

## General details

Water body name:	River North Esk (Penicuik House to Glencorse Burn confluence)
Water body Identifier code:	3808
Length:	6.40 km
Water body category:	River
River basin district:	Scotland
Area advisory group:	Forth
Catchment:	River Esk (Lothian)
Associated protected areas:	River North Esk (Penicuik House to d/s Lead Burn confluence) - UWWTD SENSITIVE AREA (EXISTING) River North Esk (d/s Lead Burn confluence to Glencorse Burn confluence) - UWWTD SENSITIVE AREA (EXISTING) River Esk (Musselburgh) - FRESHWATER FISH (EXISTING)
Associated groundwater:	Penicuik
Responsible body:	SEPA Edinburgh & Lothians
Heavily modified:	No
Artificial:	No
Typology:	Mid-altitude Small Calcareous
National Grid Reference:	NT 24116 59820
Latitude:	55.82563
Longitude:	-3.21284

## 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](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](mailto: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	Good
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.

# Water body information sheet for water body 3808 in Forth

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
Point Source Pollution	Mining and quarrying of coal	UK Specific pollutants (Annex 8)	Failing to Achieve Good by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Reduce Point Source Inputs	Projected	Coal Authority	31/12/2021
Point Source Pollution	Sewage disposal	Phosphorus	Good by 2015	
	Increase treatment	Agreed	Scottish Water	31/03/2014
Morphological Alterations	Impounding - weir / dam	Fish passage	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Removal of barriers or provision of mechanisms to enable fish migration	Neither Agreed nor Projected	Landowner(s)	31/12/2026
Diffuse Source Pollution		Phosphorus	Good by 2015	
	Reduce Diffuse Source Inputs	Neither Agreed nor Projected	SEPA	31/03/2013
Point Source Pollution	Sewage disposal	Phosphorus	Good by 2015	
	Increase treatment	Projected	Scottish Water	31/03/2013
Point Source Pollution	Mining and quarrying of coal	UK Specific pollutants (Annex 8)	Failing to Achieve Good by 2015	Implementation of the measure by an earlier deadline would impose

# Water body information sheet for water body 3808 in Forth

Pressure	As a Result of	Assessment Parameter	Objective	Reasons for Failure
	Measure	Funding	Owner	Effective date
				disproportionate burdens
	Reduce Point Source Inputs	Projected	Coal Authority	31/12/2021
Diffuse Source Pollution		Phosphorus	Good by 2015	
	Reduce Diffuse Source Inputs	Neither Agreed nor Projected	SEPA	31/03/2013
Point Source Pollution	Sewage disposal	Phosphorus	Good by 2015	
	Reduce at source	Agreed	Scottish Water	31/05/2009

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](mailto: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

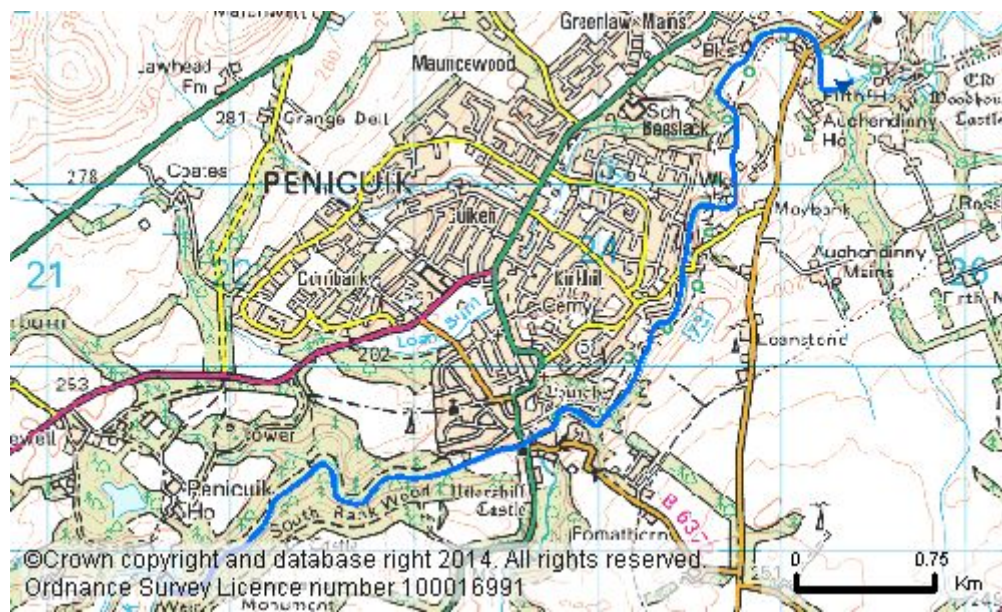
Parameter	Status	Confidence of Class
OVERALL STATUS	MODERATE	HIGH
Pre-HMWB status	Moderate	High
Overall chemistry	Pass	Low
Priority substances	Pass	Low
Overall ecology	Moderate	High
Physico-Chem	High	High
Temperature	High	High
Soluble reactive phosphorus	High	High
pH	High	High

# Water body information sheet for water body 3808 in Forth

Parameter	Status	Confidence of Class
Dissolved Oxygen	High	High
Biological elements	Moderate	High
Phytobenthos	Moderate	High
Macrophytes	High	Low
Benthic invertebrates	Good	Medium
Macro-invertebrates (acid)	High	Low
Macro-invertebrates (RiCT)	Good	Medium
Macro-invertebrates (ASPT)	Good	Medium
Macro-invertebrates (NTAXA)	High	High
Alien species	High	Low
Fish	High	Medium
Fish ecology	High	Low
Fish barrier	High	Medium
Specific pollutants	Pass	High
Iron	Pass	High
Ammonium	Pass	High
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](http://www.sepa.org.uk/water/river_basin_planning.aspx)



SEPA Contact Details: [rbmp@sepa.org.uk](mailto:rbmp@sepa.org.uk)  
© 2012 Scottish Environment Protection Agency