

Water body information sheet for water body 10509 in Solway

General details

Water body name:	River Bladnoch (u/s Black Burn)
Water body Identifier code:	10509
Length:	12.96 km
Water body category:	River
River basin district:	Solway Tweed
Area advisory group:	Solway
Catchment:	River Bladnoch
Associated protected areas:	River Bladnoch - FRESHWATER FISH (EXISTING) River Bladnoch - SPECIAL AREA OF CONSERVATION Ring Moss - SSSI
Associated groundwater:	Galloway
Responsible body:	SEPA Dumfries & Galloway
Heavily modified:	No
Artificial:	No
Typology:	Lowland Small Siliceous
National Grid Reference:	NX 32143 70304
Latitude:	54.99893
Longitude:	-4.62574

Current status of this water body

Classification results are updated annually, as part of SEPA's commitment to monitor and assess the condition of the environment.

Once the classification is agreed, as part of river basin management planning, the pressures and measures for every water body are reviewed to ensure that they reflect this improved understanding of the environment. Objectives are reviewed as part of the six yearly planning cycle and any proposed changes to objectives will be presented in the draft river basin plans http://sepa.org.uk/water/river_basin_planning.aspx.

This worksheet was produced using the most up to date classification results but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

We have classified this water body as having an overall status of Moderate with High confidence in 2012 with overall ecological status of Moderate and overall chemical status of Pass.

The overall classification of status is made up of many different tiers of classification data. A complete set of classification data for 2012 is shown at the end of this document.

Targets for the future status of this water body

We have set environmental objectives for this water body over future river basin planning cycles in order that sustainable improvements to its status can be made over time, or alternatively that no deterioration in status occurs, unless caused by a new activity providing significant specified benefits to society or the wider environment.

For this water body we have set the overall environmental objectives for the first, second and third River Basin Management Planning (RBMP) cycles as:

Year	2012	2015	2021	2027
Status	Moderate	Moderate	Moderate	Moderate
Year	2012	2015	2021	2027
Status	Moderate	Pass	Pass	Pass

Pressures and measures on this water body

We have established an ongoing programme of monitoring in order to identify pressures on our water bodies.

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The pressures listed below contribute to this water body's failure to meet good ecological status or potential. River basin planning allows us to plan improvements for particular parameters over time. We have collaborated with others to identify measures which will act to protect or improve our water environment in order that all water bodies reach good status over successive RBMP cycles.

The following table shows our collated information on the pressures on this water body, their causes and the measures which could be introduced to mitigate their effects. We have also indicated the current funding status of the measure; with projected measures being potentially funded and agreed measures having funding in place. Finally, we have included information on the potential or actual owner of the measure, the date it will be effective and information on the justification for extending the deadlines or for setting an alternative objective, where appropriate.

Pressure	As a Result of	Assessment Parameter	Objective	Reasons for Failure
	Measure	Funding	Owner	Effective date
Diffuse Source Pollution	Production of non-renewable electricity (eg: by coal, gas, nuclear or pumped hydro)	pH	Moderate by 2015	Ecological recovery time
Morphological Alterations	Forestry Intensive use - cultivating / planting to the bank	Riparian Vegetation	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Improvement to condition of riparian zone and/or wetland habitats	Agreed	Forestry Commission Scotland	31/12/2026
Diffuse Source Pollution	Forestry	pH	Moderate by 2015	Ecological recovery time
	Non-urban land management measures	Neither Agreed nor Projected	Forestry Commission Scotland	31/12/2026

Footnote – These results show current classification but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

Future work

Additional work to identify pressures and to develop and implement measures to mitigate their impacts will continue over subsequent river basin cycles.

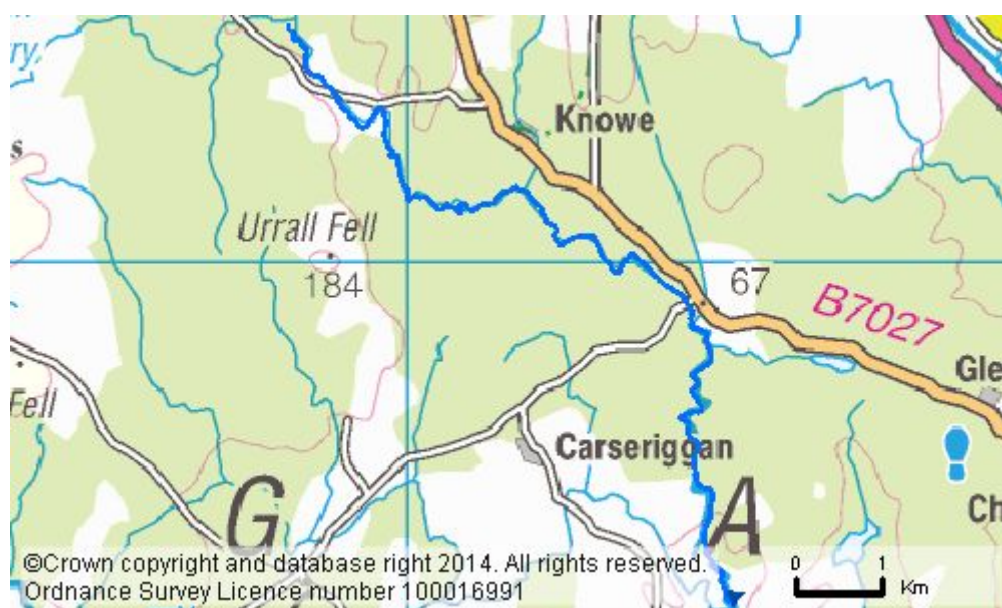
Complete classification for this water body in 2012

Parameter	Status	Confidence of Class
OVERALL STATUS	MODERATE	HIGH
Pre-HMWB status	Moderate	High
Overall chemistry	Pass	Low
Priority substances	Pass	Low
Cadmium	Pass	Low
Lead	Pass	Low
Nickel	Pass	Low
Overall ecology	Moderate	High
Physico-Chem	Moderate	High
Temperature	Good	Medium
Soluble reactive phosphorus	Good	Medium
pH	Moderate	High
Dissolved Oxygen	High	High
Biological elements	Moderate	Medium
Phytobenthos	High	High
Macrophytes	High	Low
Benthic invertebrates	Good	Medium
Macro-invertebrates (acid)	Good	Medium
Macro-invertebrates (RiCT)	High	High
Macro-invertebrates (ASPT)	High	High
Macro-invertebrates (NTAXA)	High	High
Alien species	High	Low
Fish	Moderate	Medium
Fish ecology	Moderate	Medium
Fish barrier	High	Medium
Specific pollutants	Pass	High
Arsenic	Pass	Low
Iron	Pass	High

Parameter	Status	Confidence of Class
Copper	Pass	Low
Zinc	Pass	High
Ammonium	Pass	High
Chromium	Pass	Low
Hydromorphology	Good	Medium
Morphology	Good	Medium
Hydrology	High	Medium
Hydrology (impoundment)	High	Medium
Hydrology (abstraction)	High	Medium
Regulatory BOD	High	High
Regulatory ammonium	High	High
Water quality	Moderate	High
Morphological pressures	Good	Medium

Location of this water body

You can find the geographical location of this water body by searching on water body ID in the interactive maps at www.sepa.org.uk/water/river_basin_planning.aspx



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