

**FINAL REPORT**  
**on implementation of measures determined**  
**IN THE ENVIRONMENTAL MANAGEMENT PLAN**  
**for the Contract 1B.9**

Odra – Vistula Flood Management Project

OVFMP Subcomponent	<b>1B Flood protection on the Middle and Lower Odra</b>
Contract / Works Contract	<b>1B.9 Modernisation of flood embankment along the Ślężoujście Street with road infrastructure</b>
Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Wrocław 34. Norwida Street, 50-950 Wrocław, Poland
Project Implementation Office (PIO)	Project Implementation Office in Wrocław 34. Norwida Street, 50-950 Wrocław, Poland
Contractor	STRABAG S.A. – Infrastruktura Południe Sp. z o.o. 5a Lipowa Street, 52-200 Wysoka, Wrocław, Poland
Engineer / Investor / Substitute Investor	Road and City Maintenance Authority in Wrocław 49 Długa Street, 53-633 Wrocław, Poland

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## **INTRODUCTION**

This paper, as developed by the Contract Engineer, whose role the Road and City Maintenance Authority in Wrocław plays, presents a final report on implementation of measures determined in the Environmental Management Plan (EMP) for Works Contract *Modernisation of flood embankment along the Ślężoujście Street with road infrastructure (1B.9)*.

The report covers the following period:

- from the Commencement Date for the Works under Contract 1B.9  
(i.e. from **August 10, 2022**);
- to the completion date for the works considered as essential, as results from the Time for Completion for the aforementioned Contract  
(i.e. to **July 4, 2023**).

The following was presented for the Contract:

- basic information on Contract 1B.9  
(including e.g. the scope of works and basic deadlines for the Contract);
- basic information on the Environmental Management Plan for Contract 1B.9;
- organizational system for supervision over implementation of the EMP;
- status of implementation for mitigation measures listed in Appendix 1 to the EMP;
- status of implementation for monitoring measures listed in Appendix 2 to the EMP;
- description of other measures and events associated with the ES;
- summary.

## **1 BASIC INFORMATION ON CONTRACT 1B.9**

Works Contract 1B.9 *Modernisation of flood embankment along the Ślężoujście Street with road infrastructure* is implemented under *Odra-Vistula Flood Management Project (OVFM Project)*, as a part of Component 1 *Flood protection of the Middle and Lower Odra* and Sub-component 1B *Flood protection on the Middle and Lower Odra*.

An agreement with the Contractor for Contract OVFM 1B.9 has been signed on June 4, 2022. On August 3, 2022, the Investor handed over the construction site to the Contractor, and the commencement of works took place on August 10, 2022. The Time for Completion expired on July 4, 2023.

Basic information about the Contract is presented below.

### **Name of the Contract:**

*Modernisation of flood embankment along the Ślężoujście Street with road infrastructure*

### **Contractor:**

STRABAG S.A. – Infrastruktura Południe Sp. z o.o.  
5a Lipowa Street, 52-200 Wysoka, Wrocław, Poland

### **Scope of Works:**

The contract entitled: "Modernisation of flood embankment along Ślężoujście Street with road infrastructure" covered the expansion and sealing of a section of the Odra river embankment and the construction of a stand for mobile pumps for the time of a water surge, together with the reconstruction of Ślężoujście Street, a public road, approx. 500 m in length together with the construction of Potokowa Street and internal road 5KDW junctions. As part of the reconstruction, the demolition and construction of the embankment with the widening of its crest and sealing, as well as the demolition and construction of a passage on the Ługowina river (a left-bank tributary of the Odra river) were executed. At the embankment footing, on its water-side, from km 0+157 to km 0+386, a vertical cement-soil barrier was constructed to a depth of approx. 5 m (to the top of the cohesive soil layer). On the embankment water-side slope, a sealing screen made of bentomat was constructed in conjunction with this vertical barrier.

Moreover, under the developed Contract was rebuilt or liquidated and construct its dependant infrastructure (e.g. embankment exits) and to construct, redevelop, secure or decommission the existing road infrastructure, electrical, telecommunication, tele-technical, water supply and rainwater sewage systems and to construct the Municipal Technology Duct network.

As part of the environmental protection devices, herpetological protections were made as well as stop gutters and a small passage for animals, which will allow for the protection of the world of nature animated at the stage of operation of the Project.

The area of the developed Contract at its final stage was recultivated by top-soiling and sowing with a mixture of grasses. Furthermore - in exchange for felled trees and shrubs - replacement plantings were made in another location due to a lack of land to make such plantings directly within this Contract.

**Basic dates for the Contract:**

Agreement signing date: July 7, 2022  
Date of handing over the construction site: August 3, 2022  
Commencement Date for the Works: August 10, 2022  
Completion Date for the Works  
(according to the Time for Completion): July 4, 2023

## **2 BASIC INFORMATION ON THE EMP FOR CONTRACT**

The Environmental Management Plan for Contract 1B.9 has been developed in December 2021 (final version). On January 20, 2022 the World Bank issued “No Objection” acceptance approving the Environmental Management Plan as one of documents for the bidding procedure applied to select the Contractor of construction works under the Contract.

It is a document systematizing actions undertaken within the framework of the Contract and obliging all units participating in implementation of the Contract to observe the provisions given therein. A detailed description of contract implementation conditions referring to the environmental management has been developed in the form of appendices to the EMP – Appendix 1 containing the *Mitigation Measures Plan* (see description in chapter 2.1, below), and Appendix 2 containing the *Monitoring Measures Plan* (see description in chapter 2.2, below).

### **2.1 MITIGATION MEASURES DETERMINED IN APPENDIX 1 TO THE EMP**

Appendix 1 to the EMP for Contract 1B.9 contains 110 mitigation measures, which are to prevent and limit adverse impact of the investment on the environment. Those measures result from contents of the decisions on environmental conditions, as issued for the Contract in question (given in Appendix 4 to the EMP), as well as from procedural requirements of the World Bank and additional conditions determined during the works on development of the EMP. Table of mitigation measures given in Appendix 1 to the EMP described particular measures and determined locations of their implementation, as well as the units responsible for their implementation.

Mitigation measures listed in Appendix 1 to the EMP belong to the following 20 categories:

- a) requirements on schedule of works  
(items no. 1-2 under Appendix 1 to the EMP);
- b) requirements on road access to the Contract area  
(items no. 3-12 under Appendix 1 to the EMP);
- c) requirements on locations of site facilities and service roads and yards  
(items no. 13-18 under Appendix 1 to the EMP);
- d) requirements on the quality and management of soils  
(items no. 19 under Appendix 1 to the EMP);
- e) requirements on proceeding with topsoil/mineral soil  
(items no. 20-24 under Appendix 1 to the EMP);
- f) requirements on removing (felling) trees and shrubs and replacement plantings  
(items no. 25-27 under Appendix 1 to the EMP);
- g) requirements on protecting trees and shrubs not intended for removal (felling)  
(items no. 28-33 under Appendix 1 to the EMP);
- h) requirements on securing protected natural resources  
(items no. 34-43 under Appendix 1 to the EMP);
- i) requirements on recreation of the site after the completion of construction works  
(items no. 44-45 under Appendix 1 to the EMP);

- j) requirements on the prevention of the environmental pollution (items no. 46-69 under Appendix 1 to the EMP);
- k) requirements on waste management (items no. 70-74 under Appendix 1 to the EMP);
- l) requirements on health and safety protection (items no. 75-79 under Appendix 1 to the EMP);
- m) requirements on extraordinary threats to the environment (items no. 80-82 under Appendix 1 to the EMP);
- n) requirements on conservation of historic monuments (items no. 83-85 under Appendix 1 to the EMP);
- o) requirements on the Contractor's staff engaged in the implementation of the EMP (items no. 86-91 under Appendix 1 to the EMP);
- p) requirements on EMP reporting (items no. 92 under Appendix 1 to the EMP);
- q) requirements after completion of works (items no. 93-96 under Appendix 1 to the EMP);
- r) specific requirements of the World Bank's ES policies (items no. 97-106 under Appendix 1 to the EMP);
- s) guidelines for conduct in the event of an epidemic or epidemic emergency during the execution of works (items no. 107 under Appendix 1 to the EMP);
- t) additional mitigation measures introduced after public consultations on the draft EMP (items no. 108-110 under Appendix 1 to the EMP).

Contents of individual mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report.

## **2.2 MONITORING MEASURES DETERMINED IN APPENDIX 2 TO THE EMP**

Appendix 2 to the EMP for Contract 1B.9 contains a set of 58 monitoring measures, which are to monitor implementation of mitigation measures described in Appendix 1. A tabulated summary of monitoring measures, as given in Appendix 2 to the EMP, contains the same breakdown into categories as in case of the mitigation measures. The table of monitoring measures determines e.g. location, method, time, and frequency of monitoring, as well as the units responsible for its implementation.



### **3 SYSTEM OF SUPERVISION OVER IMPLEMENTATION OF MEASURES DETERMINED IN THE EMP FOR CONTRACT 1B.9**

Supervision over implementation of mitigation measures and monitoring measures determined in the EMP for Contract 1B.9 was performed on the level of all of the organizational units participating in the Contract implementation, i.e. Contractors, Engineer, Project Implementation Office (PIO), and Project Coordination Unit (PCU). Information on the scope of performance for individual units is presented below.

#### **3.1 CONTRACTOR**

A person directly responsible for implementation of measures determined in the EMP on the Contractor's side was the Site Manager. In accordance with item no. 87 in Appendix 1 to the EMP, in order to provide support to the Site Manager in the implementation of the EMP, the EMP Coordinator has been appointed in the Contractor's team. The task of that person was an ongoing cooperation with the Site Manager, with the remaining members of the Contractor's personnel, and with the Environmental Management Expert of the Engineer's team in securing implementation of the EMP conditions, as well as provision of ongoing reporting in that range. Furthermore, in accordance with items no. 88, 89 and 90 under Appendix 1 to the EMP, the Contractor assured participation of expert teams of environmental, archaeological and sapper supervision, in the scope compliant with the EMP requirements.

After completing each month, the EMP Coordinator summarized the current status of implementation of individual EMP conditions (in the form of a checklist). Information on the implementation of the EMP was provided to the Environmental Management Expert of the Engineer's team, along with appropriate attachments (including notes, opinions, environmental supervision reports, etc.).

#### **3.2 ENGINEER**

Direct supervision over implementation of the EMP conditions by the Engineer's team was done by the Environmental Management Expert cooperating in that range with the Resident Engineer, supervising inspectors, and other members of the Engineer's team providing investor's supervision over implementation of the investment. The Environmental Management Expert was in an ongoing contact with the Site Manager and with the EMP Coordinator of the Contractor's team, while establishing the range of conditions to be necessarily met on a given stage of works, supervising the implementation status for particular EMP conditions, participating in solving ongoing issues, and performing inspections on work sites. After completing each and every reporting period (month and quarter), the Environmental Management Expert was verifying environmental documentation of the Contractor and developing reports, which were subsequently handed over to the Project Implementation Office.

#### **3.3 PROJECT IMPLEMENTATION OFFICE (PIO)**

Direct supervision over implementation of the EMP conditions by the Project Implementation Office (PIO) was done by the Environmental Specialist, who cooperated in that range with the PIO Manager, with other members of the PIO team, as well as with other organization units of

the RZGW in Cracow. The Environmental Specialist and the PIO Manager were in a direct contact with the Environmental Management Expert of the Engineer's team, while supervising the implementation status for particular EMP conditions and participating in solving of the ongoing issues. After completing each and every reporting period (month and quarter), the Environmental Specialist and the PIO Manager were verifying environmental documentation of the Contract, and subsequently handed it over to the Project Coordination Unit (in the scope compliant with the EMP conditions).

### **3.4 PROJECT COORDINATION UNIT (PCU)**

Direct supervision over implementation of the EMP conditions by the Project Coordination Unit was done by the Environmental Management Expert, who cooperated in that range with other members of the PCU team. The expert was in a direct contact with the PIO Manager and with the Environmental Specialist of the PIO team. He was also cooperating with persons responsible for implementation of the EMP on the side of remaining organizational units of the investment process, i.e. the Environmental Management Expert of the Engineer's team, as well as the Site Manager and the EMP Coordinator of the Contractor's team. The Environmental Management Expert was supervising the implementation status for particular EMP conditions, while participating in solving of ongoing issues, and participating in site inspections. After completing each quarterly reporting period, he was verifying environmental documentation handed over by the PIO, and was developing contents for PCU reports, which were subsequently submitted to the World Bank.

## 4 IMPLEMENTATION STATUS FOR MITIGATION MEASURES UNDER APPENDIX 1 TO THE EMP

In accordance with contents of Appendix 1 to the EMP for Contract 1B.9, units responsible for implementation of mitigation measures determined under Appendix 1 to the EMP are as follows: **the Contractor (109 measures:** items no. 1-95, 97-110 under Appendix 1 to the EMP), **the Engineer/Investor (2 measures:** items no. 18 and 96 under Appendix 1 to the EMP) and **the PIO (1 measure:** item no. 18 under Appendix 1 to the EMP). In total, the EMP for Contract 1B.9 envisages implementation of 110 mitigation measures<sup>1</sup>, including at least 92 measures to be implemented within the reporting period (in case of remaining 18 measures it was not necessary to implement them – see: below).

### 4.1 CONTRACTOR'S MEASURES

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the Contractor implemented 92 (ca. 84,5%) mitigation measures, including:
  - 78 (ca. 80,9%) measures were implemented in the scope required within the reporting period (items no. 1, 2, 3, 4, 6, 8, 9, 10, 11, 14, 15, 16, 17, 19, 20, 22, 23, 24, 25, 26, 27, 31, 32, 34, 35, 37, 40, 41, 42, 44, 46, 47, 50, 51, 52, 53, 54, 56, 57, 58, 59, 61, 62, 65, 66, 67, 69, 70, 73, 74, 75, 76, 77, 78, 79, 80, 84, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 97, 98, 99, 100, 101, 103, 105, 107, 108, 109, 110 under Appendix 1 to the EMP);
  - in case of 14 (12,7%) measures issues and / or inconsistencies associated with their implementation – as discussed in chapter 4.4 (items no. 5, 13, 21, 29, 30, 36, 48, 55, 68, 71, 72, 102, 104, 106 under Appendix 1 to the EMP).
- b) Within the reporting period the Contractor was not implementing 18 (16,3%) mitigation measures, including:
  - implementation of 1 (0,9%) measure does not apply to the Contractor (item no. 18 under Appendix 1 to the EMP);
  - implementation of 17 (15,4%) measures was not necessary throughout the entire period included in this report (items no. 7, 12, 18, 28, 33, 38, 39, 43, 45, 49, 60, 63, 64, 81, 82, 85, 96 under Appendix 1 to the EMP);
  - cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Contractor with the participation of, among others, Site Manager, environmental experts team: botany - phytosociology expert, dendrologist, zoologist - invertebrate expert, zoologist - herpetologist, zoologist - ornithologist, zoologist - chiropterologist, zoologist – theriologist. An EMP Coordinator has been appointed to supervise

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<sup>1</sup> Contents of particular mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report

the activities of a team of environmental experts, an archaeological supervision team, a sapper supervision team and an OHS specialist.

Mitigation measures were agreed with (if required by the conditions of Contract and/or the EMP) and supervised by the Engineer's team with participation of the following persons: Supervising Inspectors and Environmental Management Expert.

## **4.2 ENGINEER'S/INVESTOR'S/SUBSTITUTE INVESTOR MEASURES**

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the Engineer was implementing 1 (ca. 0.9%) mitigation measure, including:
  - 1 (ca. 0.9%) measure was implemented in the scope required within the reporting period (item no. 18 under Appendix 1 to the EMP – the action was carried out to the extent compliant with the Bank's requirements, the ZDiUM press office conducted information activities and responded to questions, complaints and requests of persons interested in the implementation of this Contract);
- b) In the reporting period, there were no mitigation measures that the Engineer would implement partially.
- c) Within the reporting period the Engineer was not implementing 1 (ca. 0.9%) mitigation measure, including:
  - 1 (ca. 0.9%) measure was not performed (item no. 96 under Appendix 1 to the EMP – this measure will be implemented after the completion of the Contract, at the stage of exploitation of the built rainwater drainage system).

Cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Engineer at participation of selected specialists of the Engineer's team (composition of the team has been informed in chapter 4.1).

## **4.3 PIO'S MEASURES**

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) Within the reporting period the PIO was implementing 1 (ca. 0.9%) mitigation measure, including:
  - 1 (ca. 0.9%) measure was implemented in the scope required within the reporting period (item no. 18 under Appendix 1 to the EMP).
- b) In the reporting period, there were no mitigation measures that the PIO would implement partially.

- c) In the reporting period, there were no mitigation measures that the PIO would not implement.

Cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Investor at participation of selected members of the PIO's team: Environmental Specialist, Resettlement Specialist and Head of PIO.

#### **4.4 ISSUES REFERRING TO IMPLEMENTATION OF MITIGATION MEASURES LISTED IN APPENDIX 1 TO THE EMP**

According to information provided in monthly reports and in quarterly reports on implementation of measures determined in the EMP, the following issues and / or inconsistencies associated with implementation of 14 mitigation measures from Appendix 1 to the EMP for Contract 1B.9 (in order compliant with numbers of items under Appendix 1 to the EMP) were identified:

- 1) Delay in completing establishments with road Administrators in the scope of marking the access roads to the construction site

[related to item no. 5 under Appendix 1 to the EMP]:

In the fourth quarter of 2022, the Contractor conducted arrangements with road managers regarding the marking of access roads to the construction site. These arrangements were completed only in December 2022 by concluding agreements on the use of public roads for the purposes of the Contract.

- 2) Delay in the organization of construction facilities

[related to item no. 13 under Appendix 1 to the EMP]:

In the third quarter of 2022, the contractor was late with fully organizing and equipping the construction site with all elements of environmental protection. All components and equipment have been available since the beginning of the fourth quarter of 2022.

- 3) Cases of improper storage, protection and marking of heaps of stored topsoil

[related to item no. 21 under Appendix 1 to the EMP]:

In the third quarter of 2022, the Contractor removed topsoil. The heaps of topsoil removed were placed too close to the trees and shrubs intended to be left and incorrectly formed, there were also cases of its lack of marking. After appointing the Engineer, the Contractor made corrections to the location and formation of heaps and supplemented the marking plates.

- 4) Cases of placing devices and materials under the crowns of trees

[related to item no. 29 under Appendix 1 to the EMP]:

Throughout the duration of the Contract, there were cases that the Contractor placed materials too close to the crown of trees or left devices. There were also cases of fencing being destroyed and supplemented only after the Engineer was appointed. After indicating the Engineer, he corrected the storage and improved the fencing.

5) Failure to implement the measure and to implement it only after indicating the Engineer in the scope of preventive pruning of branches in the area of machine traffic

[related to item no. 30 under Appendix 1 to the EMP]:

In the third quarter of 2022, the Contractor did not properly prepare access for machines in places close to the left trees. Maintenance cuts were made only after the Engineer was indicated.

6) Leaving leaks in the herpetological fencing and its damage

[related to item no. 36 under Appendix 1 to the EMP]:

In the second quarter of 2023, there were cases of leaks or lack of supplementation of herpetological fencing. After the Engineer was indicated, corrective actions were taken.

7) Debris from the demolition of the culvert was deposited too close to the bed of the Ługowina watercourse

[related to item no. 48 under Appendix 1 to the EMP]:

In the third quarter of 2023, there was a case of too close placement of debris from the demolition of the culvert. After indicating the Engineer, the Contractor moved the deposited rubble far enough away.

8) The Contractor prepared a hardened and tight surface in the Site Back-up, but there was no protection against the runoff of possible contamination

[related to item no. 55 under Appendix 1 to the EMP]:

In the third quarter of 2022, there was no protection of the hardened and tight surface in the Site Back-up Area against the runoff of possible contamination. After indicating the Engineer, the Contractor properly profiled the area and sealed the place to collect runoff water.

9) There were cases of contamination of public roads with mud transported from the construction site

[related to item no. 68 under Appendix 1 to the EMP]:

In the fourth quarter of 2022, cases of contamination of public roads with mud transported from the construction site were recorded. After appointing the Engineer, the Contractor intensified the frequency of cleaning the surface of public roads.

10) In September and October 2022, the Contractor did not ensure selective collection of waste in properly marked containers

[related to item no. 71 under Appendix 1 to the EMP]:

In the third quarter of 2022, the contractor delayed signing the contract for the removal of segregated waste from the construction site. The contract was signed in November 2022.

11) Weaknesses in the proper management of hazardous waste. In connection with the works on the construction of the culvert and the finishing and insulating works of the culvert elements, the Contractor used chemicals delivered in containers. Containers, after using their contents,

remain classified waste under the code 15 01 10\* (Packaging containing residues of hazardous substances or contaminated with them). The Contractor was recommended to properly manage this hazardous waste.

[related to item no. 72 under Appendix 1 to the EMP]:

In the first quarter of 2023, the Contractor incorrectly classified waste regarding containers of substances protecting the culvert - after indicating the Engineer, he corrected the actions.

12) The Contractor was late in carrying out the training to prevent cases of sexual harassment and/or mobbing

[related to item no. 102 under Appendix 1 to the EMP]:

After the commencement of the works, the Contractor delayed the training. The training was conducted in October 2022.

13) The Contractor was delayed in preparing an information leaflet on the possibility of submitting complaints about working and pay conditions

[related to item no. 104 under Appendix 1 to the EMP]:

After the commencement of the works, the Contractor delayed the development of the leaflet. The leaflet was developed in October 2022.

14) The Contractor delayed the training on the prevention of diseases such as HIV-AIDS, diseases caused by coronaviruses

[related to item no. 106 under Appendix 1 to the EMP]:

After the commencement of the works, the Contractor delayed the training. The training was conducted in October 2022.

## 5 IMPLEMENTATION STATUS FOR MONITORING MEASURES UNDER APPENDIX 2 TO THE EMP

In accordance with contents of Appendix 2 to the EMP for Contract 1B.9, units responsible for implementation of monitoring measures determined under Appendix 2 to the EMP are as follows: the Contractor (**57 measures**: items no. 1-49, 51-58 under Appendix 2 to the EMP), the **Engineer** (**57 measures**: items no. 1-49, 51-58 under Appendix 2 to the EMP) and **the PIO** (**1 measure**: item no. 6 under Appendix 2 to the EMP). In total, the EMP for Contract 1B.9 envisages implementation of 58 monitoring measures<sup>1</sup>, of which 57 measures should be implemented in the reporting period, 1 measure from item no. 50 in Appendix 2 to the EMP will be monitored from the moment of completion of construction.

### 5.1 CONTRACTOR'S MEASURES

Within the reporting period the Contractor was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Engineer and of the Investor.

- a) Within the reporting period the Contractor was implementing 57 (ok. 100%) monitoring measures, including:
  - 57 (ca. 100%) measures were implemented in the scope required within the reporting period (items no. 1-49, 51-58 under Appendix 2 to the EMP).
  - none of the measures (0%) was partially implemented.
- b) cases of missing implementation for monitoring measures assigned to the Contractor within the reporting period were not identified, including:
  - none of the measures was finally completed in previous periods;
  - no case of failure to implement the measures required in the reporting period was found.

Monitoring measures were implemented by the Contractor at participation of the Contractor's personnel listed in chapter 4.1.

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<sup>1</sup> Those measures referred to the implementation monitoring for particular mitigation measures given in Appendix 1 to the EMP, contents of which have been quoted in the *Check List* forming *Appendix no. 1* to this report.



## **5.2 ENGINEER'S/ INVESTOR'S/SUBSTITUTE INVESTOR MEASURES**

Within the reporting period the Engineer was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's and Investor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Contractor and of the Investor.

- a) Within the reporting period the Engineer was implementing 57 (ok. 100 %) monitoring measures, including:
- 57 (ca. 100%) measures were implemented in the scope required within the reporting period (items no. 1-49, 51-58 under Appendix 2 to the EMP);
  - none of the measures (0%) was partially implemented;
  - 1 (ca. 0.9%) the measure was not implemented due to the fact that its monitoring should start after the end of the Contract (item no. 57 under Appendix 2 to the EMP).
- b) cases of missing implementation for monitoring measures assigned to the Engineer within the reporting period were not identified, including:
- none of the measures was finally completed in previous periods;
  - implementation of 1 (ca. 0.9%) measure was not necessary in the reporting period (item no. 57 under Appendix 2 to the EMP);
  - no case of complete non-implementation of the required measure in the reporting period was found.

Furthermore, within the reporting period the Engineer was also supervising implementation of 57 monitoring measures assigned, in accordance with Appendix 2 to the EMP, to the Contractor.

Monitoring measures and supervising measures in the range referring to the EMP were implemented by the Engineer at participation of selected experts of the Engineer's team (composition of the team has been given in chapter 4.1).

## **5.3 PIO'S MEASURES**

Within the reporting period the PIO was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's and Engineer's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Contractor and of the Engineer.

- a) Within the reporting period the PIO was implementing 1 (ca. 0.9%) monitoring measures, including (item no. 6 under Appendix 2 to the EMP).
- b) cases of missing implementation for monitoring measures assigned to the PIO within the reporting period were not identified.

Monitoring measures and supervising measures in the range referring to the EMP were implemented by the PIO at participation of members of the PIO's team listed in chapter 4.3.

#### **5.4 ISSUES REFERRING TO IMPLEMENTATION OF MONITORING MEASURES LISTED IN APPENDIX 2 TO THE EMP**

In accordance with information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP, issues with implementation of the monitoring measures listed in Appendix 2 to the EMP for Contract 1B.9 were not identified within the reporting period.

## **6 OTEHR ACTIONS AND EVENTS RELATED TO THE ENVIRONMENT, LOCAL SOCIETY, HEALTH AND SAFETY, SUMMARY**

### **6.1 ACTIONS OF THE CONTRACTOR**

Within the reporting period the Contractor has been carrying out works within the framework of Contract 1B.9, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Contractor.

Furthermore, within the reporting period the Contractor was implementing e.g. the following other measures referring to Contract 1B.9 and related to the environment, local society, health and safety:

- provided employees with the opportunity to submit complaints and requests in accordance with item no. 104 under Appendix 1 to the EMP;
- provided measures to prevent diseases caused by coronaviruses in accordance with item no. 106 under Appendix 1 to the EMP;
- prepared and implemented a study on the protection of herpetofauna at the stage of operation of the Project after arrangements with environmental organizations in accordance with items no. 108 and 109 under Appendix 1 to the EMP.

### **6.2 ACTIONS OF THE ENGINEER'S/ INVESTOR'S/SUBSTITUTE INVESTOR**

Within the reporting period the Engineer was supervising works carried out within the framework of Contract 1B.9, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Engineer.

Furthermore, within the reporting period the Engineer was implementing e.g. the following other measures referring to Contract 1B.9 and related to the environment, local society, health and safety:

- running an information point for interested residents and people who own real estate in the vicinity of the Contract construction site for the Contract 1B.9.

### **6.3 ACTIONS OF THE PIO**

Within the reporting period the PIO was carrying out its activities associated with implementation of Contract 1B.9, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Investor, and was supervising the measures implemented by the Contractor and by the Engineer/Investor/Substitute Investor.

### **6.4 OTHER ACTIONS**

Not applicable to the present reporting period.

## **6.5 EXCEPTIONAL EVENTS, THREATS AND CATASTROPHES**

Not applicable to the present reporting period.

## **6.6 ACCIDENTS**

### **6.6.1 Accidents with participation of Contractor's employees**

No accidents involving the Contractor's employees were recorded within the reporting period.

### **6.6.2 Accidents with participation of other people authorized to access the site**

No accidents involving other people authorized to access the Contract implementation area were recorded within the reporting period.

### **6.6.3 Accidents with participation of outsiders**

No accidents involving outsiders were recorded within the reporting period.

## **6.7 SECURING CONDITIONS OF PAYMENT AND WORK FOR THE PERSONNEL**

Within the reporting period the Contractor was securing proper conditions of payment and work for the personnel, in accordance with binding provisions of the labour law in Poland.

## **6.8 PREVENTING CASES OF SEXUAL HARASSMENT AND MOBBING**

Events associated with cases of sexual harassment and mobbing have not taken place within the reporting period.

## **7 SUMMARY**

This report presents a summary on implementation of the measures determined in the Environmental Management Plan (EMP) for Works Contract 1B.9 *Modernization of the flood embankment along the Ślężoujście Street with road infrastructure* within the framework of the Odra-Vistula Flood Management Project (OVFMP).

The report refers to the measures implemented in the following period:

- from the Commencement Date for the Works under Contract 1B.9 (i.e. **from August 10, 2022**);
- to the completion date for the works considered as essential, as results from the Time for Completion for the aforementioned Contract (i.e. **to July 4, 2023**).

Within the reporting period the Contractor was carrying out the works in the range given in the Contract 1B.9 (see description in chapter 1). He implemented of 92 mitigation measures determined in the EMP (see: description in chapter 4.1). He monitored of implementation of the 57 mitigation measures determined in the EMP (see: description in chapter 5.1), and he participated in other events referring to the environment, local society, and health and safety (as listed in chapter 6.1).

Within the reporting period the Engineer was supervising the works in progress within the framework of Contract 1B.9, including e.g. implementation of the measures determined in the Environmental Management Plan in the range assigned to the Engineer (see: description in chapter 4.2), monitoring of the implementation status for all 110 mitigation measures determined in the EMP (see: description in chapter 5.2), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.2).

Within the reporting period the PIO was implementing measures assigned to it in the range of Contract 3A.3 implementation, including e.g. implementation of particular measures determined in the Environmental Management Plan in the range assigned to the Investor (see: description in chapter 4.3), monitoring of the implementation status for 2 mitigation measures determined in the EMP (see: description in chapter 5.3), and supervision over actions of the Contractor and of the Engineer.

As a result of the monitoring measures implemented by the Contractor, by the Engineer, and by the Investor, it was identified within the reporting period that:

- a) 92 out of 110 mitigation measures listed in Appendix 1 to the EMP were implemented, including:
  - issues with implementation were not identified in case of 78 measures;
  - issues and / or inconsistencies associated with implementation were identified in case of 14 measures, described in chapter 4.4 (in no case did they cause significant negative impacts on the environment).
- b) 18 out of 110 mitigation measures listed in Appendix 1 to the EMP were not implemented, including:
  - the implementation of 1 measure will be carried out after the completion of the works;
  - implementation of 17 measures was not necessary throughout the entire reporting period.

c) 58 out of 58 monitoring measures listed in Appendix 2 to the EMP were implemented, including the following:

– issues and / or inconsistencies associated with implementation were not identified in case of any of the measures.

The Check List referring to implementation of the mitigation measures and of the monitoring measures listed in Appendix 1 and in Appendix 2 to the EMP, respectively, within the reporting period, was presented in Appendix no. 1 to this Report.

## **8 SOURCE MATERIALS**

1. *Environmental Management Plan for Contract 1B.9 Modernization of the flood embankment along the Ślężoujście Street with road infrastructure.* State Water Holding Polish Waters, Regional Water Management Authority in Wrocław.
2. *Progress Reports* provided by the Contractor for Contract 1B.9 in subsequent months of the reporting period.
3. *Monthly Reports* and *Quarterly Reports on EMP Implementation* for Contract 1B.9, as provided by the Engineer in subsequent months / quarters of the reporting period.

## **9 LIST OF APPENDICES**

1. Check List for implementation of the measures listed in Appendix 1 and 2 to the EMP for Contract 1B.9.
2. Photo documentation.