

Severn Estuary Forum 2017 David Martin and Lucy George Wessex Water

Bathing Water improvements

5 October 2017

Agenda

- Introduction
- Burnham Jetty improvements
- Different approach

Wessex Water Services Ltd





- Water supply and sewerage seen vironmental services"
- Sewerage services only
- "We aim to protect and improve the environment and contribute to wider society"

Bournemouth







Wessex Water Statistics



Wastewater statistics:

- 400 sewage treatment works
- 30,000,000 m of sewers
- 1400 overflows
 - An overflow prevents flooding during heavy rainfall
 - Flow is passed through a screen and spills to the river

Area stats:

- 560 km of coastline
- 48 designated Bathing Waters
- 46 Bathing waters have Good or Excellent water quality
- 2 are poor or sufficient water quality:
 - Weston Super Mare = Sufficient
 - Burnham Jetty North = Poor

Overflow performance - Coastwatch

www.wessexwater.co.uk/coastwatch







Burnham

Quality status 2016:Fail

There has not been a spill in the last 24 hours

Summary

Information

Weather

Tide times

This bathing water can be affected by spills during storms or incidents

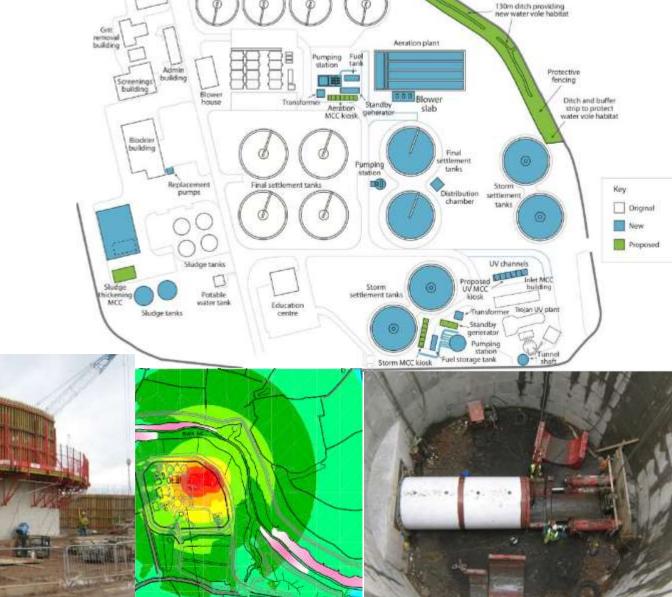
Spill history for the last 7 days

5/7	4/7	3/7	2/7	1/7	30/6	29/6
No	No	No	No	No	No	No

The spill information we provide is based on our assets such as combined sewer overflows. If sewers serving nearby towns and villages become overwhelmed during times of intense rainfall, overflows can operate to prevent flooding of property, highways and open spaces.

Weston-super-Mare bathing water improvements

- £30m, completed 2015
- More Aeration lanes
- More Final settlement tanks
- New Tertiary treatment (UV)
- 21,000 m³ storage
- Superpond partnership scheme



Burnham Jetty bathing water improvements

- Poor bathing water quality under revised standards
- WW committed to half overflow spills
- £39m investment between 2015 to 2018.



Bathing Water Quality

Find Get the data Glossary Help

Web widgets

EA open datasets

2016 Bathing Water Profile for Burnham Jetty North

Somerset, England

Current water quality classification is Poor, based on samples taken from 2012 through to 2015. Water quality warnings:



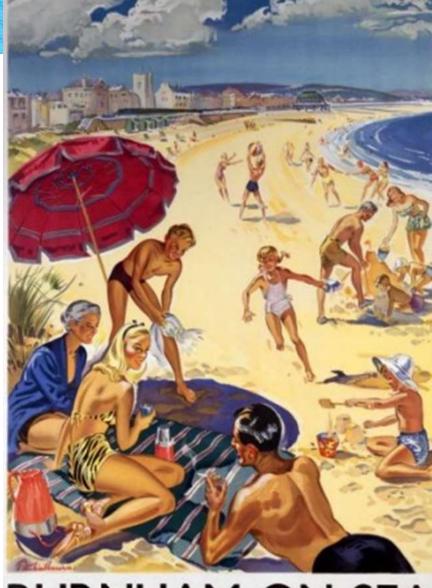




About

Burnham Jetty North is within Bridgwater Bay, part of the Somerset coast overlooking the Bristol Channel. It is a sand and mud beach resort, approximately 2.2 kilometres wide and backed by a sea defence wall. The beach has a shallow slope and a very large tidal range (11 metres). At low tide, the sea lies up to half a kilometre from the beach, inaccesible on foot due to the dangerous intertidal mudflats. The rivers Brue and Parrett both flow into the Bay just south of the bathing water. Bridgwater Bay is a National Nature Reserve: an important habitat for

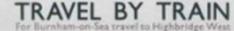




BURNHAM-ON-SEA

THE FAVOURITE FAMILY RESORT

Illustrated guide from, The Publicity Officer, 46 High St.



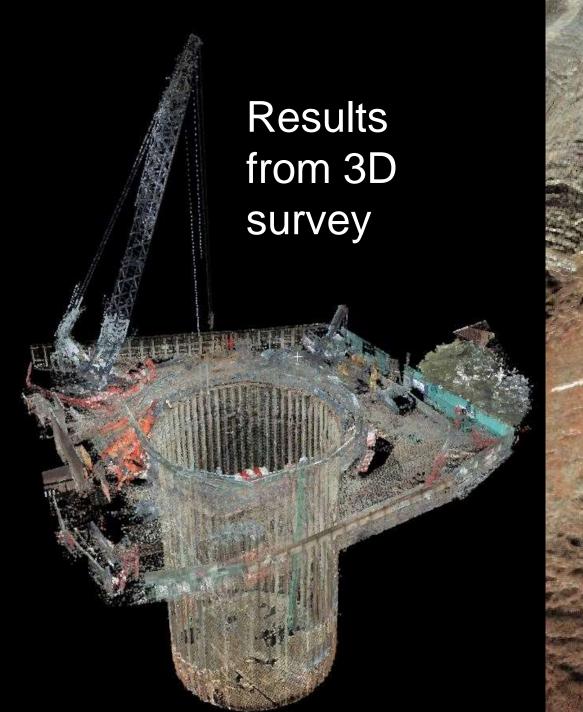


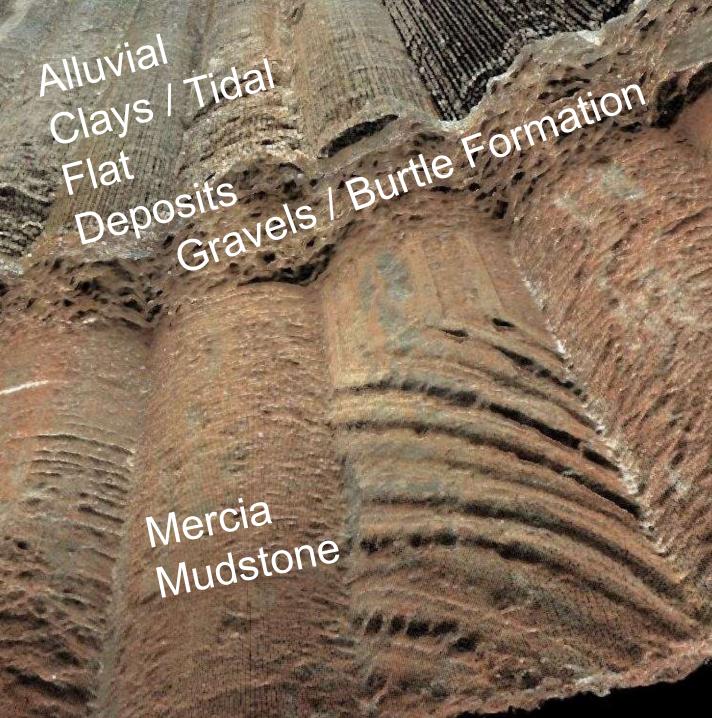




















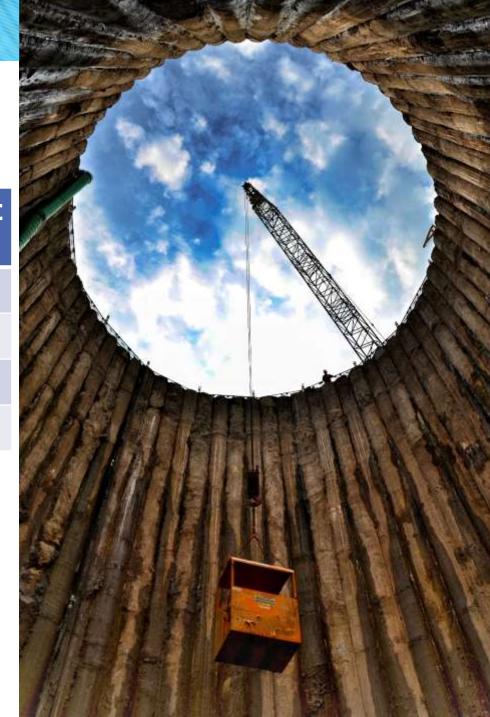
Burnham Jetty overflow improvements

 Where we are providing storage we are future proofing the design

Scheme	Spills prior to works	Works	Spills post works
Bristol Road	21	3000 m^3	1
Colley Lane	19	5000 m^3	1
Sloway Lane	3	1200 m ³	1
West Quay	16	2500 m ³	1

*Spills per bathing season

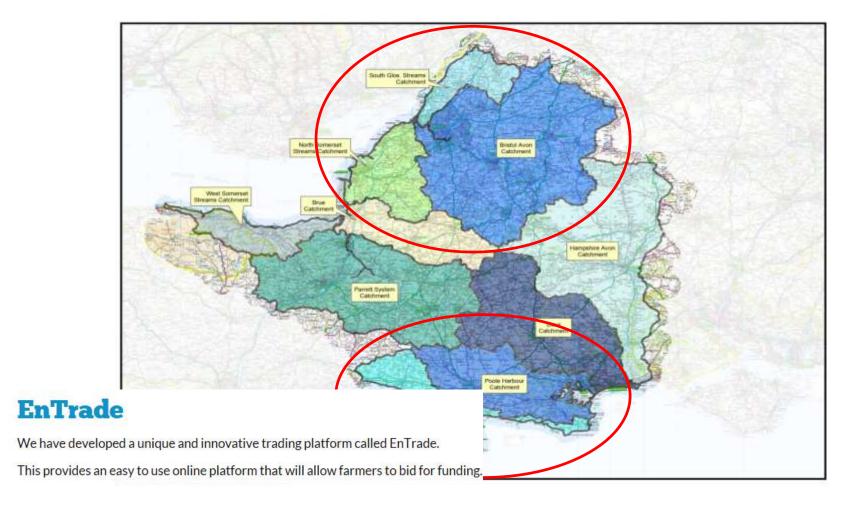
- Other improvements include:
 - Combining 2 treatment works and installing tertiary UV treatment
 - Increasing pass forward flows
 - UV disinfection of overflow



It's not just about new assets

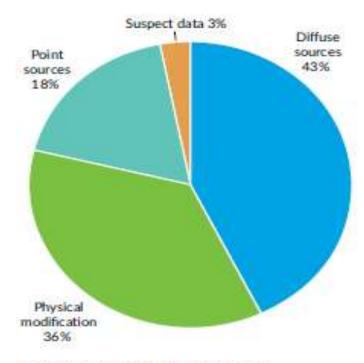
Bristol Avon catchment

Testing ground for: catchment permitting and catchment partnership





Reasons for not achieving WFD status Bristol Avon



Source: EA Catchment information pack

Bristol Avon catchment partnership

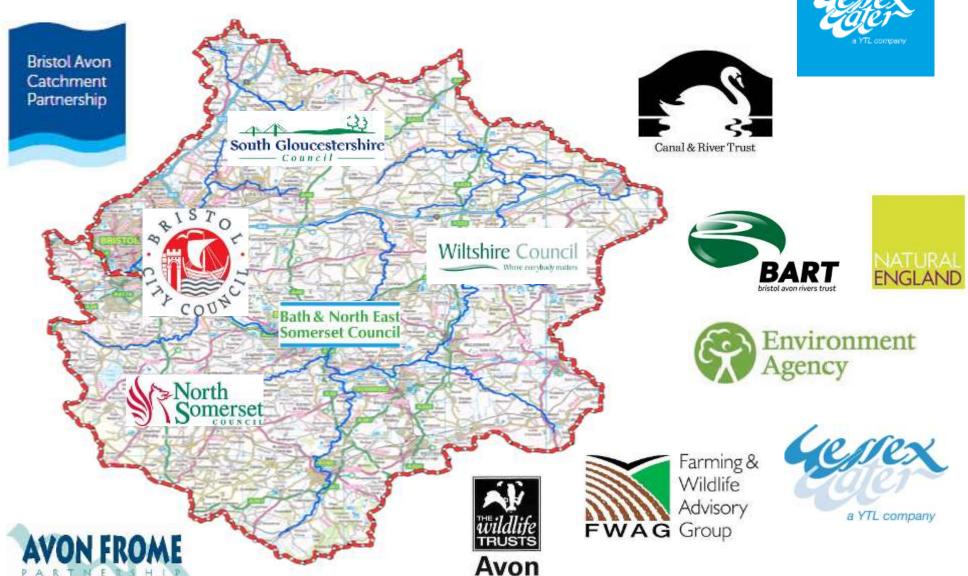














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Biomethane

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Energy Energy

ENVIRONMENTAL BENEFITS

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Gas to Grid

Our facility in Avonmouth is a state of the art anaerobic digestion plant with depackaging capability. Renewable energy, in the form of ectrical plants are the biogas produced in the digestion process, and the solid digestate is a used as sustainable agricultural biofertiliser.

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SOMERSET

Illustrated guide from Publicity Officer, Victoria Street

TRAVEL BY TRAIN

