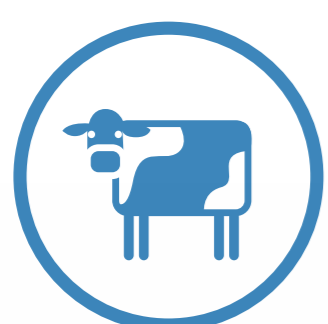
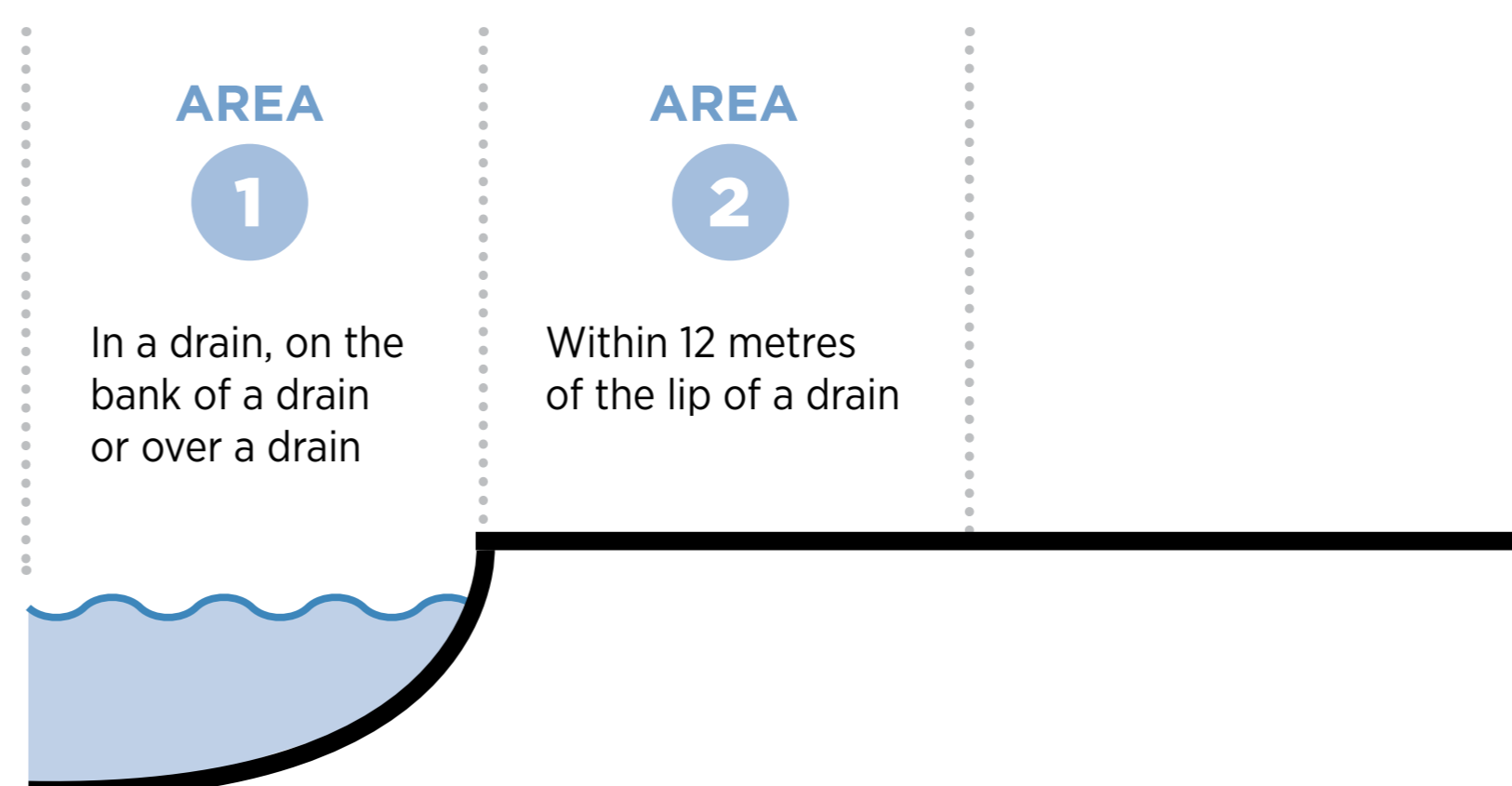


Drains

**The Bylaw
Applicable Areas
for drains are not
changing.**

FLOODWAY AND DRAINAGE BYLAW APPLICABLE
AREAS - DRAINAGE SCHEME DRAINS

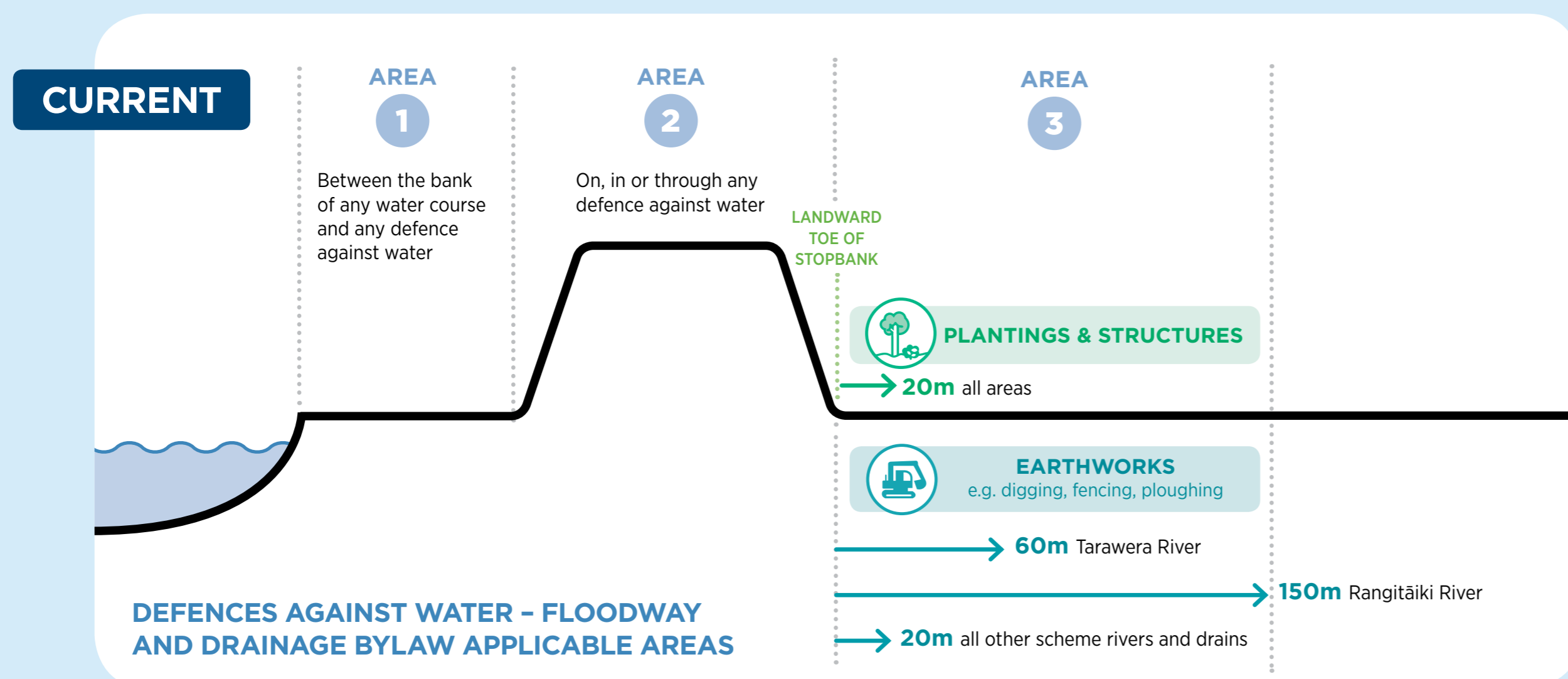


We want to make the existing clause around stock access to drains clearer.

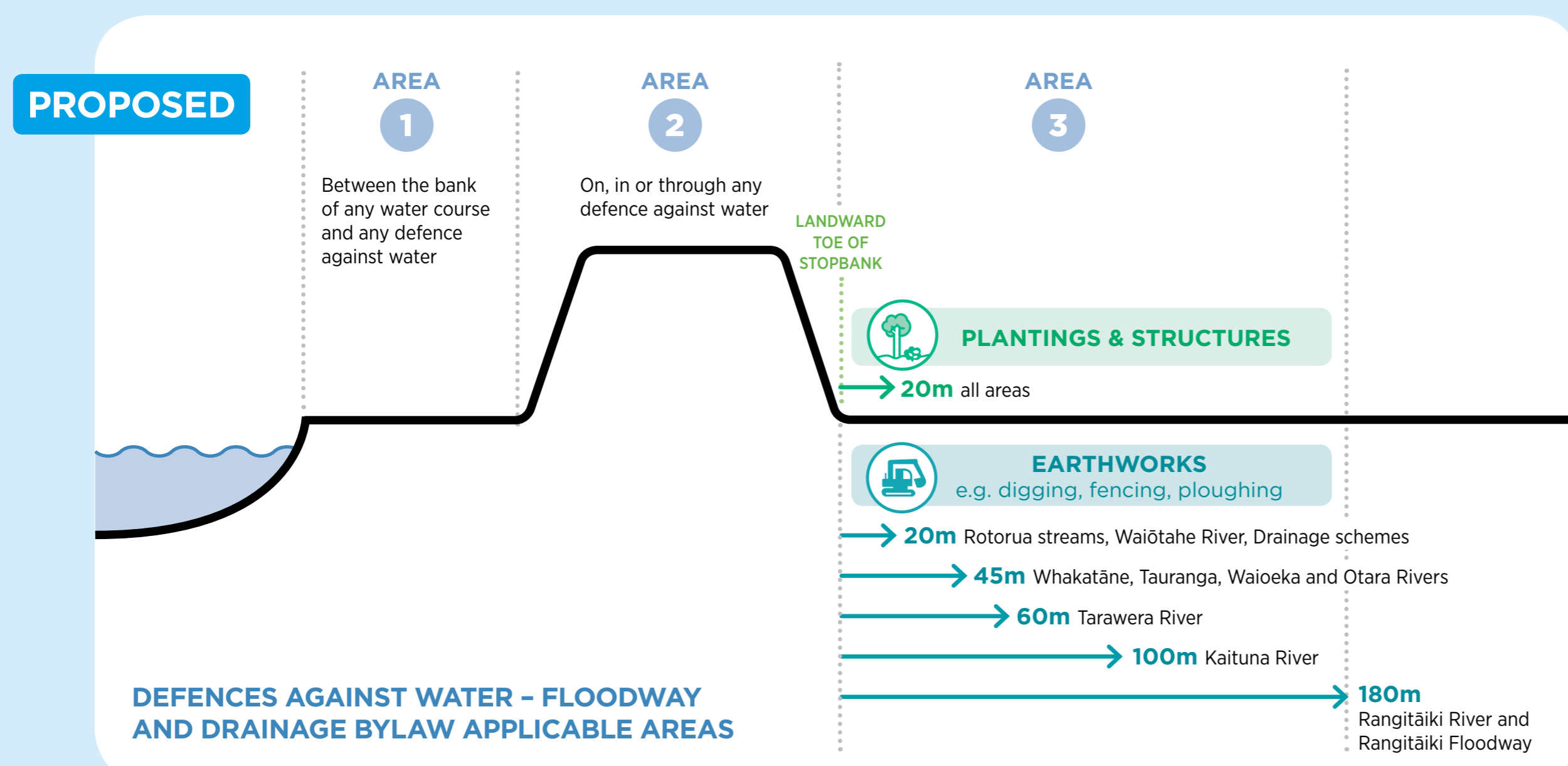
We are proposing no stock access to any drain, or the bank of any drain, without prior written authority.

*What do
you think?*

Defences against water



No change to Bylaw Applicable Areas 1 and 2.



Larger distances are proposed for earthworks in Bylaw Applicable Area 3.



Earthworks describes disturbance of the soil and can include digging, fencing, ploughing, shelterbelt planting and post driving for horticultural development.

Here's a summary of the proposed changes to Bylaw Applicable Area 3

Waterway	Current distance (metres)	Proposed distance (metres)
Lower Kaituna River	20	100
Rotorua streams (Waingaehe, Puarenga, Utuhina, Mangakakahi, Otamatea, Waiowhiro, Ngongotahā, Waitetī)	20	20
Tarawera River	60	60
Rangitāiki River (including Rangitāiki Floodway)	150	180
Whakatāne, Tauranga, Waioeka and Otara and Rivers	20	45
Drainage scheme drains and canals	20	20

To determine these distances we took into account:

- Historic data and staff observations from previous flood events
- Assessment of geotechnical investigations around the region
- The results of computer-generated models that predict soil, river and asset performance during a flood event



Erosion protection works

Mechanisms to safeguard erosion protection works are weak in the current Bylaw, so these important assets have specific mention in the proposed review.

Except with prior written authority no person shall:

- a. Remove, damage, or allow stock to damage, any erosion protection works that have been placed, or planted, adjacent to a river by the Council or its predecessors.
- b. Dump or deposit any item on, in or beside any erosion protection works.

Erosion protection works

is a term to describe assets, (for example buffer zones and buffer zone plantings, river edge plantings, fencing, rockwork, and trenched willows) which are used to:

- Protect stopbanks and natural channel banks from erosion.
- Maintain channel stability.
- Reduce sediment deposition.

