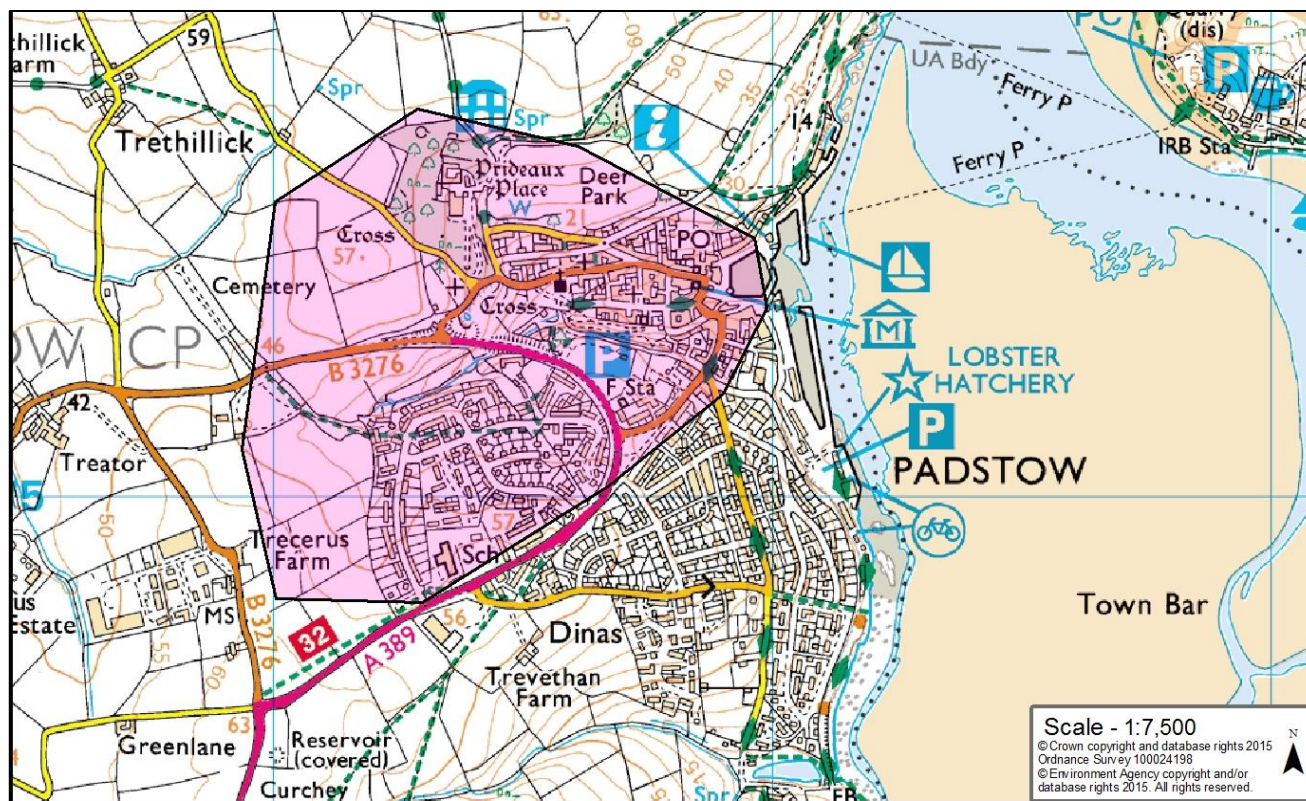


Critical Drainage Area (CDA)

Cornwall – Padstow

May 2015



Catchment Drainage / Flooding Issues

Cornwall Council's Local Flood Risk Management Strategy (Strategy) identifies Padstow as a Priority Community. The Catchment Flood Management Plan (CFMP) identifies that there is the need address surface water flood risk in Padstow. If extensive development is proposed in the catchment it should be considered whether this study is required prior to development. This may show that in addition to controlling run-off from development there is the need for offsite infrastructure changes. Detailed actions to address this will be developed in partnership through the Strategy.

This watercourse drains a small, steep, predominantly urban catchment and is culverted for the majority of its course though the town. Flows discharge into the harbour, which can become tide locked during high tides. In light of these physical constraints together with several records of flooding in the early 1980's it is considered prudent to apply firm drainage controls to development in this area.

In this catchment SuDS design should include features to manage water quality to protect bathing and shellfishery water quality.

Minimum Drainage Standards Required

All new developments will have to play their part in reducing current rainfall runoff rates. This requirement also applies to brownfield sites that will have to match the same standards. The surface water drainage 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 Lead Local Flood Authority guidance.

All off-site surface water discharges from developments 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 plus climate change conditions. This will require additional water storage areas to be created thereby contributing to a reduction in flooding downstream.

Cornwall – Critical Drainage Area

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