

## Attachment 8 – Requirements in the scope of restoration of natural habitats

This attachment to the Environmental Management Plan for **Contract 1B.5/2: Reconstruction of the bridge to ensure minimum clearance - road bridge in km 2.45 of the Warta River in Kostrzyn nad Odrą**, presents the scope, method and schedule of measures aimed at restoring natural habitats.

### RESTORING THE DESTROYED PART OF THE OXBOW



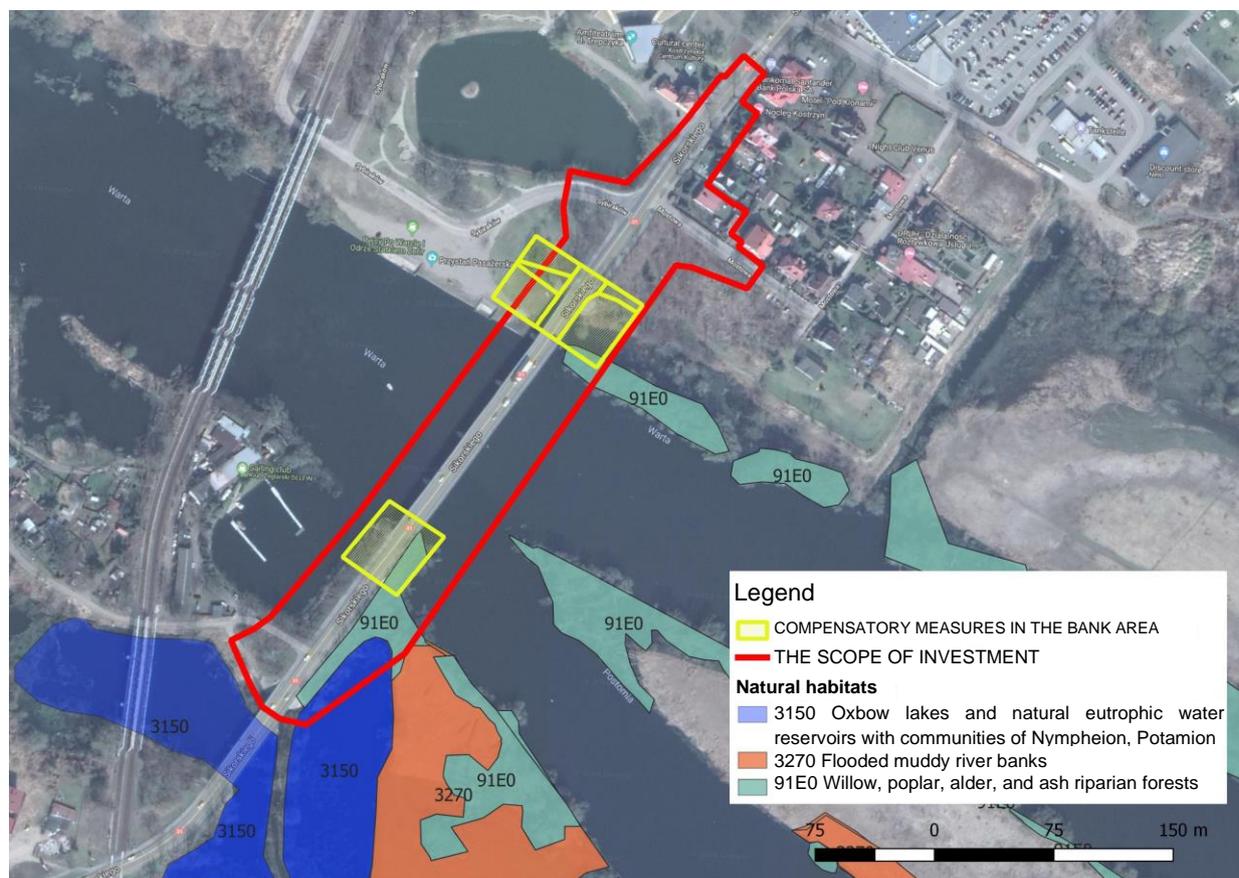
Environmental Management Plan

Contract 1B.5/2 Reconstruction of the bridge to ensure minimum clearance - road bridge in km 2.45 of the Warta River in Kostrzyn nad Odrą

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<i>Site of measures:</i>	Plot no. 2/3, precinct Stare Miasto
<i>Plot owner:</i>	State Treasury, perpetual usufructuary: Warta Mouth National Park, Osada 1, 69-113 Górzycza Chyrzyno.
<i>Plot area:</i>	Total area of plot no. 2/3 is approx. 42.7 ha, while the compensation measures will be implemented on a section of that plot having an area of around 1760 m <sup>2</sup> , within the boundaries of the project.
<i>Scope:</i>	The measure should consist in removing the soil of the road embankment leading to the provisional bridge, deepening a part of the riverbed, and introducing a vegetation cover. We recommend collecting the same plant material or another plant material that neighbours the oxbow.
<i>Method of implementation:</i>	<ul style="list-style-type: none"><li>- Removing the soil of the road embankment leading to the provisional bridge and transporting it out for disposal.</li><li>- Shaping slopes inclined by 5–8° to create shallow areas of 10–50 cm; other areas should be deepened to around 1.5 m.</li><li>- To restore stable habitats quicker, it is required to use such measures as the displacement of rhizomes and the mud being a source of seeds and organisms, as well as the replanting of sedges.</li><li>- On the banks, several to less than twenty metres from the edges of the restored w section, create hiding places for amphibians, such as stones or tree boughs.</li></ul>
<i>Schedule:</i>	<p>The plant material should be moved after the growing season, preferably in the second half of October until mid-November (depending on the weather). The area of rhizome implanting must be flooded with water to protect it against frosting.</p> <p>We estimate that the habitat should be reinstated approximately 5 years after digging out and moving the plants.</p>

## RECLAMATION OF THE LAND UNDER BRIDGE FLYOVERS (bank area)



Site of Plots no.:

measures:

- left bank : 2/1, 2/3, 64, precinct Stare Miasto

- right bank: 268/2, 346/11, 394/57, 345/1, 345/3, 394/42, precinct Śródmieście

Plot owner:

No. 2/1, 2/3, 64, precinct Stare Miasto: State Treasury, permanent management by Regional Water Management Authority in Poznań, ul. Chlebowa 4/8, 61-003 Poznań

No. 268/2, precinct Śródmieście: State Treasury, permanent management by the General Directorate for National Roads and Motorways, ul. Żelazna 59, 00-848 Warsaw

No. 346/11, precinct Śródmieście: Municipality of Kostrzyn nad Odrą, ul. Graniczna 2; 66-470 Kostrzyn nad Odrą

No. 394/57, precinct Śródmieście: Municipality of Kostrzyn nad Odrą, ul. Graniczna 2; 66-470 Kostrzyn nad Odrą

Environmental Management Plan

*Contract 1B.5/2 Reconstruction of the bridge to ensure minimum clearance - road bridge in km 2.45 of the Warta River in Kostrzyn nad Odrą*

No. 345/1, precinct Śródmieście: Municipality of Kostrzyn nad Odrą, ul. Graniczna 2; 66-470 Kostrzyn nad Odrą

No. 345/3, 394/42, precinct Śródmieście: Municipality of Kostrzyn nad Odrą, ul. Graniczna 2; 66-470 Kostrzyn nad Odrą

*Plot area:* Total area of the plots intended for the said measures:

- 2/1: 61.0123 ha, including approx. 764 m<sup>2</sup> for the measures;
- 2/3: 42.6481 ha, including approx. 485 m<sup>2</sup> for the measures;
- 64: 0.5770 ha, including approx. 683 m<sup>2</sup> for the measures;
- 268: 1.8510 ha, including approx. 828 m<sup>2</sup> for the measures;
- 346/11: 0.7133 ha, including approx. 840 m<sup>2</sup> for the measures;
- 394/57: 10.3128ha, including approx. 1237 m<sup>2</sup> for the measures;
- 345/1: 0.2071 ha, including approx. 466 m<sup>2</sup> for the measures;
- 345/3: 0.0275 ha, including approx. 269 m<sup>2</sup> for the measures;
- 394/42: 0.1665 ha, including approx. 128 m<sup>2</sup> for the measures;

*Scope:* Reclamation of the land on both banks under the flyovers. The planned measures will cover the bank area being approx. 30 m wide and approx. 75 m long.

*Method of implementation:*

- Land levelling and placing a soil layer.
- To avoid the growth of ruderal plants, it is required to sow a mixture of meadow grasses adequate to flood meadows.

*Schedule:* The preferable sowing time is April and May.