

CHECK LIST FOR IMPLEMENTATION OF MEASURES
LISTED IN APPENDIX 1 AND 2
TO THE ENVIRONMENTAL MANAGEMENT PLAN

Appendix no. 1

to the Final Report on implementation of measures determined in EMP
for the Contract 3A.1 – Works Contract 3A.1/2

Odra-Vistula Flood Management Project

OVFMP Subcomponent	3A Flood Protection of Upper Vistula Towns and Cracow
Works Contract Task	3A.1/2 Modernization of Vistula embankments in Cracow – Section 3
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
Project Implementation Office (PIO)	Project Implementation Office in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
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This document – forming **Appendix no. 1** to the *Final Report on implementation of measures determined in the Environmental Management Plan for Contract 3A.1/2* (reporting period: February 15, 2021 – September 1, 2023), consists of the following parts:

- Part I. Check List for implementation of mitigation measures listed in Appendix 1 to the Environmental management Plan (EMP).
- Part II. Check List for implementation of monitoring measures listed in Appendix 2 to the EMP.
- Part III. Quantitative summary of implementation of measures listed in Appendix 1 and 2 to the EMP, in the reporting period.

Part I. Check List for implementation of mitigation measures listed in Appendix 1 to the EMP for Contract 3A.1/2

This part of Appendix no. 1 to the *Final Report on implementation of measures determined in the Environmental Management Plan (EMP)* for Contract 3A.1/2 presents a check list for implementation of mitigation measures listed in Appendix 1 to the EMP within the reporting period.

Key for the check list presented in table 1

Mitigation measures listed in Appendix 1 to the EMP are grouped in 19 thematic categories (marked with letters A-S):

Cat.	Category name	Item on the list
A.	Requirements on schedule of works	items no. 1-2
B.	Requirements on road access to the Contract area	items no. 3-12
C.	Requirements on locations of site facilities and service roads and yards	items no. 13-23
D.	Requirements on the quality and management of soils	items no. 24-25
E.	Requirements on proceeding with topsoil/mineral soil	items no. 26-31
F.	Requirements on removing (felling) trees and shrubs	items no. 32-34
G.	Requirements on protecting trees and shrubs not intended for removal (felling)	items no. 35-41
H.	Requirements on securing protected natural resources	items no. 42-55
I.	Requirements on reinstatement of the site after the completion of construction works	items no. 56-57
J.	Requirements on the prevention of the environmental pollution	items no. 58-83
K.	Requirements on waste management	items no. 84-88
L.	Requirements on health and safety protection	items no. 89-93
M.	Requirements on extraordinary threats to the environment	items no. 94-96
N.	Requirements on protection of cultural heritage	items no. 97-101
O.	Requirements on the Contractor's staff engaged in the implementation of the EMP	items no. 102-107
P.	Requirements on reporting	item no. 108
Q.	Requirements after completion of works	items no. 109-111
R.	Remaining ESHS requirements	items no. 112-121
S.	Requirements related to demolition of engineering objects and fences	items no. 122-124

Numbers in column „Item” – from *I.* to *I24.* – determine numbers of particular mitigation measures, in accordance with numbering in Appendix 1 to the EMP.

For each of mitigation measures the following was given:

- brief description of the measure (marked with ***bold and italic letters***, including a number in column “Item”);
- exact content for the measure from the text in Appendix 1 to the EMP;
- description of implementation status of the measure in the reporting period.

Table 1. Check List for implementation of mitigation measures listed in Appendix 1 to the EMP for Contract 3A.1/2

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. A. REQUIREMENTS ON SCHEDULE OF WORKS</i>		
1.	<p><i>EMP conditions on the schedule of works</i></p> <p>When setting work schedules and at the stage of their implementation, the EMP conditions regarding the dates and time of conducting various types of work should be taken into account, described in detail in the consecutive items of the table, including, but not limited to:</p> <ul style="list-style-type: none"> a) acceptable hours of works (see items 74, 75); b) acceptable dates for removing (felling) trees and shrubs (see items 32, 33, 34); c) dates of environmental inspection before removal (felling) of trees (see item 34); d) the optimal date for conducting works within the root volumes of trees and shrubs (see item 39); e) dates of inspections related to ensuring the protection of small animals on the site (see items 46, 47); f) agreeing deadlines for carrying out land reclamation works (see item 56); g) deadlines for reporting the implementation of the EMP (see item 108). 	<p>Implementation status for particular elements:</p> <ul style="list-style-type: none"> <u>a. Work performance hours</u> See: description under items no. 74, 75. <u>b. Time of logging</u> See: description under items no. 32, 33, 34. <u>c. Time of inspection prior to the logging</u> See: description under item no. 34. <u>d. Time of performance at roots of trees and shrubs</u> See: description under item no. 39. <u>e. Time of inspection referring to small animals</u> See: description under items no. 46, 47. <u>f. Time of reinstatement works</u> See: description under item no. 56. <u>g. Time of reporting for implementation of the EMP</u> See: description under item no. 108.
2.	<p><i>EMP conditions on activities to be carried out before or at the initial stage of works</i></p> <p>Any work associated with modernization of the embankments shall be done only within boundaries of the designed Contract area.</p> <p>When setting work schedules and at the stage of their implementation, the EMP conditions should be taken into account regarding activities to be carried out before or at the initial stage of works, described in detail in the following items of the table, including, but not limited to:</p> <ul style="list-style-type: none"> a) conditions for building and equipping the construction site facilities, service roads and sites (see items 13, 14, 15, 16, 17, 18, 19, 46, 60, 63, 64, 65, 66, 67, 68, 69, 70, 71, 81, 82, 85, 86, 87, 92, 93); b) conditions for the road access to the construction site (see item 3, 4, 5, 6, 7, 8, 9, 10, 11); c) the condition for removing and securing the topsoil/mineral soil (see item 26, 27, 28, 29, 30, 31); d) the condition for securing trees and shrubs unintended for removal (felling) (see items 35, 36); e) conditions for the implementation of environmental 	<p>Implementation status for particular elements:</p> <p>In the range of observing the boundaries of Contract implementation area: – cases of deviation from the condition discussed under item no. 2 of Appendix 1 to the EMP were not identified in the present reporting period.</p> <p>In the range of including other conditions discussed under item no. 2 of Appendix 1 to the EMP:</p> <ul style="list-style-type: none"> <u>a. Development and furnishing of the site facilities, as well as technological roads and yards</u> See: description under items no. 13, 14, 15, 16, 17, 18, 19, 46, 60, 63, 64, 65, 66, 67, 68, 69, 70, 71, 81, 82, 85, 86, 87, 92, 93. <u>b. Traffic services for the construction site</u> See: description under items no. 3, 4, 5, 6, 7, 8, 9, 10, 11. <u>c. Removal and protection of top-soil/mineral soil</u> See: description under items no. 26, 27, 28, 29,

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	<p>inventories (see items 42, 43);</p> <p>f) the condition for securing the building site against the entry of small animals (see item 46);</p> <p>g) the condition for obtaining decisions authorizing exceptions to the principles of species protection of plants, fungi and animals (see items 53, 54);</p> <p>h) conditions for the development of selected documents (see items 24, 56, 84, 89, 94, 100, 104, 105, 106, 108);</p> <p>i) conditions for documentation of technical condition of buildings and infrastructure facilities (see items 8, 91);</p> <p>j) the condition for explosive ordnance survey of the site (see item 90);</p> <p>k) the condition for inventory of illegal landfills and waste disposal (see item 88);</p> <p>l) the condition for compliance with the opinion of the heritage conservator (see items 97, 98, 99);</p> <p>m) the condition for obtaining the Engineer's approval for the appointed person to be EMP co-ordinator and the composition of the team of environmental experts, the team of archaeological experts and the team of sappers (see items 103, 104, 105, 106);</p> <p>n) the condition for training on the guidelines of the EMP implementation (see item 102);</p> <p>o) conditions related to demolition of engineering objects and fences (see items 122, 123, 124).</p>	<p>30, 31.</p> <p><u>d. Protection of trees and shrubs</u> See: description under items no. 35, 36.</p> <p><u>e. Execution of environmental inventories</u> See: description under items no. 42, 43.</p> <p><u>f. Protection of the construction site against occurrence of animals</u> See: description under item no. 46.</p> <p><u>g. Obtainment of derogation decisions</u> See: description under items no. 53, 54.</p> <p><u>h. Development of documents</u> See: description under items no. 24, 56, 84, 89, 94, 100, 104, 105, 106, 108.</p> <p><u>i. Documentation on the technical condition for buildings and infrastructural objects</u> See: description under items no. 8, 91.</p> <p><u>j. Sapper inspection</u> See: description under item no. 90.</p> <p><u>k. Inventory of illegal landfills for garbage and waste</u> See: description under item no. 88.</p> <p><u>l. Observance of heritage conservator's opinions</u> See: description under items no. 97, 98, 99.</p> <p><u>m. Acceptance of the EMP coordinator and the environmental, archaeological, and sapper supervisors</u> See: description under items no. 103, 104, 105, 106.</p> <p><u>n. Trainings on the rules of EMP implementation</u> See: description under item no. 102.</p> <p><u>o. Condition belonging to the Category S in Appendix 1 to the EMP</u> See: description under items no. 122, 123, 124.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. B. REQUIREMENTS ON ROAD ACCESS TO THE CONTRACT AREA</i>		
3.	<p><i>Conditions for using access roads to the Contract area</i> [applied for the existing road system; proper marking for access roads]</p> <p>The following conditions apply to the use of access roads to the Contract area:</p> <p>a) access to the <i>Contract area</i> should be based on existing roads;</p> <p>b) the Contractor shall ensure proper marking of all access roads to the <i>Contract area</i>, in accordance with applicable law and arrangements with relevant Road Managers. These markings will be regularly inspected, and in the event of their destruction or theft, the Contractor will immediately take action to restore or complement them;</p> <p>c) The aforementioned requirements shall be observed by the Contractor also in case of organizing the water transportation.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
4.	<p><i>Conditions for using access roads to the Contract area</i> [protection of people against increased traffic volume on roads during construction works and observance of the rules of in-land navigation at water transportation]</p> <p>The Contractor shall ensure protection of people against increased traffic volume on roads used during construction works. During the contract period, the Contractor will provide, install and operate all temporary safety devices (e.g. traffic lights, information boards, safety barriers), thus ensuring the safety of vehicles and pedestrians.</p> <p>The Contractor shall apply and observe any regulations and rules for in-land navigation when using water transportation for the works.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
5.	<p><i>Conditions for using access roads to the Contract area</i> [keeping the technical conditions for roads and other compacted surfaces applied by vehicles]</p> <p>Compacted surfaces used by the cars transporting construction materials and aggregate should be kept in a proper technical condition (including technological roads and access roads).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
6.	<p><i>Conditions for using access roads to the Contract area</i> [observance of limits for weight of load and conditions for deliveries of untypical loads]</p> <p>The Contractor shall comply with the statutory load limits on the axle when transporting materials and equipment to and from the <i>Contract area</i>. The Contractor shall obtain all necessary permits for the transport of non-standard loads and shall notify the Engineer of any such transport on a continuous basis.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
7.	<p><i>Conditions for using access roads to the Contract area</i> <i>[liability of the Contractor for damaging infrastructural elements and for patency of drainage facilities]</i></p> <p>The Contractor will be liable for any damage to civil structures and buildings, roads, drainage ditches, culverts, water and gas pipelines, power poles and lines, cables, geodetic control network spots and installations of any kind, and other types of objects such as vertical and horizontal markings, navigation markings, information boards, cultural heritage structure, etc., caused by it or its subcontractors, service providers and suppliers during implementation of the Contract.</p> <p>The Contractor is also responsible for restoring the flow of ditches and drainage systems in the area of works and used transport roads, in the event of damages caused by the performance of works and transport connected with the works.</p> <p>The Contractor shall immediately repair any damage at their own expense and, if necessary, carry out other work ordered by the Engineer.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
8.	<p><i>Conditions for using access roads to the Contract area</i> <i>[photo documentation for the Contract implementation area and for the access roads, and site visits and memos on the condition of access roads]</i></p> <p>a) the Contractor is obliged to provide photo documentation of the entire Contract area and of access roads, with particular reference to the technical condition of roads and buildings located in the vicinity of the roads for transporting construction materials. The completed documentation should be described with the place and the date of development thereof;</p> <p>b) prior to the commencement of works, the Contractor shall carry out site inspections in the presence of Road Administrators, subsequently to which the protocols of the condition of access roads to the <i>Contract area</i> shall be developed. Based on the protocols, the Contractor will be obliged to restore the technical condition of the roads.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
9.	<p><i>Conditions for using access roads to the Contract area</i> [establishment on traffic made with Administrators of roads and water routes, obtainment of Engineer's acceptance, and implementation of agreed traffic management plans]</p> <p>a) the Contractor is obliged to agree with Road Administrators and Navigation Route Administrators the plan of traffic organization and work security. The Contractor is obliged to carry out the traffic management according to agreed designs (marking and securing of the <i>Contract area</i>, marking of detours and recommended marking of roads, related to the change in traffic management etc.);</p> <p>b) prior to the commencement of works, the Contractor shall submit to the Engineer for approval the plan of traffic organization and work security as agreed upon with Road Administrators as well as the traffic management schedule. Depending on the needs and progress of works, traffic management plans should be updated by the Contractor on a regular basis.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
10	<p><i>Conditions for using access roads to the Contract area</i> [organization of traffic for vehicles and pedestrians]</p> <p>The Contractor is obliged to provide access routes for ambulances and fire brigades throughout the whole period of works, to designate roads, exits and pedestrian crossings and parking spaces for vehicles used on site.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
11.	<p><i>Additional conditions regarding access roads to the Contract area</i> [deliveries using the existing roads]</p> <p>Delivery of materials and traffic of vehicles, machines and equipment servicing the construction site should be carried out on existing hardened public roads and within the navigation route in the first place.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
12.	<p><i>Setting out new access roads to the Contract implementation area</i></p> <p>When necessary to make an additional access road to the <i>Contract area</i>, it should be outlined as the shortest possible section, outside the areas of high natural value.</p> <p>Planned locations of access roads should be agreed with the team of environmental experts (including, among others, a phytosociologist) and submitted along with the abovementioned agreements, for the approval by the Engineer.</p> <p>The aforementioned establishments also refer to potential new locations of reloading yards associated with the use of water transportation for deliveries of soil.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (a need to develop new access roads to the <i>Contract area</i> nor to designate new reloading places for water transport, referred to in item no. 12 under Appendix 1 to the EMP, was not identified in the <i>Contract implementation period</i>).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. C. REQUIREMENTS ON LOCATIONS OF SITE FACILITIES AND SERVICE ROADS AND YARDS</i>		
13.	<p><i>Obligation to build site facilities, service roads and yards</i></p> <p>Construction site facilities, service roads and yards must be completed prior to the commencement of construction works.</p> <p>Construction site's facilities are used to store construction materials, for garaging, refueling and repairing vehicles, machines and equipment, and to provide location of social facilities (locker rooms, office, workshop, portable sanitary cabins) and waste containers.</p> <p>The area of construction site's facilities, where machines and vehicles shall move, shall be protected. The subbase side sealed on using insulation materials assuring protection for the soil shall be separated for service and refueling of machines.</p> <p>Equipment for site facilities should meet, among others, conditions provided for in items 46, 60, 63, 64, 65, 66, 67, 68, 69, 70, 71, 81, 82, 85, 86, 87, 92, 93.</p> <p>When planning the abovementioned facilities of the construction site their space should be limited to the necessary minimum.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
14.	<p><i>Conditions for the location of construction site facilities, yards, storage/disposal sites, etc.</i></p> <p>Materials storage place, social facilities and parking space for machines and equipment should be located:</p> <ul style="list-style-type: none"> a) in the areas with the lowest natural values, taking into account the principle of minimizing land acquisition and transformation of its area and the obligation of land reclamation after completion of works, b) outside the immediate vicinity of flood waters of the river and outside the areas where water may be contaminated, c) outside the embanked area, d) at a distance of not less than 100 m from existing watercourses, water reservoirs and wetlands; e) in the areas ensuring no impact of noise on acoustically protected areas; f) all construction site's facilities shall be located beyond valuable habitats, outside the areas of medium and high ornithological value and beyond habitats of amphibians and beavers. <p>The locations intended for site facilities and the abovementioned components of the construction site should be agreed with a team of environmental experts (including a phytosociologist and a zoologists), and presented for the Engineer's approval together with establishments.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
15.	<p><i>Conditions for location of site facilities, yards, storage yards, etc. [location of site facilities for the development of the left backwater embankment at the River Dłubnia]</i></p> <p>It is allowed to locate site facilities for the left backwater embankment of the River Dłubnia a part of Bardosa Street and the existing embankment.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this Report).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
16.	<p><i>Conditions for location of site facilities, yards, storage yards, etc. [location of equipment and materials yards for Section 1 and for Section 2]</i></p> <p>It is allowed to locate equipment bases and material storage sites in the following places:</p> <ul style="list-style-type: none"> - Section 1: left embankment of the Vistula River at km 0+950 – 1+000, right embankment of the Dłubnia River at km 0+350 – 0+450, left embankment of the Dłubnia River at 0+600 – 0+700; - Section 2: left embankment of the Vistula River at km 0+000 – 0+250 and 2+600 – 2+780. 	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this Report).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
17.	<p><i>Conditions for location of site facilities, yards, storage yards, etc. [location of equipment and materials yards for Section 3]</i></p> <p>It is allowed to locate equipment bases and material storage sites for Section 3 in the following places:</p> <ul style="list-style-type: none"> - right embankment of the Vistula River at km 0+950 – 1+070, km 3+690 – 3+795, 5+900 – 6+300, 7+900 – 8+150, 8+960 – 9+060. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
18.	<p><i>Conditions for the location of service roads</i></p> <p>Service roads should be located:</p> <ul style="list-style-type: none"> a) at setting the roads out beyond the areas of the highest environmental value one shall observe a rule of acquiring the minimum required area of the aforementioned land; b) it is banned to set technological roads across or in a close vicinity of the habitats: Alluvial forests (91E0, 91F0). In case of the works connected with the rehabilitation of the embankment in the vicinity of the habitats, any works shall be performed only within the scope of its redevelopment and with precautions taken to prevent damaging adjacent Alluvial trees; c) It is banned to set technological roads in the area of Mesophile grassland habitat (code 6510); d) at the maximum extent possible outside the embanked area; e) at the maximum possible distance from existing watercourses, water reservoirs and wetlands; f) new transport roads should not be set within 1 m off of tree trunks and shrubs; g) in the first place on existing roads, including existing roads linear to and on flood banks. <p>The locations intended for service roads should be agreed with a team of environmental experts (including a phytosociologist) and presented for the Engineer's approval together with expert agreements.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
19.	<p><i>Conditions for location of technological roads</i> <i>[location of a technological road in a reach of the left embankment at the River Dłubnia]</i></p> <p>Due to the identified stand of hermit beetle within the left embankment of the Dłubnia river at km 0+000 – 0+185, the technological road shall be set behind the embankment.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this Report).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
20.	<p><i>Economical use of the site and limitation of works within the embanked area</i></p> <p>In the whole Contract area, economical use of the site should be ensured as well as a minimum transformation of its area.</p> <p>All works related to the implementation of the Contract should be carried out to the maximum extent possible outside the areas of the existing embanked area.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
21.	<p><i>Economical use of the site - materials storage place</i></p> <p>When outlining storage spaces, their number and area should be limited to the extent necessary for the current works or activities.</p> <p>In the case the areas intended for storage of materials become empty, such areas should be reused as far as possible for further storage of materials.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
22.	<p><i>Buy-outs and compensation</i> <i>[obtainment of properties for the purpose of permanent acquisition]</i></p> <p>Buy-outs and compensation as well as assistance for Contract Affected Persons (pursuant to Land Acquisition and Resettlement Action Plan).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
23.	<p><i>Payment of compensation</i> <i>[obtainment of properties for the purpose of temporary acquisition]</i></p> <p>Payment of compensation by the Contractor for temporary acquisition prior to the commencement of works (in accordance with the Land Acquisition and Resettlement Action Plan).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. D. Requirements on the quality and management of soils</i>		
24.	<p><i>Management of the soils from within the construction site</i></p> <p>Soils located on the construction site (including earth masses) should first be used on the construction site. The remaining excess of soil should be managed in accordance with the design documentation. The procedure for dealing with soil constituting waste should be presented in the Waste Management Plan prepared by the Contractor and submitted to the Engineer for approval prior to the commencement of works (in accordance with item 84 – Preparation of a Waste Management Plan (WMP)).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 1st quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
25.	<p><i>Soil extraction</i></p> <p>It is banned to quarry natural materials in the area of Mesophile grassland habitat (code 6510).</p> <p>On the stage of obtaining the ED and decisions modifying the ED, extraction of soil has been initially determined from the following deposits:</p> <ul style="list-style-type: none"> - deposit no. 1 - the Vistula river chainage about km 82+500, right bank, embanked area. Only a small part of this deposit can be used to extract non-cohesive ground above the groundwater water-table. The deposit can be used for embankment at Section 3; - deposit no. 4 - the Vistula river chainage about km 88+900 left bank, embanked area. Expected extraction up to 3 m below ground level. The deposit can be used for embankment at Section 1; - deposit no. 6 - the Vistula river chainage about km 93+700 left bank, embanked area. Expected extraction up to 3 m both cohesive and non-cohesive ground. The deposit can be used for embankment at Section 2; - deposit no. 7 – Brzegi – acquisition of material from existing gravel pit. The ground will be purchased from Krakowski Zakład Eksploatacji Kruszyw [Aggregate Extraction Plant of Cracow] and transported to the place of embedding. The majority of material to be embedded will be derived from the Brzegi deposit. The deposit can be used for all of the sections <p>According to the extraction plan for deposits no. 1, 4, and 6, the contractor is obliged – after completing the works – to shape slopes at edges of the extraction pit – inclination of 1:2.5, including top-soiling and sowing.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. E. Requirements on proceeding with topsoil/mineral soil</i>		
26.	<p><i>Collecting the top layer of soil</i></p> <p>In order to protect the layer of topsoil from the Contract area:</p> <ul style="list-style-type: none"> a) prior to the commencement of earthworks in a given area, it should be inspected for the presence of protected species; b) prior to the commencement of construction works in individual parts of the Contract area, a layer of fertile soil (i.e. topsoil) should be removed, with a thickness of about 0.15 m (this condition applies to all locations in the Contract area where the existing topsoil layer could be degraded in relation to conducting the works, traffic and operating the vehicles, machinery and equipment, storing the materials, etc.); c) The earthworks shall be carried out under the supervision of a naturalist. 	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented from the 1st quarter of 2021 to the 3rd quarter of 2022.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
27.	<p><i>Storing of topsoil</i></p> <p>The collected top-soil shall be stored as follows:</p> <ul style="list-style-type: none"> a) The removed layer of top-soil shall be stored in piles beyond the area of earthworks; b) A precise location of top-soil piles shall be priorly agreed with an expert of the Environmental Team (including phytosociologist and zoologist) to avoid degradation of natural habitats and stands of protected species, and affecting the health of trees and shrubs adversely, by storage of top-soil; c) Stored top-soil piles shall be protected against pollutions, passing-over, condensation, storage of construction materials, etc.; d) Stored top-soil piles shall be kept – until their re-use for the final shaping of the embankment and adjacent land – in proper humidity in a way allowing for re-embedding – it shall be systematically sprinkled, with frequency depending on weather conditions. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 3rd quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
28.	<p><i>Use of topsoil</i></p> <p>Upon the completion of construction works the topsoil should be used to restore the fertile soil layer at later construction phase.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
29.	<p><i>Collecting the mineral soil layer</i></p> <p>After removing the topsoil, the uncovered slopes of the existing embankments shall be profiled using so-called benching technique that involves removal of a 0.5 m thick layer of ground, on average.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
30.	<p><i>Storing the mineral soil</i></p> <p>The collected mineral soil shall be stored as follows:</p> <p>a) The removed layer of mineral soil shall be stored in piles beyond the area of earthworks;</p> <p>b) A precise location of mineral soil piles shall be priorly agreed with an expert of the Environmental Team (including phytosociologist and zoologist) to avoid degradation of natural habitats and stands of protected species, and affecting the health of trees and shrubs adversely, by storage of mineral soil;</p> <p>c) Stored soil piles shall be protected against pollutions, passing-over, condensation, storage of construction materials, etc.;</p> <p>d) Stored soil piles shall be kept – until their re-use for the final shaping of the embankment and adjacent land – in proper humidity in a way allowing for re-embedding – it shall be systematically sprinkled, with frequency depending on weather conditions.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 3rd quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
31.	<p><i>Use of mineral soil</i></p> <p>The stored mineral soil should be used at later stages of construction.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 3rd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. F. Requirements on removing (felling) trees and shrubs</i>		
32.	<p><i>Permissible date of removing (felling) trees and shrubs</i></p> <p>Removal (felling) of trees and shrubs should be scheduled for the period from the beginning of October to the end of February.</p> <p>In case it would be necessary to perform felling within the hatching period, the works may be performed provided that an ornithological inspection would be done (inspection by an expert ornithologist), which would verify that the birds' nests or breeding sites will not be destroyed due to the removal (felling).</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented in the 1st quarter of 2021, in the 2nd quarter of 2021, in the 2nd quarter of 2022, and in the 3rd quarter of 2022.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
33.	<p><i>Permissible date of removing (felling) trees and shrubs [in reference to logging of 3 trees within the Lasówka Fort]</i></p> <p>According to the permit no. 988/17 dated October 31, 2017, removal of 3 trees that grow in the embankment body in the area of Fort 50a Lasówka shall be performed beyond the hatching period from October 16 till the end of February.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (removal of 3 trees growing in Fort 50a Lasówka, referred to in item no. 33 under Appendix 1 to the EMP, was carried out and completed by the Investor in the 4th quarter of 2019, before the commencement of the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
34.	<p><i>Environmental supervision before and during the removal (felling) of trees with diameter over 40 cm</i></p> <p>In the case of removing trees with diameter above 40 cm, the following rules apply:</p> <ul style="list-style-type: none"> a) removal (felling) of trees with diameter above 40 cm should be preceded by the inspection of these trees for the presence of protected species of invertebrates and bats, carried out by an expert entomologist and by an expert chiropterologist, in not more than 1 week before felling of the tree; b) in case protected species of invertebrates and/or bats in trees planned for removal (felling) are detected, the experts will schedule acceptable deadlines and ways to carry out felling, as well as determine the methods of dealing with the wood inhabited by protected animal species. <p>The deadlines for removal (felling) as scheduled by the experts can not violate the conditions specified in items 32, 33 - Permissible date of removal (felling) of trees and shrubs. For trees in which bats have been found, the optimal date for felling is the period from September 1 to October 31;</p> <ul style="list-style-type: none"> c) removal (felling) of trees with diameter above 40 cm will be carried out under the direct supervision of the abovementioned expert entomologist and expert chiropterologist; d) in case representatives of protected invertebrate species and/or bats are found in the trees subject to removal (felling), the experts shall determine the treatment methods for the wood inhabited by protected animal species and the way to reduce the death rate of identified representatives of protected animals; e) relocation of protected species of invertebrates and/or bats from trees planned for removal (felling) and/or from trees subject to removal (felling) can only take place under the direct supervision of the above mentioned expert entomologist and expert chiropterologist; f) in case protected species of invertebrates and/or bats in trees planned for removal (felling) or trees subject to removal (felling) are detected, an administrative decision required by law should be obtained to allow for exceptions to the prohibitions applicable to protected animal species (if required in a given case) 	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented in the 1st quarter of 2021, in the 2nd quarter of 2021, in the 2nd quarter of 2022, and in the 3rd quarter of 2022.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
Cat. G. <i>Requirements on protecting trees and shrubs not intended for removal (felling)</i>		
35.	<p><i>Protection of tree trunks not intended for removal (felling)</i></p> <p>Prior to the commencement of construction works, tree trunks exposed to mechanical damage should be wrapped in wood at least to the height of 1.5 m from the ground level (the bottom part of the boards should be supported on the ground). A flexible material (e.g. thick straw mats) should be placed between the cloaking and the tree trunk surface, in order to secure the trunk against scratching.</p> <p>The wooden cloaking should be attached to the trunk (e.g. with wire bands or steel tape) in a way that does not harm the tree.</p> <p>During the Contract implementation period, the condition of tree trunks exposed to damage should be monitored on an ongoing basis and the protection should be maintained in a proper condition.</p> <p>After the completion of works trunk protection should be removed.</p> <p>Works near root systems and trunks should be done by hand. It is not allowed to leave the root blocks uncovered for a long time to prevent them from drying out. In case of damaging a tree one shall immediately implement necessary curing measures, which would limit the effects of the damage. Those works shall be performed under supervision of a naturalist.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
36.	<p><i>Protection of tree trunks not intended for removal (felling) [protection of trees along the section of the left embankment at the River Dłubnia]</i></p> <p>During the works in the area of potential hermit beetle stands in the willows (left embankment of the Dłubnia river km 0+000 – 0+185) the trees shall be protected with a temporary barrier from the temporary road's side, and the trunks shall be wrapped with straw mats (the trees shall be protected against burying or damaging by using the shields made of straw mats and wooden fences).</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this <i>Report</i>).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
37.	<p><i>Protection of the areas under crowns of trees and shrubs</i></p> <p>Construction works should be carried out in a way that does not harm trees and shrubs that have not been intended for removal (felling).</p> <p>At a distance of less than 1 m from the edge of the protrusion of the crown of trees and shrubs not intended for removal (felling), it is forbidden to:</p> <ul style="list-style-type: none"> a) outline roads and service yards, parking spaces and other elements that may influence the increase in tamping and changes in soil aeration; b) allow for traffic, stopover and parking of vehicles, machines and equipment; c) store earth masses (including topsoil) and construction materials (in particular bulk materials); d) smoke or use fire, use devices or machines generating high temperature, which may cause drying of tree crowns. <p>The storage of cement, aggregates, oils, fuels and binders is prohibited at a distance of less than 10 m from trunks of trees and shrubs not intended for removal.</p> <p>The method of forming and compacting for the embankments in the vicinity of trees and shrubs not intended for removal shall be agreed with an expert dendrologist, and the results of the findings should be submitted to the Engineer for approval.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
38.	<p><i>Preventive cutting of branches of trees exposed to damage</i></p> <p>In the case of exposure of tree boughs and branches to mechanical damage by working or moving vehicles, machines and equipment, preventive cutting of tree branches exposed to damage should be carried out.</p> <p>These pruning cuts – under the supervision of an expert dendrologist – cannot disturb the natural structure of trees (they cannot cover more than 1/3 of the green mass), they should ensure stability and statics of trees (pruning must be even on each side of the crown).</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented from the 1st quarter of 2021 to the 4th quarter of 2021, and in the 4th quarter of 2022.</p> <p>No issues with implementation were identified.</p>
39.	<p><i>Carrying out works within root blocks of trees and shrubs</i></p> <p>Works in the vicinity of root blocks of trees and shrubs not intended for removal (felling) should only be carried out manually, subject to the following conditions:</p> <ul style="list-style-type: none"> a) skeletal roots (with a diameter of over 4 cm) should not be cut off; b) excavations should be carried out no closer than 2 m from the trunk; c) the time of root exposure to drying should be shortened to the minimum (while maintaining the conditions referred to in item 40 - Securing of exposed roots of trees and shrubs); d) the suitable period for carrying out the work in question is from October to April, e) it is prohibited to store any materials, soil or construction waste near tree trunks. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 2nd quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
40.	<p><i>Securing of exposed roots of trees and shrubs</i></p> <p>Exposed roots of trees and shrubs not intended for removal (felling) should be covered with straw or jute mats. At positive temperatures, these mats should be abundantly moistened with water (to prevent drying of the roots), while at negative temperatures these mats should be dry (to avoid freezing of the roots).</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (a need to perform activities related to securing of exposed roots of trees and shrubs, referred to in item no. 40 under Appendix 1 to the EMP, was not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
41.	<p><i>Securing of damaged trees and shrubs</i></p> <p>In case aboveground parts of trees and shrubs not intended for removal have been damaged, the necessary care measures should be carried out immediately, relevant for the place and type of damage.</p> <p>In case of root damage, the ends should be trimmed off and the roots secured with a fungicide.</p> <p>The abovementioned activities should be performed in consultation with the team of environmental experts (expert dendrologist), and after they have been completed, the Engineer should be provided with an opinion on the aforementioned team regarding the assessment of the activities.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued (with breaks) until the 1st quarter of 2022.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. H. Requirements on securing protected natural resources</i>		
42.	<p><i>One-time nature inventory of the area of works before the commencement of works</i></p> <p>Prior to the commencement of works, a one-time nature inventory of the Contract area, performed by a team of environmental experts, referred to in item 104 - Providing a team of environmental experts.</p> <p>The purpose of the inventory is to determine the current distribution of natural habitats and habitats and sites of protected species of flora and fauna, including ongoing revision of information on the subject as included in the WCIS (drawn up in 2016, together with later supplements – for Sections 1, 2 and, 3, and drawn up in 2017 for construction of the left embankment of the Dłubnia River) and nature inventories of the area.</p> <p>If the presence of natural habitats and habitats or protected sites of plant and animal species in the Contract area has been confirmed, it is necessary to perform as follows:</p> <p>a) in the case of natural habitats - further actions should be agreed with a competent environmental team's expert, and the results of the findings should be submitted to the Engineer for approval;</p> <p>b) in the case of habitats or sites of protected species - perform the actions referred to in item 53 - Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species indicated in the WCIS and in item 54 - Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for newly detected habitats and sites of protected species, e.g. in case of a habitat of beaver one shall obtain from the RDOŚ in Cracow a departure from a ban related to disturbance and scaring of e.g. beavers during the performance. Beavers may inhabit the embanked area and sites grown with trees and shrubs in vicinity of the embankments;</p> <p>c) identified representatives of protected species (e.g. amphibians, reptiles, birds) should be relocated outside the Contract site to a place with similar habitat conditions, sufficiently far away from the Contract site, so that animals cannot return to this area until the work has been completed. All work will require an appropriate administrative decision in accordance with the procedure indicated in item - b) above (before relocating amphibians, one must obtain the permit of the owner or administrator of the reservoir, watercourse or terrain to which they will be transferred to);</p> <p>d) potential works connected with the removal of amphibians' breeding habitats shall be performed only from the beginning of November till the end of February.</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented from the 1st quarter of 2021 to the 4th quarter of 2021.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
43.	<p><i>Valuable nature habitats</i> [protection of the Vistula oxbow lakes; protection of the alluvial forest in Section 2 at km 0+250 – 0+350]</p> <p>a) It is banned to introduce any measures aimed to drain the area of the Vistula oxbow lakes, especially the oxbow lake near Brzegi. Draining works could impact the habitats of variable moisture content or wet formed in this area adversely.</p> <p>b) In case of the Alluvial forest at km 0+250 – 0+350 (Section 2) that grows on both sides of the embankment, any works shall be performed only within the scope of its redevelopment. It is banned to set technological roads or locate construction site's facilities in the area of the mentioned habitat. Moreover, all the works shall be performed using best effort to prevent damaging of adjacent trees.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
44.	<p><i>Valuable nature habitats</i> [protection of the alluvial forests; protection of the mesophile grasslands]</p> <p>a) No works shall be performed in the areas of the valuable habitats of Alluvial forests (91E0, 91F0). It is recommended to take precautions when planning works in this area to prevent damaging of the habitats.</p> <p>b) It is banned to perform any works in the area of Mesophile grassland habitat (code 6510).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
45.	<p><i>Limiting the time of the Contract completion</i></p> <p>The Contractor should ensure such organization of works as to shorten the duration of the Contract as much as possible and in this way minimize the adverse impact of works on animals living in the area of the Contract and in its neighborhood.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
46.	<p><i>Securing the Contract area against small animals entering the site</i></p> <p>a) Works should be performed in such a way as to avoid killing animals;</p> <p>b) Works shall be performed in a way avoiding provision of water pits;</p> <p>c) Any work providing risk for amphibians – performed in vicinity of amphibians' breeding habitats currently identified by the environmental supervision – may be done only at application of temporary herpetological fences protecting the works site against the occurrence of amphibians;</p> <p>d) If amphibians are found within the construction site, they should be caught and moved to a replacement habitat, sufficiently far away from the site. The list of such habitats shall be attached to the application for derogation from prohibited activities against the protected species;</p> <p>e) During the migration amphibians gathering at the fencing shall be caught and transferred to the area beyond the site, i.e. to a side opposite to the one, where amphibians were identified. One shall allow the animal to move in the selected direction;</p> <p>f) After completing the works the temporary fencing shall be removed;</p> <p>g) In case of performing the works in locations, where amphibians are present from March to October, adult specimens of amphibians, their eggs and larvae shall be caught and moved based upon the decision of RDOŚ in Cracow on derogation from prohibited activities against the protected species of amphibians. Potential filling of habitats in shall be done in autumn and winter (November – February).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
47.	<p><i>Inspection of places that could be traps for small animals</i></p> <p>Every day in the morning inspect excavations and other places that can be traps for animals: amphibians, reptiles, small mammals.</p> <p>In the periods from March 1 to May 15 and from the September 15 to October 15, a second inspection should also be carried out every day in the late afternoon.</p> <p>Trapped animals should be collected and released outside the Contract implementation area, to the place appropriate for a given species, which should be determined with the environmental team's expert.</p> <p>The last inspection for the presence of animals in the excavations should be carried out immediately before backfilling the excavations.</p> <p>Inspections should be carried out under the guidance and in accordance with the guidelines of an expert herpetologist and an expert theriologist, who will also coordinate and indicate the places of release of trapped animal species.</p> <p>All wells, excavations and other anthropogenic structures which may be a trap for amphibians and small mammals should be secured according to the guidelines and under the guidance of the abovementioned expert herpetologist and the expert theriologist.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
48.	<p><i>Ongoing liquidation of marginal water deposits in the Contract area</i></p> <p>During the Contract performance, it is necessary to permanently eliminate marginal water deposits in places which may interfere with ongoing or scheduled works as well as in places where ongoing or scheduled traffic of vehicles, machines and equipment is to be run.</p> <p>This measure aims to prevent the settlement of protected amphibian species in the Contract area during the performance of works. This activity should be carried out in consultation with a herpetologist, who will also supervise if the procedures are followed.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued (with breaks) until the end of the reporting period.</p> <p>From the 2nd quarter of 2021 to the 4th quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
49.	<p><i>Ensuring the possibility of safe migration of amphibians</i></p> <p>Works should be carried out in a manner that ensures the safe migration of amphibians, including the migration through designed internal roads within the Contract area. Detailed rules for meeting this condition should be agreed with a herpetologist, who will also supervise if the procedures are followed.</p> <p>The abovementioned agreements with the herpetologist should be submitted to the Engineer for approval.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
50.	<p><i>Trapping and relocating small animals from the Contract area</i></p> <p>If small animals are reported to inhabit the Contract area (amphibians, reptiles, small non-flying mammals, bats), in places where works may pose a threat to their life or health, they should be trapped and relocated from the Contract area to the appropriate habitats, located beyond the impact of the works. These actions should be performed under the supervision of a competent environmental expert (herpetologist, theriologist and/or chiropterologist).</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (a need to perform activities related to trapping and relocating small animals, referred to in item no. 50 under Appendix 1 to the EMP, was not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
51.	<p><i>Fighting foreign invasive plant species</i></p> <p>During the works, alien invasive plant species should be removed (at least twice a year, in the entire Contract area), until they disappear and are replaced with local vegetation. Removal of alien invasive plant species should be done by pulling out the plants (along with the root ball), transporting and then disposing of them. The actions should be carried out in accordance with detailed instructions specified by the expert phytosociologist.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (a need to perform activities aimed at removing foreign invasive plant species, referred to in item no. 51 under Appendix 1 to the EMP, was not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
52.	<p><i>Ongoing inspections of the team of environmental experts during the Contract implementation period</i></p> <p>The works and other works performed during the Contract implementation period should be carried out under the ongoing supervision of a team of environmental experts (referred to in item 104 - Providing a team of environmental experts). These experts should, among others, carry out regular inspections of the entire area of the Contract (at least once a month) and submit their comments and recommendations to the Contractor's staff responsible for carrying out works in accordance with the EMP conditions. The notes from the inspections should be made in writing, attached to the monthly reports on the implementation of the EMP conditions (referred to in item 108 - Reporting the implementation status of the EMP).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period. No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
53.	<p><i>Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species shown in the Works Contract Information Sheet</i></p> <p>In respect of the resources of protected plant fungi and animals species, as shown in the WCIS, the following actions should be performed before the commencement of construction works:</p> <p>a) The Contractor shall obtain and submit to the Engineer for approval a written opinion of the team of environmental experts including the specification of :</p> <ul style="list-style-type: none"> the extent of the possible impact of the works on the identified natural resources, and the need to obtain the decision referred to in point b herein, and then, if it proves necessary in the light of the abovementioned opinion, the Contractor shall carry out the activities referred to in items b-d (hereunder); <p>b) before taking any actions that may lead to the destruction of habitats and sites or flushing out the representatives of protected species, the Contractor is required to obtain the administrative decision required by law, allowing for exceptions to the binding prohibitions regarding protected species of plants, fungi and animals, e.g. in case of a habitat of beaver one shall obtain from the RDOŚ in Cracow a departure from a ban related to disturbance and scaring of e.g. beavers during the performance. Beavers may inhabit the embanked area and sites grown with trees and shrubs in vicinity of the embankments;;</p> <p>c) the Engineer should be notified of the decision obtained;</p> <p>d) the Contractor is obliged to precisely and timely implement the conditions contained in the abovementioned decision.</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented from the 1st quarter of 2021 to the 4th quarter of 2021, and in the 1st quarter of 2023.</p> <p>No issues with implementation were identified.</p>
54.	<p><i>Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for new detected habitats and sites of protected species</i></p> <p>If prior to the commencement or during the performance of construction works in the Contract area, the presence of habitats or sites of protected species of flora and fauna has been reported (other than the sites referred to in item 53 - Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species shown in the WCIS), then the Contractor shall undertake measures listed under item 53.</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented in the 1st quarter of 2021, and in the 2nd quarter of 2021.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
55.	<p><i>Relocation of protected species</i></p> <p>Prepare a report and photo documentation on the activities related to the relocation/destruction of existing plant or animal species. The report should be consistent with the guidelines indicated in the administrative decisions obtained.</p> <p>The report should state at least the type and quantity of relocated species, indicate the places from which and to which they will be relocated, the manner of relocation and the time.</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented in the 2nd quarter of 2021.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. I. Requirements on reinstatement of the site after the completion of construction works</i>		
56.	<p><i>Recreation of topsoil layer and green areas and tidying up the site after completion of works</i></p> <p>After completion of works:</p> <ol style="list-style-type: none"> 1) construction facilities, service roads and sites should be dismantled, whilst road slabs and sand collected from ballast should be transported away from the Contract area to the place specified beforehand (accepted by the Engineer); 2) in the areas occupied in connection with the implementation of the Contract (within the boundaries of the Contract area), appropriate agro-technical measures should be taken (soil loosening, fertilization, etc.), in order to prepare the reinstatement of the fertile soil layer; 3) in the areas acquired in connection with the implementation of the Contract (within the boundaries of the Contract area) the fertile soil layer should be reinstated (including the use of the topsoil collected from the area of works); 4) treatments facilitating the restoration of green areas should be performed (including seeding and planting trees [in accordance with the design documentation], using only native plant species, compatible with local habitat conditions); 5) proper care of the reinstated green areas should be ensured (until the end of the Defect, Guarantee and Warranty Period); 6) tidy up the Contract area; 7) the area of works and the adjacent land shall be restored to its initial condition, as a result of the traffic of machines and means of transport. <p>Activities described in items 2, 3, 4, and 5 (above) should be performed under the supervision of expert phytosociologist and expert dendrologist, including:</p> <ol style="list-style-type: none"> a) agreement of the exact dates of works; b) agreement of the composition and quantitative proportions of seed mixtures planned for sowing; c) agreement of conditions for preparation of soil; d) agreement of the principles of caring for the recreated green areas; e) submission of the results of the above agreements to the Engineer for approval; f) supervision over the implementation of activities supporting the recreation of green areas and supervision over the care of these areas (until the end of the Defects Notification Period, Guarantee and Warranty). <p>Activities related to the recreation of the topsoil layer and the restoration of green areas referred to in this item of the EMP should be commenced as soon as their implementation is possible.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
57.	<p><i>Caring for grasslands</i></p> <p>Caring for grasslands (mixes of native grass species) in the first growing season after planting consists in:</p> <ul style="list-style-type: none"> • fertilizing, lawns should be supplied with mineral fertilizers as needed (no more than 3-5 kg NPK/are/year). Mixtures of fertilizers should be prepared in such a way as to supply the grass with ingredients required in particular seasons: <ul style="list-style-type: none"> o in spring, the lawn requires a mixture with dominating nitrogen, o from the middle of summer nitrogen should be reduced, increasing the dose of potassium and phosphorus, o the final fertilization should not contain nitrogen, but potassium and phosphorus. • seeding, • moving: <ul style="list-style-type: none"> o the first mowing should be carried out when the grass is about 10 cm high and should be cut to a height of 6 cm, o subsequent mowing should take place at such intervals so that the grass does not exceed 15 cm in height, o the last pre-winter mowing should be carried out 1 month before the expected cold weather (for the climate of Poland the first half of October may be assumed), o after each mowing, cut grass should be removed from all surfaces and harvested hay should be stored outside the construction site, • it is necessary to maintain adequate soil moisture. <p>Mowing of grasslands in subsequent growing seasons should be carried out twice a year.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. J.</i>	<i>Requirements on the prevention of the environmental pollution</i>	
58.	<p><i>The use of building materials in accordance with regulations and standards and harmless to the environment</i></p> <p>Only construction materials that are not harmful to the environment (natural, environmentally friendly or neutral) should be used for the implementation of the Contract. One shall not apply substances that may be lethal to the present animals, except for substances necessary for proper operations of construction machines.</p> <p>The materials, raw materials, fuels, fertilizers, cement-concrete mixes used should be certified and approved for use.</p> <p>Earth structures should be made of natural materials, without the use of hazardous materials or harmful to health.</p> <p>Mineral materials, possibly geotextiles, should be used for the construction/extension of embankments, but only those that are not a source of emission of harmful substances to the soil and water environment.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
59.	<p><i>Technical efficiency and inspections of vehicles, machines and equipment</i></p> <p>In order to prevent contamination of soil and water, only technically efficient vehicles, machines and equipment should be used to carry out the works.</p> <p>The Contractor should carry out ongoing inspections of the efficiency of vehicles, machines and equipment and eliminate with any resources available any permeating of contamination to soil and water, including in particular spilling of fuel, hydraulic oils and petroleum substances, both during operating, refueling, transport, as well as the work of vehicles, machines and equipment.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
60.	<p><i>Conditions on the location of the sites for collection and production of construction materials</i></p> <p>Construction materials, in particular bulk materials, should be collected only on compacted surfaces within the construction site. These materials cannot be collected at a distance of less than 100 m from existing watercourses.</p> <p>Analogous conditions apply to the places of production of construction materials (cement mixes, prefabricates, aggregates, etc.).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 2nd quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
61.	<p><i>Reducing time and number of drainage and the ban to dispose of water from excavations directly to watercourses</i></p> <p>The time for carrying out drainage should be reduced to the minimum and such methods should be applied to reduce the amount of pumped water and ensure its protection against contamination.</p> <p>The water pumped out from the excavations cannot be directly disposed to watercourses due to high content of suspension.</p> <p>Before disposing to watercourses the water should be purified of suspension, through the use of sedimentation tanks.</p> <p>Suspensions produced during the treatment shall be managed in a way compliant with their classification; thus eliminating the possibility of transferring them to the water-course or storing them in places, where submerging or flooding is possible.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
62.	<p><i>The ban to interfere with watercourse beds and riverside zone</i></p> <p>During the performance of the Contract it is not allowed to interfere with the beds and banks of the watercourses (e.g. the ban of traffic of vehicles, machines and equipment, the ban to contaminate, devastate, store materials, etc.).</p> <p>Any works shall be performed in such a way as do not contribute to drain the area of the Vistula oxbow lakes.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
63.	<p><i>Conditions for movement of vehicles, machines and equipment in the Contract area</i></p> <p>Movement of vehicles, machines and equipment shall be carried out only:</p> <p>a) within the site area;</p> <p>b) on existing roads;</p> <p>c) on service roads and yards;</p> <p>d) on internal roads (after they have been built).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
64.	<p><i>Parking place for machines and vehicles after finishing work</i></p> <p>Machines and vehicles shall be parked, every day after finishing work, in places intended for parking in the site facility area.</p> <p>After parking periods of machines during their stoppage for works, prior to their start-up and use, one shall inspect the parking site to control potential leakage of operating fluids.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
65.	<p><i>Sealing of the ground intended for movement of vehicles, machines and equipment on the construction site</i></p> <p>The site area intended for movement of vehicles, machines and equipment shall be sealed from the ground.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
66.	<p><i>The ban to carry out maintenance activities and repairs of vehicles, machines and equipment outside the construction site</i></p> <p>Maintenance of vehicles, machines and equipment (including exchange of oils, liquids, etc.) may be carried out only in designated places on the construction site, meeting the conditions specified in item. 67 - Designation and sealing of garages and maintenance of vehicles, machines and equipment.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
67.	<p><i>Designation and sealing of garages and maintenance of vehicles, machines and equipment</i></p> <p>Places intended for maintenance of vehicles, machines and equipment (including garaging, refueling and technical service yards, etc.) should be designated and properly marked on the construction site.</p> <p>The above-mentioned places intended for maintenance of vehicles, machines and equipment should be periodically (until completion of the construction) lined with impermeable insulating materials, protecting the substrate against penetration of solid or liquid contaminants.</p> <p>When determining the location, safe distance from flowing and standing water tanks should be taken into account, among others.</p> <p>The detailed location of the above places should be agreed in advance with a team of environmental experts (including an expert phytosociologist and an expert zoologist).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
68	<p><i>Ensuring the outflow of water from parking yards and roads to sewage systems</i></p> <p>Parking yards for equipment and access roads should be made with a slope ensuring discharge of rainwater and snowmelt and wastewater to sewage devices or other receivers, to avoid penetration of any contaminants into the ground or surface water.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
69.	<p><i>A stand with a sorbent near the service and parking yards for vehicles, machines and equipment</i></p> <p>In the vicinity of the places intended for servicing vehicles, machines and equipment (including garaging, refueling and technical service yards, etc.) it is necessary to ensure adequate quantities of sorbents, used for liquidation of oil leaks and outflows of petroleum derivatives.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
70.	<p><i>Guidelines for refuelling vehicles, machines and equipment</i></p> <p>Refueling should be carried out using mobile or stationary fuel distribution points, with appropriate safeguards, such as a stand with a sorbent used for liquidation of leaks and outflows of petroleum derivatives</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
71.	<p><i>Guidelines for washing and cleaning vehicles, machines and equipment</i></p> <p>It is forbidden to mark places or wash vehicles near watercourses, i.e. at a distance of less than 100 m, water reservoirs, as well as places where water stagnation has formed (conditions specified in items 14, 15, 16, 17 - Conditions for the location of construction site facilities, yards, storage/disposal sites, etc.).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
72.	<p><i>Prevention of leaks from vehicles, machines and equipment</i></p> <p>Maintenance of vehicles, machines and equipment used in the Contract area (including, among others, cleaning of the equipment after concreting works) are allowed only in designated places on the construction site, adequately secured against the possibility of contamination of the ground and waters and equipped in such way as to enable the immediate removal of any contamination.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
73.	<p><i>Proceedings in the case of emission of petroleum derivatives</i></p> <p>In the event of the emission of petroleum derivatives into the environment (including soil and water) the following measures should be taken:</p> <ul style="list-style-type: none"> a) take immediate action to prevent the spread of contamination, by means of available resources (e.g. sorbents); b) immediately remove the soil contaminated as a result, in accordance with applicable regulations. c) in case of major failures, use the procedures described in item 95 – Emergency notification rules 	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (events related to emission of petroleum derivatives, referred to in item no. 73 under Appendix 1 to the EMP, were not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
74.	<p><i>Reducing time of works to daytime</i></p> <p>Construction works should be carried out in a daytime, i.e. from 6:00 to 22:00.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
75.	<p><i>Reducing time of works to daytime [additional limitation of working hours at the construction of the left embankment at the River Dłubnia]</i></p> <p>Where housing is close to the embankment (construction of the left backwater embankment at the Dłubnia River) construction works should be carried out only in a daytime from 6:00 am to 6:00 pm.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this Report).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
76.	<p><i>Reducing noise of vehicles, machines and equipment</i></p> <p>During implementation of the Contract only technically efficient vehicles, machines and equipment shall be used, with noise emission (acoustic power) compliant with the binding regulations and which does not result in exceeding the environmental quality standards in the scope of permissible noise levels.</p> <p>In case any inefficient vehicles, machines and equipment, which can generate a higher noise level in their neighborhood, are found, they should be immediately replaced with the efficient ones.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
77.	<p><i>Reducing noise of pump sets</i></p> <p>In the case of carrying out works in the acoustically protected areas or in their vicinity, in order to reduce their inconvenience to residents, only such pump sets shall be used which are equipped with soundproof housing which ensures the reduction of the noise levels to be compliant with the applicable regulations and standards (regarding permissible noise levels in the environment).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
78.	<p><i>Control of noise level in acoustically protected areas</i></p> <p>In the case of works carried out in acoustically protected areas or in their vicinity, the noise level shall be constantly monitored and, depending on the needs, appropriate technical and organizational measures ensuring noise reduction to be compliant with applicable regulations and standards (regarding permissible noise levels in the environment) should be applied.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
79.	<p><i>Limiting the power consumption of vehicles, machines and equipment</i></p> <p>Vehicles, machines and equipment shall be used with low power consumption and switch off power/engines during the break in operation.</p> <p>Operating time of vehicles, machines and equipment shall be reduced to the necessary minimum.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
80.	<p><i>Limiting air pollution with exhaust fumes</i></p> <p>In order to reduce the negative impact on the condition of the air:</p> <ul style="list-style-type: none"> a) only technically efficient vehicles, machines and equipment should be used, with the required approvals to reduce the emission of gaseous and particulate substances into the atmosphere; b) a place should be provided for free manoeuvres of vehicles, such as yards; c) it is necessary to limit the movement of vehicles, machines and devices to the necessary minimum, as well as to limit the speed of traffic on the construction site; d) it is necessary to minimize the idling time of engines and follow the instructions on shutting down the machines and equipment during breaks in operation; e) vehicles should be parked with the engine turned off. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
81.	<p><i>Limiting dusting from the construction site</i></p> <p>When carrying out construction works, the effects of secondary dusting should be limited by maintaining a high work culture, in particular by:</p> <ul style="list-style-type: none"> a) regular cleaning of the construction site; b) applying the necessary technical and organizational measures to limit the emission of dust from the construction site, including storage places for building materials causing dusting; c) spraying dusty site surfaces in dry periods, during transportation. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>
82.	<p><i>Keeping the roads clean</i></p> <p>In order to keep the roads clean and prevent dusting on the roads the following steps should be taken:</p> <ul style="list-style-type: none"> a) the Contractor shall apply all available technical means and organize works to minimize the dusting and pollution of access roads to the Contract area; b) the contractor shall apply protection on trucks delivering loose materials that may dust during the delivery (tarpaulins, sheets or covers of other type; c) at entrances to the construction site for heavy equipment the Contractor shall assemble stations, where soil or mud shall be initially removed from wheels of the vehicles; d) the contractor shall clear lanes of public roads off of pollutions coming from the construction site due to the traffic of vehicles, machines and devices associated with implementation of the Contract in order to prevent secondary dusting by soil brought by wheels of vehicles providing services to the site. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this <i>Report</i>.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
83.	<p><i>Ban to burn fires and burn down materials, waste, litter, etc.</i></p> <p>It is forbidden to burn fires and burn down materials, waste and litter, etc. in the Contract area.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. K. Requirements on waste management</i>		
84.	<p><i>Development of a Waste Management Plan (WMP)</i></p> <p>Prior to the commencement of works the Contractor shall develop and submit a Waste Management Plan for the Engineer's approval, specifying the way of handling waste expected to be generated during the works and taking into account, among others, conditions for waste management included in the EMP.</p>	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented from the 1st quarter of 2021 to the 2nd quarter of 2021.</p> <p>In the 1st quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
85.	<p><i>Guidelines for waste management</i></p> <p>Waste generated during the performance of the Contract shall be:</p> <ul style="list-style-type: none"> a) segregated and stored selectively in sealed containers or in separate and adapted places, in conditions preventing dusting and dispersing of light fractions and their negative impact on the environment; b) ensure gradual waste reception by entities authorized to handle it; c) it is prohibited to store any materials, soil and construction waste near tree trunks. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 2nd quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
86.	<p><i>Guidelines for handling hazardous waste</i></p> <p>Hazardous waste should be segregated and stored separately in special sealed containers placed in the sealed, paved area that is marked and secured against access by third parties, until it is handed over to entities authorized to handle it.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
87.	<p><i>Guidelines for handling domestic waste</i></p> <p>Domestic waste should be collected on the compacted (paved) area on the site in sealed septic tanks, content of which will be handed over to entities authorized to handle it.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
88.	<p><i>Preventing illegal dumping of litter and waste</i></p> <p>Prior to the commencement of works the Contractor shall investigate the area for possible illegal landfills of litter and waste. In case of identifying illegal landfills of litter and waste, the Contractor shall clear such areas through the removal of waste and delivering it to the treatment site. During the performance of the Contract the Contractor shall secure the Contract area against possible formation of such landfills.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. L. Requirements on health and safety protection</i>		
89.	<p><i>Development of documents related to safety in the Contract area</i></p> <p>In the Contract area it is necessary to maintain order and ensure proper organization of works.</p> <p>Prior to the commencement of works, the Contractor will develop and then obtain the Engineer's approval for the following documents related to safety on the construction site (description in Chapter 6.15 of the EMP):</p> <ul style="list-style-type: none"> a) Construction site organization plan; b) Waste management plan (Waste MP); c) Quality assurance plan (general and detailed ones for particular types of works); d) Flood protection plan for the site for the performance time; e) Health and Safety Plan (BIOZ); f) Contractor's Environmental and Social Management Plan (C-ESMP). 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 2nd quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
90.	<p><i>Sapper reconnaissance and supervision in the Contract area</i></p> <p>In order to minimize the risk related to the possible occurrence of dangerous objects of military origin in the area of the Contract, the Contractor shall ensure:</p> <ul style="list-style-type: none"> a) Prior to commencement of the works – recognition in the Contract area in terms of occurrence of unexploded shells and misfires (a report with results of the aforementioned sapper recognition shall be submitted for the Engineer's acceptance); b) during the works – sapper supervision of works (carried out by the team of sappers), consisting in the ongoing checking and clearing of the Contract area of dangerous objects of military origin along with their utilization; c) in the case of finding dangerous objects of military origin in the Contract area - implementation of procedures described in item 96 - Conditions for handling unexploded ordnance or misfires . 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
91.	<p><i>Documentation and monitoring of the technical condition of buildings exposed to tremor and vibrations</i></p> <p>Before starting works during which tremors and vibrations threatening the local residents as well as nearby buildings and infrastructure facilities may occur, the Contractor will carry out an inventory of the existing buildings and facilities, with particular reference to cracks and damages.</p> <p>During the performance of the aforementioned works, the Contractor will monitor the condition of these buildings and facilities on a regular basis.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
92.	<p><i>Implementation of guidelines on work safety requirements</i></p> <p>The Contractor will ensure the implementation of detailed guidelines on work safety requirements, including in terms of:</p> <ul style="list-style-type: none"> a) development of the construction site, including hazardous areas; b) storage and transport; c) electrical installations and devices; d) machines and technical equipment; e) work at heights; f) earthworks; g) selected renovation and demolition works, contained in applicable legal regulations. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 3rd quarter of 2022 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
93.	<p><i>Ensuring hygienic conditions</i></p> <p>In the Contract area, it is necessary to ensure the necessary number of portable toilets and ensure their use by employees, as well as ensure the training of all employees in maintaining appropriate hygiene conditions within the construction site and its immediate neighborhood.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
Cat. M. Requirements on extraordinary threats to the environment		
94.	<p><i>Proceeding rules related to the flood risk</i></p> <p>In connection with the flood risk, the Contractor will prepare and submit to the Engineer's approval a document entitled: "Flood protection plan for the construction site, taking into account local hydrological and meteorological conditions in the vicinity of the construction site".</p> <p>In the event of a flood, the Contractor will follow the procedures described in the above mentioned document.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 1st quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
95	<p><i>Guidelines on notifying of emergency</i></p> <p>In the event of emergency (other than a flood), accident, breakdown, etc., the Contractor is obliged to take the following actions:</p> <ul style="list-style-type: none"> a) Immediately notify relevant services (Fire Brigade, Ambulance Service, Police, etc.); b) until the arrival of the relevant services, take the necessary actions to reduce the risk of loss of personnel, property and environment (as agreed with the relevant services if possible); c) notify the Engineer and the Employer; d) after the arrival of the relevant services, act strictly according to their guidelines and instructions. 	<p>IMPLEMENTED</p> <p>The mitigation measure was implemented in the 3rd quarter of 2022.</p> <p>No issues with implementation were identified.</p>
96.	<p><i>Guidelines for handling unexploded ordnance or misfires</i></p> <p>In the case of finding unexploded ordnance or misfires to the Contractor shall:</p> <ul style="list-style-type: none"> a) immediately stop works on the particular site; b) assure evacuation of the employees from the explosion risk area; c) immediately notify the sapper supervision team and the Police, and then follow the guidelines obtained from them; d) notify the Engineer and the Employer. <p>Under no circumstances can unexploded ordnance or live bombs be picked up, dug out, buried, relocated, thrown to fire or water, etc.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (events related to finding unexploded ordnance or misfires, referred to in item no. 96 under Appendix 1 to the EMP, were not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>
<i>Cat. N. Requirements on protection of cultural heritage</i>		
97.	<p><i>The opinion of the heritage conservator</i> [refers to the works performed on the left bank of Dłubnia (Works Contract 3A.1/1)]</p> <p>On the left bank of the Dłubnia River there is an archaeological supervision zone (Opinion of the Municipal Heritage Conservator dated April 21, 2017, ref. no.: KZ-03.4120.6.303.2017.EB); thus, the Contractor is obliged to assure archaeological supervision during the earthworks.</p>	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (the measure refers only to Contract 3A.1/1, it is not related to the scope of Contract 3A.1/2 – see also description in Chapter 2 and 2.1 in the text of this Report).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
98.	<p><i>The opinion of the heritage conservator</i> [refers to the works performed in the area of the Lasówka Fort (Works Contract 3A.1/2)]</p> <p>The Municipal Heritage Conservator (note dated November 22, 2016, ref. no.: KZ-03.4120.6.172.2016.MC) has accepted the presented design solutions that expect to:</p> <ul style="list-style-type: none"> – raise the embankment crest without its extension and without locating a pedestrian-bicycle way on the crest along the section adjacent to the fort; – apply the third type of embankment cross section along the section of the embankment in the fort area (km 2+926 – 3+144) due to conservation reason; – develop a membrane from the crest of the embankment into the ground to a depth of 6 m at km 2+925 – 3+142. <p>Moreover, to construct a part of the embankment within Fort 50a Lasówka, that is entered into the heritage register under No A-973, it will be necessary to log 3 trees that grow in the embankment body in the mentioned fort area. The additional permit was required for the above works (Permit No. 988/17 dated October 31, 2017), and it imposed additional obligations:</p> <ul style="list-style-type: none"> – works connected with logging shall be performed outside the hatching period from October 16 till the end of February; – as a replacement for logged plants 3 black locusts shall be planted (between European ash and black locust) to supplement the row along Golikówka Street, that forms a masking factor for a military lateral route leading to the Fort 50a Lasówka. The planted locusts must have well developed root systems, straight trunks of a girth of at least 16-18 cm, regularly formed crowns and other parameters following the standards used in ornamental tree nurseries; – the deadline for replacement planting is the end of 2019; – the Office of Municipal Heritage Conservator in Cracow shall be informed about completion of the works within 14 days from the performance. <p>Any works shall be carried out under archaeological supervision. The Contractor shall be obliged to comply with the arrangements ensuing from the Conservator's permit.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
99.	<p><i>The opinion of the heritage conservator</i> [refers to the works performed in the area of Wierzbowa Street (Works Contract 3A.1/2)]</p> <p>In accordance with the opinion of the Municipal Heritage Conservator dated July 19, 2017, ref. no.: KZ-03.4120.6.172.2016.MC, and with a resolution of the Podgórze Precinct Board dated 11/29/2016, ref. no.: XXXVI/404/2016, a historic shrine shall be left within the embanked area. Its location shall be slightly corrected, so it would not be placed within the embankment body.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
100.	<p><i>Providing archaeological supervision</i></p> <p>The Contractor shall be obliged to provide ongoing archaeological supervision for the time of earthworks.</p> <p>To this end, the Contractor shall:</p> <ol style="list-style-type: none"> prepare a relevant action plan in this regard; ensure the participation of a team of archaeologists who conduct ongoing supervision of earthworks; if necessary, obtain the permission required by law to conduct archaeological research from the competent heritage conservator. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
101.	<p><i>Guidelines on the conduct in the case of uncovering mobile monuments or archaeological sites</i></p> <p>If during the works an object is uncovered which may be or certainly is a historic monument or has a historical value, the Contractor is obliged to:</p> <ol style="list-style-type: none"> immediately stop any work in a given site that may damage or destroy uncovered objects; secure (by means of available sources) uncovered objects and the place where they were found against being destroyed, damaged or stolen; immediately notify the team of archaeologists and the Engineer; take further security measures, agreed with the team of archaeologists and the Engineer; facilitate and ensure carrying out documentary activities, archaeological research and other necessary activities indicated by an expert team of archaeologists and/or administrative authorities responsible for preserving the historic substance; after completing the activities and research listed in items d) and e) uncovered mobile monuments should be relocated to appropriate institutions indicated by a team of archaeological experts and/or administrative authorities responsible for protecting the historic substance (in accordance with the applicable regulations and the content of the Permit referred to in item 100 c) – Providing archaeological supervision. in the case of immobile monuments, after completing the activities and research listed in items d) and e) the guidelines should be implemented regarding further treatment of the uncovered historic substance, established by a team of archaeological experts and/or administrative authorities responsible for protecting the historic substance (in accordance with applicable regulations and the content of the Permit referred to in item 100 c) - Providing archaeological supervision). 	<p>NOT IMPLEMENTED</p> <p>It was not necessary to implement the mitigation measure within the reporting period (events related to uncovering mobile monuments or archaeological sites, referred to in item no. 101 under Appendix 1 to the EMP, were not identified in the Contract implementation period).</p> <p>Lack of implementation of the mitigation measure did not form a deviation from the conditions determined under the EMP.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. O. Requirements on the Contractor's staff engaged in the implementation of the EMP</i>		
102.	<p><i>Training of the Contractor's staff in the scope of the EMP implementation</i></p> <p>The Contractor is obliged to train their managerial and engineering and technical staff on the rules and methods of implementation of these EMP terms which, in accordance with Appendix 1 and Appendix 2 to the EMP, are assigned to the Contractor. These trainings should be completed with a test of participants' knowledge.</p> <p>In the monthly reports submitted to the Engineer, the Contractor shall provide information on the state of training of the Contractor's staff in the scope of the EMP terms of the in the current reporting period</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
103.	<p><i>Appointment of the EMP co-ordinator in the Contractor's team</i></p> <p>In the Contractor's team, a person shall be appointed to coordinate and supervise actions related to the implementation of the EMP.</p> <p>The responsibilities of the person shall include:</p> <ul style="list-style-type: none"> a) supervising the implementation of individual EMP terms in the subsequent stages of the Contract implementation; b) ongoing monitoring of the status of implementation of individual terms of Appendix 1 and 2 of the EMP in the Contract area; c) ongoing informing of the Contractor's management team on the obligations arising from the EMP at the particular stage of works, as well as on the issues arising during the implementation of the EMP; d) cooperation with the rest of the Contractor's team (including a team of environmental experts, a team of archaeologists and a sapper supervision team) in the scope of ensuring the implementation of the EMP; e) preparation of statements and reports (kick-off, monthly, quarterly, ad-hoc, final report, reports to the RDOŚ in Cracow - only to the extent resulting from the decisions obtained at the implementation stage, e.g. exceptions, if they result in the need to make the report to the authorities; f) cooperation with people responsible for the implementation of the EMP from the Engineer's team and from the Employer's team. <p>The person appointed to perform the abovementioned role shall require the Engineer's approval.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
104.	<p><i>Providing of a team of environmental experts</i></p> <p>Any works during the Contract implementation shall be performed under a constant environmental supervision.</p> <p>Throughout the whole Contract implementation period the Contractor shall provide the team of environmental experts, composed of the representatives of the following specializations:</p> <ul style="list-style-type: none"> a) botanist - phytosociologist (natural habitats and protected plant species); b) dendrologist (rule for tree care and protection); c) zoologist - an expert in the field of invertebrates; d) zoologist - herpetologist (amphibians and reptiles); e) zoologist - ornithologist (birds); f) zoologist - chiropterologist (bats); g) zoologist - theriologist (non-flying mammals). <p>Each specialist shall have carried out at least two natural supervisions in their professional carrier.</p> <p>Monthly and quarterly reports shall be prepared on the activities performed by the Environmental Team of the Contractor as part of their environmental supervision.</p> <p>The Environmental Team of the Contractor will be required over the entire duration of the implementation phase to supervise the proper performance of works in the context of their potential adverse impact on protected natural habitats and protected species, the proper place of conducting the works with the view of protected habitats and species, proper implementation of preventive measures to fauna (trapping, relocation) and all other activities in the field of environmental protection.</p> <p>These experts will be involved in the implementation of selected mitigation and monitoring measures specified in the EMP.</p> <p>The personnel composition of the team of environmental experts requires the Engineer's approval.</p> <p>One member of the team of environmental experts may combine at most two specializations listed above in items a-g.</p> <p>Being involved in the work on other OVFMP contracts or on any other projects cannot limit the availability of the experts for this Contract.</p> <p>Before the commencement of works, the Contractor will submit a Quality Assurance Plan regarding the activities of the team of environmental experts for the Engineer's approval.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
105.	<p><i>Providing a team of archaeological experts</i></p> <p>Throughout the whole Contract implementation period the Contractor shall provide the team of archaeological experts. These experts will be involved in the implementation of selected mitigation measures specified in the EMP.</p> <p>Depending on the needs, the team of archaeological experts can consist of one or more people with the appropriate professional licenses. The personnel composition of the team of archaeologists requires the approval of the Engineer. Being involved in the work on other OVFM Project contracts or on any other projects cannot limit the availability of the experts for this Contract.</p> <p>Before the commencement of works, the Contractor will submit a Quality Assurance Plan regarding the activities of the team of archaeological experts for the Engineer's approval.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
106.	<p><i>Providing of a sapper supervision team</i></p> <p>Throughout the whole Contract implementation period the Contractor shall provide the sapper supervision team. This team will be involved in the implementation of selected mitigation measures specified in the EMP.</p> <p>Depending on the needs, the team of sappers can consist of one or more people with the appropriate professional licenses. The personnel composition of the team of sappers requires the approval of the Engineer. Being involved in the work on other OVFM Project contracts or on any other projects cannot limit the availability of the experts for this Contract.</p> <p>Prior to the commencement of works, the Contractor will submit to the Engineer for approval a Quality Assurance Plan for the sapper supervision team.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
107.	<p><i>Discussing the implementation of EMP during working meetings and Site Meetings</i></p> <p>During the performance of the Contract monthly meetings of the representatives of the PIU, the Engineer and the Contractor will be held to discuss and control the implementation of mitigation and monitoring measures specified in the EMP.</p> <p>Notwithstanding the above, updated requirements and problems related to the implementation of the EMP will be discussed at all Site Meetings.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
<i>Cat. P. Requirements on reporting</i>		
108.	<p><i>Reporting the implementation status of the EMP</i></p> <p>During implementation of the Contract, the Contractor will submit monthly reports on implementation of the conditions specified in the EMP (in the form of a checklist together with the necessary attachments, including reports on the implementation of environmental supervision) to the Engineer.</p> <p>A template of the above-mentioned report (checklist) will be developed by the Contractor and submitted to the Engineer for approval.</p> <p>Depending on the circumstances, the Engineer may request the Contractor to submit additional reports regarding, among others, emerging critical situations, including accidents, and implementation of selected EMP items, etc.</p> <p>In addition, the Contractor is obliged to make a kick-off report, quarterly, ad-hoc, final reports and reports to the RDOŚ in Cracow - only to the extent resulting from the decisions obtained at the implementation stage, e.g. exceptions, if they result in the need to make the report to the authorities.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. Q. Requirements after completion of works</i>		
109.	<p><i>Cleaning works, reinstatement of the area to the initial state</i></p> <p>The area covered by the works due to the movement of machines and vehicles as well as the areas adjacent thereto should be cleaned and reinstated to its initial state.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
110.	<p><i>Topsoiling, sowing, mowing the grass</i></p> <p>After completing the construction works, all of the earth surface will be top-soiled and sown with grass in accordance with the activities detailed in item 56 - Reinstatement of a topsoil layer and green areas and tidying up the site after completion of works and in item 57 – Caring for grasslands.</p> <p><u>During the performance and the use of the Works Contract</u> one shall provide curing measures within sites sown with grass mix, which include e.g. mowing twice a year, and removal of hard lichens. This measure covers the performance period, as well as the Defects Notification Period and the Warranty Period.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 2nd quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
111.	<p><i>Management, maintenance, repairs of roads</i></p> <p>The Contractor is obliged to remove defects/damages to roads used under this Contract during the Contract Implementation Period.</p> <p>During the operating period, roads and technological lanes must be properly maintained/managed through appropriate winter care for the road in accordance with the existing weather conditions. Gravel/dirt roads – unevenness should be levelled, if necessary.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 3rd quarter of 2022 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. R. Remaining ESHS requirements</i>		
112.	<p><i>Obligation to observe ESHS requirements and conditions</i></p> <p>The Contractor shall be obliged to apply and observe all ESHS policy requirements and conditions (the ones related to environmental, social and health and safety issues) as determined in the Contract documents, in the WBG's Environmental, Health and Safety (EHS) Guidelines (see: description in Chapter 6.14 of the EMP), in the ESHS Code of Conduct (developed on the stage of filing a bid – see: description in Chapter 6.14 of the EMP), in documents of the Contractor listed in item no 89 (above); and as results from the legal acts binding in the territory of Poland (including the Labour Code, the Construction Law, and others).</p> <p>The ESHS requirements and conditions determined in reference to the Contractor and its personnel in the aforementioned sources (regardless of the legal cooperation form) are also valid in the scope relevant for a given case for Contractor's subcontractors and their personnel and their subcontractors.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
113.	<p><i>Assurance of safety in case of accidents at work</i></p> <p>The Contractor shall be obliged to assure such conditions for implementation of the Contract (including performance conditions) to avoid accidents engaging any people associated with implementation of the Contract (including the staff of e.g.: the Contractor, the Engineer, the Investor, the PCU, subcontractors, suppliers, and others) and third parties.</p> <p>In case an accident occurs the Contractor shall immediately assure proper treatment for injured people, notify relevant services and provide them with access to the site, and secure the place in a way assuring safety to the aforementioned services and other people, who may be present in the area of the event.</p> <p>Regardless of the aforementioned actions the Contractor shall immediately inform the Engineer about all accidents and near misses related to implementation of the Contract (both: on site, as well as in any other location), in accordance with binding procedures determined in the Contract documents (see: item no. 120).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 1st quarter of 2021 and in the 3rd quarter of 2022 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
114.	<p><i>Provision of H&S Expert in the Contractor's team</i></p> <p>The Contractor shall be obliged to assure a permanent H&S supervision throughout the performance, and the supervisor shall take care for observing the H&S rules determined in the Contract documents and in the binding provisions of national law. Members and qualifications of the H&S supervising team need to be in compliance with Polish provisions of the labour law.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
115.	<p><i>Educational actions related to H&S rules and regulations</i></p> <p>The H&S Supervising team shall implement trainings and an awareness programme for the Contractor's staff in reference to the H&S rules and regulations on site.</p> <p>Those actions shall be implemented throughout the performance period, at least once per 12 months.</p> <p>They shall take a form of informational, educational and awareness campaigns related to H&S issues in the scope corresponding with the current stage of Contract implementation.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
116.	<p><i>Assurance of safety for people in case of sexual harassment and mobbing</i></p> <p>The Contractor shall be obliged to assure such conditions of Contract implementation to avoid cases of sexual harassment or mobbing towards the Contractor's personnel and subcontractors, any other people associated with implementation of the Contract, and any third parties.</p> <p>If cases of sexual harassment or mobbing occur, the Contractor shall undertake measures to immediately stop the aforementioned behavior, and subsequently it shall immediately take disciplinary measures determined by the law and internal regulations of the company in relation to perpetrators, and shall provide the victims of such behavior with any necessary help and support in the scope corresponding with the case.</p> <p>Regardless of the aforementioned actions the Contractor shall immediately inform the Engineer about any cases of sexual harassment or mobbing, in accordance with binding procedures determined in the Contract documents (see: item no. 120).</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
117.	<p><i>Educational actions to prevent cases of sexual harassment and/or mobbing</i></p> <p>The Contractor shall implement trainings and an awareness programme for the Contractor's Staff in reference to the prevention of cases of sexual harassment and mobbing. Those actions shall be implemented throughout the performance period, at least once per 12 months.</p> <p>They shall take a form of informational, educational and awareness campaigns related to sexual harassment and mobbing.</p> <p>The measures shall be implemented by an expert having proper substantial qualifications in that scope, who would remain a member of the Contractor's team.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
118.	<p><i>Assurance of proper conditions of work and payment for the personnel</i></p> <p>The Contractor shall be obliged to secure proper conditions of works and payment for the personnel associated with implementation of the Contract, fully in accordance with provisions of the labour law binding in Poland (and especially with the Labour Code), including the following, e.g.:</p> <ul style="list-style-type: none"> – the Contractor shall assure equal treatment in case of payment for the employees performing the same work, without consideration of sex, sexual orientation, and age; – people employed at the Contract shall not be harassed due to sex, sexual orientation and age; – the Contractor may employ only such a young employee, who is 15 years old, completed at least 8-years of primary school, and provided a doctor's statement confirming that a work of a given type is not risky for his/hers health; – the Contractor – adequately to the potential and conditions, and in accordance with Polish provisions of the Labour Code – shall secure the living and social needs of the employees on the work site; – the Contractor shall be obliged to facilitate the employees in improving their professional qualifications. 	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
119.	<p><i>Educational actions related to the provision of claims referring to the conditions of work and payment</i></p> <p>The Contractor shall inform all people employed due to implementation of the Contract about a possibility of providing claims related to the conditions of work and payment, and shall develop an information leaflet with necessary data on provision of claims and applications, in which it would assure about e.g. the absence of repercussion for a person notifying about an issue; and that leaflet would be provided to those people.</p> <p>Contents of the aforementioned leaflet shall be agreed with the Engineer.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
120.	<p><i>Development and implementation of procedures related to the ongoing provision of information on ESHS issues</i></p> <p>In the period not longer than 30 days from the commencement date of the Contract, the Engineer shall develop and provide the Contractor with a set of procedures related to the ongoing provision of information related to the following:</p> <ul style="list-style-type: none"> – exceptional hazards (i.e. emergency and crisis situations discussed in section 5.12 of the EMP); – accidents and near misses; – cases of sexual harassment and mobbing; – claims of the personnel related to the conditions of work and payment. <p>The Contractor shall immediately inform the Engineer about any issues in that scope, in accordance with the conditions determined under the valid contractual procedures.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>In the 1st quarter of 2021 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
121.	<p><i>Guidelines on HIV – AIDS prevention</i></p> <p>The Contractor shall, via an approved service provider, implement a program to raise awareness of HIV-AIDS type diseases (including appropriate training) and will take all other measures to reduce the risk of HIV spreading among the Contractor's personnel and the local community. These activities should be performed in accordance with the detailed guidelines set out in the Contract Bidding Documents.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>
<i>Cat. S. Requirements related to demolition of engineering objects and fences</i>		
122.	<p><i>Environmental protection in the performance area</i></p> <p>The Contractor shall be obliged to include environmental protection in the performance area, and especially the protection of soil, greenery, natural lay of land, and water relations.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>From the 1st quarter of 2021 to the 3rd quarter of 2023 issues with implementation of the measure were identified, as described in chapter 4.4 of this Report.</p>
123.	<p><i>Limitation of using and transforming the environmental elements</i></p> <p>At the performance it is allowed to use and transform the environmental elements only to such an extent that is necessary to provide demolition of engineering objects and fences.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Item	Mitigation measures listed in Appendix 1 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
124.	<p><i>Removal of damages</i></p> <p>If the protection of environmental elements is not possible, the Contractor shall be obliged to repair the damage done.</p>	<p>IMPLEMENTED</p> <p>Implementation of the mitigation measure commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Part II. Check List for implementation of monitoring measures listed in Appendix 2 to the EMP for Contract 3A.1/2

This part of Appendix no. 1 to the *Final Report on implementation of measures determined in the Environmental Management Plan (EMP)* for Contract 3A.1/2 presents a check list for implementation of monitoring measures listed in Appendix 2 to the EMP within the reporting period.

In case of Contract 3A.1/2 the monitoring measures given in Appendix 2 to the EMP refer to the implementation monitoring for particular 124 mitigation measures given in Appendix 1 to the EMP only.

Table 2. Check List for implementation of monitoring measures listed in Appendix 2 to the EMP for Contract 3A.1/2.

Item	Monitoring measures according to Appendix 2 to the EMP	Implementation status in the reporting period
(1)	(2)	(3)
1.-124.	<p><i>Monitoring of implementation for mitigation measures listed in Appendix 1 to the EMP</i></p> <p>Monitoring of implementation for 124 mitigation measures listed in items 1-124 under Appendix 1 to the EMP.</p> <p><i>Detailed guidelines for implementation of this measure, given in Appendix 2 to the EMP in items 1-124:</i></p> <p><u>Subject of monitoring</u></p> <p>In conformity with descriptions given in items 1-124 under Appendix 2 to the EMP.</p> <p><u>Place of monitoring</u></p> <p>In conformity with descriptions given in items 1-124 under Appendix 2 to the EMP.</p> <p><u>Methods of monitoring</u></p> <p>In conformity with descriptions given in items 1-124 under Appendix 2 to the EMP.</p> <p><u>Period and frequency of monitoring</u></p> <p>In conformity with descriptions given in items 1-124 under Appendix 2 to the EMP.</p> <p><u>Unit responsible for monitoring</u></p> <p>In conformity with descriptions given in items 1-124 under Appendix 2 to the EMP.</p>	<p>IMPLEMENTED</p> <p>Implementation of the monitoring measures commenced in the 1st quarter of 2021 and was continued until the end of the reporting period.</p> <p>No issues with implementation were identified.</p>

Part III. Quantitative summary of implementation of measures listed in Appendix 1 and 2 to the EMP for Contract 3A.1/2

This part of Appendix no. 1 to the *Final Report on implementation of measures determined in the Environmental Management Plan (EMP)* for Contract 3A.1/2 presents a quantitative summary of implementation of measures listed in Appendix 1 and 2 to the EMP within the reporting period.

Table 3. Quantitative summary of implementation of measures
 listed in Appendix 1 and 2 to the EMP for Contract 3A.1/2.

Category	Mitigation measures (items no. 1-124 under Appendix 1 to the EMP)		Monitoring measures (items no. 1-124 under Appendix 2 to the EMP)	
	N	Item no.	N	Item no.
Measures implemented in the reporting period	110	items no. 1-11, 13, 14, 17, 18, 20-32, 34, 35, 37-39, 41-49, 52-72, 74, 76-95, 98-100, 102-124	124	items no. 1-124
Measures not implemented in the reporting period (there was no need to implement)	14	items no. 12, 15, 16, 19, 33, 36, 40, 50, 51, 73, 75, 96, 97, 101	0	—