

A Welsh Tale

COLLABORATIVE WORKING AT ITS BEST

Rod Thomas





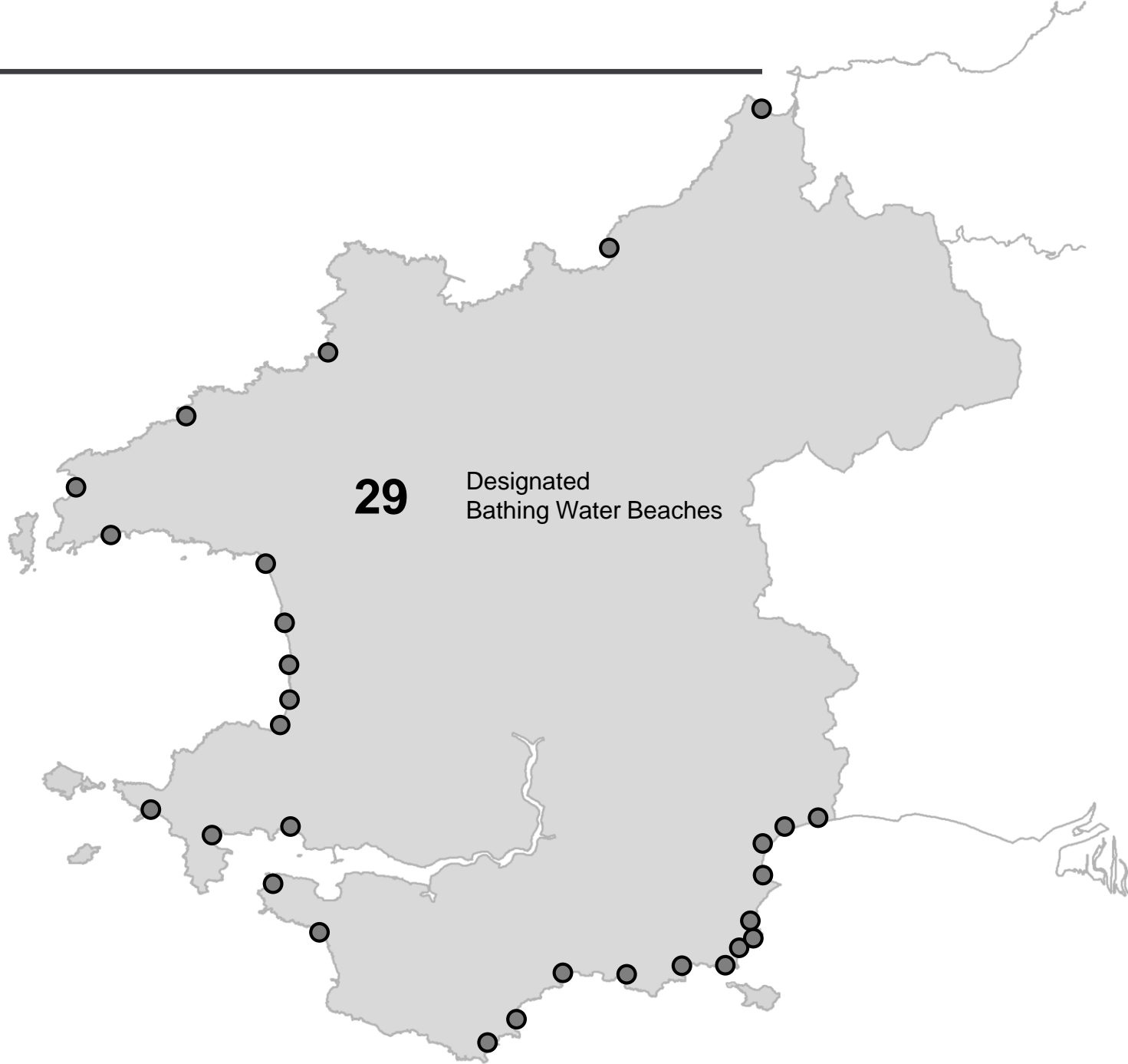
Cyfoeth Naturiol Cymru
Natural Resources Wales

- Environmental regulator
- Authority for wildlife conservation, landscape and countryside access
- Manager of publicly-owned forests

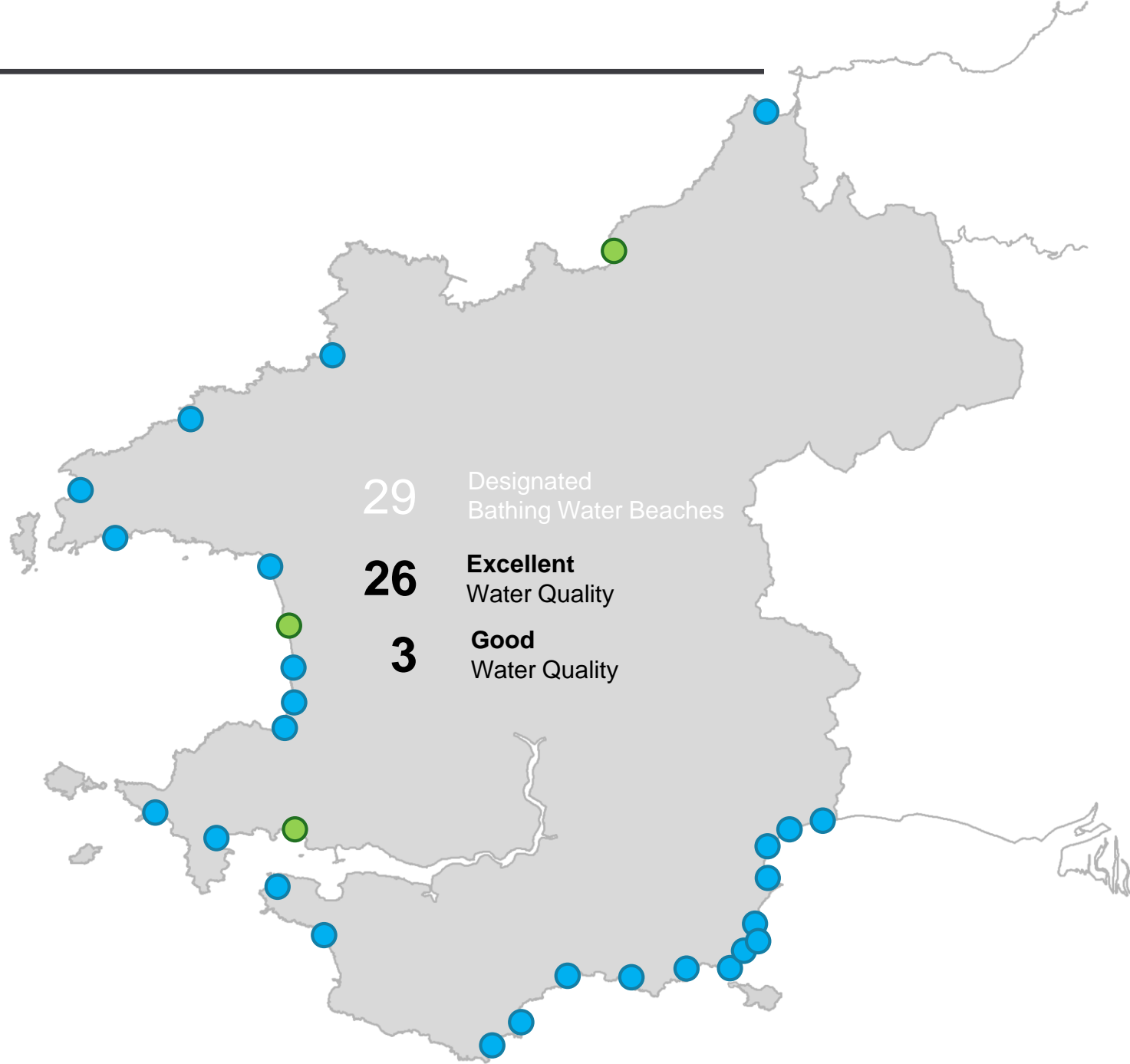
- **Pembrokeshire**



Our Beaches



Our Beaches



Our Challenges

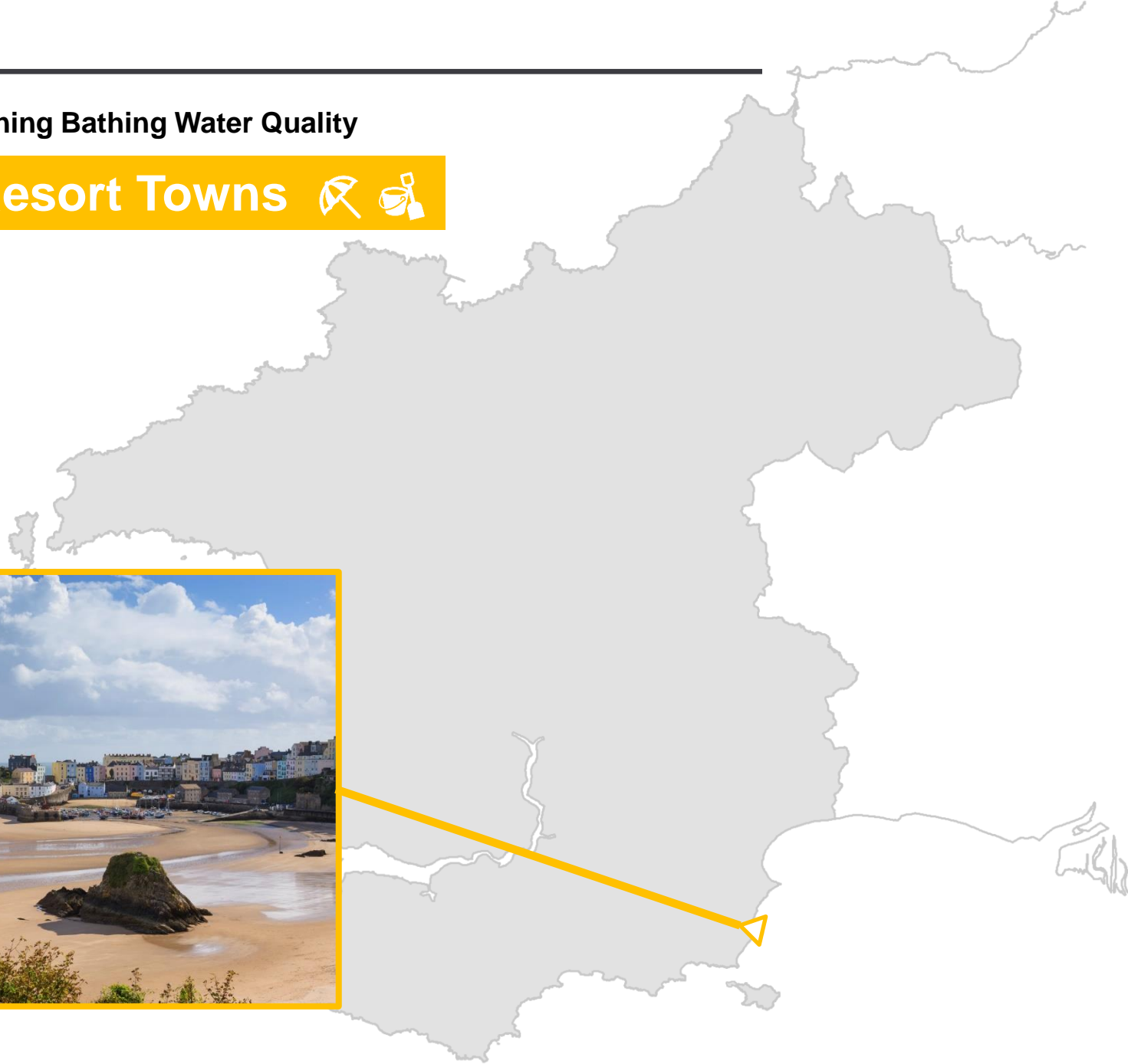


Hasn't always been this way



Difficulties in Maintaining Bathing Water Quality

Tourism – Resort Towns



Difficulties in Maintaining Bathing Water Quality

Tourism – Resort Towns  

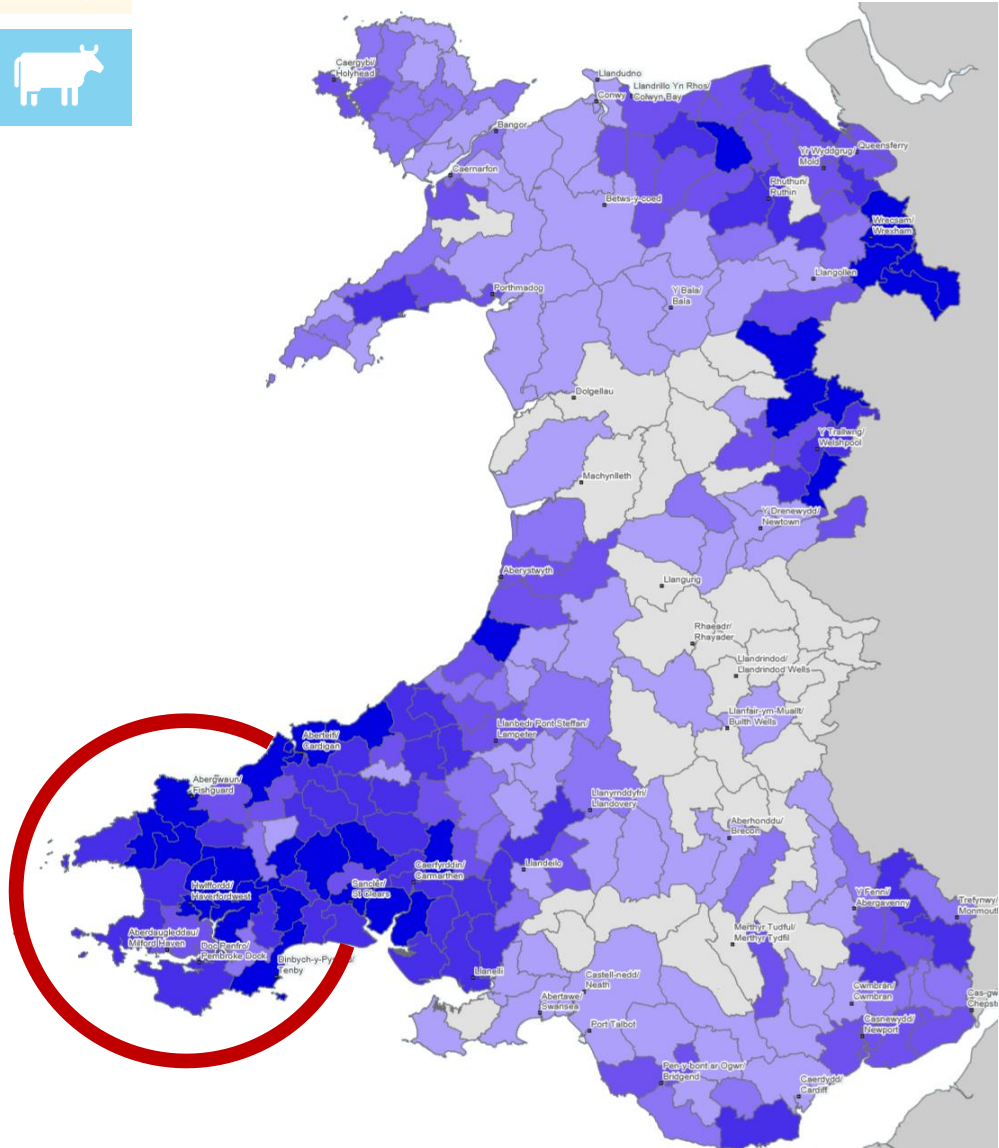
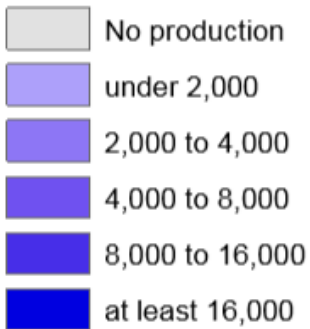
Intensive dairy farming 



Difficulties in Maintaining Bathing Water Quality

Tourism – Resort Towns 

Intensive dairy farming 

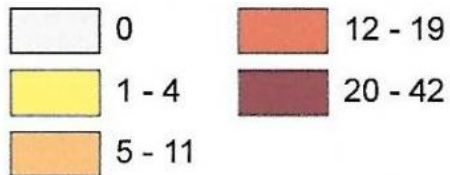


Dairy Production ('000 ltrs)
Data correct to 2012

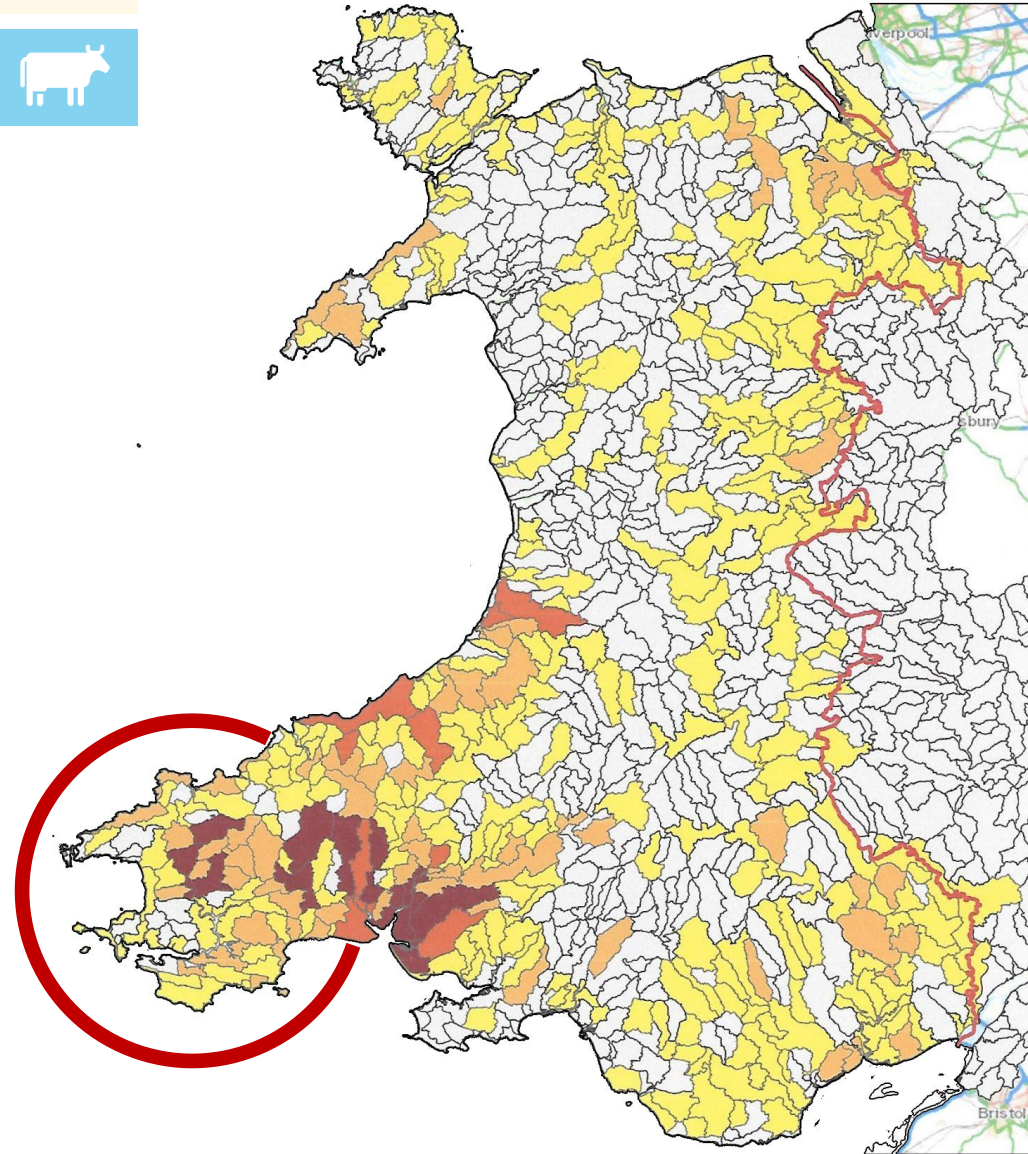
Difficulties in Maintaining Bathing Water Quality

Tourism – Resort Towns 

Intensive dairy farming 



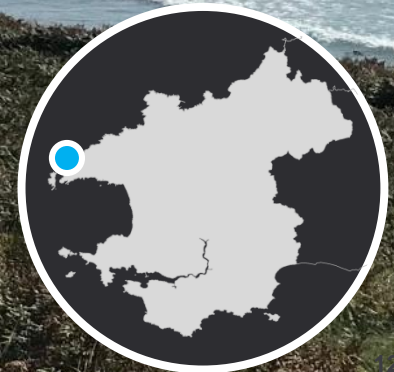
Count of agricultural incidents
by WFD catchment
(01/2010-03/2018)



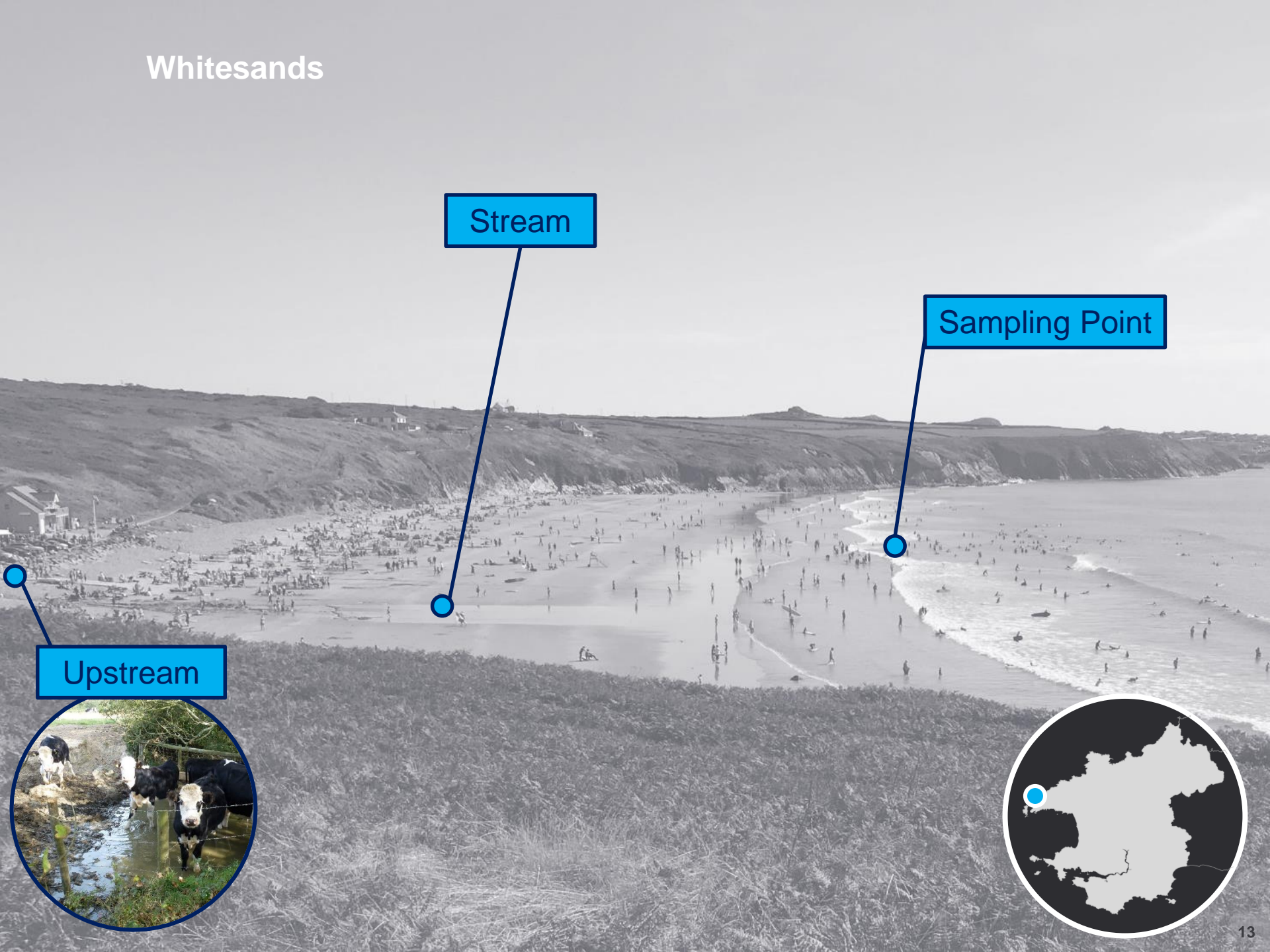
Difficulties in Maintaining Bathing Water Quality: Site Specifics



Whitesands



Whitesands



Stream

Sampling Point

Upstream



Broad Haven

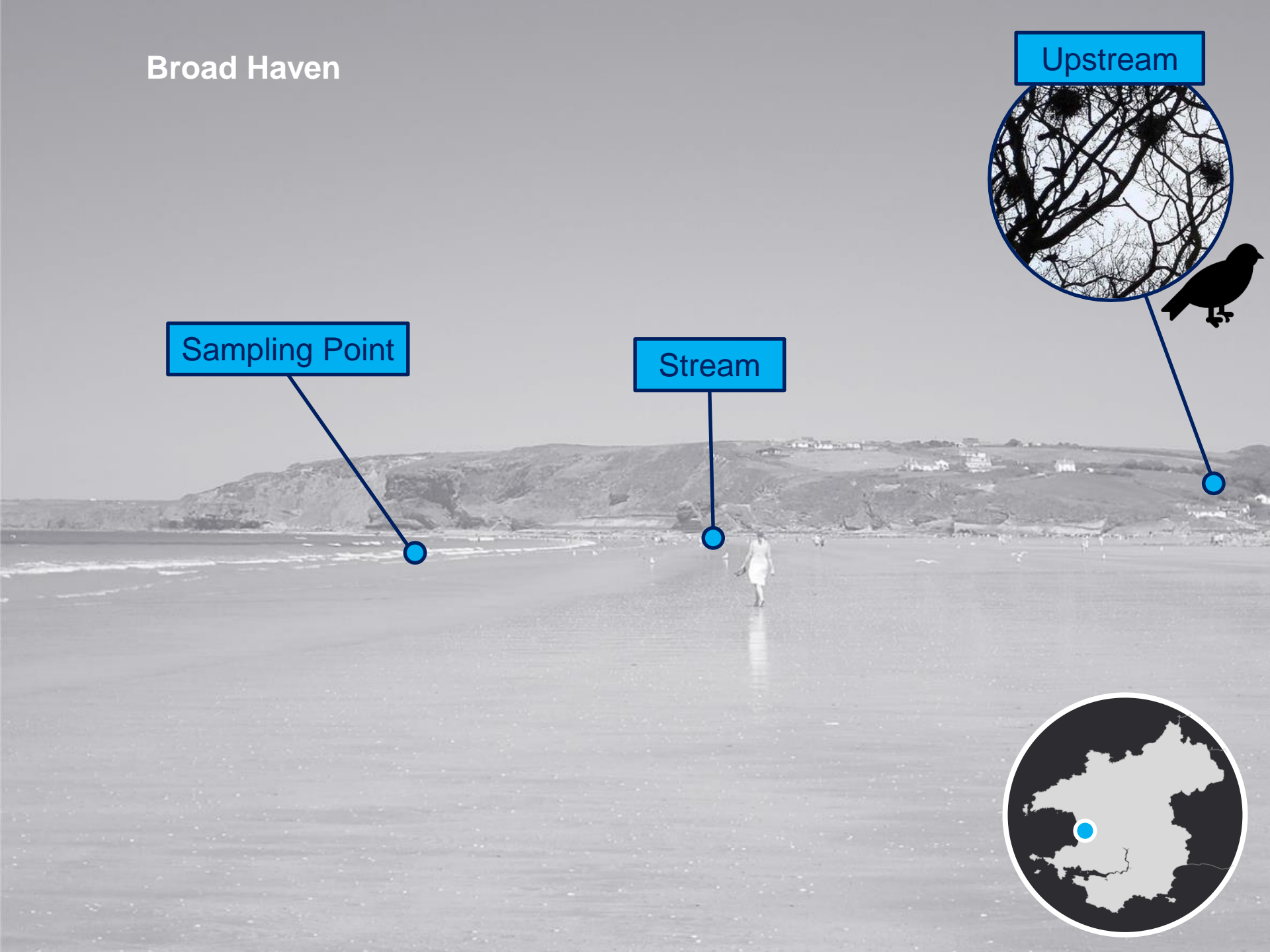


Broad Haven

Sampling Point

Stream

Upstream



Marloes



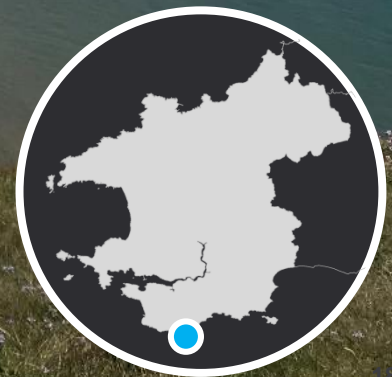
Barafundle



E coli.
10.0
cfu



Broad Haven South



Our partners



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales



Pembrokeshire
County Council



**Parc Cenedlaethol
Arfordir Penfro**

**Pembrokeshire Coast
National Park**

Our partners



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales



**Pembrokeshire
County Council**



**Parc Cenedlaethol
Arfordir Penfro**
**Pembrokeshire Coast
National Park**



Dŵr Cymru
Welsh Water



cadwch keep
gymru'n wales
daclus tidy



**National
Trust**

Our partners



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales



Pembrokeshire
County Council



**Parc Cenedlaethol
Arfordir Penfro**
**Pembrokeshire Coast
National Park**



Dŵr Cymru
Welsh Water



cadwch keep
gymru'n wales
daclus tidy



**National
Trust**



Her Majesty's
Coastguard



Lifeboats



Llywodraeth Cymru
Welsh Government

Our partners



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales



Pembrokeshire
County Council



**Parc Cenedlaethol
Arfordir Penfro**
**Pembrokeshire Coast
National Park**



Dŵr Cymru
Welsh Water



cadwch keep
gymru'n wales
daclus tidy



**National
Trust**



Her Majesty's
Coastguard



Lifeboats



Llywodraeth Cymru
Welsh Government

Other consultees



Dyfed-Powys
Police



Dogs**Trust**



Our partners



**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**



**Dŵr Cymru
Welsh Water**



**Her Maestri
Coast**



**Dyfed-Powys
Police**

Other consultees

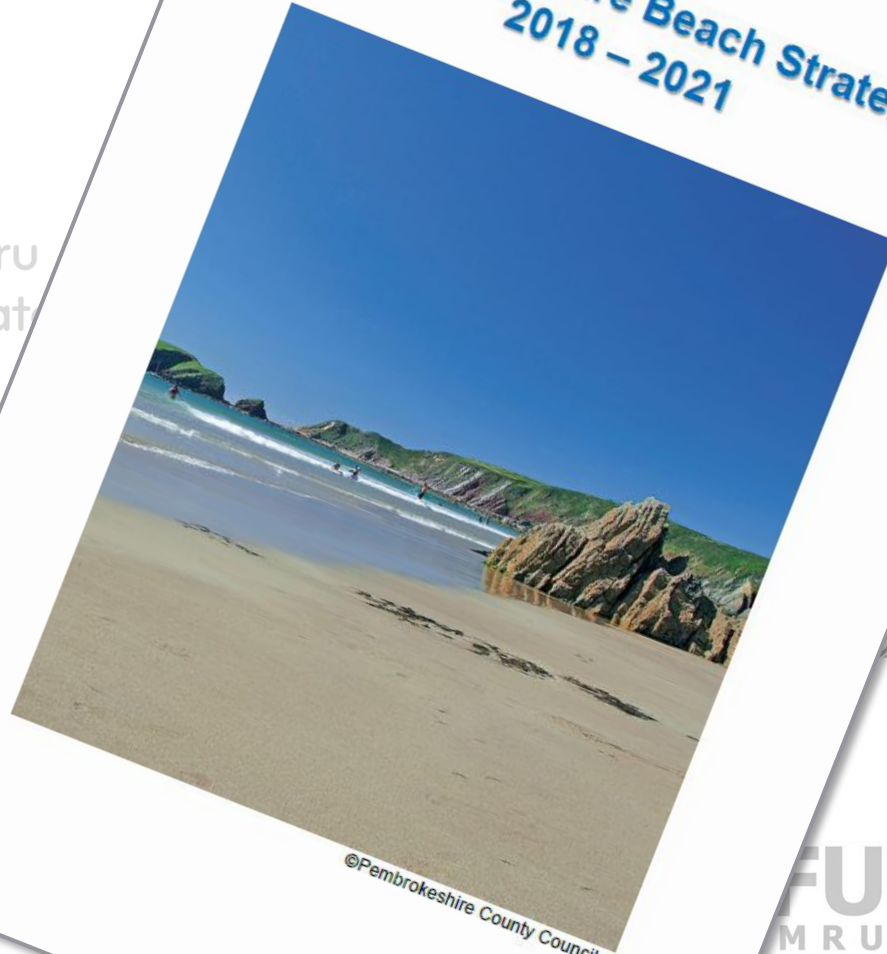


**Parc Cenedlaethol
Arfordir Penfro
Pembrokeshire Coast
National Park**

**National
Trust**



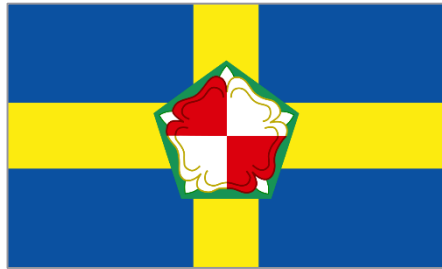
**Llywodraeth Cymru
Welsh Government**



©Pembrokeshire County Council



Driving factors



‘A visit to a Pembrokeshire beach is the best experience that it can be’
~ **Pembrokeshire Beach Strategy**

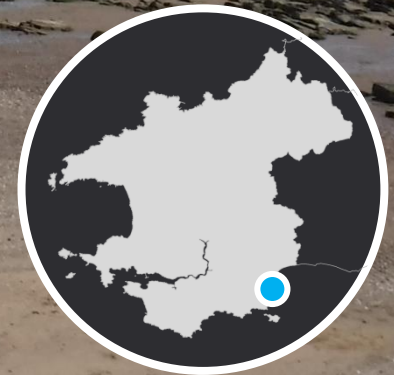


Wellbeing of Future Generations
(Wales) Act 2015












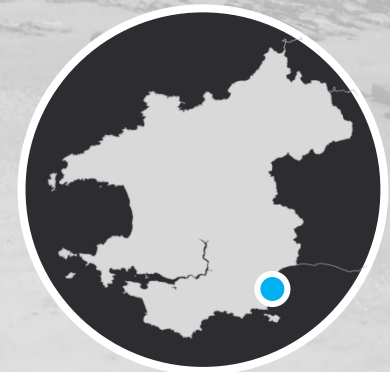
European Directives

Wiseman's Bridge



Wiseman's Bridge

2011	2012	2013	2014	2015	2016	2017	2018	2019
								



Wiseman's Bridge

Ford's Lake river



Wiseman's Bridge

Residential dwellings
not mains sewer
connected



Wiseman's Bridge

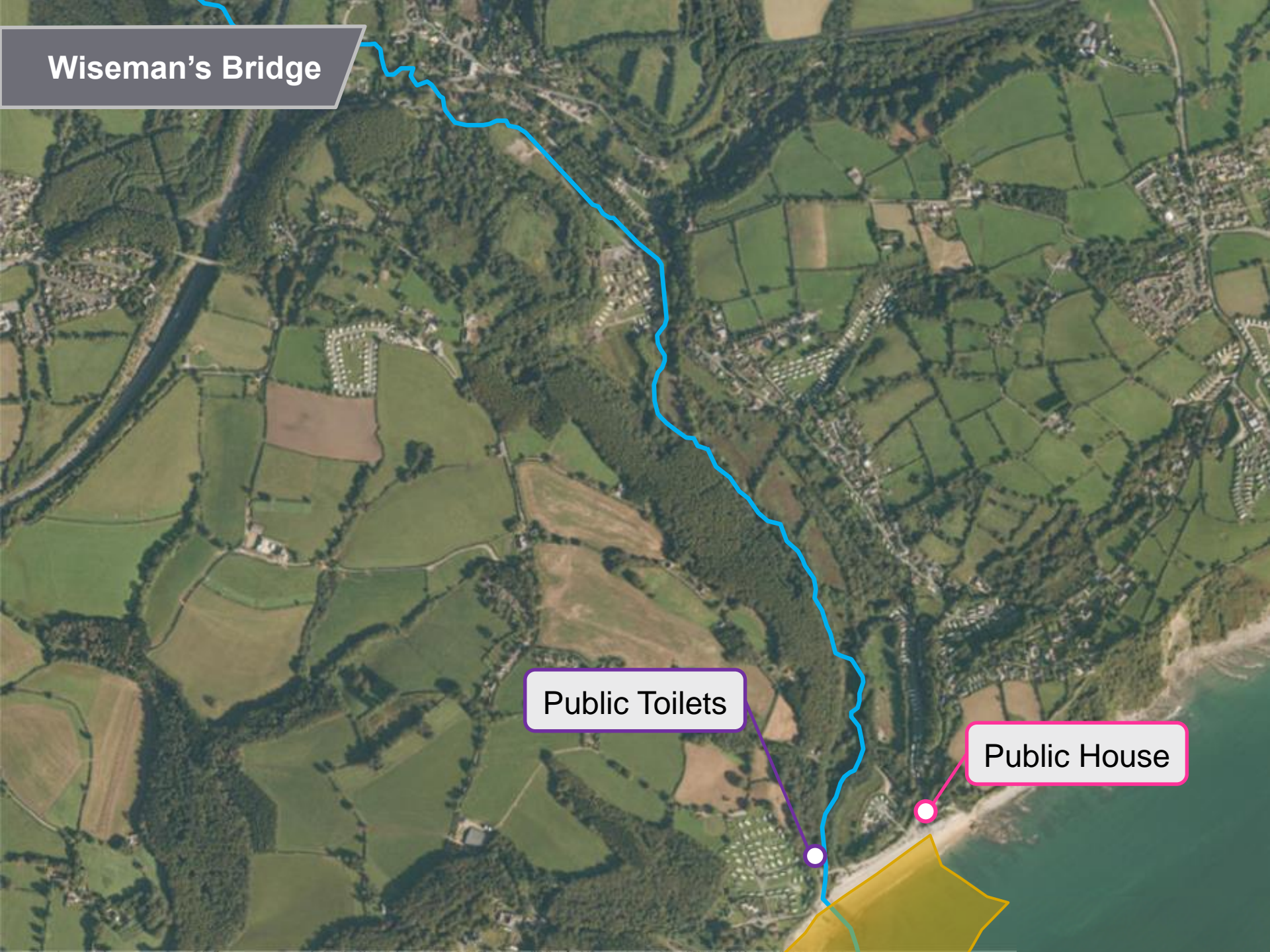
Caravan Parks /
Seasonal accommodation



Wiseman's Bridge

Public Toilets

Public House



Wiseman's Bridge

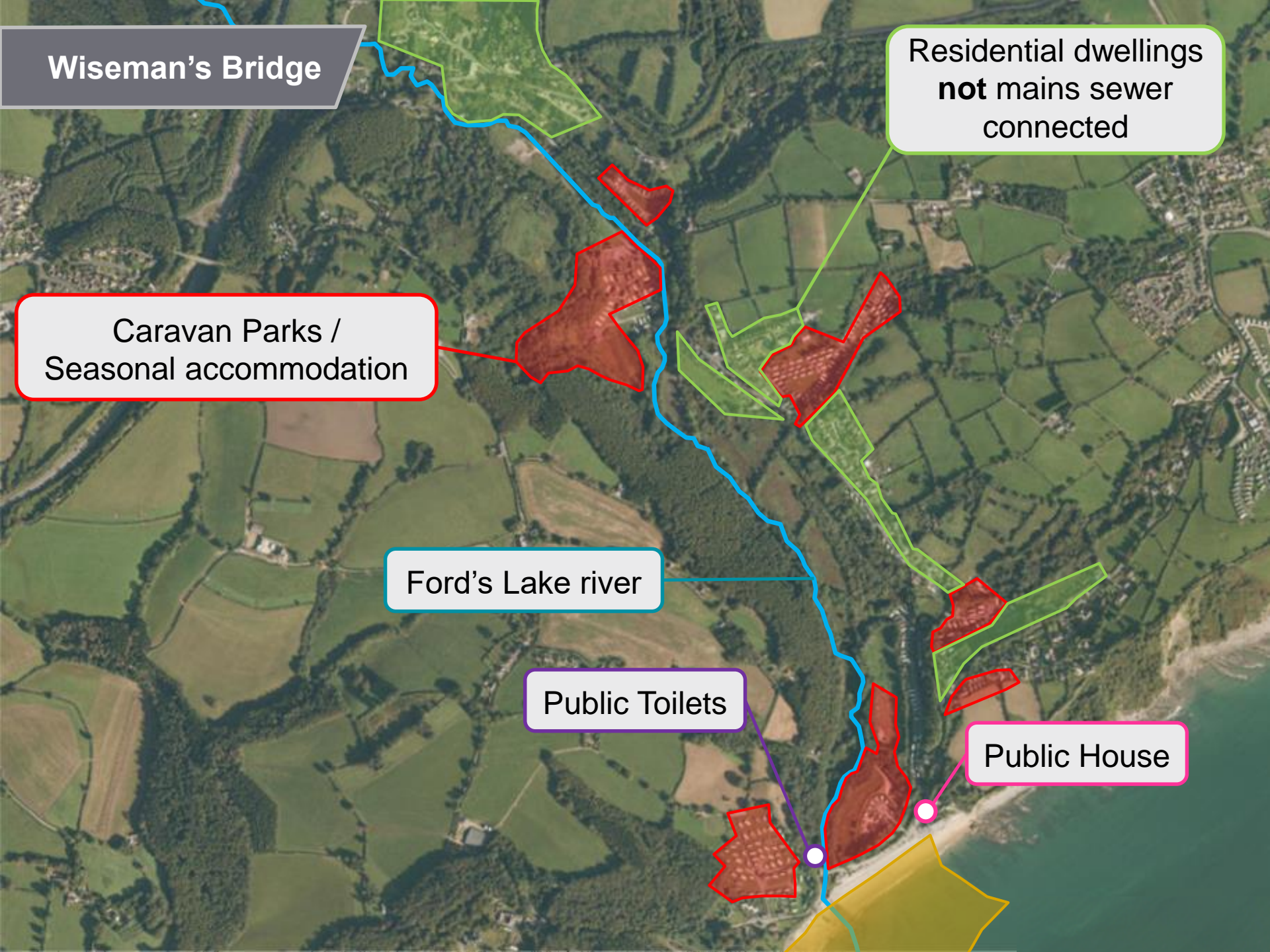
Residential dwellings
not mains sewer
connected

Caravan Parks /
Seasonal accommodation

Ford's Lake river

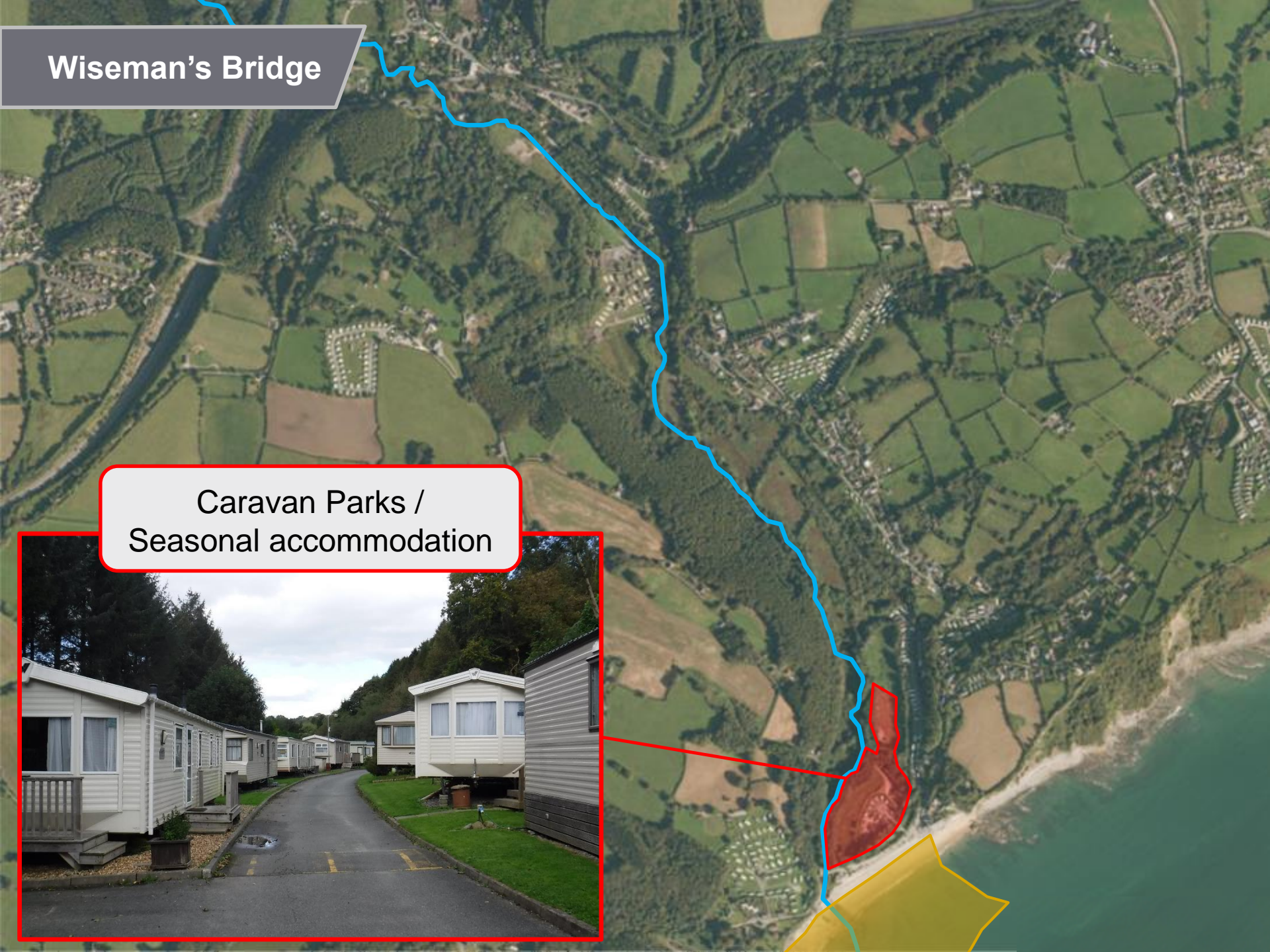
Public Toilets

Public House



Wiseman's Bridge

Caravan Parks /
Seasonal accommodation



Wiseman's Bridge

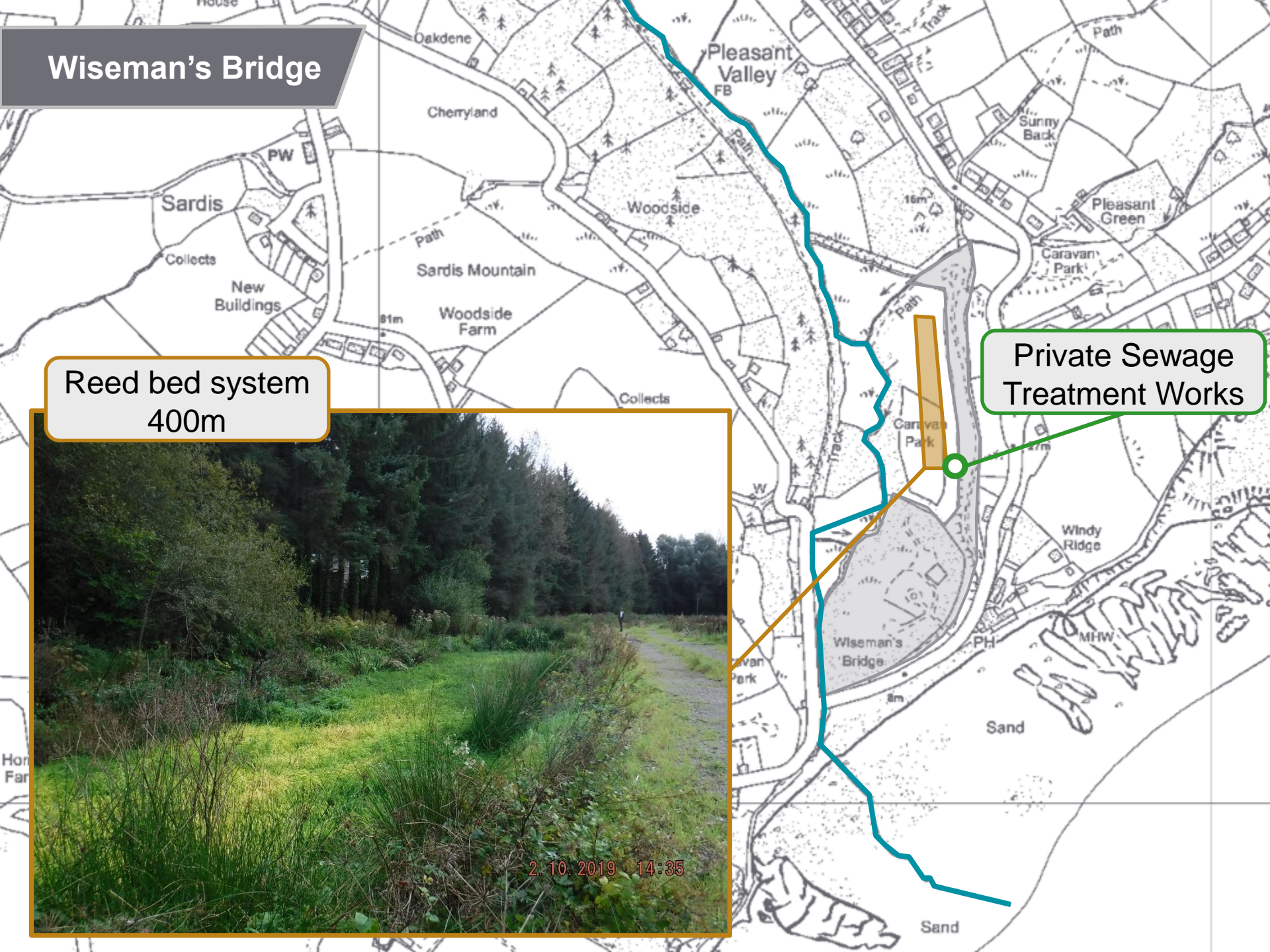
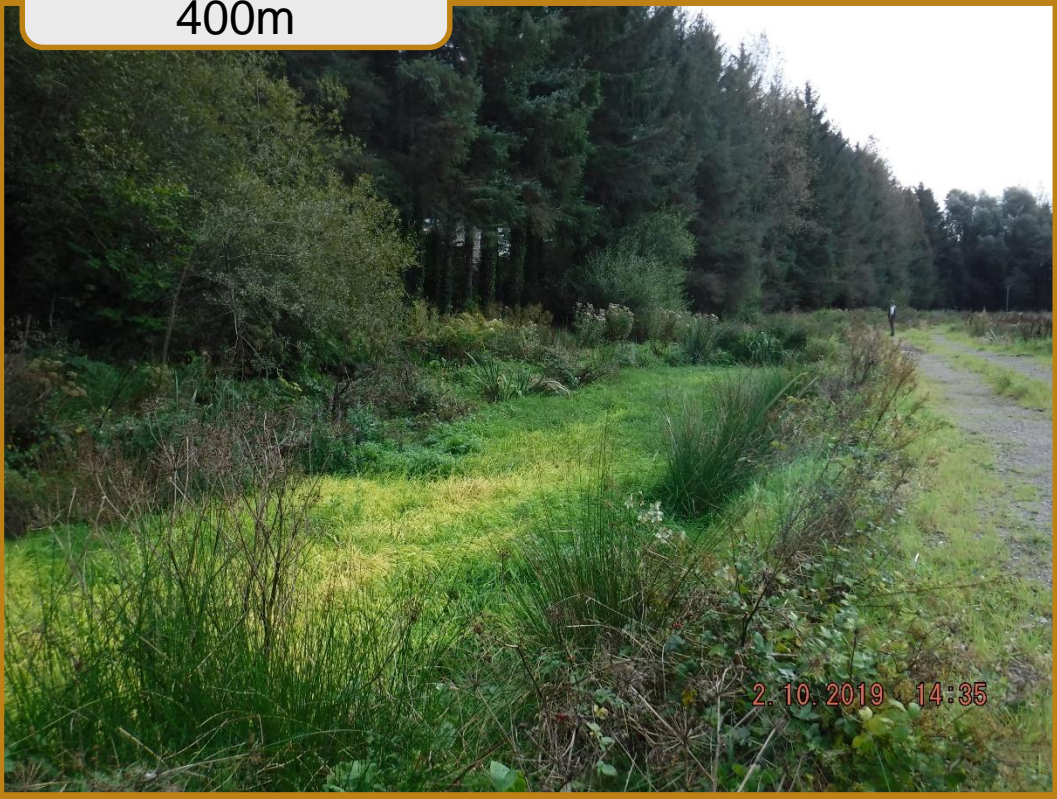
Private Sewage Treatment Works



Wiseman's Bridge

Reed bed system
400m

Private Sewage
Treatment Works



2/3

1/3

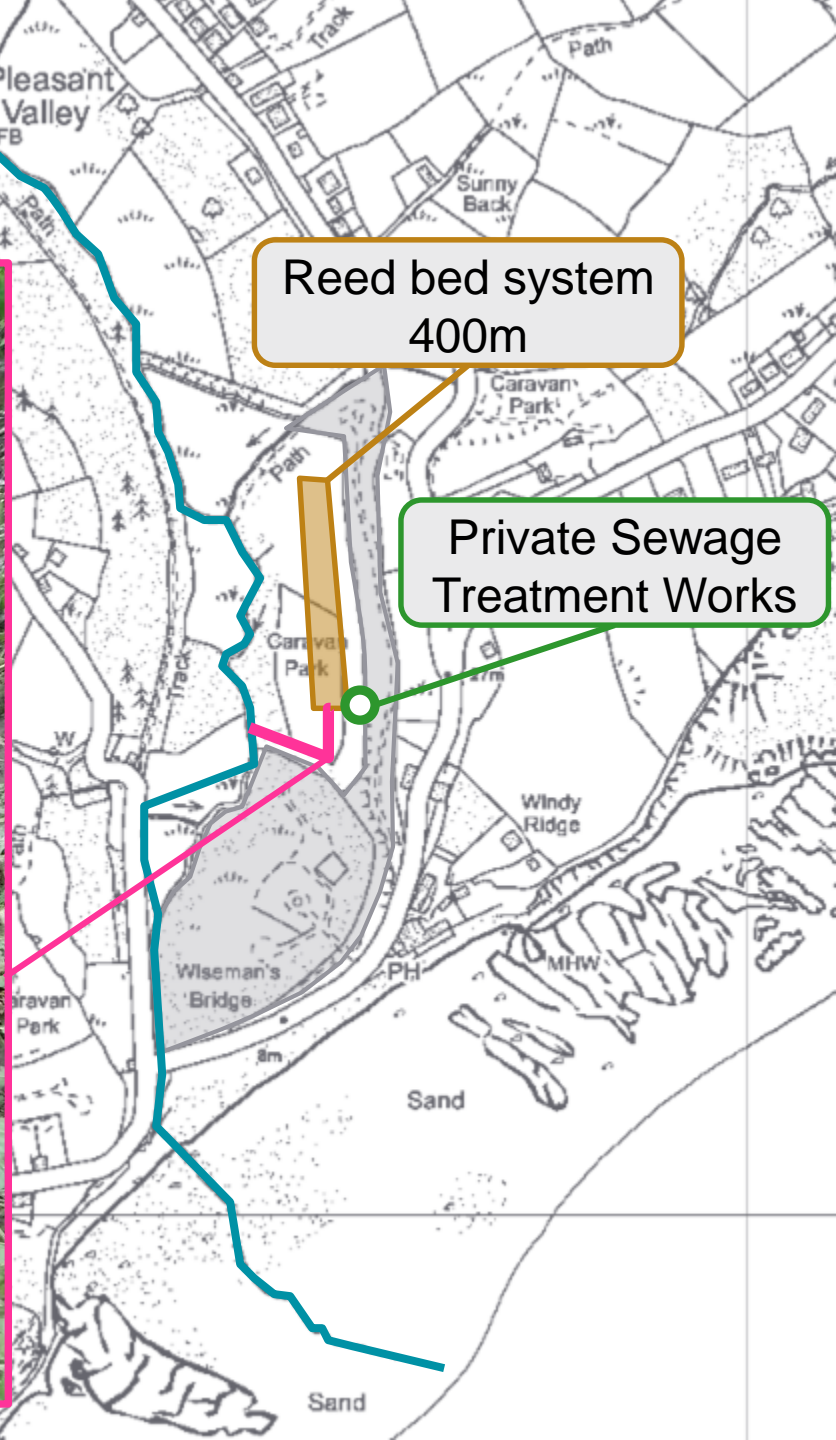
0












2.10.2019 14:35

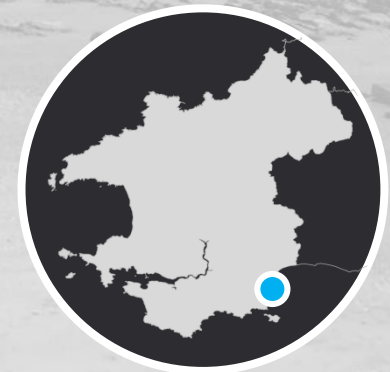
Wiseman's Bridge

Discharge to river



Wiseman's Bridge

2011	2012	2013	2014	2015	2016	2017	2018	2019
								



Going after the last three



Nolton Haven

Newport

Sandy Haven



Prediction model: warn and inform



Going after the last three

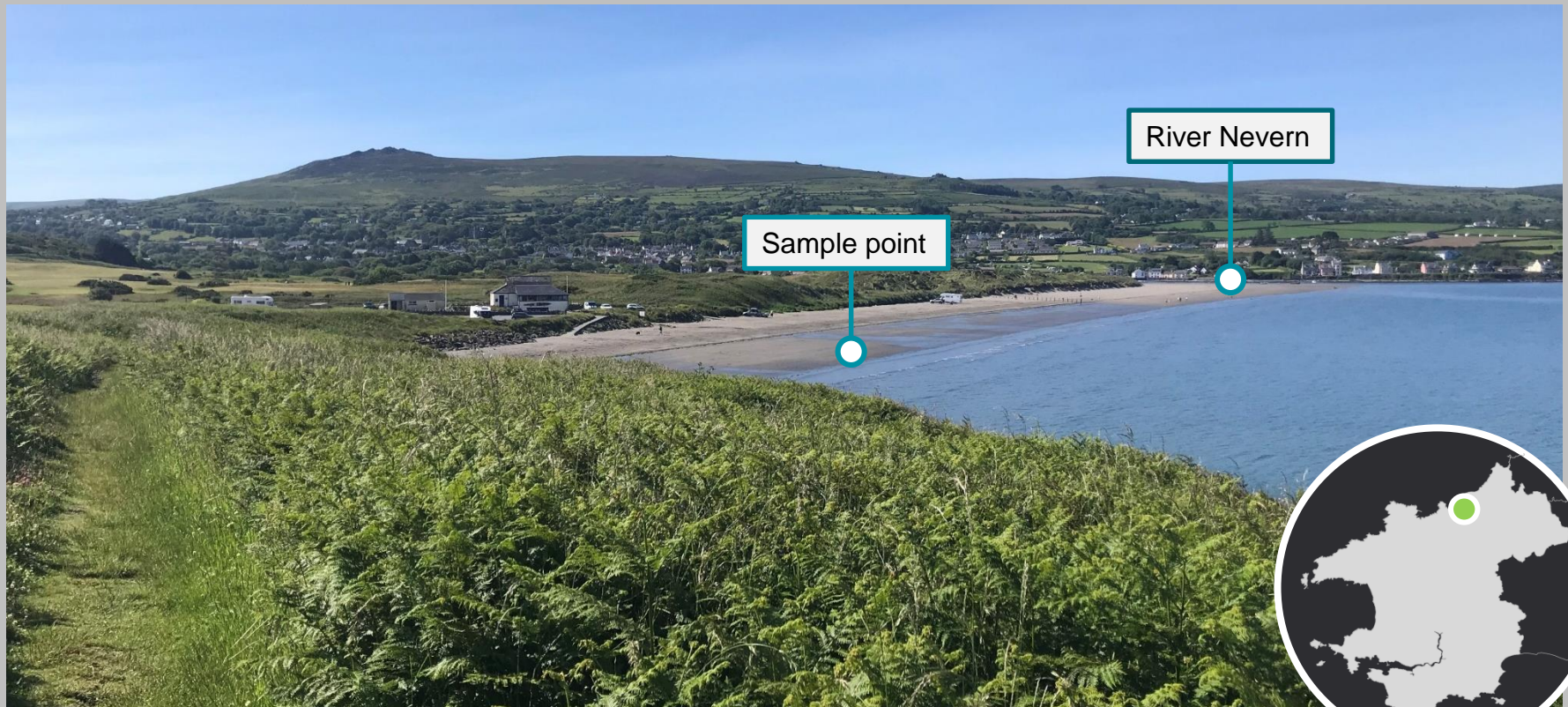


Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales

Nolton Haven

Newport

Sandy Haven





Going after the last three

Nolton Haven

Newport

Sandy Haven

Sandy Haven Pill

Sampling Point

Sewage discharge point



Key Messages

It's not easy



Long process of chipping away



Working together is fundamental



Don't 'rest on your laurels'



Thank you



Thank you



Excellent Water Quality