

# FINAL REPORT

**ON THE IMPLEMENTATION OF THE MEASURES LISTED UNDER THE ENVIRONMENTAL  
MANAGEMENT PLAN  
FOR CONTRACT 2A.2/2**

Odra-Vistula Flood Management Project

Subcomponent	2.A: Active protection
Contract	<b>2A.2/2 – Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream</b>
Employer / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Wrocław
Project Implementation Office (PIO)	Project Implementation Office of the Odra-Vistula Flood Management Project
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*Odra-Vistula Flood Management Project  
Subcomponent 2A - Active protection.*

*Contract 2A.2/2 Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream*

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## INTRODUCTION

This document, prepared by the Contract Engineer within the framework of Consulting Services Contract no. 5.4 *Design and Construction Supervision. Project Management, Technical Assistance and Training, Technical Support for the Project and Strengthening of PIU's Institutional Capacity in the implementation of the Odra-Vistula Flood Management Project*, presents the final report on the implementation of the measures listed under the Environmental Management Plan (EMP) for Works Contract 2A.2/2 – *Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream*.

The report covers the following period:

- Commencement Date of implementation of Contract 2A.2/2  
(i.e. **April 16, 2018**);
- Date of completion of works considered to be essential works, resulting from the Time for Completion for the above-mentioned Contract (Taking-Over Certificate)  
(i.e. **05/26/2023**);
- End date of the Defects Notification Period (Performance Certificate)  
(i.e. **05/26/2024**).

The following is presented respectively for this Contract:

- Basic information on Contract 2A.2/2 (including, inter alia, the physical scope and basic dates of the Contract);
- Basic information on the Environmental Management Plan for Contract 2A.2/2;
- Organisational system for supervising the implementation of the Environmental Management Plan;
- Implementation status of the mitigation measures listed under Appendix 1 to the EMP;
- Implementation status of the monitoring measures listed under Appendix 2 to the EMP;
- Description of other activities and events concerning ESHS;
- Summary.

## 1 BASIC INFORMATION ON CONTRACT 2A.2/2

The Works Contract 2A.2/2 Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream was implemented as part of the Odra-Vistula Flood Management Project (OVFM Project), under Component 2: Flood protection of the Kłodzka Valley, Subcomponent: 2A Active protection.

An agreement with the Contractor for Contract 2A.2/2 was signed on April 16, 2018. The construction site was handed over on August 30, 2018. Preparation works prior to the commencement of construction works started in September 2018, contract documentation required prior to the commencement of construction works was developed.

The original Time for Completion of the Contract was envisaged for 1,187 days counting from the date of issuing the Notice to Proceed and expired on 12/04/2021. Under Amendment no. 2 of 08/25/2021, amending, in particular, the Contract execution date, the completion date of works was set at 04/28/2023.

The basic information about the Contract is presented below.

### Title of the Contract:

2A.2/2 Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream

Key dates for Contract 2A.2/2 are presented below

Table 1 Key Dates of Contract 2A.2/2.

Activity	Date
Signing of the Contract with Contractor	April 16, 2018
Construction Site handover	August 30, 2018
Issue of the Taking-Over Certificate	May 26, 2023
End of the Defects Notification Period	May 26, 2024

The need arose, when implementing mitigation and monitoring measures, to introduce changes to the EMP in the form of relevant annexes and decisions:

- Annex to the EMP concerning the modification of the expiry date of the RDOŚ decision from June 13, 2016 to June 30, 2023.  
Considering the completion date of construction works under Contract 2A.2/2, it was necessary to extend the expiry date of the RDOŚ decision of June 13, 2016 (reference: WPN.6401.194.2016.MR) on granting a permit for derogations from prohibitions in relation to the species of wild animals under species protection. Therefore, in order to implement the provisions of the RDOŚ decision, an Annex to the EMP was prepared. The document changed the wording of the conditions in items 114 and 123 in Appendix 1 and Appendix 2 of the EMP.

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- With the decision of RDOŚ of May 25, 2023 (reference: WPN.6401.325.2020.MH.1), the deadline for permitting derogations from prohibitions for protected animal species was extended to June 30, 2024.

**Physical scope:**

Contract 2A.2/2 consisted of the construction of a flood protection reservoir, the basic elements of which were:

- Reservoir dam,
- Relocation and regulation of watercourse channels,
- Rubble trap,
- Operating backyard building,
- Road infrastructure and lighting,
- Reconstructed power, telecommunication and teletechnical network,
- Environmental protection activities.

## **2 BASIC INFORMATION ON THE EMP FOR CONTRACT 2A.2/2**

The Environmental Management Plan for Contract 2A.2/2 was developed in May 2017 (final version). On June 20, 2017, the World Bank awarded a *No Objection* approving the Environmental Management Plan as one of the integral components of bidding documents, and then of the Contract for construction works. The EMP was respected by the Works Contractor in accordance with the hierarchy of documents applicable to the Contract. The document 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 - Appendix 1 containing the *Plan of mitigation measures*, and Appendix 2 containing the *Plan of monitoring measures*.

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

Appendix 1 to the EMP for Contract 2A.2/2 contains 123 mitigation measures to prevent and reduce the negative environmental impacts of the project. These measures were established based on the conditions contained in the valid administrative decisions issued in scope of environmental protection issued for the Contract (included in Appendix 4 of the EMP), as well as from the procedural requirements of the World Bank and from the additional conditions defined during works over EMP preparation. The table of mitigation measures in Appendix 1 of the EMP describes the individual measures and identifies where they will be implemented and who will be responsible for their implementation.

The mitigation measures given in Appendix 1 of the EMP fall into the following 21 thematic categories:



Table 2 Thematic categories of measures specified in Appendix 1 of the EMP for Contract 2A.2/2.

Cat.	Category Name	Item at EMP checklist
A.	Requirements on schedule of works	1-2
B.	Requirements on traffic system of the <i>Task implementation area</i>	3-4
C.	Requirements on locations of site facilities and service roads and yards	5-6
D.	Requirements on quality and management of soils	7-10
E.	Requirements on handling of topsoil	11
F.	Requirements on felling of trees and shrubs	12-17
G.	Requirements on protection of trees and shrubs not intended for felling	18-24
H.	Requirements on securing protected natural resources	25-38
I.	Detailed requirements on works in beds of watercourses	39-56
J.	Detailed requirements on works for construction of rubble trap	57
K.	Requirements on recreation of the site after completion of construction works	58
L.	Requirements on rules for the use of constructed facilities	59-68
M.	Requirements on prevention of environmental pollution	69-92
N.	Requirements on waste management	93-97
O.	Requirements on health and safety protection	98-103
P.	Requirements on extraordinary threats to the environment	104-106
R.	Requirements on conservation of historic monuments	107-109
S.	Measures related to the restoration of natural environment resources	110-112
T.	Implementation of the measures specified in RDOŚ decisions permitting derogations from prohibitions on protection of species of plants and animals	113-114
U.	Requirements on the Contractor's personnel implementing the EMP	115-120
V.	Requirements on reporting of EMP implementation	121-123

The content of the individual mitigation measures in Appendix 1 of the EMP is provided in the Checklist attached as Appendix no. 1 to this Report.

## 2.2 CONDITIONS DETERMINED IN APPENDIX 2 TO THE EMP

Appendix 2 of the EMP for Contract 2A.2/2 contains 127 monitoring measures aimed at monitoring the implementation of the mitigation measures described in Appendix 1 and at implementation of nature monitoring requirements defined in the environmental decision. The tabular list of monitoring measures is presented in Appendix 2 of the EMP. 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 2A.2/2**

Supervision over the implementation of the mitigation measures and monitoring measures specified in the EMP for Contract 2A.2/2 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). All of the organisational units mentioned above participated regularly once a month during the Contract implementation period in working meetings, from which minutes were recorded, dedicated to the discussion and control of the mitigation and monitoring measures specified in the EMP (item 120 of Appendix no. 1 and Appendix no. 2 of the EMP). Information on the scope of the particular units' activities is presented below.

#### **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. As per item no. 116 of Appendix 1 to the EMP, in order to provide support to the Site Manager in the implementation of the EMP, the EMP Coordinator was appointed within the Contractor's team. This person's obligation was to supervise the implementation of particular conditions of the EMP in subsequent stages of the Contract implementation; cooperate with the Site Manager, the rest of the Contractor's personnel, to cooperate with persons responsible for the implementation of the EMP in the Engineer's and Employer's team, and also to conduct current reporting in the above-mentioned scope. Furthermore, in accordance with items 117, 118 and 119 of Appendix 1 of the EMP, the Contractor has ensured the participation of a team of experts of environmental, archaeological and sapper supervision, in the scope consistent with EMP implementation.

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 Key Expert/Specialist for Environmental Management in the Engineer's team, together with the relevant attachments (including in particular notes, opinions/notes of environmental supervision, etc.).

#### **3.2 ENGINEER**

The Key Expert/Specialist 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 Expert/Specialist for Environmental Management was in regular contact with the Contractor's EMP Coordinator, by 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 Construction Site inspections. After the end of each reporting period (month and quarter), the Expert/Specialist for Environmental Management reviewed the Contractor's environmental documentation and prepared reports submitted to the Project Implementation Office.

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

The Environmental Specialist, cooperating in this regard with the Head of the PIO, other members of the PIO, exercised direct supervision over the implementation of the EMP conditions on behalf of the Project Implementation Office (PIO). The PIO's specialist remained in contact with the Expert/Specialist 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 reviewed the current environmental documentation of the Contract (including reporting to RDOŚ in Wrocław).

Quarterly reports on the implementation of the EMP for a given reporting period were submitted by the PIO in Wrocław to the Project Coordination Unit (to the extent consistent with the terms of the EMP).

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

The Expert for Environmental Management, 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 Specialist for Environmental Management in the Engineer's team, as well as the Site Manager and the EMP Coordinator in the Contractor's team. The Expert for Environmental Management oversaw the implementation status of individual EMP conditions, by engaging in resolving the current issues in the scope mentioned above. 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 implementation status of 123 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 2A.2/2. Information on the implementation of these measures is also provided in the *Checklist* attached as *Appendix no. 1* to this report. The measures defined in the EMP were started to be implemented as from the date of the instruction to commence Construction Works of 08/30/2018, and completed after the Defects Notification Period of 05/26/2024.

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

In line with the content of Appendix 2 to the EMP for Contract 2A.2/2, the unit responsible for implementation of the mitigation measures determined in items 1-123 under Appendix 1 of the EMP is the Contractor, in items 122 and 123 under Appendix 1 of the EMP is the Engineer and Employer, whilst in items 59-68 and 110-112 is the Employer after Contract completion. In total, the EMP provided for the implementation of 123 mitigation measures. In line with information submitted by the Contractor and according to the Engineer's and Employer's information:

- a) 123 mitigation measures were implemented within the reporting period, including:
  - 107 mitigation measures were implemented to the date of essential completion of the works covered by the Contract (items 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 18, 19, 20, 21, 22, 23, 24, 26, 27, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123 under Appendix 1 of the EMP).
- a) implementation of 16 mitigation measures was finally completed before the date of essential completion of the works covered by the Contract (items 7, 12, 13, 14, 15, 16, 17, 25, 28, 48, 51, 52, 53, 54, 56, 57 under Appendix 1 of the EMP).

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 reporting period: herpetologist, ornithologist, chiropterologist, entomologist, phytosociologist, dendrologist, bryologist, ichthyologist, theriologist. The Contractor's resources also included: sapper and archaeological supervision.

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

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

As per the information provided in monthly and quarterly reports on the implementation of the measures specified in the EMP, within the reporting period the Contractor was implementing 2 mitigation measures in cooperation with the Contractor and the Employer – item no. 122, 123 concerning the provision of information on the implementation of the following EMP conditions: 15, 27, 40, 63, 113, 114 to the Regional Directorate for Environmental Protection in Wrocław.

No irregularities were found in this area within the current reporting period.

#### 4.3 INVESTOR'S MEASURES

As per the information provided in monthly and quarterly reports on the implementation of the measures specified in the EMP, within the reporting period the Employer was implementing 2 mitigation measures in cooperation with the Contractor and the Engineer – item no. 122, 123 concerning the provision of information on the implementation of the following EMP conditions: 15, 27, 40, 63, 113, 114 to the Regional Directorate for Environmental Protection in Wrocław.

No irregularities were found in this area within the current reporting period.

In the operation phase, however, the Employer will be responsible for conducting maintenance works for the flood protection reservoir for items: 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 110, 111, 112 under Appendix 1 to EMP.

#### 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 issues and/or inconsistencies associated with implementation of 12 mitigation measures listed under Appendix 1 to the EMP for Contract 2A.2/2 were identified (in the order according to the item numbers under Appendix 1 to the EMP):

- **item 11** in Appendix 1 of the EMP (the 4th quarter of 2020) – storage of the topsoil layer.  
At the date indicated above, the Contractor stored the construction material by covering the topsoil heap. The Engineer passed his comments to the Contractor, who moved the material away from the topsoil.  
The above shortcoming had no actual impact on the environment.
- **item 15** in Appendix 1 of the EMP (the 4th quarter of 2018) – environmental supervision during clearance of trees of circumference at breast height above 40 cm.  
At the date indicated above, it was found that there were environmental supervision experts during clearance of trees of circumference at breast height above 40 cm. The Engineer directed his comments to the Contractor who took corrective actions.  
The above shortcoming was incidental and had no actual impact on the environment.
- **Items no. 18 and 19** in Appendix 1 of the EMP (the 2nd quarter of 2023) – protection of trunks of trees not intended for felling.  
The Engineer found at the above date that the Contractor was performing works in the vicinity of trees that were not secured against possible damage. The Engineer provided his comments to the Contractor who implemented corrective actions.  
The above shortcoming was incidental and had no actual impact on the environment.
- **item 31** in Appendix 1 of the EMP (the 4th quarter of 2019) – protection against access of small animals to the Construction Site.  
The Engineer found at the above date that protection against access of small animals to the Construction Site was damaged. The Engineer provided his comments to the Contractor who repaired the damage.  
The above shortcoming had no actual impact on the environment.
- **item 43** in Appendix 1 of the EMP (the 4th quarter of 2019 and third quarter of 2021) – keeping the flow of water in watercourses.  
During the above periods, obstructed flow of water was found in the Duna riverbeds at ford crossings. The Engineer, immediately after identifying the irregularity, provided his comments to the Contractor who implemented corrective actions.

The above shortcoming had no actual impact on the environment.

- **item 74** in Appendix 1 of the EMP (the 2nd quarter of 2019) – conditions for traffic of vehicles at the Construction Site.  
At the above date, tracked vehicles were found to be moving in an area not intended and prepared for this. The Engineer passed his comments to the Contractor who stopped traffic in the places not prepared for this at the site.  
The above shortcoming had no actual impact on the environment.
- **item 75** in Appendix 1 of the EMP (the 3rd quarter of 2019) – parking of vehicles after the end of work.  
The Contractor parked vehicles working at the Construction Site in areas unprepared for this during the referred period after the end of works. During the night hours, the vehicles situated at the Construction Site were set on fire. The Engineer requested to explain the incident and directed his comments regarding the parking of vehicles. The Contractor implemented corrective actions for parking of vehicles and explained that there was leakage of petroleum substances as a result of the fire. The fire brigade was called to the site and the area was cleaned up.  
The above shortcoming and event had no actual impact on the environment.
- **Items 85, 86, 87** in Appendix 1 of the EMP (the 3rd quarter of 2021) – reducing the time of works to daytime.  
At the above date, there was a notification from local residents that the Contractor is carrying out works after 10.00 pm. The Engineer requested the Contractor to clarify this and informed the Contractor of his duties. The Contractor clarified the circumstances of carrying out the works at night hours.  
The above shortcoming was incidental and had no actual impact on the environment.
- **item 90** in Appendix 1 of the EMP (the 2nd quarter of 2019) – dust control from construction site and roads.  
At the above date, significant dust caused by vehicles working on the site was found. The Engineer provided his comments to the Contractor who implemented corrective actions (spraying of dusting surfaces with water was intensified).  
The above shortcoming had no actual impact on the environment.
- **item 94** in Appendix 1 of the EMP (the 2nd quarter of 2019) – waste management principles.  
Overfilled waste container and no segregation of waste were found at the above date. The Engineer provided his comments to the Contractor who implemented corrective actions (regular emptying of containers, segregation of waste)).  
The above shortcoming had no actual impact on the environment.

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

In accordance with the content of Appendix 2 to the EMP for Contract 2A.2/2, the units responsible for implementation of 127 monitoring measures specified under Appendix 2 of the EMP is the Contractor, in item 1-123 and 127 under Appendix 2 of the EMP the Engineer, and in items 125 and 126 under Appendix 2 of the EMP the Employer. In total, the EMP envisaged the implementation of 127 monitoring measures, and all the measures should be executed within the implementation period.

### **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 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; the measures listed under Appendix 2 to the EMP; and
  - regular arrangements with representatives of the Engineer and of the Employer.
- a) The Contractor implemented 126 (99%) monitoring measures within the reporting period, including:
- 126 (100%) measures were implemented in the scope required within the reporting period (items no. 1-124 and 126-127 under Appendix 2 to the EMP).
  - for any of the measures, no problems and/or irregularities were identified in their implementation.
- b) The cases of lack of implementation for monitoring measures attributable to the Contractor were not identified within the reporting period.

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

### **5.2 ENGINEER'S/CONSULTANT'S 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 carried out by:

- verification of requirements determined under the EMP for the current stage of works;
- verification of the Contractor's and Employer'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 Employer.

The Engineer implemented 127 (100%) monitoring measures within the reporting period, including:

- c) the Engineer/Consultant implemented 126 (99%) monitoring measures within the reporting period, including:
- 126 (100%) measures were implemented in the scope required within the reporting period (items no. 1-124 and 126-127 under Appendix 2 to the EMP).
  - for any of the measures, no problems and/or irregularities were identified in their implementation.

- d) Cases of lack of implementation for monitoring measures attributable to the Engineer/Consultant were not identified within the reporting period.

Cases of lack of implementation for monitoring measures attributable to the Engineer were not identified within the reporting period.

Monitoring measures were implemented by the Engineer with participation of specialists from the environmental team, including environmental management experts/environmental management specialists, inspectors and Contract Engineer.

### **5.3 INVESTOR'S MEASURES**

Within the reporting period, the Employer 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 Employer implemented 2 (1.6%) monitoring measures within the reporting period, including:

- 1 (1%) measure was implemented in the scope required within the reporting period (item no. 126 under Appendix 2 to the EMP).
- for any of the measures, no problems and/or irregularities were identified in their implementation.

Cases of lack of implementation for monitoring measures attributable to the Employer were not identified within the reporting period.

Furthermore, within the reporting period, the Employer was supervising the implementation of 127 monitoring measures attributable to the Contractor and to the Engineer, in accordance with Appendix 2 to the EMP.

Monitoring measures and supervision measures within the scope relating to the EMP were implemented by the Employer with participation of the PIO's technical and environmental specialist.

### **5.4 PROBLEMS CONC. IMPLEMENTATION OF MONITORING MEASURES UNDER APPENDIX 2 TO THE EMP**

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 2A.2/2.



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

### **6.1 CONTRACTOR'S MEASURES**

Within the reporting period, the Contractor conducted preparatory and construction works under Contract 2A.2/2, including, notably, implemented the particular measures determined in the Environmental Management Plan in the range attributable to the Contractor.

### **6.2 ENGINEER'S MEASURES**

Within the reporting period, the Engineer supervised the works conducted under Contract 2A.2/2 and implemented particular measures determined in the Environmental Management Plan within the scope attributable to the Engineer.

### **6.3 INVESTOR'S MEASURES**

Within the reporting period, the Investor performed its actions associated with implementation of Contract 2A.2/2, and implemented the particular measures determined in the Environmental Management Plan within the scope attributable to the Investor, and supervised actions of the Contractor and of the Engineer.

### **6.4 OTHER MEASURES**

Within the reporting period, an epidemic state was in force at the territory of the Republic of Poland in relation to SARS-CoV-2 virus infections, causing COVID-19 disease. The activities of the Contractor, the Engineer/Consultant and the Investor in the implementation of the measures related to the Environmental Management Plan were aligned with the applicable sanitary requirements related to the prevention of the spread of the SARS-CoV-2 virus.

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

No extraordinary events, threats and catastrophes were noted during the reporting period.

### **6.6 ACCIDENTS AND OTHER EVENTS**

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

In the reporting period, no accidents involving the Contractor's employees were recorded.

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

Within the reporting period, an incident occurred involving a semi-trailer with a tractor-trailer overturned at the Krosnowice Reservoir Construction Site at 1.00 am on 10/04/2022. The vehicle belonged to a company providing services to supplier Kompania Górnicza sp. z o.o. The driver of the transport company was in the cab of the tractor at the time of the accident. Emergency services (ambulance, police) were called immediately after the incident. The driver was conscious and was taken to hospital in Polanica-Zdrój in this condition. The injured person left hospital on 10/05/2022. An inspection by the State Labour Inspectorate took place on October 5, 2022. No irregularities were found.

In addition, the Contractor took measures to implement during the execution of the works to reduce the risk of such accidents occurring in the future. These activities focused on informing drivers on the correct behaviour at the island in terms of taking special care when unloading bulk materials. It was specifically pointed out to the drivers that the material they were bringing in could have a tendency to stick to the surface of the trailer, and it was necessary to control the ejection of the material when lifting the trailer. Drivers were obliged to make sure that the material was loaded evenly in the loading zone before starting to unload, the Contractor prepared signs to inform them of the above obligations.

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

In the reporting period, no accidents involving the outsiders were recorded.

#### **6.6.4 Other events**

No other incidents at the Construction Site were recorded during the reporting period.

### **6.7 ENSURING THE CONDITIONS OF WORK AND PAY FOR THE PERSONNEL**

Within the reporting period, the Contractor ensured the appropriate conditions of work with adherence to the provisions of the labour law binding in Poland.

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

Within the reporting period, no cases of sexual harassment and mobbing occurred.

## 7 SUMMARY

This report presents an account of the implementation of the measures specified in the Environmental Management Plan (EMP) for the project: 2A.2/2 – *Construction of "Krosnowice" - a dry flood control reservoir on Duna Stream* under the Odra-Vistula Flood Management Project (OVFMP).

The report comprises the implementation period 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 2A.2/2 (i.e. of April 16, 2018);
- completion of works considered to be essential works, resulting from the Time for Completion (i.e. until May 26, 2023);
- Defects Notification Period of 365 days from issuing the Taking-Over Certificate (i.e. until May 26, 2024).

Within the reporting period, the Contractor conducted construction works within the scope covered by the Contract (see description in chapter 1), including the implementation of 123 mitigation measures specified in the EMP, was monitoring 127 items specified in the EMP and was attending other events related to the environment, local community, health and safety.

Within the reporting period, the Engineer supervised the construction works conducted under Contract 2A.2/2 and, inter alia, implemented particular measures determined in the Environmental Management Plan within the scope attributable to the Engineer. The Engineer was monitoring the implementation status of 123 mitigation measures specified in the EMP and was attending other events related to the environment, local community, health and safety.

Within the reporting period, the Employer performed the assigned actions connected with implementation of Contract 2A.2/2 and, inter alia, implemented the particular measures specified in the Environmental Management Plan in the scope attributable to the 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, the Engineer and the Employer, it was found that the following was done within the reporting period:

- 123 of 123 mitigation measures specified in Appendix 1 of the EMP were implemented, of which:
- for 112 mitigating measures listed in Appendix 1 to the EMP, executed in the reporting period, no recurring problems in their implementation were identified,
- for 11 mitigating measures executed in the reporting period, listed in Appendix 1 to the EMP, no recurring problems in their implementation were identified,
- 126 of 127 monitoring measures under Appendix 2 to the EMP were put into life.

## 8 SOURCE MATERIALS

- Decision of the Regional Director for Environmental Protection in Wrocław of March 13, 2015, ref. no.: WOOŚ.4204.2.2013.ŁCK.24 specifying environmental conditions for the project entitled: *Construction of "Krosnowice" – a dry flood control reservoir on Duna stream near Krosnowice, Kłodzko Municipality in the Lower Silesian Province.*
- Decision of the Regional Director for Environmental Protection in Wrocław of June 13, 2016, ref. no.: WPN.6400.22.2016.MR on granting a permit for derogations from prohibitions applicable to protected species of plants.
- Decision of the Regional Director for Environmental Protection in Wrocław of June 13, 2016, ref. no.: WPN.6401.194.2016.MH on granting a permit for derogations from prohibitions applicable to protected species of animals.
- Decision of the Regional Director for Environmental Protection in Wrocław of November 23, 2020, ref. no.: WPN.6401.325.2020.MH on granting a permit for derogations from prohibitions applicable to protected species of animals.
- Decision of the Regional Director for Environmental Protection in Wrocław of May 25, 2023, ref. no.: WPN.6401.325.2020.MH.1 on granting a permit for derogations from prohibitions applicable to protected species of animals.
- Environmental Management Plan for Contract 2A.2/2.
- Contract Engineer's Monthly Reports and Quarterly Reports on the implementation status of the Environmental Management Plan for the next months and quarters of Contract 2A.2/2.
- Contractor's Monthly Reports on the implementation status of the Environmental Management Plan.
- Opinions and notes of the Contractor's Nature Supervision.
- Notes of meetings dedicated to the implementation of the Environmental Management Plan.

## **9 LIST OF APPENDICES**

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

Appendix no. 2 – Photographic documentation.