

**WAT-G-21**

**EASR Guidance:**

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**Registration**

**The removal of a General Binding Rule or registration scale engineered structure**

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# Purpose

This document provides information and guidance for anyone completely or partially removing a general binding rule or registration scale engineered structure which requires a registration, under The Environmental Authorisations (Scotland) Regulations.

This guidance does not cover any other permissions that may be required.

# What activity does this guidance apply to?

This guidance applies to engineering activities granted as a registration under the Environmental Authorisations (Scotland) Regulation 2018 for:

The removal (including partial removal) of a general binding rule or registration scale engineered structure.

# Understanding the activity

This registration activity covers the complete or partial removal of a single Water General Binding Rule (GBR) or registration scale engineered structure. This includes bank work structures, crossings, instream structures and in-loch structures.

Please always check the scale of the structure which is to be removed against the relevant authorisation thresholds for the type of structure being removed to make sure it can be authorised by this activity. If your proposed removal activity exceeds any of the registration activity thresholds and or you cannot comply with any of the standard conditions for this registration, you should apply for the removal using the permit application for the relevant activity type.

This registration includes the removal activity and all associated construction works, such as access tracks, temporary works, crossings and structures that are necessary for this removal activity to be undertaken

It does not include the removal of temporary crossings or other temporary works that are directly associated with carrying out other registration or permit activities. The removal of such structures is authorised under each registration activity or permit activity.

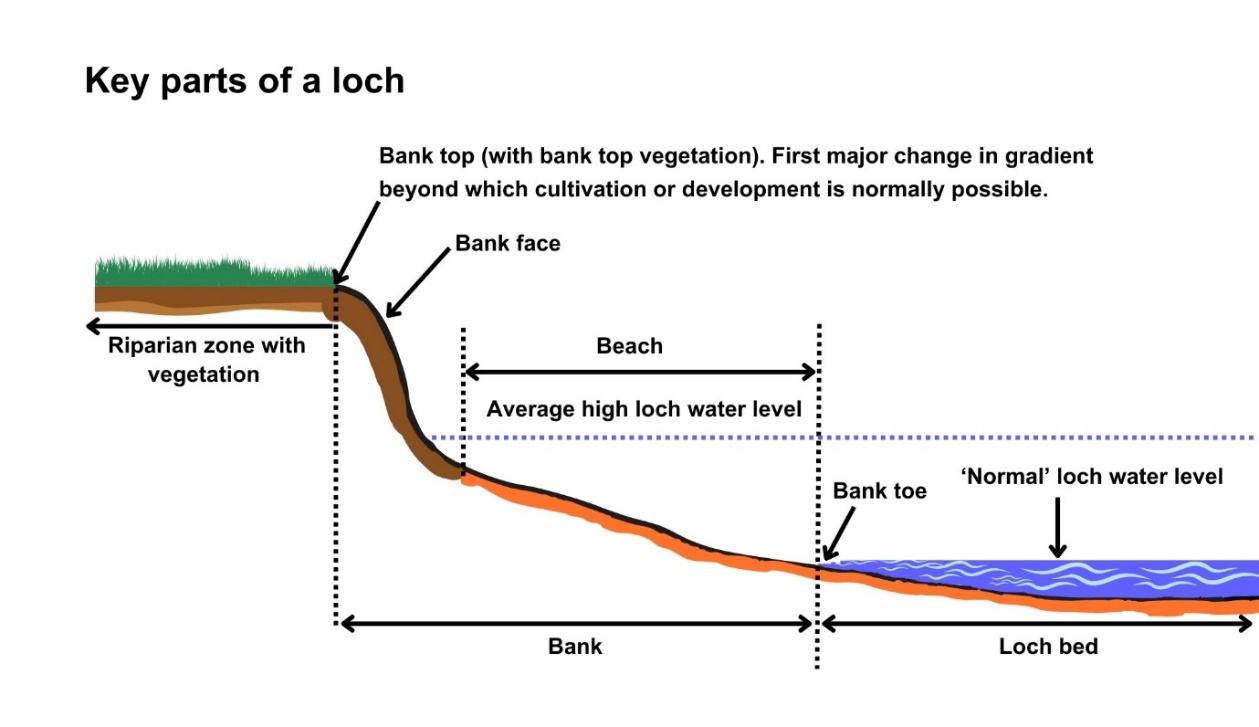
It does not include the removal of impoundments/ impounding works. These are separately controlled as impoundment activities.

# Key parts of a watercourse and loch

Key parts of a watercourse and loch are shown in Figures 1 and 2 below and explained in the [Glossary](#_Glossary)

Diagram showing key parts of a watercourse. 
Parts shown and explained in the Glossary are:
Bank; bank top; bank toe; channel; bed; bed width; exposed sediment; left bank; right bank; wetted part; riparian zone; in the vicinity and beyond the vicinity.  

**Figure 1: Key parts of a watercourse**



**Figure 2: Key parts of a loch**

# Understanding and minimising risks to the water environment

Removing, or partially removing, Water GBR or registration scale activities and associated construction and temporary works, such as access and temporary crossings, can pose risks of harm to the water environment. It is important to carefully consider your design and construction options to ensure risks to the water environment and other users are minimised and that you fully comply with your standard conditions.

Good practice should be followed in undertaking this activity to ensure environmental harm is minimised, design is sustainable long-term and maintenance requirements are low. To achieve good practice, you should minimise the footprint of the activity and should consider the natural character and processes of the area you are working.

Further information can be found in the relevant Activity Guide.

## Risks to the water environment

The main risks to the water environment from carrying out this activity can be grouped as follows:

* **Harm to fish**
  + Including impacts on fish migration, spawning and fry development, loss of habitat and direct impacts such as stranding or physical damage. For more information see WAT-G-032 EASR Guidance: Fish Protection
* **Physical impacts and pollution**
  + Physical impacts to the bed and banks of the watercourse which can lead to instability resulting in increased erosion or deposition, loss of habitats and increased flood risk.
  + Pollution from sedimentation, leaking oil from machinery and the entry of potentially polluting materials into water such as unset concrete.

Further information on construction works and mitigation can be found in WAT-G-034 EASR Guidance: Construction works and mitigation.

* **Habitats and species protection**
  + Spread of invasive non-native species**.** Further guidance can be found in EASR-G-001 EASR Guidance: Invasive non-native species (INNS)
  + Impacts onspecies such as freshwater pearl mussels and otter. You should contact [NatureScot](https://www.nature.scot/) where your activity is in a [Protected area](#_Glossary) or may impact protected species. For further information see WAT-G-008 EASR Guidance: Assessment of impact on Protected areas from inland water activities.
* **Impacts to other users of the water environment**

All the risks to the water environment detailed above will vary according to:

* The type and design of the engineering activity
* The timing of the works.
* The working methods and mitigation.
* The reinstatement methods.

To minimise risks to the water environment and to help you comply with the standard conditions for this activity, you should follow the Do’s and Don’ts below.

## Do’s and Don’ts

### Activity specific do’s and don’ts

* Don’t alter the height of the bank. Altering the height can change erosion and flood risks.
* Don’t alter the bed width. Altering the width can alter erosion and flood risks.
* Don’t create a step in the bed.
* Don’t prevent the passage of migratory fish during and after removal works.

### General working in or near water do’s and don’ts

**Preventing harm to fish**

* Don’t undertake works if fish are likely to be spawning or young fish are still to emerge. In general, avoid the period between 1 October to 31 May. You should check the exact times with your local fishery board. Details are available from [Fisheries Management Scotland](https://fms.scot/#:~:text=Fisheries%20Management%20Scotland%20is%20the%20representative%20body%20for%20Scotland's%20District).
* Don’t impact fish migration.
* Do make sure all works such as temporary crossings, channel isolation or diversions, blasting, vibration or pile driving, sheet pilling or using artificial lighting at night so that fish or migrating fish are not adversely affected.
* Do carry out fish rescues, where appropriate etc.

**Preventing/ minimising physical and pollution Impacts**

* Do install and maintain suitable mitigation before, after and during the works. Including the points below.
* Do minimise the extent, location and duration of works in the wetted part of the channel or loch.
* Do keep vehicles, plant and other equipment out of water wherever possible.
* Do create and maintain a robust and secure dry working area of minimum size, where possible.
* Do minimise disturbance and reinstate banks, bed and vegetation as soon as possible.
  + Minimise vegetation removal and the area of bare earth/ exposed soil.
  + Re-seed or turf disturbed soil with native vegetation and ideally cover with biodegradable matting to provide temporary protection until vegetation is fully established.
* Don’t cause significant erosion.
* Do store all fuel, machinery and vehicles at least 10 metres from any watercourse, loch or permeable drain.
* Do have oil spill kits, drip trays and bunds on site and available to operators.
* Do prevent any pollutants entering the water environment.

**Habitats and species protection**

* Don’t spread invasive non-native species
* Check the banks and in water for invasive species.
* Use biosecurity measures.
* Do check what other species and habitats may be affected (e.g. otter).
* Don’t harm freshwater pearl mussels.

**Other water users**

* Do consider the potential impacts on other water users e.g. water supplies, fishing, kayaking etc.

# Glossary

Terms used in this guidance and supporting diagrams are explained below:

**Bank** is the side of a watercourse or loch between and including the bank toe and bank top.

**Bank Height** is the height of the bank of a watercourse or loch measured vertically from the bank toe to the bank top, including any artificial heightening of the bank (e.g. embankments, retaining walls).

**Bank Toe** is the lowest point on the bank of a watercourse or loch, where the bank meets the bed of the watercourse or loch.

**Bank Top** is the first major break in slope in the bank or any watercourse or loch.

* This is considered the point beyond which cultivation or development is normally possible. Where there is no clear break in slope the bank top is considered to be the height of the average annual flood level in a watercourse,
* In relation to lochs where there is no clearly definable bank zone the bank top is the line along which terrestrial vegetation is present (this often equates to the average high-water level in a loch).

**Bank works** are any works on the bank between and including the bank top and the bank toe.

**Beach** is lower part of the bank of a loch (note in some cases the beach may form all of the bank)

**Bed of watercourse** is the base of the watercourse, between the toe of one bank and the toe of the opposite bank.

**Bed of loch** is the base of the loch extending from the deepest part of the loch to the edge of the ‘normal’ loch water level.

**Bed width** means the straight-line distance between the opposite bank toes of a river, burn or ditch, and which spans the bed of the river, burn or ditch, including any exposed sediment bars and vegetated islands.

Bed width can be measured as an average along the length of the stretch to be worked or can be based on one measurement of a width that is representative of the stretch.

**Beyond the vicinity** is the zone that exists beyond the “in the vicinity” zone away from the watercourse or loch.

**Channel** is the area between the bank top on one side of a river, burn or ditch and the bank top on the opposite side. It includes the banks and bed of a watercourse, including any exposed sediment bars and vegetated islands

**Channel width** means the straight line distance between opposite bank tops of a river, burn or ditch and which spans the bed and banks of a river, burn or ditch, including any exposed bars and vegetated islands.

**Crossing (for crossing registration activities)** meansany structure which is constructed and installed for the purpose of supporting a footpath, cycle route or transport route across any river, burn, ditch or loch or any pipe, pipeline or cable which crosses over or underneath any river, burn, ditch or loch, but excluding crossings with [instream or in-loch] piers, causeways , fords, temporary crossings, impounding works and culverts installed for land gain.

**High loch water level** is the average water level typically reached during wet periods.

**In the vicinity** for a watercourse this is the zone that extends away from the bank top for a distance of 10 metres or two channel widths (whichever is shorter). For a loch this is the zone that extends 10 metres away from the bank top.

**In-loch Structure (for the In-loch structure Registration activity)** means any structure that occupies a portion of the bed of the loch including bed reinforcement, jetties, platforms, marinas, croys, groynes and other flow deflectors, but excluding land gain, temporary structures, bridge piers and impounding works.

**Left bank** is the left bank of a watercourse when facing downstream.

**Loch** isa body of standing inland surface water.

**Normal loch water level is** the water level that occurs for a large part of the year when the loch is not experiencing high water levels. Higher than the minimum water surface elevation.

**Protected area** means an area designated under International (Ramsar sites), European (Special Areas of Conservation and Special Protection Areas) or National (Sites of Special Scientific Interest) legislation, to provide protection of their notable natural features or biodiversity. This legislation places duties on SEPA to assess whether activities we regulate

**Right bank** is the right bank of a watercourse when facing downstream.

**Riparian zone of a river** is thetransitional, semi-terrestrial area of land adjoining a river channel (including most of the river bank) that is regularly inundated and influenced by fresh water and can influence the condition of the aquatic ecosystem (e.g. by shading and leaf litter input).

**Riparian zone of a loch** is thearea of land extending from the bank top or the limit of terrestrial vegetation and capable of directly influencing the condition of the aquatic ecosystem (e.g. by shading and leaf litter input)

**Sediment** refers to the natural material of which the bed of a watercourse or loch is made (includes sand, silt, clay, gravel, cobbles and boulders).

**Temporary crossing** (Water Registrations and Permits) is a crossing which will be removed after the completion of the authorised activity.

**Temporary structure** (Water registrations and Permits) is a structure which will be removed after the completion of the authorised activity.

**Wetted part** is the part of any watercourse or loch that is wet while carrying out works in a watercourse or loch.

# Disclaimer

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