



B.9 DA09 Folkestone, Lower Leas and Mill Point

Folkestone and Hythe Stage 1 SWMP : Summary and Actions
Drainage Area 09

Area overview

Area (km²)

Drainage assets/systems	Type	Known Issues/problems	Responsibility
Pent Stream (in culvert)	Main River	History of manholes along the Pent Stream culvert surcharging along Tontine Street flowing towards the Harbour Approach. Also of flooding coming along Foord Road North underneath the Viaduct.	Environment Agency
Sewer network	Sewers (combined and surface water)	Known problems of surcharging at numerous locations across the drainage area.	Southern Water

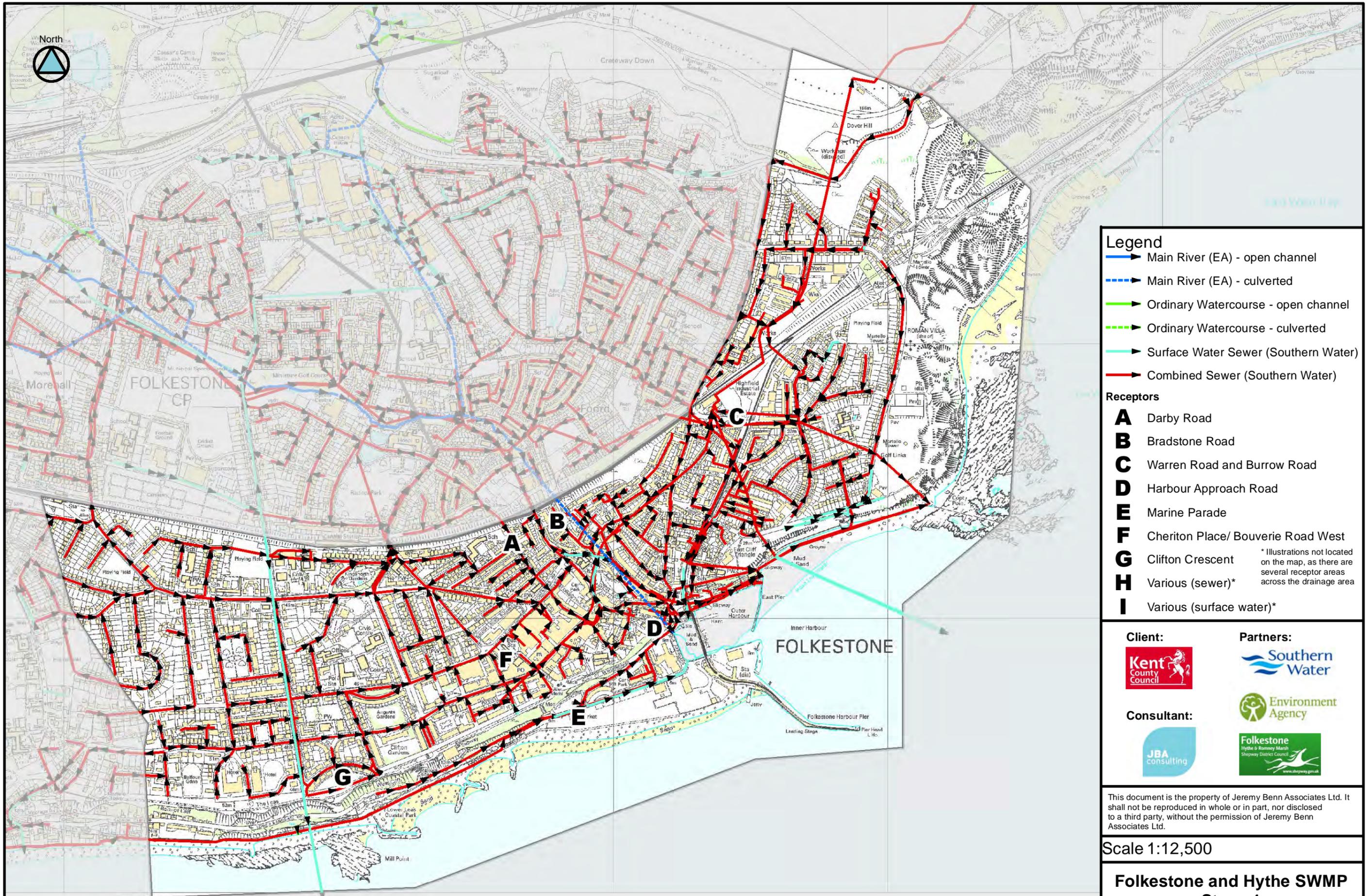
Flood risk

Receptor	Source	Pathway	Historic Evidence
A: Darby Road	Heavy rainfall resulting in overloaded sewers and surface water ponding	Southern Water Sewers Surface water ponds in gardens behind Darby Road	Southern Water records show this has flooded in the past due to overloaded sewers.
B: Bradstone Road	Heavy Rainfall resulting in surface water overland flows. Fluvial flows from Pent Stream	Overland flows from the north west covering Bradstone road, potentially from surface water and fluvial sources	There are no historic records of flooding in this area
C: Warren Road and Burrow Road	Heavy Rainfall causing surcharging of sewers and potential surface water overland flows	Southern Water Sewers Surface water flow paths down the eastern line of the viaduct in a south west direction flowing behind properties on Thanet Gardens, towards Warren Road where there is dip. The flow path follows the line of the Viaduct through Burrow road and along Dudley and Dyke Road where it discharges into the Harbour.	There is cluster of historic records of sewer flooding in the area (Southern Water). Records from the SDC SFRA records also describe this area flooding from a 1 in 500 yr fluvial event, this maybe an error in the classification of source within the historic records, source is potentially from surface water.
D: Harbour Approach Road	Heavy Rainfall resulting in surcharging of sewers and runoff, Pent Stream culvert fluvial flooding	Southern Water Sewers The overland flow route is south east to the Harbour Approach Road. The pathway follows the topography of the land.	Pent Stream culvert known to have surcharged in this area historically. (1996) Southern Water records incidents of hydraulic overload.
E: Marine Parade	Heavy Rainfall, blocked drains and high tide resulting in surcharging of sewers and runoff.	Southern Water Sewers Surface water ponding on Marine Parade and Sandgate Road.	Southern Water records show this has flooded in the past due to overloaded sewers. Records from the SDC SFRA records also describe this area flooding from a 1 in 500 yr fluvial event, this maybe an error in the classification of source within the historic records, source is potentially from surface water.

F:Cheriton Place/ Bouverie Road West	Heavy Rainfall resulting in surcharged sewers and run off	Southern Water Sewers Surface water ponding around Bouverie Square and West Terrace.	Southern Water records show this has flooded in the past due to overloaded sewers. Records from the SDC SFRA records also describe this area flooding from a 1 in 500 yr fluvial event, this maybe an error in the classification of source within the historic records, source is potentially from surface water.
G:Clifton Crescent	Heavy Rainfall resulting in surcharged sewers and run off	Southern Water Sewers	Southern Water records show this has flooded in the past due to overloaded sewers.
H: Various (sewer)	Heavy Rainfall, high tide and faulty non return valves result in surcharge of Sewers	Southern Water Sewers	Southern Water records indicate historic flooding within DA09
I: Various (surface water)	Heavy Rainfall resulting in runoff	Ponding in low spots and overland flow routes similar to those of fluvial routes.	FMFSW 1 in 200 yr (deep)

Summary of Location-specific Actions

Area of benefit	Location of action	Action	Action owner	Priority
Harbour Approach Road	Harbour Approach Road	Investigate opportunities to improve property resilience for properties historically effected by surcharged sewers.	KCC/SDC	Medium Term
Marine Parade	Marine Parade	Consider use of green infrastructure or localised measures (kerbing, minor bunding, signage etc) to improve management of surface water during intense rainfall.	KCC	Short term
Clifton Crescent	Clifton Crescent	Consider use of green infrastructure or localised measures (kerbing, minor bunding, signage etc) to improve management of surface water during intense rainfall.	KCC, SDC	Short term



Legend

- ▶ Main River (EA) - open channel
- - -▶ Main River (EA) - culverted
- ▶ Ordinary Watercourse - open channel
- - -▶ Ordinary Watercourse - culverted
- ▶ Surface Water Sewer (Southern Water)
- ▶ Combined Sewer (Southern Water)

Receptors

- A** Darby Road
- B** Bradstone Road
- C** Warren Road and Burrow Road
- D** Harbour Approach Road
- E** Marine Parade
- F** Cheriton Place/ Bouverie Road West
- G** Clifton Crescent
- H** Various (sewer)*
- I** Various (surface water)*

* Illustrations not located on the map, as there are several receptor areas across the drainage area

Client: 

Partners:  

Consultant:  

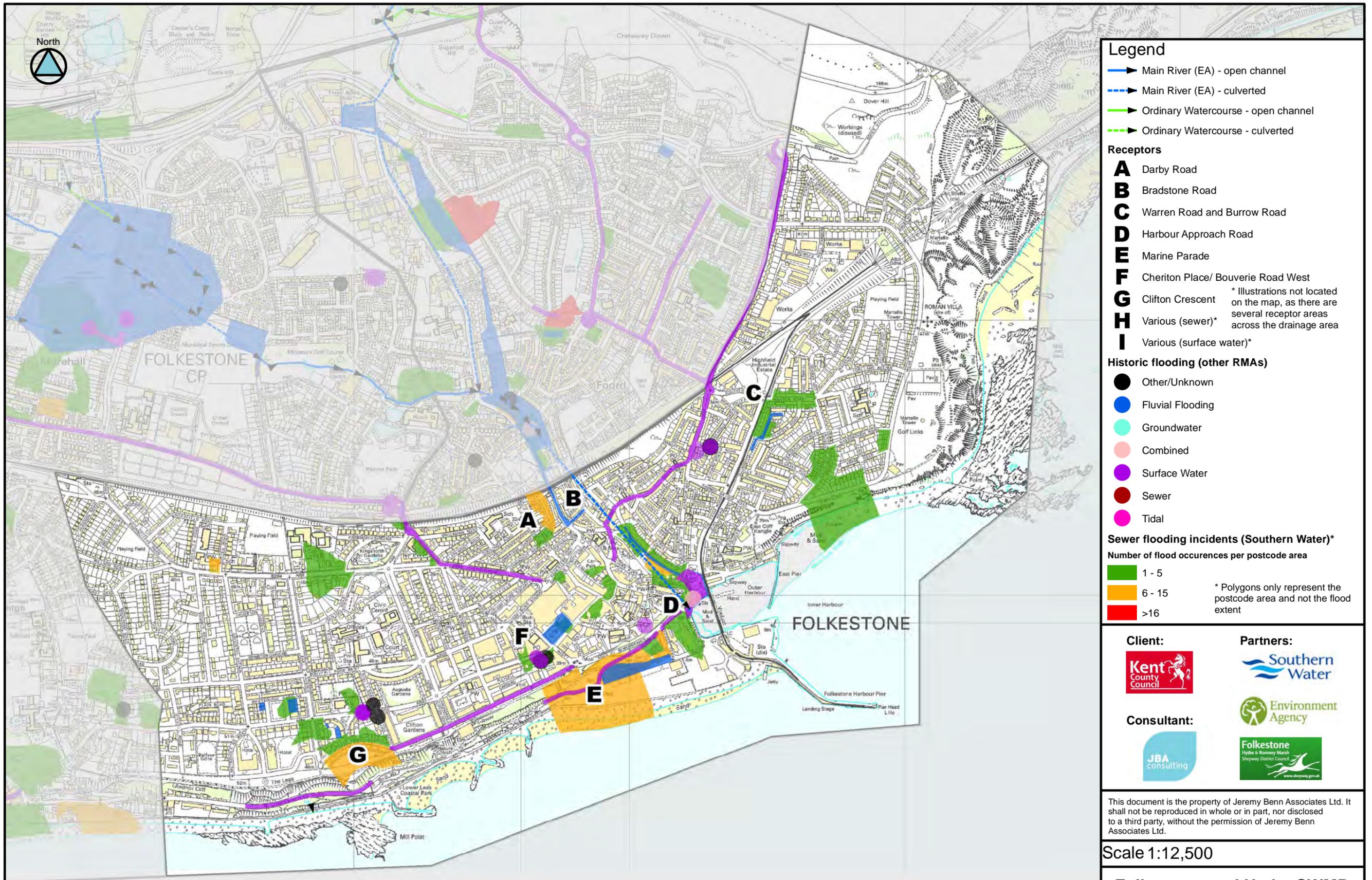
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Scale 1:12,500

Folkestone and Hythe SWMP Stage 1

Watercourses and Drainage Systems DA09

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Client: Kent County Council

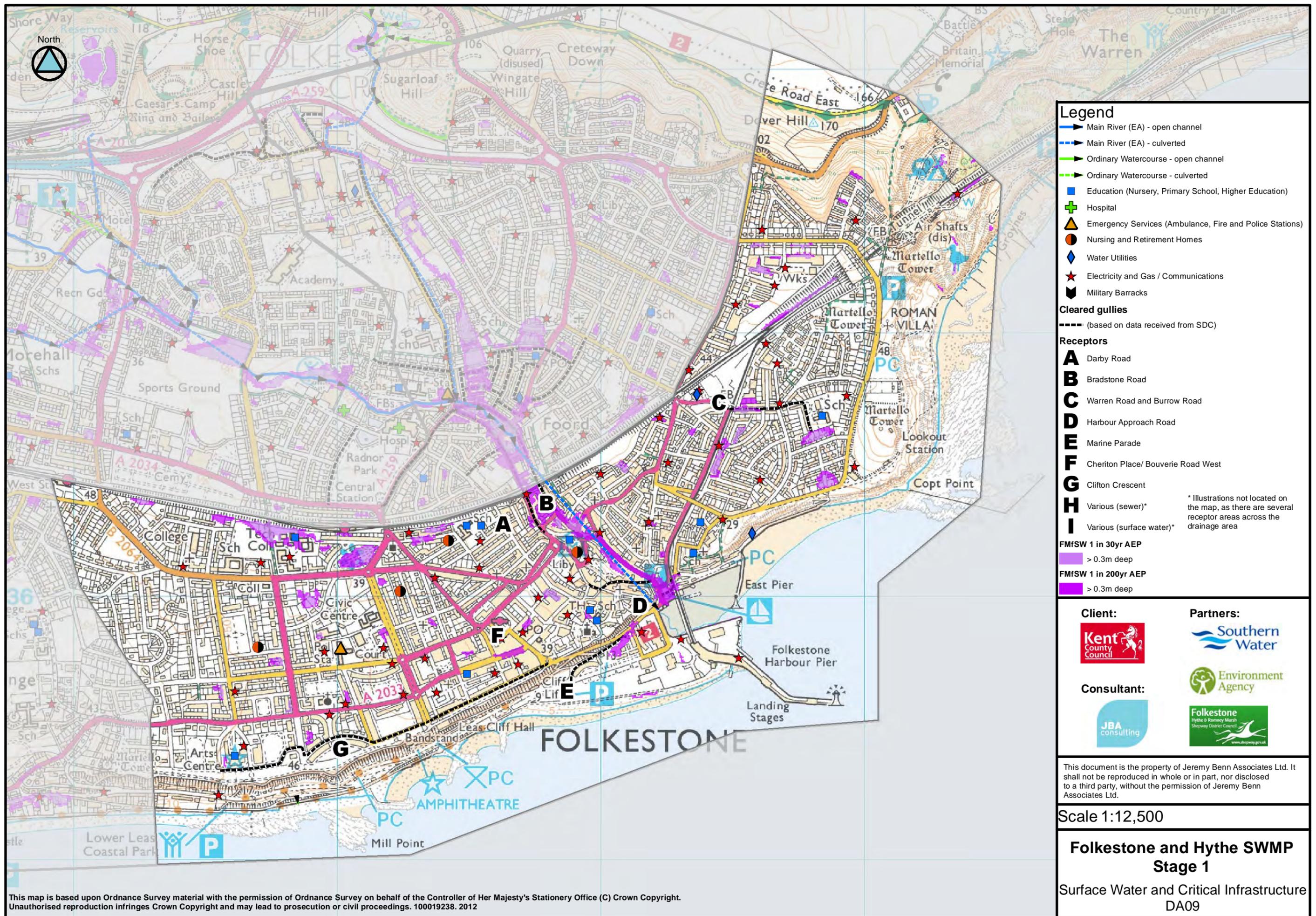
Partners: Southern Water, Environment Agency, Folkestone Hythe & Romney Marsh Shepway District Council

Consultant: JBA consulting

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Folkestone and Hythe SWMP Stage 1 Historic Flooding DA09



Legend

- Main River (EA) - open channel
- - - Main River (EA) - culverted
- Ordinary Watercourse - open channel
- - - Ordinary Watercourse - culverted
- Education (Nursery, Primary School, Higher Education)
- ⊕ Hospital
- ▲ Emergency Services (Ambulance, Fire and Police Stations)
- Nursing and Retirement Homes
- ◆ Water Utilities
- ★ Electricity and Gas / Communications
- Military Barracks

Cleared gullies
 - - - (based on data received from SDC)

Receptors

- A** Darby Road
- B** Bradstone Road
- C** Warren Road and Burrow Road
- D** Harbour Approach Road
- E** Marine Parade
- F** Cheriton Place/ Bouverie Road West
- G** Clifton Crescent
- H** Various (sewer)*
- I** Various (surface water)*

* Illustrations not located on the map, as there are several receptor areas across the drainage area

FMfSW 1 in 30yr AEP

- > 0.3m deep

FMfSW 1 in 200yr AEP

- > 0.3m deep

Client: Kent County Council

Partners: Southern Water, Environment Agency, Folkestone Hythe & Romney Marsh Shepway District Council

Consultant: JBA consulting

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Folkestone and Hythe SWMP Stage 1

Surface Water and Critical Infrastructure DA09

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