

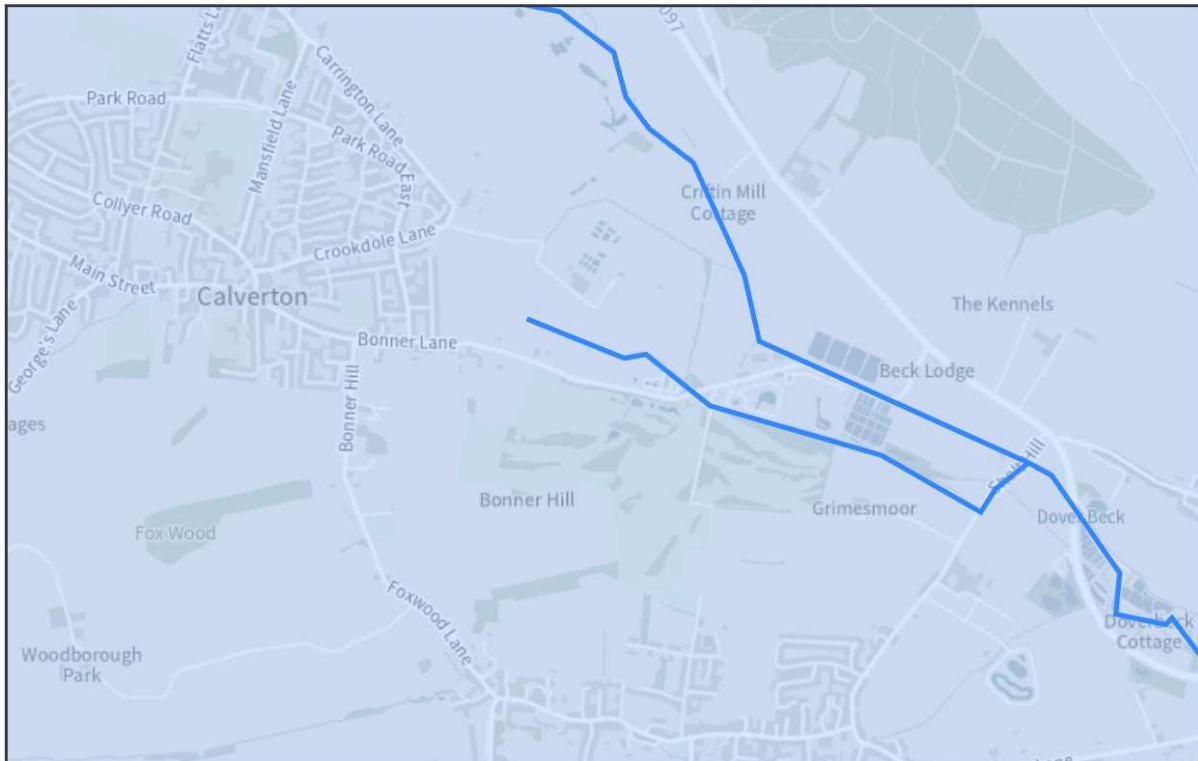
## Background

The incidence of flooding in the Parish of Epperstone has increased over the last 20-30 years and is likely to be as a result of a number of contributing factors including: Increased rainfall, Lack of maintenance of the watercourse and drainage and the Volume of additional water entering the water course.

## Calverton Water Treatment Plant

The Calverton Water Treatment Plant located on Bonner Lane Calverton treats waste water from Calverton and surrounding areas; the treated water is then discharged into The Grimesmoor Dyke that in-turn feeds into the Dover Beck on the up-stream side of Epperstone.

# Dover Beck Catchment (trib of Trent) Water Body



There has been considerable housing development and light industrial development to Calverton, this will have increased the through put of the Water Treatment plant and ultimately the volume of treated water into the Dover Beck Water course.

## Woodborough

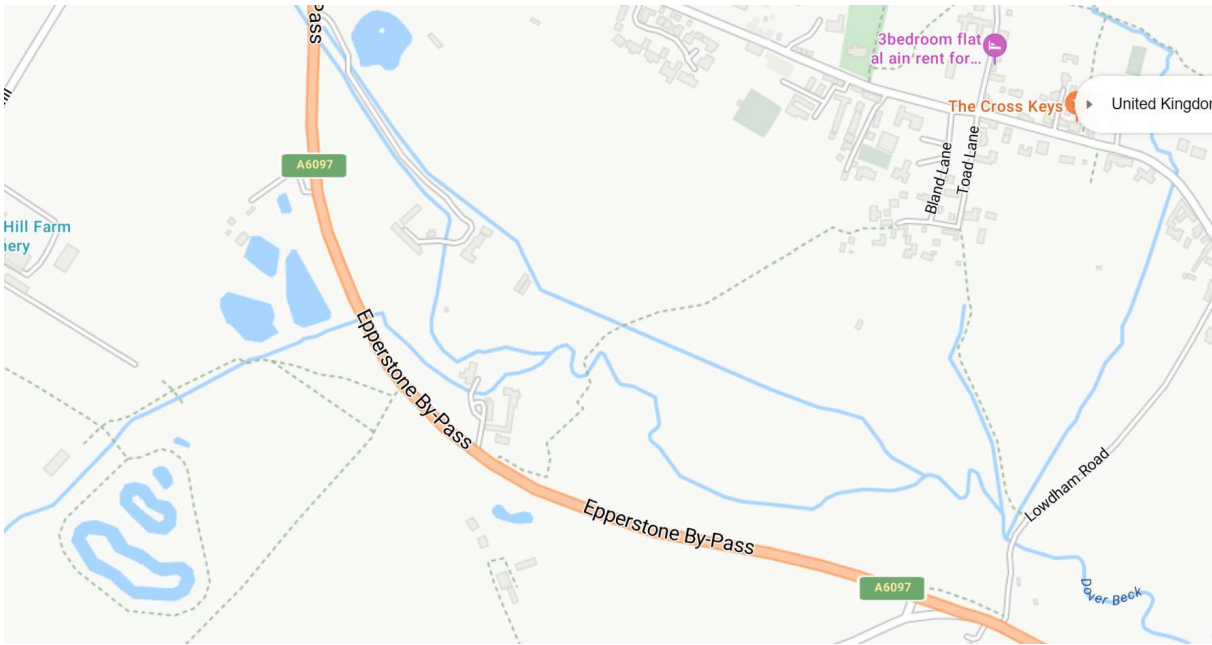
The surface water from Woodborough enters the Dover Beck up-stream of Epperstone by Woodborough Mill, as with Calverton there has been additional housing development in Woodborough and metalling of driveways all of which will contribute to additional Surface Water and speed of transfer of the water from Woodborough to the Dover Beck



Both the throughput of the Calverton Water Treatment Works and developments in Woodborough will have had a marked increase in the volume of water passing through the Dover Beck downstream of The Fish Farm and Woodborough Mill.

The Park Drain would appear to take some of the water from the Dover Beck and bypass where the Grimesmoor Dyke and the surface water dyke from Woodborough meet the Dover Beck; the Park Drain and Dover Beck then converge on the land south of Epperstone before the Wash Bridge and where the Order Beck then joins the Dover Beck.

I would suggest that restrictions in the water flow in the Dover Beck (Wash Bridge, Sluices and lack of maintenance over the years) all have contributed to the silting up of the watercourse and as a consequence have resulted in reductions in water flow and throughput of the Dover Beck resulting in increased incidence of flooding and as a secondary consequence that the surface water drainage from the village has silted up and become restricted leading to more surface run-off through the village from the farmland above the village.



This additional water entering the Dover Beck upstream of Epperstone has become increasingly evident over the last few years (and most evident in 2023) and as a result of increased and more intense rainfall has resulted in more devastating flood events.

## **Next Steps**

Evaluate:

1. Increased clean water discharge from Calverton Water Treatment Works into the Dover Beck water course.
2. Changes in Rainfall and Intensity of Rainfall
3. New Housing / Industrial developments that contribute to volume of water entering Water Course

Based on the outcomes of this representation should be made to Severn Trent, Nottinghamshire County Council, Environments Agency and Internal Drainage