

# FINAL REPORT

## ON THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT

### PLAN


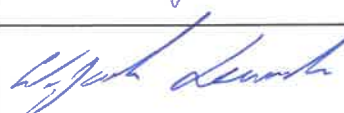

FOR CONTRACT 2A.2/1

Odra-Vistula Flood Management Project

Subcomponent	2.A: Active protection
Contract	<b>2A.2/1 – Construction of “Szalejów Górny” – a dry flood control reservoir on Bystrzyca Dusznicka River</b>
Employer / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Wrocław
Project Implementation Office (PIO)	Odra-Vistula Flood Management Project Implementation Office
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## INTRODUCTION

This document, prepared by the Contract Engineer under the Contract for Consulting Services 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 specified in the Environmental Management Plan (EMP) for Works Contract 2A.2/1 – *Construction of “Szalejów Górny” – a dry flood control reservoir on Bystrzyca Dusznicka River*.

The report covers the following period:

- Commencement date of implementation of Contract 2A.2/1  
(i.e. **04/16/2018**);
- Date of completion of the works considered to be essential works, resulting from the Time for Completion for the above-mentioned Contract (Taking-Over Certificate)  
(i.e. **10/31/2023**);
- End date of the Defects Notification Period (Performance Certificate)  
(i.e. **07/31/2025**).

The following is presented respectively for this Contract:

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

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

The Works Contract 2A.2/1 – Construction of “Szalejów Górny” – a dry flood control reservoir on Bystrzyca Dusznicka River 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.2/1 was signed on April 16, 2018. The construction site was handed over on September 4, 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 assumed 1,187 days counting from the date of issuing the Notice to Proceed and expired on 12/04/2021. As a result of the signed Amendments to the Contract, the completion date of works was set to 10/31/2023.

The basic information about the Contract is presented below.

### **Title of the Contract:**

*2A.2/1 – Construction of “Szalejów Górny” – a dry flood control reservoir on Bystrzyca Dusznicka River*

Key dates for Contract 2A.2/1 are presented below.

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

Activity	Date
Signing of the Contract with Contractor	April 16, 2018
Construction Site handover	September 4, 2018
Issue of the Taking-Over Certificate	December 21, 2023
End of the Defects Notification Period	July 31, 2025

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

- Annex no. 1 to the EMP concerning the supplementing of the scope of works related to the construction of service road no. 8.1 located within the Construction Site;
- Annex no. 2 to the EMP concerning the extending of the validity of administrative decisions for environmental protection. Decisions on granting a permit for derogations from prohibitions in relation to the protected individuals of plants and species of animals under species protection.
- Annex no. 3 to the EMP concerning the extending of the validity of RDOŚ’ decision for a permit for derogations in relation to protected species of animals.

**Physical scope:**

Contract 2A.2/1 consisted of the construction of a flood protection reservoir, the basic elements of which were:

- The reservoir's dam including sluice facilities and control and measurement equipment,
- Relocation and regulation of riverbed of the Bystrzyca Dusznicka and regulation of the estuary section of the Cicha stream,
- Rubble trap,
- Side embankment,
- Operating backyard building,
- Road infrastructure and lighting,
- Reconstruction of power networks,
- Teletechnical network,
- Reconstruction of the water supply and gas systems,
- Demolition of auxiliary buildings downstream of the dam,
- Environmental protection activities.

## **2 BASIC INFORMATION ON THE EMP FOR CONTRACT 2A.2/1**

The Environmental Management Plan for Contract 2A.2/1 was developed in July 2017 (final version). On August 8, 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 DEFINED IN APPENDIX 1 TO THE EMP**

Appendix 1 of the EMP for Contract 2A.2/1 contains 137 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 in scope of environmental protection issued for the Contract (included in Appendix no. 4 of the EMP), as well as based on the procedural requirements of the World Bank and based on 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 23 thematic categories:



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

Cat.	Category Name	Item in the table
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 the quality and management of soils	7-12
E.	Requirements on handling of topsoil	13
F.	Requirements on felling of trees and bushes	14-19
G.	Requirements on protection of trees and bushes not intended for felling	20-26
H.	Requirements on securing protected natural resources	27-40
I.	Detailed requirements on works in beds of watercourses	41-59
J.	Detailed requirements on works when relocating power lines	60
K.	Detailed requirements for ensuring geological safety	61-62
L.	Requirements on recreation of the site after completion of construction works	63
M.	Requirements on rules for the use of constructed facilities	64-76
N.	Requirements on prevention of environmental pollution	77-100
O.	Requirements on waste management	101-105
P.	Requirements on health and safety protection	106-111
R.	Requirements on extraordinary threats to the environment	112-114
S.	Requirements on conservation of historic monuments	115-117
T.	Measures related to the restoration of natural environment resources	118-124
U.	Implementation of the measures specified in RDOŚ decisions permitting derogations from prohibitions on protection of species of plants and animals	125-126
V.	Requirements on verification of geodetic division used in the EMP	127
W.	Requirements on the Contractor's personnel implementing the EMP	128-134
X.	Requirements on reporting of EMP implementation	135-137

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 DEFINED IN APPENDIX 2 TO THE EMP

Appendix 2 of the EMP for Contract 2A.2/1 contains 145 monitoring measures aimed at monitoring the implementation of the mitigation measures described in Appendix 1 and at the 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 OVER THE IMPLEMENTATION OF THE MEASURES SPECIFIED IN THE EMP FOR CONTRACT 2A.2/1**

Supervision over the implementation of the mitigation measures and monitoring measures specified in the EMP for Contract 2A.2/1 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 134 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. 129 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 130, 131, 132 and 133 of Appendix 1 of the EMP, the Contractor has ensured the participation of a team of experts of environmental, archaeological, geological 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 137 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.2/1. 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 09/04/2018, and completed after the Defects Notification Period of 07/31/2025.

### **4.1 CONTRACTOR’S MEASURES**

In line with the content of Appendix 1 to the EMP for Contract 2A.2/1, the unit responsible for implementation of the mitigation measures determined in items 1-137 under Appendix 1 of the EMP is the Contractor, in items 136 and 137 under Appendix 1 of the EMP is the Engineer and Employer, whilst in items 64-76 and 118-124 is the Employer after the end of Contract execution. In total, the EMP provided for the implementation of 137 mitigation measures. In line with information submitted by the Contractor and according to the Engineer’s and Employer’s information:

- a) 137 mitigation measures were implemented within the reporting period, including:
- 109 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, 12, 13, 20, 21, 22, 23, 24, 26, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 58, 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, 108, 109, 110, 111, 112, 113, 114, 116, 117, 118, 119, 120, 121, 122, 123, 124, 126, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137 under Appendix 1 of the EMP).
  - a) implementation of 28 mitigation measures was finally completed before the date of essential completion of the works covered by the Contract (items 7, 10, 11, 14, 15, 16, 17, 18, 19, 27, 30, 31, 49, 50, 51, 52, 53, 54, 55, 56, 57, 59, 60, 80, 107, 115, 125, 127 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.

The 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. 136, 137 concerning the provision of information on the implementation of the following EMP conditions: 14, 17, 29, 72, 71, 118, 119, 120, 121, 122, 123, 124, 125, 126 to the Regional Directorate for Environmental Protection in Wrocław.

No irregularities were identified in this scope during the implementation and reporting period with respect to EMP implementation.

#### **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. 136, 137 concerning the provision of information on the implementation of the following EMP conditions: 14, 17, 29, 72, 71, 118, 119, 120, 121, 122, 123, 124, 125, 126 to the Regional Directorate for Environmental Protection in Wrocław.

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

In the operation phase, however, the Employer will be responsible for conducting maintenance works for the flood protection reservoir for items: 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 118, 119, 120, 121, 122, 123, 124 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 9 mitigation measures listed under Appendix 1 to the EMP for Contract 2A.2/1 were identified (in the order according to the item numbers under Appendix 1 to the EMP):

- **Item 13** under Appendix 1 to the EMP (fourth quarter of 2021) – *Removal, storage, and use of topsoil.*  
It was found at the above date that the Contractor contaminated one of the topsoil piles with construction waste. The Engineer provided his comments to the Contractor and requested him to remove the inconsistency. The Contractor implemented corrective actions.  
The above default had no actual impact on the environment.
- **Item 29** under Appendix 1 to the EMP (first and fourth quarter of 2019, fourth quarter of 2020) – *Marking the patches of natural habitats.*  
In the first quarter of 2019 it was found that the boundaries of the patches of nature habitats to be conserved were not visibly marked. The Engineer urged the Contractor to properly fulfil its contractual obligations as to the manner of securing the nature habitats located within the investment site. The Contractor has complied with the Engineer's comments.  
In the fourth quarter of 2019 and fourth quarter of 2020, it was found that the mesh protecting a patch of the nature habitat had been damaged, leaving a section of the habitat unprotected from interference connected with the execution of works. The Engineer requested the Contractor to repair the protection. The Contractor implemented corrective actions.  
The above defaults had no actual impact on the environment.
- **Item 33** under Appendix 1 to the EMP (third, fourth quarter of 2019, first quarter of 2020) – *Securing the Task execution area against small animals entering the site.*  
At the dates indicated, damage to the mesh protecting the construction site from the encroachment of small animals was found. The Engineer requested the Contractor to rectify the default identified. The Contractor implemented a corrective action.  
The above default had no actual impact on the environment.
- **Item 37** under Appendix 1 to the EMP (second quarter of 2022) - *Catching and transfer of small animals from the Task implementation area.*

Amphibians were found to be present on the Construction Site at the above date. The situation could threaten the life and health of the animals. The Engineer provided his comments to the Contractor and recommended amphibian trapping by an expert herpetologist. The Contractor's expert trapped the amphibian specimens and relocated them to a habitat-appropriate location outside of the impact range of the works.

The above default had no actual impact on the environment.

- **Item 38** under Appendix 1 to the EMP (third quarter of 2020, fourth quarter of 2023) – *Fighting alien invasive plant species.*

At the date indicated above, the Engineer requested the Contractor to remove the specimens of invasive plants. The Contractor implemented the measures under the supervision of the expert botanist – phytosociologist.

- **Item 63** under Appendix 1 to the EMP (first, second quarter of 2024) - *Restoration of topsoil layer and green areas and tidying up the site after completion of works.*

At the above date, it was found that the recreated green areas (lawns, compensation areas) were not being cared for correctly. The Engineer requested the Contractor to undertake maintenance works on these areas. The Contractor has complied with the Engineer's comments, and conducted activities under the supervision of relevant specialists.

The above had no actual impact on the environment.

- **Items 78 and 92** under Appendix 1 to the EMP (second, third, fourth quarter of 2019, second quarter of 2022, second quarter of 2023) – *Proceedings in the case of emission of petroleum derivatives.*

At the dates indicated above, the Engineer found places of leakage of petroleum substances to the ground. The Contractor did not take immediate actions to prevent the spread of contamination, by means of available resources (e.g. sorbents). The Engineer requested the Contractor to take immediate actions to rectify the default identified. The Contractor took the necessary actions to remove the contamination.

The above default had no actual impact on the environment.

- **Item 83** under Appendix 1 to the EMP (second quarter of 2022) – *Parking place for machines and vehicles after finishing work*

At the above date, the Contractor was found to be parking vehicles in areas not prepared for this purpose. The Engineer provided his comments to the Contractor and requested that corrective measures be implemented (parking of equipment at the construction site facilities). The default had no actual impact on the environment.

- **Item 102** under Appendix 1 to the EMP (second quarter of 2021, second quarter of 2023) – *Rules for handling hazardous waste.*

At the above date, numerous construction and household wastes were found on the Construction Site. The Engineer requested the Contractor to clean up the Construction Site immediately. The Contractor implemented cleaning actions.

The above default 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.2/1, the units responsible for implementation of the monitoring measures specified in items 1-128 and 130-145 under Appendix 2 of the EMP is the Contractor, in items 1-137 and 145 under Appendix 2 of the EMP is the Engineer, and in items 139-144 under Appendix 2 of the EMP is the Employer. In total, the EMP envisaged the implementation of 145 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.

The Employer implemented 144 (99%) monitoring measures within the reporting period, including:

- 144 (100%) measures were implemented in the scope required within the reporting period (items no. 1-128 and 130-145 under Appendix 2 to the EMP).
- for any of the measures, no problems and/or irregularities were identified in their implementation.

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/Consultant implemented 138 (95%) monitoring measures within the reporting period, including:

- 138 (100%) measures were implemented in the scope required within the reporting period (items no. 1-137 and 145 under Appendix 2 to the EMP);
- for any of the measures, no problems and/or irregularities were identified in their implementation.

The 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 6 (4%) monitoring measures within the reporting period, including:

- 6 (100%) measures were implemented in the scope required within the reporting period (items no. 139, 140, 141, 142, 143, 144 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 139 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.2/1.



## **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.2/1, and, notably, implemented the particular measures determined in the Environmental Management Plan within the scope attributable to the Contractor.

### **6.2 ENGINEER’S MEASURES**

Within the reporting period, the Engineer supervised the works conducted under Contract 2A.2/1 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.2/1, 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, an employee who was employed as a carpenter died at the Construction Site on October 13, 2020. The employee left the workstation and went to the toilet. After a long period of time, his co-workers started looking for him and he was found in the toilet. After opening the toilet, he was found to be giving no signs of life. The ambulance service and the Police were immediately called. The doctor pronounced the employee dead and the Public Prosecutor arrived at the construction site. The employee had up-to-date medical examinations and was working in a position consistent with the scope of his medical examination. He also received training in health and safety related to his job, protection from hazards, handling accidents and risks. The Site Manager reported that the Police, after conducting an external examination of the body, found no third party involvement and no external injuries indicating death from external causes. The case was dealt with by the District Prosecutor's Office in Kłodzko, who announced that a decision had been made to discontinue the proceedings in the case of accidental manslaughter on October 13, 2020 at the Szalejów reservoir.

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

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

**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.2/1 – Construction of “Szalejów Górny” – a dry flood control reservoir on Bystrzyca Dusznicka River* 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.2/1 (i.e. of April 16, 2018);
- completion of works considered to be essential works, resulting from the Time for Completion (i.e. until October 30, 2023);
- Defects Notification Period (i.e. until July 31, 2025).

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 137 mitigation measures specified in the EMP, was monitoring 144 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.2/1 and, inter alia, was implementing the particular measures determined in the Environmental Management Plan within the scope attributable to the Engineer. The Engineer was monitoring the implementation status of 137 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.2/1 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:

- 137 of 137 mitigation measures specified in Appendix 1 of the EMP were implemented, of which:
  - for 128 mitigation measures listed in Appendix 1 to the EMP, executed in the reporting period, no recurring problems in their implementation were identified,
  - for 9 mitigation measures executed in the reporting period, listed in Appendix 1 to the EMP, no recurring problems in their implementation were identified,
- 144 of 145 monitoring measures under Appendix 2 to the EMP were put into life.

## **8 LIST OF APPENDICES**

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

Appendix 2 – Photographic documentation for Contract 2A.2/1.