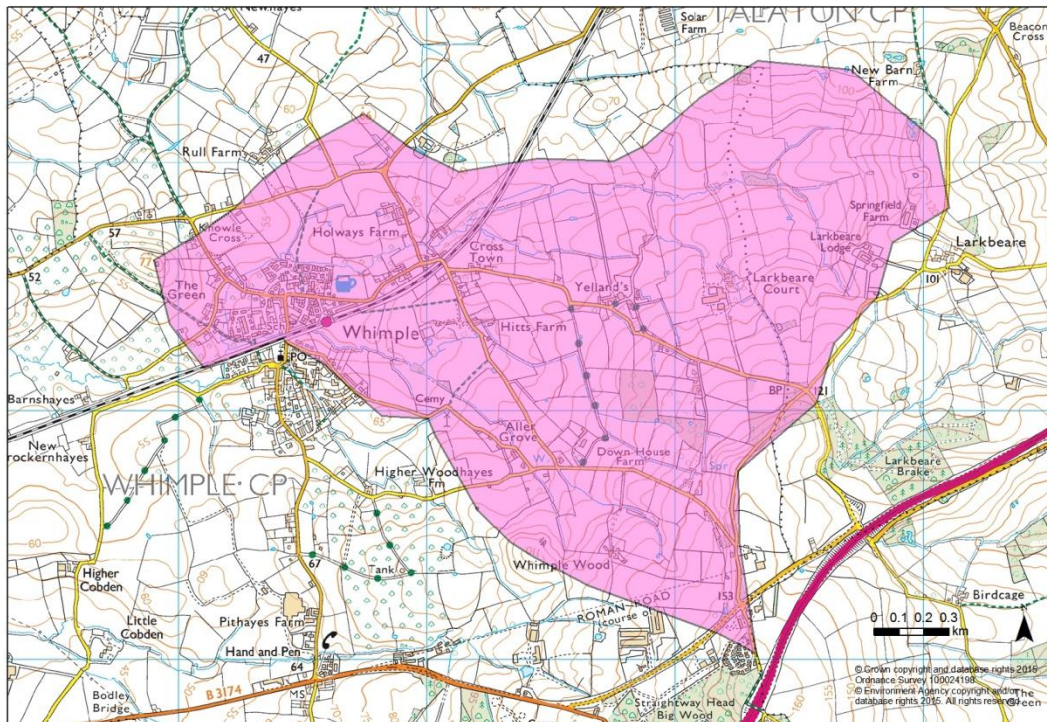


Critical Drainage Area (CDA)

East Devon District Council - Whimble

May 2015



Catchment Drainage/Flooding Issues

The village of Whimble is bisected by the Exeter to Waterloo railway on a large raised embankment. The Cranny Brook passes under the railway in an inadequate brick culvert. When flood flows exceed culvert capacity many properties upslope are at risk of flooding and as occurred in 1997, 2008 and 2012. Until measures are implemented to reduce these risks it is important that whenever new development is to be permitted in the catchment it should; a) be served by a sustainable drainage system that performs in accordance with the criteria set out below and b) should also make a contribution towards a scheme that will reduce risks for those liable to flood.

Minimum Drainage Standards Required

All new development will have to play their part in reducing current rainfall runoff rates. This requirement also applies to brown field sites that will have to match the same standards. The SuDS hierarchy should be followed, by using infiltration as far as is practicable. Further guidance on such systems can be found in the CIRIA SUDS manual and in LLFA guidance.

All off-site surface water discharges from development should mimic "Greenfield" performance up to a maximum 1 in 10 year discharge rate. On-site all surface water should be safely managed up to the "1 in 100+climate change" conditions. This will require additional water storage areas to be created thereby contributing to a reduction in flooding downstream.