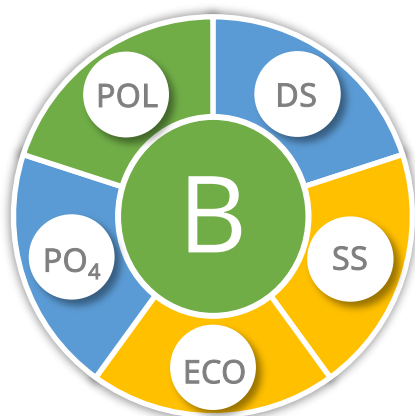


Westcountry CSI Scorecard 2020

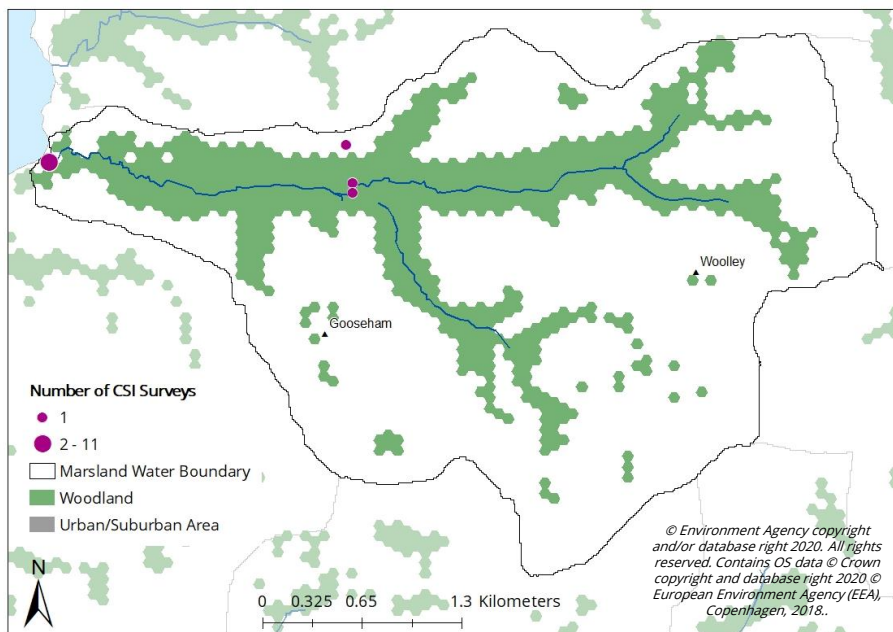
Marsland Water North Devon



River Health Scale



The overall score for the catchment is based on a year's data, collected at all sites in the **Marsland Water** Waterbody. It is calculated from the observations and water quality results attained during a Westcountry Citizen Science Investigation (CSI) survey. A waterbody has to have at least 12 samples taken over the year for it to qualify for a scorecard.



MARSLAND WATER 2020

69%

Overall grade



DS

Dissolved Solids are measured using a handheld TDS meter. DS increase as a result of natural and anthropogenic inputs of things like chemicals, slurry, sewage or salts into the waterbody.

ECO

The **Ecology** score is calculated from wildlife and problem plants spotted. Wildlife spotted near a river, indicates that the river is supporting a healthy food chain. Problem plants reduce this score as they can cause issues for the biodiversity of the watercourse by shading out other plant species.

SS

Suspended Solids or Turbidity is measured using a turbidity tube. SS increase as a result of increased soil erosion, mine discharge and road runoff. An increase in SS reduces water clarity, making it difficult for aquatic organisms to survive.

PO₄

Phosphate (PO₄) is a vital nutrient for the healthy growth of all organisms and is found in natural and artificial fertilisers, sewage and industrial wastes. Natural levels are very low and thus any measurable phosphate observed is likely due to anthropogenic influences such as misconnections, farm runoff or industrial discharge. PO₄ is measured using strips which turn blue in the presence of phosphate.

POL

The **Pollution** score is calculated from the observations of pollution sources and evidence of recent pollution (e.g. litter or oil). These give an indication of the pollution pressures on that watercourse.

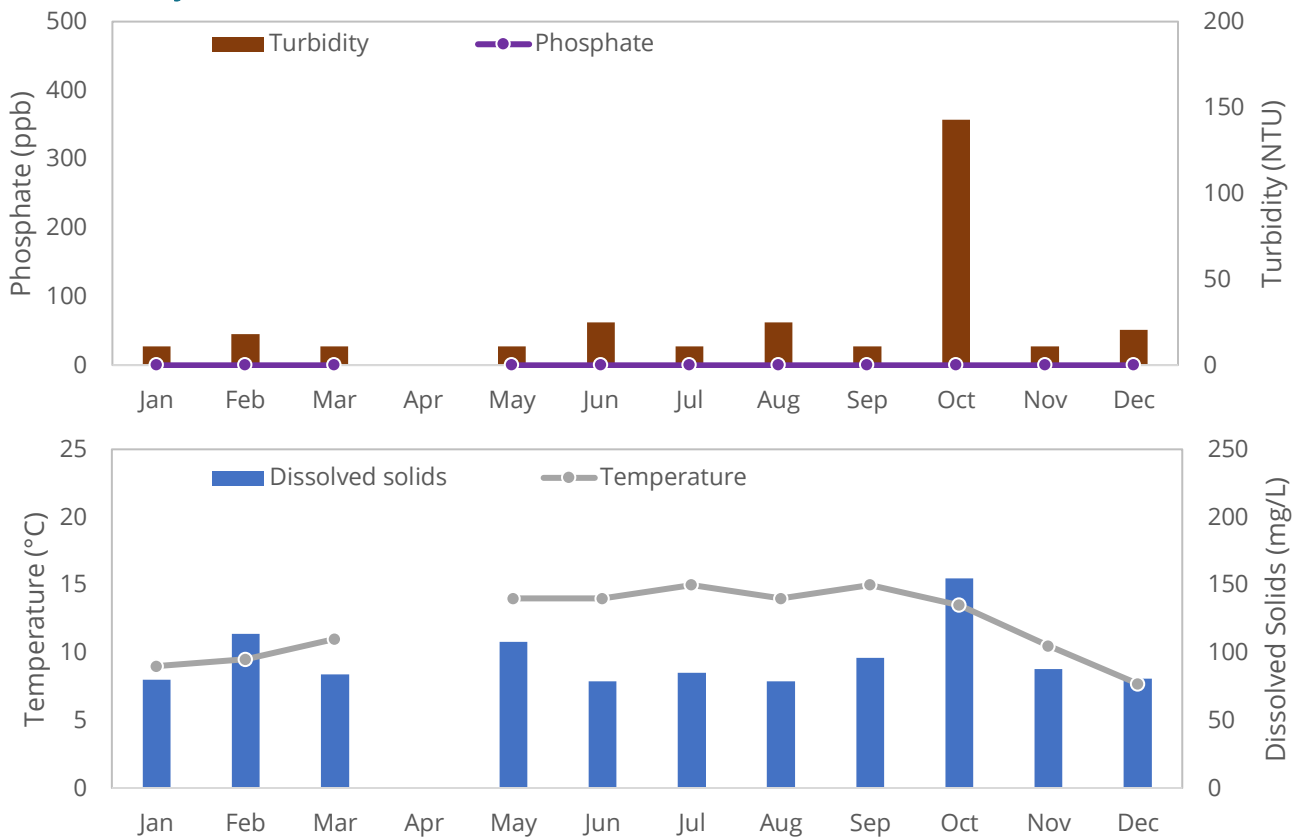
Catchment Summary

Marsland Water is located in **North Devon** with main centre of population being **Gooseham**. There are **three** sample points and **two** active samplers in this waterbody, with **13** Westcountry CSI surveys taken in total during 2020.

The predominant land use within 50m of these sites is **grassland/pasture** (11) and **woodland** (2). The majority bankside ecosystems are **grass** (11) and **trees or shrubs** (2).

There were no problem plant species spotted in this waterbody. During the year, one **grey wagtail** and multiple aquatic invertebrates and birds were seen. The pollution pressures on the waterbody come from **collapsed river bank** (10), **farm runoff (slurry/silage)** (2) and an **outfall causing odour** (1). There has been observations of recent pollution from **foam** (2), **oily sheen** (1) and **unpleasant odour** (1).

Water Quality Test Results



How to Use This Scorecard

The Westcountry CSI scorecards are produced to visualise the data collected by the volunteers across the Westcountry and to give an idea of the health of our rivers and streams. Due to the nature of the scheme and COVID 19 lockdown restriction there are gaps in the data. It should be noted that non of the sample points were sampled 12 or more times. Numbers in brackets in the catchment summary indicate the number of sightings of each species observed throughout the year.

Become a Westcountry Citizen Science Investigator!

Join Westcountry CSI and help to monitor a river or stream in your local area. To find out more and get in touch, visit our website: wrt.org.uk/project/become-a-citizen-scientist/ or email us at csi@wrt.org.uk.

About Westcountry Rivers Trust

The Westcountry Rivers Trust is an environmental charity (Charity no. 1135007, Company no. 06545646) established in 1995 to secure the preservation, protection, development and improvement of the rivers, streams, watercourses and water impoundments in the Westcountry and to advance the education of the public in the management of water.



This project has been supported by the North Devon AONB Sustainable Development Fund

