

FINAL REPORT

ON IMPLEMENTATION OF MEASURES SPECIFIED IN THE ENVIRONMENTAL MANAGEMENT PLAN

FOR 2A.1/2 CONTRACT

Odra-Vistula Flood Management Project

Sub-component	<i>2.A: Active protection</i>
Contract Task	<i>2A.1/2 - Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream</i>
Employer / Project Implementation Unit	<i>Państwowe Gospodarstwo Wodne Wody Polskie [State Water Holding Polish Waters] Regionalny Zarząd Gospodarki Wodnej we Wrocławiu [Regional Water Management Authority in Wrocław]</i>
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TABLE OF CONTENTS

1.	INTRODUCTION.....	4
2.	BASIC INFORMATION ON 2A.1/2 CONTRACT.....	4
3.	MINIGATING AND MONITORING MEASURES LISTED IN THE EMP FOR THE CONTRACT	6
3.1.	TERMS AND CONDITIONS LISTED IN APPENDIX 1 OF THE EMP.....	6
3.2.	TERMS AND CONDITIONS LISTED IN APPENDIX 2 OF THE EMP.....	7
4.	SUPERVISION SYSTEM OVER IMPLEMENTATION OF THE MEASURES LISTED IN THE EMP FOR 2A.1/2 CONTRACT.....	8
4.1.	CONTRACTOR.....	8
4.2.	ENGINEER.....	8
4.3.	PROJECT IMPLEMENTATION UNIT (PIU).....	9
4.4.	PROJECT COORDINATION UNIT (PIU).....	9
5.	EXECUTION PROGRESS OF THE MITIGATING MEASURES FROM APPENDIX 1 TO THE EMP	9
5.1.	MEASURES UNDERTAKEN BY THE CONTRACTOR.....	9
5.2.	MEASURES UNDERTAKEN BY THE ENGINEER.....	10
5.3.	MEASURES UNDERTAKEN BY THE EMPLOYER.....	10
5.4.	PROBLEMS RELATED TO IMPLEMENTATION OF MITIGATING MEASURES FROM APPENDIX 1 TO THE EMP.....	10
6.	EXECUTION PROGRESS OF THE MONITORING MEASURES FROM APPENDIX 2 TO THE EMP..	13
6.1.	MEASURES UNDERTAKEN BY THE CONTRACTOR.....	13
6.2.	MEASURES UNDERTAKEN BY THE ENGINEER.....	13
6.3.	MEASURES UNDERTAKEN BY THE EMPLOYER.....	14
6.4.	PROBLEMS RELATED TO IMPLEMENTATION OF MONITORING MEASURES FROM APPENDIX 2 TO THE EMP.....	14
7.	OTHER ACTIVITIES AND EVENTS CONCERNING THE ENVIRONMENT, LOCAL COMMUNITY, HEALTH AND SAFETY.....	14
7.1.	EXCEPTIONAL EVENTS, HAZARDS AND CATASTROPHES.....	14
7.2.	ACCIDENTS.....	15
7.3.	ENSURING WORKING CONDITIONS.....	15
7.4.	PREVENTING SEXUAL HARASSMENT AND MOBBING.....	15
8.	SUMMARY.....	15
9.	SOURCE MATERIALS.....	17
10.	LIST OF APPENDICES.....	17

1. INTRODUCTION

The final Report describes implementation of the measures listed in the Environmental Management Plan (EMP) for the Contract: *2A.1/2 - Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream.*

The Report presents the actions and events in the construction site area, concerning ESHS issues (environmental, social, health and safety), that occurred in the reporting period during the implementation of the Contract for works,

- implementation of **mitigation** measures mentioned in the Appendix 1 EMP performed by the Contractor; detailed list of measures is included as the Appendix no. 1 to the Report (Check list for implementation of measures is included as the Appendix 1 to the Report (Check list for implementation of the measures mentioned in the Appendix 1 to EMP);
- the implementation situation of **monitoring** measures specified in the Appendix 2 to EMP performed by the Contractor and the Engineer; detailed list of measures is included, as the Appendix no. 1 to EMP Final Report (Check list(s) for implementation of the measures mentioned in the Appendix 2 EMP);
- summary

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

The Works Contract *2A.1/2 Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream in Roztoki Bystrzyckie* was implemented under the Odra-Vistula Flood Management Project (OVFMP) as a part of Component 2: Flood protection for the Kłodzka Valley, Subcomponent: 2A Active protection. The key dates for 2A.1/2 Contract are presented below.

Table 1 Key dates for 2A.1/2 Contract.

Activity	Date
Contract conclusion with the Contractor	4.12.2017
Construction Site handover	1.08.2018
Construction Works - instruction to commence	25.01.2018
Issue of the Taking-Over Certificate	24.08.2021
Issue of the Performance Certificate	21.09.2022

When implementing the mitigating and monitoring activities it turned out necessary to implement changes in the EMP, in the form of relevant annexes:

- EMP Annexe on changing the RDEP's environmental approval dated 18.12.2015 - it received the WB's "*No objection*" on 19.05.2020.
During the Contract execution period, due to earth mass management way at the Construction Site, it turned out necessary to change location for some of the he riparian and oak-hornbeam forest plantings. The change meant adding two additional record plots which, along with the areas specified in the RDEP's decision of December 18th 2015 (file No. WOOŚ.4233.1.2015.AW.23) were intended for compensatory plantings. Adding the extra plots was related to changing the aforesaid RDEP's decision. Considering that, it also turned out necessary to introduce changed DŚU [decision on environmental conditions] provisions by preparing an EMP Annexe that gave new wording for item 99 of Appendix No. 1 and Appendix No. 2 to the EMP;
- The EMP Annexe on traffic closure of the 3233D county road - it received the WB' s "*No objection*" on 25.08.2020.
Due to renovation of 3233D county road section its temporary closure was necessary. During works execution along the road section it was impossible to maintain a road connection between Roztoki and Gajnik. In order to perform the aforementioned works, the terms and conditions of item 3, 17 and 20 of Appendix No. 1 and 2 to the EMP were modified by the EMP Annexe;
- The EMP Annexe on prolonging the expiry date of the RDEP's derogation decision received the WB' s "*No objection*" on 28.01.2021.
Owing to the construction works completion date under 2A.1/2 Contract it was necessary to extend the expiry date of the RDEP's decision dated 13.01.2016 (file No. WPN.6401.271.2015.BP.2) on issuing the permit for deviations from the bans applicable in relation to the protected wild flora and fauna species. Considering the aforementioned, in order to implement the provisions of the RDEP's decision, the EMP Annexe was prepared. The document changed wording of the terms and conditions from item 104 and 115 in Appendix No. 1 and 2 to the EMP.

Material scope:

2A.1/2 Contract was about constructing a flood control reservoir the basic elements of which were:

- Earth fill dam along with headwater (forefield of the dam) and tailwater,
- Discharge structures (drain and overflow equipment),
- Training the Goworówka stream bed within the tailwater and headwater area,
- Reservoir basin,
- Service roads (internal ones),
- Control and measurement devices of the facility, including Automatic System of Technical Dam Control,
- Site facilities building,
- Installations of technical infrastructure,
- Relocation of the 3233D county road colliding with the reservoir dam.

3. MINIGATING AND MONITORING MEASURES LISTED IN THE EMP FOR THE CONTRACT

The Environmental Management Plan for 2A.1/2 Contract was prepared in September 2016 (the final version). On 6.12.2016 the World Bank issued “No objection” approving the Environmental Management Plan, which became an integral element of the bidding documents, and then the Contract for construction works. The EMP was respected by the works Contractor, in accordance with documents priority applicable under the Contract. The document systematises the measures undertaken under the Contract thus obliging all the entities taking part in the Contract execution to follow and obey the provisions included therein. A detailed description of the Contract execution terms regarding environmental management is prepared as appendices to the EMP - Activities 1, containing the *Mitigating Measures Plan* and Appendix 2 containing the *Monitoring Measures Plan*.

3.1. TERMS AND CONDITIONS LISTED IN APPENDIX 1 OF THE EMP

Appendix 1 to the EMP for 2A.1/1 Contract includes 115 measures meant to prevent and restrict adverse impacts of the investment project on the environment. The measures have been prepared based on the terms and conditions included in the applicable administrative decisions regarding environmental protection, issued for the Contract (presented in Appendix No, 4 EMP), as well as procedural requirements of the World Bank and additional terms specified during the EMP preparatory works. The mitigating activities table of Appendix 1 to the EMP describes particular measures and specifies their implementation locations, as well as the entities in charge of their implementation. The mitigating measures listed in Appendix 1 to the EMP are divided into 24 thematic categories:

Table 2 Thematic categories of the measures determined in App. 1 EMP for 2A.1/2 Contract.

Category	Category name	Item in the EMP check-list
A.	Requirements on the works execution programme	1-3
B.	Requirements on communication service for the <i>Task implementation area</i>	4
C.	Requirements concerning location of site facilities as well as technological roads and yards	5-7
D.	Requirements on soils quality and management	8-10
E.	Requirements on proceeding with a topsoil layer	11-12
F.	Requirements on felling of trees and shrubs	13-17
G.	Requirements on securing the trees and shrubs not intended for felling	18-23
H.	Requirements on protecting the natural resources	24-34
I.	Detailed requirements on works quality in the watercourse channels	35-53
J.	Detailed requirements on works execution in the alluvial forest in the fork of Goworówka, Cieszycza and Bielica	54
K.	Detailed requirements on the works involving reconstruction of 3233D county road	55-59
L.	Detailed requirements on the target lighting of the reservoir area	60
M.	Requirements on land reclamation after the construction completion period	61-62
N.	Requirements on preventing environmental pollution	63-81
O.	Requirements on waste management	82-86
P.	Requirements on human health and safety	87-92
R.	Requirements on extraordinary environmental risks	93-95
S.	Requirements on protecting the cultural heritage objects	96-98
T.	Measures on restoring the natural environment resources listed in the environmental approval for the reservoir construction	99-102
U.	Measures on restoring the natural environment resources listed in the RDEP's decision for 3233D county road construction	103
V.	Implementation of the measures listed in the RDOŚ decision permitting derogation from plant and animal species protection prohibitions	104
W.	Requirements on verification of the geodetic division applied in the EMP	105
X.	Requirements on the Contractor's Personnel involved in the EMP implementation	106-111
Y.	Requirements on reporting on EMP implementation	112-115

The text of particular mitigating activities from Appendix 1 to the EMP is provided in the Check-list constituting Appendix No. 1 to this Report.

3.2. TERMS AND CONDITIONS LISTED IN APPENDIX 2 OF THE EMP

Appendix 2 EMP for 2A.1/2 Contract includes a set of 122 monitoring measures meant to monitor implementation of the mitigating activities described in Appendix No. 1 and implementation of the requirements related to environmental monitoring specified in the environmental approval. The tabular list of the monitoring measures is presented in Appendix 2 to the EMP. The monitoring

measures table also lists the monitoring location, manner, period and frequency, as well as the entities in charge of its implementation.

4. SUPERVISION SYSTEM OVER IMPLEMENTATION OF THE MEASURES LISTED IN THE EMP FOR 2A.1/2 CONTRACT

Implementation of the mitigating and monitoring measures defined in the EMP for 2A.1/2 Contract. was supervised at the level of all organizational units taking part in the Contract execution, i.e. the Works Contractor, the Engineer, the Project Coordination Unit (PIU) and the Project Coordination Unit (PCU). During the Contract execution period all the organizational units listed above took part in the working meetings on regular bases, once a month. The meetings were devoted to discussing and controlling the mitigating and monitoring measures defined in the EMP (item 111 of Appendix No. 1 and Appendix No. 2 to the EMP) and post-meeting protocols were prepared. Information on the operational scope of individual units is presented below.

4.1.CONTRACTOR

The person directly in charge of implementing the measures listed in the EMP, on the side of the construction works Contractor, was the Site Manager. In order to ensure support for the Site Manager in EMP implementation, an EMP Coordinator and a Team of environmental experts were appointed in the Contractor's Team. The team of environmental experts included representatives of the following field of expertise: a botanist - phytosociologist, botanist - bryologist, dendrologist, zoologist expert in the field of invertebrate, zoologist ichthyologist, zoologist herpetologist, zoologist ornithologist, zoologist chiropterologist, zoologist teriologist. The experts were involved in implementation of the selected mitigating and monitoring activities defined in the EMP. The EMP Coordinator supervised implementation of particular EMP conditions, monitored the implementation stage of particular conditions from appendix 1 and 2 EMP, cooperated with the Coordinator's Team (including the team of environmental experts, team of archaeologists and UXO supervision team) in order to ensure EMP implementation, cooperated with the Engineer's Team in charge of EMP implementation under the Contract. Moreover, pursuant to item 109 and 110 in Appendix 1 of the EMP, the Contractor ensured participation of the archaeologist and UXO supervision experts within the scope compliant with the EMP requirements. After each month the Contractor provided a report on implementation of the activities specified in the EMP and a check-list that described the current implementation stage of particular EMP conditions in the given month. The list was forwarded to the environmental management expert/specialist in the Engineer's Team, along with relevant appendices (including applications, opinions/reports from the environmental supervision, etc.).

4.2.ENGINEER

EMP implementation from the Engineer's side was directly supervised by an environmental management specialist/expert cooperating with the Resident Engineer, supervision inspectors and other members of the Engineer's Team providing owner's supervision on the investment. The environmental management expert/specialist stayed in regular touch with the Coordinator's EMP Coordinator determining the scope of the conditions that had to be met at a given works stage, supervising implementation stage of particular EMP conditions, participating in problems solving and inspecting the Construction Site. After the end of each reporting period (month and quarter), the environmental management expert/specialist verified the Contractor's environmental documentation and prepared individual reports forwarded to the Project Implementation Unit.

4.3. PROJECT IMPLEMENTATION UNIT (PIU)

Direct supervision on EMP implementation, from the PIU's side, was provided by the Environmental Specialist. The PIU specialist stayed in direct touch with the environmental management specialist in the Engineer's Team by supervising the implementation stage of particular EMP conditions and being involved in current problems solving. After the end of each reporting period (month ad quarter) the Environmental Specialist verified the current environmental documentation (incl. reporting to the RDEP in Wrocław) of the Contract. The quarterly reports on EMP implementation for a give reporting period were forwarded by the PIU in Wrocław to the Project Coordination Unit.

4.4. PROJECT COORDINATION UNIT (PIU)

Direct supervision on EMP implementation, from the side of the Project Coordination Unit, was provided by the Environmental Management Expert cooperating with other members of the PCU. The Expert stayed in contact touch with the Environmental Specialist in the PIU's team. After the end of each reporting period (quarter) the expert verified the environmental documentation provided by the PIU and prepared some content of the PCU reports being then forwarded to the World Bank.

5. EXECUTION PROGRESS OF THE MITIGATING MEASURES FROM APPENDIX 1 TO THE EMP

This chapter described the implementation progress of 115 mitigating activities meant to prevent and restrict adverse impacts of the investment project on the environmental resources listed in Appendix 1 to the EMP for 2A.1/1 Contract. Information on the measures implementation is also provided in the *Check-list* constituting *Appendix No. 1* to this report. Implementation of the measures listed in the EMP began on the date when the Construction Works instruction was issued - 25.01.2018, and it was completed on the day of signing the final works acceptance protocol - on 21.09.2022.

5.1. MEASURES UNDERTAKEN BY THE CONTRACTOR

In accordance with Appendix 1 EMP for the 2A.1/2 Contract, the Contractor is responsible for implementation of the mitigating measures specified in the item 1-115 of Appendix 1 to EMP, while in the case of item 111 of the Appendix the Engineer and the Employer are also responsible for that. In total implementation of 115 mitigating activities is provided for in the EMP. Pursuant to the information provided by the Contractor, as well as information from the Engineer and the Employer:

a) 115 mitigating measures were being implemented in the reporting period, including:

- until the fundamental works completion under the Contract, 88 mitigating activities were implemented (item 1, 2, 3, 4, 5, 6, 7, 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, 51, 52, 53, 60, 61, 62,63, 64, 65,66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 103, 104, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115 in Appendix 1 to the EMP).

a) implementation of 27 mitigating activities was finally completed before the fundamental works completion date covered by the Contract (item 8, 12, 13, 14, 15, 16, 17, 25, 28, 43, 44, 45, 46, 47, 48, 49, 50, 54, 55, 56, 57, 58, 59, 82,101, 102, 105 in Appendix 1 to the EMP).

The mitigation measures were implemented by the Contractor with the participation specialists from the Contractor's team of environmental experts. In the reporting period the team was composed of the following individuals: herpetologist, ornithologist, chiropterologist (was also the EMP coordinator), entomologist, phytosociologist, dendrologist, bryologist, ichthyologist, teriologist. The Contractor's resources also included: UXO supervision and archaeologist supervision.

The mitigating activities were agreed upon/approved (if the Contract Conditions and/or EMP conditions require so) and supervised by the Engineer, in the presence of an environmental management expert and the Resident Engineer.

5.2. MEASURES UNDERTAKEN BY THE ENGINEER

Pursuant to the information presented in the monthly and quarterly reports on implementing the EMP measures, in the reporting period the Engineer implemented 3 (3%) of mitigating activities, with co-participation of the Contractor and the Employer - item 113, 114, 115 related to providing information on implementing the following EMP conditions: 14, 26, 30, 31,36,54, 61, 32, 99-102, 104 to the Regional Directorate for Environmental Protection in Wrocław.

No irregularities were observed in the reporting period.

5.3. MEASURES UNDERTAKEN BY THE EMPLOYER

Pursuant to the information presented in the monthly and quarterly reports on implementing the EMP measures, in the reporting period the Employer implemented 3 (3%) of mitigating activities [with co-participation of the Contractor and the Engineer - item 113, 114, 115] related to providing information on implementing the following EMP conditions: 14, 26, 30, 31,36,54, 61, 32, 99-102, 104 to the Regional Directorate for Environmental Protection in Wrocław.

No irregularities were observed in the reporting period.

Meanwhile, during the operation stage, the Employer will be responsible for running maintenance works of the flood control reservoir - this pertains to the EMP item 99, 100, 103.

5.4. PROBLEMS RELATED TO IMPLEMENTATION OF MITIGATING MEASURES FROM APPENDIX 1 TO THE EMP

Pursuant to the information provided by the Contractor, as well as information from the Engineer and the Employer,

- a) in the case of 95 mitigating activities listed in Appendix 1 to the EMP and implemented in the reporting period no recurring problems related to their implementation were observed (item 1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20, 21, 24, 25, 27, 28, 29, 31,33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, , 62, 63, 64, 65, 68, 69, 71, 72, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, , 88, 89, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115, in Appendix 1 to the EMP). The measures were implemented by the Contractor and supervised by the Engineer. The Engineer's recommendations regarding their implementation were complied with on regular bases.
- b) in the case of 20 mitigating activities implemented in the reporting period (item 4, 11, 18, 22, 23, 26, 30, 32, 38, 39, 61, 66, 67, 70, 73, 74, 81, 87, 90,106 in Appendix to the EMP) periodically recurring problems with their implementation were noticed:

In the Contract execution period irregularities/negligences were noticed when it comes to failing to meet the conditions listed in App. 1 of the EMP by the Contractor. Particular items from App. 1 EMP are listed below - these are the ones in the case of which irregularities/negligences were observed by the Contract Engineer:

- **pos. 4** implementation irregularities were noticed in January 2019. Following the Construction Site inspection, the Engineer observed intensified traffic of the vehicles delivering material to

the Construction Site, which caused difficulties in taking advantage of the road by other users and caused potentially unsafe situation for other vehicles, as well as pedestrians moving along the county road section between Roztoki and Gajnik. The Engineer called the Contractor to implement adequate safety procedures and control the traffic along the road section within the Construction Site and, alternatively, install additional road signalling informing about construction-related difficulties. The event had no impact on the Contract and natural environment.

- **pos. 11** in May 2018, June 2019, August 2019, February 2020 the Contract Engineer noticed negligences within the following scope: mapping the topsoil storage location; topsoil contamination with excavation soil; missing marking of topsoil piles from the place where protected fauna and flora species are present; topsoil destruction by travelling and missing topsoil protection. In each of the cases the Engineer called the Contractor to promptly eliminate the observed negligence and present a report on the implemented corrective actions. The event had no impact on the Contract and natural environment.
- **pos. 18** in April and February 2018, November 2018, April and November 2019 the Contract Engineer noticed missing protections of trees and shrubs in the neighbourhood of the construction works and observed destroyed protections of the trees planned to remain in the Construction Site. In each of the cases the Engineer called the Contractor to secure that/fix the protection of the trees planned to be left in the Construction Site. The event had no impact on the Contract and natural environment.
- **pos. 22** in April 2020 unearthing and roots damage of the tree growing in the neighbourhood of the performed works involving construction of the ford No. 2 was noticed. The Engineer called the Contractor to promptly eliminate the observed negligences and protect the damaged tree roots. The event had no impact on the Contract and natural environment.
- **pos. 23** in April 2020 and March 2021 damaged roots of the trees growing along the D5 internal road were noticed. The Engineer called the Contractor to promptly eliminate the observed negligences and present a report on the implemented corrective actions. The event had no impact on the Contract and natural environment.
- **pos. 26** in May and April 2018 the Contract Engineer called the Contractor to undertake steps related to providing effective protections for the natural habitats patches planned to remain in the investment area.
Moreover, in March, April and November 2019 damages in the already made protection of natural habitats patches were noticed. The event had no impact on the Contract and natural environment.
- **pos. 27** in November 2019 the Engineer called the Contractor to improve and control the boundary markings on the banks of Nowinka, the ones that were to remain (due to constructing the new bridge). The event had no impact on the Contract and natural environment.
- **pos. 30** in the period 08.2018 - 9.2018, as well as in June and July 2019 the condition related to protecting the excavation against trespassing by small animals was not implemented. The Engineer called the Contractor to provide the protections in a way conforming the EMP conditions. Meanwhile, in November and December 2018 the Engineer observed that the protection against trespassing by small animals had been damaged. The Engineer called the

Contractor to implement corrective actions. The event had no impact on the Contract and natural environment.

- **pos. 32** in the period May - June 2019 and January 2020 intensified growth of reynoutria plants was observed. The Engineer called the Contractor to implement measures compliant with the EMP conditions. The Contractor eliminated the invasive plant. The event had no impact on the Contract and natural environment.
- **item pos. 38** in November 2018, October 2019 and January 2020 hindered migration of water organism was observed, due to incorrect (too high) foundation of the ford crossing made from road slabs. The Engineer called the Contractor, in writing, to implement corrective actions, one by one, until the end of November 2018 and until the end of October 2019. The event had no impact on the Contract and natural environment.
- **pos. 61** in May 2019 the measure was not implemented. It was stated that the Contractor had not undertaken the measures related to restoring the topsoil layer and restoring the greenery areas in the soonest possible period enabling their implementation. The Engineer mentioned the necessity of implementing the activities related to restoration of the greenery areas in the DN200 gas main relocation area. The event had no impact on the Contract and natural environment.
- **pos. 66** the measure was not implemented in January and March 2019 and in October 2019. The Contractor kept travelling through Nowinka stream with a digger, in the location not intended for that. Having observed the irregularities, the Engineer called the Contractor to implement corrective actions and refrain from this kind of irregularities. The event had no impact on the Contract and natural environment.
- **pos. 67** in August 2019 it was noticed that the vehicles operated at the Construction Site had been parked in the area not intended for the purpose. The vehicles and machines should be garaged in the intended area and the soil should be covered with impervious insulating materials preventing possible contaminations penetrating into the soil. The event had no impact on the Contract and natural environment.
- **pos. 70** measure not implemented in November 2018. The Contractor specified a vehicles fuelling spot in the location not prepared for that purpose (missing protection petroleum-derivative substances penetrating the soil). The Engineer's remarks were addressed to the Contractor with a request to implement corrective actions in accordance with the EMP conditions. The event had no impact on the Contract and natural environment.
- **pos. 74** in January 2019, July 2019 and January 2020 leakage of petroleum-derivative substances was noticed under one of the vehicles. The Engineer called the Contractor to promptly eliminate the observed negligences and present a report on the implemented corrective actions. The event had no impact on the Contract and natural environment.
- **pos. 81** irregularities were observed in January 2019 - the 3233D county road pavement in the Construction Site area was contaminated. The Engineer called the Contractor to implement corrective actions in order to prevent similar situations in the future. The event had no impact on the Contract and natural environment.
- **pos. 87** in June and July 2019, March 2019 - measure not implemented. The Engineer noticed presence of unmanaged waste that constituted a health and safety hazard for the employees

and the Contractor's Personnel. That pertained to the Contractor's back-up facilities at the 3233D county road, as well as other locations within the Construction Site area. The Engineer called the Contractor to promptly eliminate the observed irregularities. The event had no impact on the Contract and natural environment.

- **pos. 90** in January 2019 the measure was not implemented. The Engineer stated that deep excavations were not protected and, in March 2019, damages were observed on the barriers protecting deep excavations, what constituted a hazard for the people working at the construction site. The Engineer called the Contractor to promptly eliminate the observed irregularities. The event had no impact on the Contract and natural environment.

6. EXECUTION PROGRESS OF THE MONITORING MEASURES FROM APPENDIX 2 TO THE EMP

In accordance with the content of the Appendix 2 EMP for 2 EMP for 2A.1/2 Contract, the entities responsible for implementation of 122 monitoring measures listed in item 1-106 and 108-122 in Appendix 2 EMP is the Contractor, while in item 1-122 in Appendix 2 to the EMP it is the Engineer and, in item 116-121 of Appendix 2 to the EMP it is the Employer. In total the EMP provided for implementation of 122 monitoring measures and, out of that, all of them should have been implemented in the reporting period.

6.1. MEASURES UNDERTAKEN BY THE CONTRACTOR

In the reporting period the Contractor carried out monitoring measures on implementing mitigating activities, as described in Appendix 2 to EMP. Monitoring was provided by:

- verification of the requirements listed in the EMP for the current works stage;
 - verification of the Contractor's documents concerning implementation of the EMP conditions;
 - current inspection of the works area; measures listed in Appendix 2 to the EMP and
 - current agreements with representatives of the Engineer and the Employer.
- a) In the reporting period the Contractor implemented 121 (100%) monitoring measures, including:
- 121 (100%) of the measures were implemented within the scope required in the reporting period (item 1-106 and 108-122 in the EMP Appendix 2);
 - in no case problems and/or irregularities related to their implementation were observed.
- b) In the reporting period there was no case of missing monitoring measures assigned to the Contractor.

The monitoring measures were performed by the Contractor with the participation of experts from the Contractor's environmental team.

6.2. MEASURES UNDERTAKEN BY THE ENGINEER

In the reporting period the Engineer carried out monitoring measures on implementing mitigating activities, as described in Appendix 2 to EMP. Monitoring was provided by:

- verification of the requirements listed in the EMP for the current works stage;
- verification of the Contractor's and the Employer's documents concerning implementation of the EMP conditions;
- current inspection in the works area;
- measures listed in Appendix 2 to EMP;
- current agreements with representatives of the Contractor and the Employer.

In the current reporting period the Engineer implemented 122 (100%) monitoring measures, including:

- 122 (100%) of the measures were implemented within the scope required in the reporting period (item and 1-122 in the EMP Appendix 2);
- in no case problems and/or irregularities related to their implementation were observed.

In the reporting period there was no case of missing monitoring measures assigned to the Engineer.

The monitoring measures were implemented by the Engineer with the participation of experts from the environmental team, including experts/specialists on environmental management, inspectors and the Resident Engineer.

6.3. MEASURES UNDERTAKEN BY THE EMPLOYER

In the reporting period the Employer carried out monitoring measures on implementing mitigating activities, as described in Appendix 2 to EMP. Monitoring was provided by:

- verification of the requirements listed in the EMP for the current works stage;
- verification of the Contractor's and the Engineer's documents concerning implementation of the EMP conditions;
- current inspection in the works area;
- measures listed in Appendix 2 to EMP;
- current agreements with representatives of the Contractor and the Engineer.

In the reporting period the Employer implemented 6 (5%) monitoring measures, including:

- 6 (5%) of the measures were implemented within the scope required in the reporting period (item and 116-121 in the EMP Appendix 2);
- in no case problems and/or irregularities related to their implementation were observed.

In the reporting period there was no case of missing monitoring measures assigned to the Employer.

Moreover, in the reporting period the Employer provided supervision over implementing 122 monitoring measures which, pursuant to Appendix 2 EMO, were assigned to the Contractor and the Engineer.

The monitoring and supervising measures within the scope concerning EMP were implemented by the Employer with the participation of a specialist for technical and environmental issues at the PIU.

6.4. PROBLEMS RELATED TO IMPLEMENTATION OF MONITORING MEASURES FROM APPENDIX 2 TO THE EMP

In accordance with information presented in the monthly reports on implementing the EMP measures, no problems with implementation of monitoring activities mentioned in Appendix 2 EMP of the 2A.1/2 Contract. were observed.

7. OTHER ACTIVITIES AND EVENTS CONCERNING THE ENVIRONMENT, LOCAL COMMUNITY, HEALTH AND SAFETY

In the reporting period the Contractor kept performing preparatory works and construction works under 2A.1/2 Contract and kept implementing particular measures defined in the Environmental Management Plan within the scope assigned to the Contractor.

7.1. EXCEPTIONAL EVENTS, HAZARDS AND CATASTROPHES

During the Contract execution period, in March 2020, the state of epidemic threat due to SARS-CoV-2 virus triggering COVID-19 illness was announced in the territory of the entire country. Due to the threat

of coronavirus spread, the Contractor implemented prophylactic measures meant to prevent the virus spread.

Measures related to the virus spread prevention involving the necessity of monitoring the illness cases and, if present, undertaking suitable steps, were also implemented. The activities were also carried out by the Contract Engineer and the Employer.

7.2. ACCIDENTS

No events involving accidents, including the ones involving the personnel of the Contractor, the Engineer and the Employer took place.

7.3. ENSURING WORKING CONDITIONS

In the reporting period the Contractor guaranteed relevant working conditions, in accordance with applicable regulations of the Polish labour law.

Under the monitoring measures the Engineer did not receive any reports or notice any irregularities within the scope.

7.4. PREVENTING SEXUAL HARASSMENT AND MOBBING

In the reporting period there were no events related to sexual harassment or mobbing cases. The Engineer did not receive any reports or notice irregularities within the scope.

8. SUMMARY

The report presents a report on the measures listed in the Environmental Management Plan (EMP) for the investment project: *2A.1/2 - Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Gowarówka stream* under the Odra-Vistula Flood Management Project (OVFMP).

The report covers implementation of the measures defined in the Environmental Management Plan carried out during the key dates of Contract execution.

- instruction to commence Construction Works under 2A.1/2 Contract (i.e. from 25.01.2018);
- completion of the works perceived as fundamental, resulting from the Time for Completion (i.e. until 24.08.2021);
- Defects Notification Period, i.e. 365 days after issuing the Taking-Over Certificate (i.e. until 21.09.2022).

In the reporting period the Contractor performed construction works covered by the Contract scope (see: description in chapter 1), kept implementing 115 mitigating activities listed in the EMP, kept monitoring 122 items resulting from the EMP and took part in other events related to the environment, local community, health and safety.

In the reporting period the Engineer provided supervision over construction works under 2A.1/2 Contract and kept implementing particular measures defined in the Environmental Management Plan within the scope assigned to the Engineer. 122 mitigating activities listed in the EMP were monitored and the Engineer took part in other activities related to the environment, local community, health and safety.

In the reporting period the Employer carried out the assigned activities related to 2A.1/2 Contract execution, including implementation of particular measures defined in the Environmental Management Plan within the scope assigned to the Employer, kept monitoring implementation of the mitigating activities listed in the EMP were monitored and took part in other activities related to the environment, local community, health and safety.

As a result of the monitoring measures carried out by the Contractor, the Engineer and the Employer, it was stated that, during the reporting period:

- 115 out of 115 mitigating activities listed in Appendix 1 to the EMP were implemented, out of which:
 - in the case of 95 mitigating activities listed in Appendix 1 to the EMP and implemented in the reporting period no recurring problems related to their implementation were observed,
 - in the case of 20 mitigating activities implemented during the reporting period and listed in Appendix 1 to the EMP periodically recurring implementation problems were observed,
- 122 out of 122 monitoring activities listed in Appendix 2 to the EMP were implemented.

9. SOURCE MATERIALS

- Decision of the Regional Director for Environmental Protection in Wrocław of 18.12.2015, file No.: WOOŚ.4233.1.2015.AW.23 on environmental conditions for the investment project titled: *Construction of dry flood control reservoir - Roztoki Bystrzyckie” on Goworówka Stream, near Roztoki, Miedzylesie Borough, Lower Silesia Province,*
- Decision of the Regional Director for Environmental Protection in Wrocław of 13.01.2016, file No.: WPN.6401.271.2015.BP.2 on issuing the permit for deviations from the bans applicable in relation to the protected wild flora and fauna species,
- Decision of the Regional Director for Environmental Protection in Wrocław of 23.11.2020, file No.: WPN.6401.326.2020.MH on issuing the permit for deviations from the bans applicable in relation to the protected wild flora and fauna species,
- Decision of the Regional Director for Environmental Protection in Wrocław of 31.03.2020, file No.: WOOŚ.420.135.2019.TP.13 change of the decision of the Regional Director for Environmental Protection dated 18.12.2015 determining the environmental conditions for the investment project titled: *Construction of dry flood control reservoir - Roztoki Bystrzyckie” on Goworówka Stream, near Roztoki, Miedzylesie Borough, Lower Silesia Province,*
- Environmental Management Plan for 2A.1/2 Contract,
- Monthly and quarterly reports from the Contract Engineer on implementing the Environmental Management Plan concerning following months and quarters of 2A.1/2 Contract,
- Contractor's monthly reports on implementing the Environmental Management Plan,
- Opinions and reports from the Contractor's Environmental Supervision.
- Minutes of the meetings related to implementing the Environmental Management Plan.

10. LIST OF APPENDICES

Appendix 1 – Check-list on implementing the measures listed in Appendix 1 and 2 EMP for 2A.1/2 Contract.

Appendix 2 - Photo documentation.