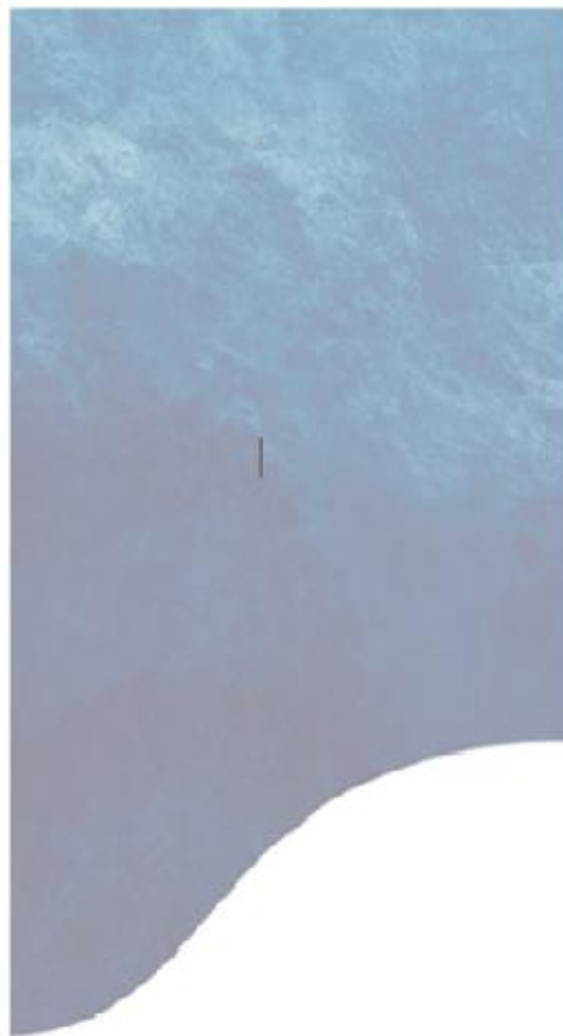


# FINAL REPORT



ODRA VISTULA FLOOD  
MANAGEMENT PROJECT  
CO-FINANCED:

THE REPUBLIC OF POLAND  
WORLD BANK – LOAN NO. 8524-POL  
COUNCIL OF EUROPE DEVELOPMENT BANK – LOAN NO. LD 1866  
EUROPEAN UNION COHESION FUND  
NATIONAL FUND FOR ENVIRONMENTAL PROTECTION  
AND WATER MANAGEMENT

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Projekt Ochrony  
Przeciwpowodziowej  
w Dorzeczu Odry i Wisły



Państwowe  
Gospodarstwo Wodne  
Wody Polskie

**FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE  
ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7**

**FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE  
ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7**

Odra-Vistula Flood Management Project

Subcomponent	1B: Protection of the Middle and Lower Odra
Contract Task	WFS Widawa – the rebuilding of the flood management system of the municipality of Czernica, Długoleśka, Wisznia Mała and Wrocław Contract No. 1B.7
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Wrocław 34. C. K. Norwida St. 50-950 Wrocław
Works Contractor	SKANSKA S.A. 173. Solidarności Alley 00-877 Warsaw Contract Office: 22. Wierzbowa St. 51-311 Kielczówek
Contract Engineer	SWECO Consulting Sp. z o.o. – Leader 22. Franklina Roosevelta St., 60-829 Poznań SWECO Nederland B.V. – Partner De Bilt, De Holle Bilt 22 Correspondence address: SWECO Consulting sp. z o.o. 61. Armii Krajowej St. (Building C), 50-541 Wrocław



**Rzeczpospolita  
Polska**

**Unia Europejska**  
Fundusz Spójności



**FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE  
ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7**

Authors of the Report (appendix):

1. Katarzyna Żuk - Supporting Expert for Environmental Management

	Name and surname	Date and signature
Prepared by	Katarzyna Żuk <i>Supporting Expert for Environmental Management</i>	
Approved by	Wojciech Lewandowski <i>Key Expert for Environmental Management</i>	
Approved by	Józef Nogal <i>Resident Engineer</i>	

**FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE  
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## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

### INTRODUCTION

The final report on the implementation of the measures specified in the Environmental Management Plan describes the implementation status of mitigation and monitoring measures for Contract 1B.7 over the whole duration of the Contract. The need arose, when implementing the mitigation and monitoring measures, to introduce changes to the EMP in the form of relevant annexes:

- Annex no. 1 to the EMP of 07/19/2021;
- Annex no. 2 to the EMP of 01/09/2023.

The following is presented respectively for this Contract:

- basic information on Contract 1B.7 (including, inter alia, the physical scope and basic dates of the Contract);
- basic information on the Environmental Management Plan for Contract 1B.7;
- organisational system for supervising the implementation of the Environmental Management Plan;
- implementation status of the mitigation measures specified in Appendix 1 to the EMP;
- implementation status of the monitoring measures specified in Appendix 2 to the EMP;
- description of other activities and events concerning ESHS;
- summary.

### 1. BASIC INFORMATION ON CONTRACT 1B.7

This Report on the implementation of the measures specified in the Environmental Management Plan (EMP) refers to the Task 1B.7 WFS Widawa - the rebuilding of the flood management system of the municipality of Czernica, Długołęka, Wisznia Mała and Wrocław, forming part of Subcomponent 1B under the Odra-Vistula Flood Management Project (OVFMP) and implemented as Works Contract: 1B.7.

The Project Implementation Unit for the Task is the State Water Holding Polish Waters, on behalf of which the Regional Water Management Authority in Wrocław is acting.

The contract consists of 6 subtasks:

- Task no. 1: "Wilczyce – Śliwice"
- Task no. 2: "Śliwice"
- Task no. 3: "Swojec pumping station – Wilczyce Młynówka Kiełczowska"
- Task no. 4: "Wilczyce Młynówka Kiełczowska - Przerowa weir"
- Task no. 5: "Przerowa L embankment"
- Task no. 6: "Execution of the water level gauge below the Odra-Widawa overflow"

The works encompassed the sectional construction and reconstruction of flood protection embankments of the Widawa River at km from 21+500 to 30+000, unblocking of the selected

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

bridge structures and adaptation of other engineering structures in order to ensure protection of the areas adjoining the said section of the Widawa River in the municipality of Czernica, Długoleka, Wisznia Mała and Wrocław against flooding with a flood wave created in the Widawa catchment. At the same time, Task implementation ensures protection against the flood created in the area of the Odra River catchment by securing the areas adjacent to the Widawa river from flooding with water transferred from the Odra River to the Widawa River valley considering the concurrent occurrence of the flood flow in the Widawa River valley.

Table 1. List of key dates for the Contract.

Activity	Date
Signing of the Contract with Contractor	03/19/2020
Handover of the Construction Site	06/04/2020 06/22/2020 07/03/2020 07/22/2020 08/07/2020 09/03/2020 09/02/2020 09/28/2020 10/20/2020 11/27/2020 06/08/2021 09/24/2021 06/10/2022 12/28/2022
Commencement Date of Works – Tasks 2,3,4,5	06/10/2020
Commencement Date of Works – Tasks 1,6	08/10/2020
Issue of the Taking-Over Certificate	Task 1 – 07/04/2023 Task 2 – 09/19/2022 Task 3 – 11/22/2022 Task 4 – 07/26/2023 Task 5 – 08/19/2022 Task 6 – 11/22/2022
Defects Notification Period of 365 days – Tasks 2,3,4,5	Task 2 – 08/30/2023 Task 3 – 10/13/2023 Task 4 – 06/30/2024 Task 5 – 06/16/2023
Defects Notification Period of 365 days – Tasks 1,6	Task 1 – 06/10/2024 Task 6 – 10/27/2023

## 2. MITIGATION AND MONITORING MEASURES SPECIFIED IN THE EMP FOR CONTRACT 1B.7

The Draft Environment Management Plan for Contract 1B.7 was subject to a public consultation procedure conducted in accordance with the operational policy of the World Bank (OP 4.01). In accordance with the above-mentioned operational policy OP 4.01, the draft Environmental

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

Management Plan (EMP) was made public starting from January 30, 2019, when an announcement was published in local press – “Gazeta Wrocławska” (regional daily newspaper). After the end of the 21-calendar day public disclosure period of the draft EMP, on February 20, 2019 a meeting - open for the public - on public consultation for the Draft Document - Environmental Management Plan for Works Contract 1B.7 WFS Widawa - the rebuilding of the flood management system of the municipality of Czernica, Długołęka, Wisznia Mała and Wrocław, implemented under the Odra-Vistula Flood Management Project (OVFMP), was held at the Primary School in Wilczyce at 15. Wrocławska St.

A report, sent to the World Bank, was drawn up from the meeting. Remarks and motions provided during the debate were analysed in terms of necessary correction to the final version of the document, and then these changes were then made during the final editing of the EMP document. The final EMP document, after obtaining the *No objection* clause from the WB, was made available to interested parties, i.e. was published on PIU and OVFM PCU websites and remained there until the end of implementation.

The Environmental Management Plan is a document that systematises the activities undertaken under the Contract, obliging all those involved in the implementation of the Contract to comply with the provisions contained therein. A detailed description of the Contract implementation conditions for environmental management was developed in the form of appendices to the EMP:

- description of mitigation measures to eliminate or reduce potential negative impact of the Task on the environment together with a tabular list of these measures (Appendix 1 to the EMP);
- description of environmental monitoring measures applicable to the Task together with a tabular list of these measures (Appendix 2 to the EMP);
- description of measures related to the execution and monitoring of environmental compensation, necessary for execution for the Task, with a table presenting such measures (Appendix no. 3 to the EMP);

On 09/17/2021, with the Engineer's Instruction no. PIN\_30/1B.7/2021, the Engineer provided to the Contractor annex no. 1 to the EMP of 07/19/2021, which was created as it was necessary to change the location of nature compensation consisting in the execution of plantings on the register plots indicated in the EMP.

On 02/13/2023, with the Engineer's Instruction no. PIN\_72/1B.7/2023, the Engineer provided to the Contractor annex no. 2 to the EMP of 01/09/2023, which was created as it was necessary to change the content of the Characteristics of the project, being an integral part of the Decision on environmental conditions issued by RDOŚ in Wrocław of May 19, 2021 (ref.: WOOŚ.420.7.2020.AP.3), hereinafter referred to as the RDOŚ Decision – the decision is included in App. 5a to the EMP for Contract 1B.7. The change originated from field limitations when executing the Contract 1B.7 due to the construction of a separate investment - provincial road, implemented as part of the project “Construction of provincial road from provincial road no. 455 to national road no. 98, length of approx. 10,40 km from km 8+070 to km 18+470 (in a local system)” (the task was not implemented as part of the OVFMP; it was a different investment, independent of the OVFMP, and was also a public purpose investment conducted by DSDiK in Wrocław). It was thus necessary to resolve the field limitations in the area where the two

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

investments were located in their immediate neighbourhood by introducing for implementation a different type of a flood protection structure than had been originally envisaged, along a stretch of the left bank of the Widawa River. The purpose was to provide access by road, i.e. access to plots nos. 276/5, 276/2, 276/3 and 275/6, precinct of Śliwice, municipality of Długoleka. Replacement design solutions were then elaborated consisting in replacing a flood protection embankment with a flood protection wall along the left bank of the Widawa River at a distance of approx. 130 m, together with the construction of two flood gates. The original content of the RDOŚ decision stated only and exclusively the execution of hydrotechnical structures in the form of flood protection embankments, thus it was necessary to introduce the change.

### 2.1. CONDITIONS DETERMINED IN APPENDIX 1 TO THE EMP

In order to limit the negative impacts of the planned Task on the environment, Appendix no. 1 to the EMP, a list of mitigation measures from 1 to 93 valid for the Contractor, was provided. These measures were developed on the basis of the conditions contained in the administrative decisions issued for the Task valid in scope of environmental protection (including in the works notification documentation), with the addition of additional conditions established at the stage of EMP preparation. A complete list of mitigation measures is summarised in Appendix 1 of the EMP, and grouped into the following categories:

Table 2. Thematic categories of the grouped measures listed in Appendix 1 of the EMP.



## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

Cat.	Category Name	Item on the list
01	REQUIREMENTS RELATED TO LOCALISATION AND LIMITATION OF AREA OF TEMPORARY OCCUPATION	1-5
02	REQUIREMENTS CONCERNING THE COMMUNICATION SERVICE OF THE TASK IMPLEMENTATION AREA	6-7
03	ORGANISATION OF THE SITE, SITE BACK-UP FACILITIES, WAREHOUSES AND STACKING YARDS	8-12
04	REQUIREMENTS ON SECURING PROTECTED NATURAL RESOURCES	13-33
05	TOPSOIL HANDLING PRINCIPLES AND LAND RECLAMATION	34-36
06	REQUIREMENTS FOR FELLING AND PROTECTING TREES AND SHRUBS	37-43
07	REQUIREMENTS CONCERNING WASTE MANAGEMENT	44-51
08	REQUIREMENTS CONCERNING PREVENTION OF PROLIFERATION AND ELIMINATION OF INVASIVE SPECIES OF PLANTS	52-54
09	PRINCIPLES OF CARRYING OUT WORKS WITHIN BEDS OF WATERCOURSES	55-60
10	REQUIREMENTS CONCERNING THE PREVENTION OF ENVIRONMENTAL CONTAMINATION	61-69
11	REQUIREMENTS CONCERNING PROTECTION OF CULTURAL MONUMENTS	70-72
12	REQUIREMENTS FOR ENSURING HUMAN HEALTH AND SAFETY	73-83
13	REQUIREMENTS FOR THE CONTRACTOR'S PERSONNEL INVOLVED IN THE IMPLEMENTATION OF THE EMP	84-91
14	REQUIREMENTS RESULTING FROM THE WATER PERMIT	92-94

### 2.2. CONDITIONS DETERMINED IN APPENDIX 2 TO THE EMP

Appendix no. 2 to the EMP provides a set of monitoring measures applicable to the Task Contractor. These measures were developed on the basis of the conditions contained in the notification of works and in the valid administrative decisions issued for the Task, with the addition of additional conditions established at the stage of preparation of the EMP. The monitoring measures listed in Appendix 2 of the EMP in items 1-94 comprise the conduct of monitoring for the implementation of the mitigation measures listed in Appendix 1 to EMP. The monitoring measures detailed in Appendix 2 to the EMP are assigned to the individual groups of measures as described above.

The table of monitoring measures determines, inter alia, the monitoring places, the method of monitoring, the period and frequency of monitoring, as well as the units responsible for conducting the monitoring.

### 3. SYSTEM OF SUPERVISION OF THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE EMP FOR CONTRACT 1B.7

Supervision over the implementation of the mitigation measures and monitoring measures specified in the EMP for Contract 1B.7 was conducted at the level of all organisational units participating in the execution of the Contract, i.e. the Works Contractor, Engineer, Project Implementation Office (PIO) and Project Coordination Unit (PCU).

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

Moreover, during the term of Contract implementation, monthly meetings were held to discuss and control the implementation of the mitigation and monitoring measures specified in the EMP. The current requirements and problems related to the implementation of the measures defined in the EMP were also discussed during the monthly Construction Site Meetings. All the meetings were attended by the representatives of the Contract Engineer, Employer (Project Implementation Office (PIO)), Contractor and Project Coordination Unit. At the same time, during the execution of the Contract, the regular monitoring was conducted of the correct implementation of individual measures through the Engineer's regular inspections and the Engineer's nature supervision at the construction site. Notes and reports as well as photographic documentation of the site were prepared from the particular inspections. The current measures were discussed, steps needed to be taken were identified and recommendations were issued on a regular basis during field inspections and working meetings with the Contractor. Recommendations were also communicated to the Contractor on a regular basis through continuous correspondence and verification of the documentation provided by the Contractor. The correct implementation of the Contract in terms of the Contract requirements, as well as the applicable laws and legal acts was also supervised, including, in particular, the Construction Law and the Environmental Protection Law, and the administrative decisions obtained for the purpose of Contract implementation.

Supervision over of the implementation of the measures resulting from the EMP included the preparation of reports in the Contractor's monthly reporting system, reviewed by the Engineer, and the Engineer's monthly reports.

### 3.1. CONTRACTOR

The Site Manager was the person directly responsible for implementing the measures defined in the EMP on behalf of the Works Contractor. In order to provide support to the Site Manager in the implementation of the EMP, the EMP Coordinator and the Contractor's environmental team were appointed within the Contractor's team. The team of environmental experts was composed of representatives of the following specialisations: herpetologist, ornithologist, phytosociologist, ichthyologist, entomologist, chiropterologist, theriologist. These experts were involved in the implementation of the selected mitigation and monitoring measures identified in the EMP. The EMP Coordinator oversaw the implementation of individual EMP conditions, monitored the implementation status of particular conditions from Appendix 1 and 2 of EMP, cooperated with the Contractor's team (including a team of environmental experts, a team of archaeologists and a team of sapper supervision) in scope of ensuring the implementation of the EMP, cooperated with the Engineer's team responsible for implementation of the EMP for the Contract. Furthermore, in accordance with item 84 and item 86 in Appendix 1 of the EMP, the Contractor ensured the participation of a team of experts of archaeological and sapper supervision, in the scope consistent with the requirements of the EMP. After the end of each month, the Contractor submitted a report on the implementation of the measures defined in the EMP with a checklist describing the current implementation status of the individual EMP conditions for the given month. The list was forwarded to the Expert for environmental management in the Engineer's team, together with the relevant attachments (including but not limited to notes, opinions/notes of environmental supervision, etc.).

### **3.2 ENGINEER**

The Key Expert for Environmental Management and Supporting Expert for Environmental Management, cooperating in this regard with the Resident Engineer, supervision inspectors and other members of the Engineer's team providing investor's supervision over the project implementation, exercised direct supervision over the implementation of the EMP conditions on behalf of the Engineer's team. The Environmental management experts were in regular contact with the Site Manager and the EMP Coordinator in the Contractor's team, establishing the scope of conditions needed to be met at a given stage of the works, overseeing the implementation status of individual EMP conditions, participating in problem solving and conducting the site inspections. After the end of each reporting period (month and quarter), the environmental management experts reviewed the Contractor's environmental documentation and prepared reports submitted to the Project Implementation Office.

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

The Environmental Specialist, cooperating in this regard with the Head of the PIO, other members of the PIO team, as well as other organisational units of SWH PW RZGW Wrocław, exercised direct supervision over the implementation of the EMP conditions on behalf of the Project Implementation Office (PIO). The Environmental Specialist and the Head of the PIO remained in contact with the Key Expert for Environmental Management and Supporting Expert for Environmental Management in the Engineer's team, overseeing the implementation status of the particular conditions of the EMP and engaging in resolving the current issues.

After the end of each reporting period (month and quarter), the Environmental Specialist and the Head of the PIO reviewed the current environmental documentation of the Contract, and then forwarded it to the Project Coordination Unit (to the extent consistent with

the EMP conditions).

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

The Environmental Management Expert, cooperating in this regard with the other members of the PCU's team, exercised direct supervision over the implementation of the EMP conditions on behalf of the Project Coordination Unit. The Expert remained in regular contact with the Head of the PIO and with the Environmental Specialist in the PIO team. He/she also cooperated with those responsible for the implementation of the EMP on behalf of other organisational units of the investment process, namely the Key Expert for Environmental Management and Supporting Expert for Environmental Management in the Engineer's team, as well as the Site Manager and the EMP Coordinator in the Contractor's team. The Environmental Management Expert oversaw the

## **FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7**

implementation status of individual EMP conditions, by engaging in resolving the current issues and by participating in site inspections. After the end of each quarterly reporting period, the Expert reviewed the environmental documentation provided by the PIO and prepared an input to the PCU's reports subsequently submitted to the World Bank.

### **4. IMPLEMENTATION STATUS OF MITIGATION MEASURES UNDER APPENDIX 1 TO THE EMP**

This chapter describes the status of 93 mitigation measures aimed to prevent and reduce the negative environmental impacts of the project on the condition of the environmental resources listed in Appendix 1 of the EMP for Contract OVFMP 1B.7. Information on the implementation of these measures is also provided in the Checklist attached as Appendix no. 1 to this report.

#### **4.1. CONTRACTOR'S MEASURES**

In accordance with the content of Appendix 1 of the EMP for Contract 1B.7, the entity responsible for implementing the mitigation measures:

- defined in items nos. 1-29, 31, 33-52, 55, 57-59, 61-90 is the Contractor,
- in item 30 - Designer and Investor, in item 32 - Contractor and Investor, in items 53 and 54 - Contractor to the end of DNP and then Investor, in items 56 and 60 - Designer and Contractor, in items 91 and 92 - PIO, Engineer's Team and Contractor, in item 93 - PIO.

The Investor implemented 93 mitigation measures within the implementation period of the Contract.

The mitigation measures were implemented by the Contractor with the participation of specialists from the Contractor's team of environmental experts. The team was composed of the following persons within the execution period of the Contract: herpetologist, ornithologist, chiropterologist, entomologist, phytosociologist, ichthyologist, theriologist. The Contractor's resources also included: sapper and archaeological supervision.

Mitigation measures were agreed upon/accepted (if required by the conditions of Contract and/or the EMP) and supervised by the Engineer, with participation of the Environmental Management Expert and Resident Engineer.

#### **4.2 ENGINEER'S MEASURES**

In line with the information provided in monthly and quarterly reports on the implementation of the measures specified in the EMP:

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

In the Contract performance period, the Engineer/Consultant implemented 1 (1.2%) mitigation measure (item 91 under Appendix 1 to the EMP);

Mitigation measures were implemented by the Engineer with participation of selected experts from the Engineer's team (composition of the team is given in chapter 3.2).

### 4.3 EMPLOYER'S MEASURES

In line with the information provided in monthly and quarterly reports on the implementation of the measures specified in the EMP:

Within the implementation period of the Contract, the Investor implemented 5 (5.37%) mitigation measures (items 30, 32, 91, 92, 93 under Appendix 1 to the EMP);

Mitigation measures were implemented by the Investor with participation of selected experts from the PIO's team (composition of the team is given in chapter 3.3).

### 4.4 PROBLEMS CONC. IMPLEMENTATION OF MITIGATION MEASURES UNDER APPENDIX 1 TO THE EMP

In line with the information provided in monthly and quarterly reports on the implementation of the measures specified in the EMP, the following problems and/or inconsistencies associated with implementation of the mitigation measures described in Appendix 1 of the EMP for Contract 1B.7 were found over the period of Contract execution:

- **item 8 (prevention of animal access to the work areas)** – a fence protecting the construction site facilities area at 22. Wierzbowa St. in Kielczówek against the entry of amphibians, reptiles, small mammals was found to be broken in several places. The Contractor repaired the fence immediately.
- **item 34 (removing and securing the topsoil prior to the commencement of works)** – at the site of the proposed flood reserve reservoir, a storage yard used by the Contractor was found, for the preparation of which topsoil was removed for the land. In the Engineer's opinion, the topsoil was stored in the wrong place along Wilczycka Street. The Contractor agreed with the nature supervision that the topsoil will be stored along the future flood protection embankment on arable land (along Wilczycka Street). The topsoil storage site was not naturally valuable, and was used for agriculture for many years. Hence, no hazards to the natural environment occurred when implementing the works related to topsoil removal and storage.
- **item 36 (land reclamation after the completion of works)** - insufficient sowing and mowing of vegetation on the embankments was found on several occasions. The

## FINAL REPORT ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN FOR CONTRACT 1B.7

contractor replanted the mixtures of grass and mowed the area according to the nature supervision's guidelines.

- **item 42 (protection of trees not intended for felling)** - it was reported that when inspecting the works in the park in Śliwice, irregularities were discovered in the protection of trees not intended for felling – earth masses from the excavation of the PD31 construction were stored both around the tree trunks and within the crown projection of the trees. The Contractor removed the earth masses and improved the protection of tree trunks.
- **item 46 (waste management principles)** – waste not cleaned up and left on the construction site was observed. The Contractor cleaned up the construction site immediately.
- **items 52, 53 and 54 (inspection of sections of embankments and necessity of eliminating sites of invasive plant species)** – the presence of Sakhalin Knotweed was reported next to an outbuilding in the former mill complex in Wilczyce. The Contractor eliminated the knotweed position by digging it up along with the root ball and spreading plastic sheeting over the strip of land from which the knotweed was removed. The plant removal procedure was repeated several times because the removal of knotweed is a difficult procedure, the plants are growing back from underground rhizome fragments.
- **item 55, 56 and 59 (principles of carrying out works within the removed section of the bed of Młynówka Kielczowska, conditions concerning the construction method of a new bed of Młynówka Kielczowska, control of sediments extracted from watercourses)** - On 07/23/2021, after the inspection of the Construction Site, the Engineer's personnel reported that they had observed that the bed of Młynówka Kielczowska at section 4, Task 3 at km 0+000 – 0+050 was backfilled, and that sediments excavated from the bottom of the Młynówka prior to backfilling had been deposited directly on the ground. The Engineer requested that information be submitted in respect of the implementation of the conditions defined in items 55, 56 and 59 of Appendix 1 of the EMP. In response, the Contractor informed that the works were performed in the place of the proposed bed connecting the Młynówka Kielczowska with the bed of the Mrówka (facility MK4) and in the place of the elimination of the bed of the Młynówka Kielczowska colliding with the construction of the flood protection embankment and the service road D5 at the estuary of the Młynówka Kielczowska (facility MK3). The works to date within MK3 and MK4 consisted of the construction of a temporary by-pass in the location of the proposed bed connecting the Młynówka Kielczowska and the Mrówka. The purpose of the by-pass was to ensure the run-off of waters of the Młynówka Kielczowska and Mrówka into the Widawa, as well as to allow the continued migration of animals when removing the estuary section of the Młynówka Kielczowska channel (MK3). Subsequently, an upper earth cofferdam was constructed to cut off the inflow of water into the backfilled section of the MK3 watercourse. After waiting until the water had drained away, the Contractor's nature supervision proceeded to visually inspect the bottom of the riverbed for the presence of aquatic organisms (in particular fish and mussels). No presence of animals

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was found. No rubble for possible further use was also identified along the removed estuary section of the Młynówka Kielczowska riverbed. The bottom material consisted solely of alluvion, which was not suitable for building-in again. When the activities described above had been undertaken, the bottom of the removed was started to be desludged and then backfilled, starting from the side of the earth cofferdam that had been made towards the estuary, so as to allow possible organisms (such as fish, larvae, invertebrates, etc.) to move safely towards the Widawa River.

No significant negative impact of the problems and/or irregularities described above on the surrounding environment was identified.

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

In accordance with the content of Appendix 2 of the EMP for Contract 1B.7, the entities responsible for implementing the 94 monitoring measures:

- defined in items nos. 1-29, 31, 33-52, 55-88, 90-94 are the Contractor and Engineer,
- in item 30 - the Contractor and the Investor, in item 32 - the Investor, in items 53 and 54 - the Contractor, and at the end of the Task period the Investor, in item 89 - the Engineer.

#### **5.1 CONTRACTOR'S MEASURES**

Within the implementation period of the Contract, the Contractor was conducting measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was carried out by:

- verification of requirements determined under the EMP for the current stage of works;
- verification of the Contractor's documents related to the implementation of the conditions under the EMP;
- regular inspections on the site of works; measures listed under Appendix 2 to the EMP; and
- regular arrangements with representatives of the Engineer and of the Employer.

Within the implementation period of the Contract, the Contractor implemented 94 (100%) monitoring measures, including:

- 94 (100%) measures were implemented in the scope required within the Contract implementation period (items 1-93 under Appendix 2 to the EMP).
- 0 (0%) measures were not implemented (item - under Appendix 2) because there was no such need;



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- for any of the measures, no problems and/or irregularities were identified in their implementation.

Cases of lack of implementation of monitoring measures attributable to the Contractor were not identified within the execution period of the Contract.

Monitoring measures were implemented by the Contractor with the participation of specialists from the Contractor's environmental team.

### 5.2 ENGINEER'S MEASURES

Within the implementation period of the Contract, the Engineer/Consultant was conducting measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was carried out by:

- verification of requirements determined under the EMP for the current stage of works;
- verification of the Contractor's and Investor's documents related to the implementation of the conditions under the EMP;
- regular inspections on the site of works;
- measures listed under Appendix 2 to the EMP;
- continuous arrangements with representatives of the Contractor and of the Investor.

Within the implementation period of the Contract, the Contractor implemented 94 (100%) monitoring measures, including:

- 94 (100%) measures were implemented in the scope required within the present reporting period;
- none of the measures (0%) was implemented partially.

Furthermore, within the implementation period of the Contract, the Engineer/Consultant was supervising implementation of 94 monitoring measures attributable to the Contractor, as per Appendix 2 to the EMP.

Monitoring measures and supervision measures with regard to the EMP were implemented by the Engineer/Consultant with participation of the selected experts from the Engineer's/Consultant's environmental team (composition of the team is given in chapter 3.2).



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### **5.3 ISSUES CONC. IMPLEMENTATION OF MONITORING MEASURES UNDER APPENDIX 2 TO THE EMP**

Within the implementation period of the Contract, the Investor was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was carried out by:

- verification of requirements determined under the EMP for the current stage of works;
- verification of the Contractor's and Engineer's documents related to the implementation of the conditions under the EMP;
- regular inspections on the site of works;
- measures listed under Appendix 2 to the EMP;
- continuous arrangements with representatives of the Contractor and of the Engineer.

The Investor was supervising the implementation of 94 monitoring measures attributable to the Contractor and to the Engineer, in accordance with Appendix 2 to the EMP.

Monitoring measures and supervision measures for implementation of the EMP were implemented by the Investor with participation of an environmental specialist in the PIO and a technical specialist (supervision inspector) (composition of the team is given in chapter 3.3).

In line with the information provided in monthly reports on the implementation of the measures specified in the EMP, no problems were found in implementation of the monitoring measures specified in Appendix 2 of the EMP for Contract 1B.7.

## **6 OTHER MEASURES AND EVENTS RELATED TO THE ENVIRONMENT, LOCAL COMMUNITY, HEALTH AND SAFETY**

### **6.1 OTHER MEASURES AND EVENTS RELATED TO THE ENVIRONMENT, LOCAL COMMUNITY**

Within the execution period of the Contract, the Contractor conducted preparatory and essential works under Contract 1B.7, including, notably, implementation of particular measures determined in the Environmental Management Plan in the range attributable to the Contractor. Furthermore, within the execution period of the Contract, the Contractor implemented, among others, other measures related to the environment and local community, connected with the execution of Contract 1B.7 in the following scope:

- protection of juveniles employed for the execution of the Contract.

During the Contract, the Contractor did employ juvenile employees below 18 years old.

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- eliminating the inappropriate forms of behaviour of persons employed under the Contract, including sexual harassment and mobbing.

The Contractor provided such conditions during the performance of the Contract in order to prevent cases of mobbing and sexual harassment, and has complied with labour law, good practices and work ethics. The Contractor enforced an awareness-raising programme to combat sexual harassment and mobbing and counteracted the above-mentioned phenomena by providing training to employees by an approved expert. The Contractor also conducted an information campaign by providing an information leaflet and maintaining a register of complaints and requests. During the course of the Contract, inappropriate behaviour by persons employed under the Contract related to incidents of sexual harassment and mobbing has not been reported.

- ensuring proper social and employment conditions for employees employed for the performance of the Contract, including equal pay for employees performing the same work without taking into account gender, sexual orientation or age, not persecuting or discriminating on the basis of gender, sexual orientation and age, or making it easier for employees to improve their professional qualifications.

The Contractor applied and observed all the provisions of the labour law in force in Poland, and followed accepted C-EMSP procedures and the ESHS Code of Practice. During the term of the Contract, no irregularities were reported in this respect by persons employed for Contract implementation.

- requirements on extraordinary threats to the environment and on complying with the rules recorded in the documents drawn up prior to the commencement of the works and updated as necessary.

During the execution of the Task, the Contractor continuously monitored compliance with the rules recorded in the documents prepared prior to the commencement of the works and updated them, if necessary, in particular: HASP plan, waste management plan, a flood protection plan for the construction site for the duration of the works. He monitored the risk of flooding or other emergencies on a continuous basis.

### 6.2 MEASURES AND EVENTS RELATED TO HEALTH AND SAFETY

Within the execution period of the Contract, the Contractor implemented, among others, the following measures related to health and safety, connected with the execution of Contract 1B.7 in the following scope:

- ensuring the safety and health protection of the persons employed for the performance of the Contract, including the provision of health and safety services required by law.

Within the execution period of the Contract, the Contractor ensured constant health and safety supervision, i.e. had a Health and Safety Specialist in his team, with qualifications and professional

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experience in accordance with Polish labour law, who held regular inspections of the construction site during each month. Each time a report was prepared from the health and safety inspection and recommendations were issued to the Contractor if irregularities were found. The Contractor ensured the participation of the OH&S Coordinator in his team, who apart from continuously inspecting the Construction Site, provided training to personnel in line with EMP guidelines and valid laws.

- principles of HIV/AIDS and Covid-19 disease prevention.

The Contractor, via an approved service provider, provided training on HIV/AIDS and Covid-19 disease prevention. The Contractor took also other measures to reduce the risk of transmission of diseases among the Contractor's personnel and the local community, including by equipping the Contractor's office and site facilities with HIV/AIDS prevention posters and providing information leaflets for employees and by providing access to condoms.

During the Covid-19-related pandemic, the Contractor maintained standards of keeping the distance and disinfection, and also introduced internal procedures to reduce virus transmission and staff morbidity by limiting the number of external meetings and replacing them with online meetings where possible. Moreover, in the period of a risk of spreading coronavirus infections causing COVID-19 disease, the Contractor was providing the Engineer with weekly reports on situation under Contract 1B.7 in reference to the aforementioned hazard, i.e. the status of morbidity among the Contractor's staff.

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

Extraordinary events/threats have occurred when conducting the Contract:

- the outbreak of pandemic caused by the SARS CoV-2 virus - institutions, workplaces, offices and public administrations operated under the revised rules. An epidemic state was in force from March 20, 2020. On May 5, 2023, the World Health Organisation (WHO) announced the end of the COVID-19 pandemic.
- the start of the geopolitical conflict in Ukraine on 02/24/2022, following the armed assault on that country by the Russian Federation,
- seasonal localised flooding and inundation of the construction site and high groundwater levels making it difficult or impossible to carry out certain works.

### **6.4 ACCIDENTS**

The Contractor, during the Contract implementation period, provided constant health and safety supervision. The supervision team held regular inspections of the construction site. Each time a report was prepared from the health and safety inspection and recommendations were issued if irregularities were found. The purpose of the reports was to undertake actions and rectify the

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deficiencies identified. The results of the measures taken by the Contractor were verified during the subsequent inspection. The OH&S supervision, apart from continuously inspecting the construction site, provided training to personnel in line with EMP guidelines and valid laws.

There were no incidents involving accidents, including accidents involving personnel of the Contractor, the Engineer or the Employer, during the term of the Contract.

### 7 SUMMARY

This report presents an account of the implementation of the measures specified in the Environmental Management Plan (EMP) for the project: 1B.7 – WFS Widawa – the rebuilding of the flood management system of the municipality of Czernica, Długołęka, Wisznia Mała and Wrocław, under the Odra-Vistula Flood Management Project (OVFMP).

The report comprises the period of implementation of the measures defined under the Environmental Management Plan executed at the key dates of the Contract:

- the instruction to commence Construction Works under the Contract of 06/10/2020 for Task 2, 3, 4 and 5 and of 08/10/2020 for Task 1 and 6,
- completion of works considered to be essential works, resulting from the Time for Completion,
- issuing the Taking-Over Certificate on 07/04/2023 (Task 1), 09/19/2022 (Task 2), 11/22/2022 (Task 3), 07/26/2023 (Task 4), 08/19/2022 (Task 5), 11/22/2022 (Task 6),
- Defects Notification Period of 356 days: 08/30/2023 (Task 2), 10/13/2023 (Task 3), 06/30/2024 (Task 4), 06/16/2023 (Task 5),
- Defects Notification Period of 365 days: 06/10/2024 (Task 1), 10/27/2023 (Task 6).

Within the implementation period of the Contract, the Contractor conducted construction works within the scope covered by the Contract (see description in chapter 1), including the implementation of 93 mitigation measures specified in the EMP, was monitoring 94 measures specified in the EMP and was attending other events related to the environment, local community, health and safety.

Within the implementation period of the Contract, the Engineer supervised the construction works performed under Contract 1B.7, and, inter alia, implemented the particular measures specified in the Environmental Management Plan in the scope attributable to the Engineer, was monitoring the implementation status of 93 mitigation measures specified in the EMP and was attending other events related to the environment, local community, health and safety.

Within the implementation period of the Contract, the Employer performed the assigned actions connected with implementation of Contract 1B.7 and, inter alia, implemented the particular measures specified in the Environmental Management Plan in the scope attributable to the

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Employer, was monitoring the implementation status of mitigation measures specified in the EMP and was attending other events related to the environment, local community, health and safety.

As a result of the monitoring measures conducted by the Contractor, Engineer and Employer, it is confirmed that within the execution period of the Contract:

- 93 mitigation measures listed under Appendix 1 of the EMP were implemented,
- 94 monitoring measures listed under Appendix 2 to the EMP were implemented.

A list of monitoring measures' implementation was presented under Appendix 1 to this report - Part III. Quantitative list of implementation of the measures listed under Appendix 1 and 2 to the EMP during the period of Contract execution.

### **8 LIST OF APPENDICES**

Appendix 1 – Checklist for implementation of measures listed under Appendix 1 and Appendix 2 to the EMP for Contract 1B.7.

Appendix no. 2 – Photographic documentation.

Appendix 3 – Checklist for implementation of measures listed under Appendix 3 to the EMP for Contract 1B.7.