

PHOTO DOCUMENTATION

Appendix no. 2

to the Final Report on implementation of measures determined in EMP
for the Contract 3A.1 – Works Contract 3A.1/1

Odra-Vistula Flood Management Project

OVFMP Subcomponent	3A Flood Protection of Upper Vistula Towns and Cracow
Works Contract Task	3A. 1/1 Modernization of Vistula embankments in Cracow – Section 1, Section 2
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
Project Implementation Office (PIO)	Project Implementation Office in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
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This document – forming **Appendix no. 2** to the *Final Report on implementation of measures determined in the Environmental Management Plan for Contract 3A.1/1* (reporting period: February 15, 2021 – December 27, 2022), presents a photo documentation regarding implementation of the EMP.



Fig. 1. Site condition in the first quarter of the works implementation period – the left Vistula embankment within *Section 1.1*, status in the first decade of February 2021 (downstream view).



Fig. 2. Site condition in the first quarter of the works implementation period – the left Vistula embankment within *Section 1.2*, status in the first decade of February 2021 (downstream view).



Fig. 3. Site condition in the first quarter of the works implementation period – the left Vistula embankment within *Section 1.3*, status in the third decade of February 2021 (downstream view).



Fig. 4. Site condition in the first quarter of the works implementation period – the right Dłubnia embankment within *Section 1.4*, status in the first decade of February 2021 (downstream view).



Fig. 5. Site condition in the first quarter of the works implementation period – the left Dłubnia embankment within *Section 1.5*, status in the first decade of February 2021 (upstream view).



Fig. 6. Site condition in the first quarter of the works implementation period – area of the planned left Dłubnia embankment within *Section 1.6*, status in the first decade of February 2021 (upstream view).



Fig. 7. Site condition in the first quarter of the works implementation period – the left Vistula embankment within *Section 2* – upper part, status in the third decade of February 2021 (downstream view).



Fig. 8. Site condition in the first quarter of the works implementation period – the left Vistula embankment within *Section 2* – lower part, status in the third decade of February 2021 (downstream view).



Fig. 9. Tree felling
– the left Vistula embankment within *Section 2*,
status in the second decade of February 2021 (downstream view).



Fig. 10. Construction site after tree felling
– the left Vistula embankment within *Section 1.3*,
status in the third decade of March 2021 (upstream view).



Fig. 11. Storage yard in the right embanked area of Dłubnia
– the right Dłubnia embankment within *Section 1.4*,
status in the third decade of March 2022 (upstream view).



Fig. 12. Storage yard in the area beyond the left Vistula embankment
– the left Vistula embankment within *Section 2*,
status in the third decade of October 2021 (downstream view).



Fig. 13. Marking of the construction site
– the right Dłubnia embankment within *Section 1.4*,
status in the third decade of February 2021 (downstream view).



Fig. 14. Marking of the construction site
– the right Dłubnia embankment within *Section 1.4*,
status in the third decade of May 2022 (upstream view).



Fig. 15. Marking of public road in the vicinity of the construction site
– the left Vistula embankment within *Section 1.1*,
status in the third decade of September 2022 (downstream view).



Fig. 16. Marking of public road in the vicinity of the construction site
– the left Vistula embankment within *Section 1.1*,
status in the third decade of June 2022 (upstream view).



Fig. 17. Protection of hazardous sites
– the right Dłubnia embankment within *Section 1.4*,
status in the second decade of October 2022 (downstream view).



Fig. 18. Protection of hazardous sites
– the left Dłubnia embankment within *Section 1.5*,
status in the third decade of September 2022 (downstream view).



Fig. 19. Protection of hazardous sites under the power line
– the right Dłubnia embankment within *Section 1.4*,
status in the third decade of October 2021 (upstream view).



Fig. 20. Protection of hazardous sites under the power line
– the left Vistula embankment within *Section 2*,
status in the third decade of October 2022 (downstream view).



Fig. 21. Protection of trees and shrubs not intended to felling
– the left Vistula embankment within *Section 1.3*,
status in the second decade of August 2022 (upstream view).



Fig. 22. Protection of trees and shrubs not intended to felling
– the left Vistula embankment within *Section 2*,
status in the second decade of April 2022 (upstream view).



Fig. 23. Securing the breeding site of protected amphibian species
– access road to the storage yard on *Section 1.4*,
status in the second decade of May 2021 (upstream view).



Fig. 24. Securing the breeding site of a protected beetle species
– the left Dłubnia embankment within *Section 1.5*,
status in the third decade of April 2021 (upstream view).



Fig. 25. Keeping public roads clean in the vicinity of the construction site – the right Dłubnia embankment within *Section 1.4*, status in the third decade of March 2022 (view towards the west).



Fig. 26. Keeping public roads clean in the vicinity of the construction site – the left Dłubnia embankment within *Section 1.5*, status in the third decade of May 2022 (downstream view).



Fig. 27. Removal of a top soil layer
– the left Vistula embankment within *Section 1.3*,
status in the third decade of July 2021 (upstream view).



Fig. 28. Removal of a top soil layer
– the left Vistula embankment within *Section 2*,
status in the third decade of July 2021 (upstream view).



Fig. 29. Protection of top-soil piles
– the right Dłubnia embankment within *Section 1.4*,
status in the third decade of May 2022 (downstream view).



Fig. 30. Protection of top-soil piles
– the left Vistula embankment within *Section 2*,
status in the third decade of July 2021 (upstream view).



Fig. 31. Construction of a cement-bentonite barrier along the base of embankment – the right Dłubnia embankment within *Section 1.4*, status in the second decade of August 2021 (upstream view).



Fig. 32. Installation for producing a cement-bentonite mixture – the left Vistula embankment within *Section 2*, status in the third decade of June 2021 (downstream view).



Fig. 33. Construction of a sheet piling barrier along the base of embankment – the left Vistula embankment within *Section 1.1*, status in the first decade of April 2022 (downstream view).



Fig. 34. Making a cap on the sheet pilings along the base of embankment – the left Vistula embankment within *Section 1.1*, status in the third decade of July 2022 (upstream view).



Fig. 35. Reconstruction of the embankment culvert
– the left Vistula embankment within *Section 2*,
status in the second decade of May 2022 (view towards the embanked area).



Fig. 36. Construction of the embankment culvert
– the left Dłubnia embankment within *Section 1.6*,
status in the third decade of August 2022
(view towards the area beyond the embankment).



Fig. 37. Works related to the reconstruction of a gas pipeline network
– the right Dłubnia embankment within *Section 1.4*,
status in the second decade of October 2021 (downstream view).



Fig. 38. Works related to the reconstruction of a gas pipeline network
– the left Vistula embankment within *Section 1.2*,
status in the third decade of March 2022 (upstream view).



Fig. 39. Shaping the slopes of the flood embankment
– the left Vistula embankment within *Section 1.2*,
status in the third decade of October 2021 (downstream view).



Fig. 40. Shaping the slopes of the flood embankment
– the left Dłubnia embankment within *Section 1.5*,
status in the third decade of July 2022 (upstream view).



Fig. 41. Leveling the slopes of the flood embankment
– the left Vistula embankment within *Section 1.1*,
status in the second decade of June 2022 (upstream view).



Fig. 42. Leveling the slopes of the flood embankment
– the left Dłubnia embankment within *Section 1.6*,
status in the second decade of October 2022 (downstream view).



Fig. 43. Placement of bentomat on the slope of the flood embankment – the left Vistula embankment within *Section 1.2*, status in the third decade of October 2021 (downstream view).



Fig. 44. Placement of bentomat on the slope of the flood embankment – the right Dłubnia embankment within *Section 1.4*, status in the third decade of March 2021 (downstream view).



Fig. 45. Covering slopes of the flood embankment with a top-soil layer
– the left Vistula embankment within *Section 1.3*,
status in the third decade of May 2022 (upstream view).



Fig. 46. Covering slopes of the flood embankment with a top-soil layer
– the left Vistula embankment within *Section 2*,
status in the third decade of July 2022 (upstream view).



Fig. 47. Construction of a road on the crown of the flood embankment – the left Dłubnia embankment within *Section 1.6*, status in the third decade of November 2022 (downstream view).



Fig. 48. Construction of a road on the crown of the flood embankment – the left Vistula embankment within *Section 2*, status in the third decade of November 2022 (downstream view).



Fig. 49. Growth of grasses sown on the slope of the flood embankment – the left Vistula embankment within *Section 1.1*, status in the third decade of November 2022 (downstream view).



Fig. 50. Growth of grasses sown on the slope of the flood embankment – the left Vistula embankment within *Section 1.2*, status in the third decade of August 2022 (upstream view).



Fig. 51. Site condition in the last quarter of the works implementation period – the left Vistula embankment within *Section 1.1*, status in the third decade of December 2022 (downstream view).



Fig. 52. Site condition in the last quarter of the works implementation period – the left Vistula embankment within *Section 1.2*, status in the third decade of December 2022 (downstream view).



Fig. 53. Site condition in the last quarter of the works implementation period – the left Vistula embankment within *Section 1.3*, status in the third decade of December 2022 (downstream view).



Fig. 54. Site condition in the last quarter of the works implementation period – the right Dłubnia embankment within *Section 1.4*, status in the third decade of December 2022 (upstream view).



Fig. 55. Site condition in the last quarter of the works implementation period – the left Dłubnia embankment within *Section 1.5*, status in the third decade of December 2022 (upstream view).



Fig. 56. Site condition in the last quarter of the works implementation period – the left Dłubnia embankment within *Section 1.6*, status in the third decade of December 2022 (upstream view).



Fig. 57. Site condition in the last quarter of the works implementation period – the left Vistula embankment within *Section 2* – upper part, status in the third decade of December 2022 (downstream view).



Fig. 58. Site condition in the last quarter of the works implementation period – the left Vistula embankment within *Section 2* – lower part, status in the third decade of December 2022 (downstream view).