be created at the downhill end to act as an extension to the speedhump in order to increase ponding, the remainder to be smoothed out.

Ecological considerations

- Manor Vale is mapped as ancient semi-natural woodland and is also a Site of Importance for Nature Conservation.
- Advice from the Principal Ecologist at NYC has been sought.
- There are some areas where there is a more developed woodland-edge flora (e.g. Lesser Celandine) and sites have been screened to avoid any damage to this.
- No established trees will be damaged.

Other considerations

- The proposal has been discussed with the Golf Club who had no initial objections. We will engage further to ensure they are aware of timings and to inform members.
- The works may look unsightly to begin with as bare earth is exposed however, the existing vegetation is expected to quickly re-establish by growing back through the re-landscaped soil. No new material is to be brought in.

Request

- We request that KTC, Manor Vale Management Board, Kirkbymoorside Environment Group and Kirkbymoorside Golf Club confirm whether they support these proposals.
- If so, we request any feedback on the intended design and location of scrapes and potential dates to avoid for the work.
- Once a date is agreed, we request you distribute the date and need for the work among your networks so that people are as informed as possible about what is happening and why.

Questions?

Please contact joe.allan@environment-agency.gov.uk

