

Willow mattress



Key Data

Measure-ID	Del000re_01_01
Estuary	Weser
Waterway	Delme (5219)
Chainage	Km 0.00 - 7.50
Bank side	Right

Contact

WSA Weser-Jade-Nordsee, branch office Habenhausen: abz-habenhausen@wsv.bund.de

Available documentation

Not specified

DESCRIPTION OF THE MEASURE

Dead wood protection measure

Sprouting willow mattress

Bank protection required due to

Current loads

Reason for implementing the measure

Bank protection: bank erosion (without erosion scarp)

Dike protection: dike toe

Development and maintenance of measure

The measure is successful and requires little maintenance. An annual inspection (summer dyke inspection) is carried out by the Waterway and Shipping Administration, water and environmental authorities and the dike association. The willow mattress is selectively pruned every year to avoid clear-cutting (approx. 2 days with 5 employees per year).

MATERIAL

Material input

Living willow fascine bundles: length = 3-4 m, diameter = 0.3 m

Live materials used

Rootable willow cuttings

Origin: from own stock, local

Brushwood material

Living willow

Origin: from own stock

Pile material

Spruce

Origin: regional

EXPENDITURE

Work days/person	5
Number of persons	4
Construction period	May 2010

Boundary conditions

CHARACTER OF WATER BODY

Type of water body

Side arm

Characteristic water levels*

Mean tidal range	N/A
Mean high water	N/A
Mean low water	N/A

Mean Water Salinity Classification**

N/A

* N/A

** N/A

CHARACTER OF THE RIPARIAN ZONE

River bend

Straight bank

Slope inclination

Not specified

Dominant soil type

silt

Pollutant load

no information

Natural structures below mean high water

Not specified

Natural structures above mean high water

Not specified

Vegetation cover

Planted willows, Algae/mosses

Land use

No grassland use

Cattle pasture, Bull fattening

PROPERTY DATA

Land owner (bank)	Federal State
Land owner (foreshore)	Federal State
Lease	Not specified

NATURE CONSERVATION

Special Protection Area under the Birds

Directive

No

Special area of conservation under Habitats

Directive

Lower Delme, Hache, Ochtum and Varreler Bäke (DE2817331)

Natural habitat type under Habitats Directive

No

Nature conservation area

Not specified

Legally protected biotopes

(Bundesnaturschutzgesetz)

No

Specially protected plants

Not specified

Specially protected animals

Not specified

SHIPPING TRAFFIC

Navigation by ships

Recreational ships

Location in relation to navigation channel

Facing the navigation channel

Speed limit

No speed limit

Shipping traffic parameters*

Number of ships/year	N/A
Mean distance between passing ships and shoreline	N/A
Ship dimensions**	N/A

*source: AIS data analysis from 2019

**10 % of the largest passing ships