

Appendix 1 – Plan of mitigation measures

This appendix to the Environmental Management Plan (EMP) for the Task **2A.2/2 Construction of "Krosnowice" – a dry flood control reservoir on Duna stream** describes the conditions for implementing the Task concerning the mitigation measures, which reduce its negative impacts on the environment. The costs of these measures and schedule of implementation should be included in the Offer.

The conditions described in Appendix 1 of the EMP are grouped in the following categories:

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A.	Requirements concerning the scheduling of works	1-2
B.	Requirements concerning the communication service of the <i>Task implementation area</i>	3-4
C.	Requirements concerning the location of site facilities as well as technological roads and yards	5-6
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V.	Requirements concerning reporting of EMP implementation	121-123

Explanations of the table in Appendix 1 of the EMP:

- 1) unless otherwise stated in a particular case, the term ***Task implementation area*** means the area of performing any preparatory works, essential works (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed during the Defects Notification Period, together with the lands subject to temporary acquisition.
- 2) unless otherwise stated in a particular case, the term ***Task implementation period*** means the duration of any preparatory works, essential works execution (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed in the Defects Notification Period.

Item	Issue	Place	Mitigation measure	Entity
A. REQUIREMENTS CONCERNING THE SCHEDULING OF WORKS				
1.	Work Schedule	<i>Task implementation area</i>	<p>The EMP conditions on the deadlines of the works</p> <p>When determining the work schedules and at the stage of their implementation, it is necessary to take into account the conditions of the EMP regarding the deadlines and time for conducting various types of works, including:</p> <ul style="list-style-type: none"> a) periods of notice and the site inspection of the fishing user (see item 39); b) permissible dates of works in riverbeds (see item 42); c) permissible dates for the first passage of water through the tunnel in the reservoir dam (see item 56); d) permissible hours of the works performance (see item 85); e) permissible dates for topsoil removal (see item 11 clause b); f) permissible dates for felling of trees and shrubs (see item 12, 15); g) permissible dates for tree and shrub stump extraction on the slopes of riverbed (see item 16); h) dates of environmental supervision inspections before felling of trees (see item 15); i) completion date for felling of trees and shrubs (see item 17); j) dates of environmental supervision inspections before demolition of residential and utility buildings (see item 29); k) dates of inspections relating to ensuring the safety of small animals at the construction site (see item 31, 32); l) arrangement of dates for carrying out reinstating works (see item 58); m) dates of execution of maintenance works in the reservoir basin (see item 64); n) permissible time of storage of water in the reservoir (see item 59); o) dates for mowing of meadows in the reservoir area (see item 68); p) dates for planting woods and shrubs (see item 110); r) dates for the hanging boxes for birds (see item 111); s) dates for the hanging boxes for bats (see item 112); t) validity dates of permits under the RDOŚ decisions permitting derogation from plant and animal species protection prohibitions (see item 113, 114); u) dates for the reporting of the EMP implementation (see item 121, 122, 123). 	Contractor

Item	Issue	Place	Mitigation measure	Entity
2.	Work Schedule	Task implementation area along with access roads and their surroundings	<p><i>The EMP conditions on the actions to be executed before or at the initial stage of work</i></p> <p>When determining the work schedules and at the stage of their implementation, it is necessary to take into account the conditions of the EMP on the actions to be executed before or at the initial stage of work, including:</p> <ul style="list-style-type: none"> a) conditions for the implementation and fitting out the site facilities as well as roads and technological yards (see item 5, and also item 71, 74, 75, 76, 77, 78, 80, 81, 82, 91, 94, 95, 96, 101, 102); b) conditions for communication service of the construction site (see item 3, 4); c) conditions concerning the examination of quality (pollution) of land and river sediments (see item 7); d) condition concerning the removal and protection of topsoil layer (see item 11); e) condition for protection of trees and shrubs not planned for felling (see item 18); f) condition relating to the performance of nature inventories (see item 25, 26); g) condition relating to the protection of the borders of habitats (see item 27); h) condition relating to the replanting specimens of protected plants (see item 28); i) condition relating to the protection of the construction site against entering by small animals (see item 31); j) condition for notification and site inspection of the fishing user (see item 39); k) conditions for the development of selected documents (see item 8, 58, 93, 98, 104, 108, 110, 111, 112, 117, 118, 119, 121); l) conditions concerning the documentation of the technical state of buildings and infrastructure (see item 3, 100); m) condition concerning the military engineer recognition of the construction site (see item 99); n) condition concerning the inventory of illegal landfill sites (see item 97); o) condition relating to the obtainment of the opinion of the heritage conservator (see item 107); p) condition relating to the approval of the Engineer for the coordinator of EMP implementation and composition of the team of environmental experts, team of archaeology experts and the team of military engineering supervision (see item 116, 117, 118, 119). r) condition relating to training on the principles of the EMP implementation (see item 115). 	Contractor

Item	Issue	Place	Mitigation measure	Entity
B. REQUIREMENTS CONCERNING COMMUNICATION SERVICE OF THE TASK IMPLEMENTATION AREA				
3.	Protection of human health and safety, protection of material goods, protection of the earth's surface	Access roads to the <i>Task implementation area</i> along with their surroundings	<p>Conditions for the use of access roads to the <i>Task implementation area</i></p> <p>In the scope of the use of access roads to the <i>Task implementation area</i> the following conditions apply:</p> <ul style="list-style-type: none"> a) Access to the <i>Task implementation area</i> should be determined on the basis of existing roads; b) The Contractor shall ensure proper markings of all access roads to the <i>Task implementation area</i> in accordance with applicable law and as agreed with the relevant Road Authorities. These markings will be monitored regularly, and in the case of damage or theft, the Contractor shall immediately restore or supplement these markings; c) The Contractor shall ensure the protection of people against increased vehicular traffic on roads used during the construction work. During the implementation of the Task, the Contractor shall provide, install and maintain all temporary protection devices, thus ensuring the safety of vehicles and pedestrians; d) Hardened surfaces (e.g. access roads), over which the vehicular traffic transporting building materials and aggregates will take place, should be kept in due technical condition; e) The Contractor shall apply to statutory restrictions for the axle load at the transport of materials to and from the <i>Task implementation area</i>. The Contractor shall obtain all necessary permits for the transport of atypical loads and continuously notify the Engineer of any such carriage; f) The Contractor shall be responsible for all damage to buildings and structures, roads, drainage ditches, culverts, water and gas pipes, poles and power lines, cables, points of geodetic control network and installation of any kind, and objects of another kind as horizontal and vertical marking, navigation marking, signage, cultural objects, etc., caused by him or his Subcontractors within the <i>Task implementation period</i>. The Contractor is also responsible for restoring the flow capacity of ditches and drainage systems in the area of works and used transport roads in the event of damage caused by construction works and transport connected with the works. The Contractor shall immediately repair any resulting damage at his own expense and, if necessary, carry out other work ordered by the Engineer; g) The Contractor is required to prepare the photographic documentation of the whole <i>Task implementation area</i> and access roads, with particular emphasis on the technical condition of the roads and buildings located near the road of transport of construction materials; h) Prior to the works, the Contractor shall carry out the site inspections in the presence of Road Authorities, which shall be followed by protocols on the condition of access roads to the <i>Task implementation area</i>. On this basis, the Contractor shall be obliged to restore the technical condition of the roads from before the <i>Task implementation period</i>; i) The Contractor is obliged to agree the traffic and work protection designs with the Road Authorities. The Contractor is obliged 	Contractor

Item	Issue	Place	Mitigation measure	Entity
			<p>to carry out the traffic organization according to the agreed designs (marking and securing the <i>Task implementation area</i> and marking detours and recommended road marking connected with a change of traffic organization, etc.);</p> <p>j) Prior to the works, the Contractor shall submit the traffic organization and work protection designs agreed with the Road Authorities to the Engineer for approval. Depending on the needs and progress of works the designs of road traffic changes shall be updated by the Contractor on a regular basis.</p>	
4.	Protection of material goods, protection of the earth's surface, protection of water, protection of biotic nature	Access roads to the <i>Task implementation area</i> along with their surroundings	<p>Additional conditions for access roads to the <i>Task implementation area</i></p> <p>Transport of materials and traffic of vehicles, machines and equipment supporting the construction process should be carried out, in the first place, on existing public roads, forest roads or dirt roads.</p> <p>If it is necessary to execute an additional access road to the <i>Task implementation area</i>, it should be designated in the form of as short a section as possible, outside natural habitats mentioned in item 27.</p> <p>Temporary pavements made of slabs or boards should be placed at the route of the aforementioned access road and removed after the completion of works (see also item 58 clause 1).</p>	Contractor
C. REQUIREMENTS CONCERNING THE LOCATION OF SITE FACILITIES AS WELL AS TECHNOLOGICAL ROADS AND YARDS				
5.	Protection of water and soil, protection of biotic nature	<i>Task implementation area</i>	<p>Obligation to prepare site facilities as well as technological roads and yards</p> <p>Before starting the construction works, it is necessary to perform site facilities, technological roads and yards.</p> <p>Site facilities are to serve for storage of building materials, garage, refuelling and current repairs of vehicles, machinery and devices, location of social facilities (changing rooms, office, workshop, portable sanitary cabins) and waste containers.</p> <p>Equipment of site facilities should meet, among others, conditions set out in item 71,74, 75, 76, 77, 78, 80, 81, 82, 91, 94, 95, 96, 101, 102.</p> <p>When planning the above components of the construction site, it is necessary to ensure limitation of their area to a minimum.</p>	Contractor
6.	Protection of biotic nature, protection of water	<i>Task implementation area</i>	<p>Conditions for location of site facilities as well as technological roads and yards</p> <p>Site facilities as well as technological roads and yards should be located:</p> <ul style="list-style-type: none"> a) outside the areas covered with high greenery (trees, shrubs) intended to be preserved in the civil engineering design; b) outside the area of identified nature habitats (see also item 27) and habitats and sites of protected species destined to be preserved in the civil engineering design; c) outside the reach of flood water with flooding probability $Q_p=0,2\%$; d) outside the protection zones of groundwater intakes; e) in sites ensuring the absence of noise impacts on acoustically protected areas; 	Contractor

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			<p>f) at a distance of not less than 100 m from existing water courses, reservoirs and wetland sites (for site facilities);</p> <p>g) at first, it is necessary to consider the location of site facilities at the area adjacent on the south to the planned cascade (sluice), downstream the reservoir dam (in accordance with environmental documentation presented to RDOŚ in Wrocław at the stage of obtaining the environmental decision).</p> <p>Designed locations of site facilities as well as roads and technological yards should be agreed with a team of environmental experts, referred to in item 117 (including <i>i.a.</i> a phytosociology expert) and submitted, together with the above arrangements, to the Engineer for approval.</p>	
D. REQUIREMENTS CONCERNING QUALITY AND USE OF LANDS				
7.	Protection of water and soil	<i>Task implementation area</i>	<p>Examination of quality (state of pollution) of land on the Task implementation area</p> <p>Prior to the commencement of earthworks, it is necessary to perform the quality examination (pollution status) of land on the <i>Task implementation area</i> (including earth mass outside the riverbeds of watercourses and sedimentation in riverbeds of watercourses), designed to:</p> <p>a) development within the boundaries of the construction site (including the use for construction purposes), or</p> <p>b) removal out of the boundaries of the construction site.</p> <p>The aim of the examination is to:</p> <p>a) determine the possibilities of these land use within the boundaries of the construction site, in accordance with applicable regulations, and</p> <p>b) establish an acceptable method of dealing with the land not usable within the construction site boundaries.</p> <p>The examination should be performed in accordance with current regulations, including the <i>Waste Act</i>, <i>Environmental Protection Law</i> and implementing acts to the above laws.</p> <p>The examination should be carried out by accredited laboratory, approved by the Engineer.</p> <p>Before starting the examination, the Contractor shall submit the methodology of planned examination to the Engineer for approval.</p>	Contractor
8.	Protection of water and soil	<i>Task implementation area</i>	<p>Use of lands coming from the construction site</p> <p>Lands located on the construction site (including the earth mass outside the watercourse riverbeds and the settlement of watercourse riverbeds) should be used at the construction site in the first place. The remaining excess land should be used in accordance with the applicable regulations and the design documentation (see also item 10). The procedure for the waste land should be presented in the <i>Plan of waste management</i>, developed by the Contractor and submitted to the Engineer for approval before the commencement of works (according to item 93).</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
9.	Protection of water and soil	<i>Task implementation area</i>	<p>Requirements for land and aggregates coming from the outside of the construction site</p> <p>Land (including the earth mass) and aggregate used for construction works, and coming from outside the construction site, shall meet the requirements for soil quality standards and earth quality standards (in accordance with the <i>Environmental Protection Law</i> and its implementing acts), as well as in all other applicable regulations and standards (including the conditions of the item 69 of Appendix 1 EMP).</p>	Contractor
10.	Protection of water and soil	<i>Task implementation area</i>	<p>Management of unused earth masses</p> <p>Earth masses not built into the dam should be used for land grading, including the area from which the earth masses were obtained (except for the rubble settling tank and other locations intended for leaving in the design documentation).</p> <p>[see also item 58 clause 2]</p>	Contractor
E. REQUIREMENTS CONCERNING HANDLING OF TOPSOIL				
11.	Protection of soil, protection of biotic nature	<i>Task implementation area</i>	<p>Removal, storage, and use of topsoil</p> <p>In order to protect topsoil in the <i>Task implementation area</i>:</p> <ul style="list-style-type: none"> a) remove at least 0.2 m of fertile soil (referred to as topsoil) prior to commencement of any construction works in individual parts of the <i>Task implementation area</i> (this condition applies to all locations in the <i>Task implementation area</i> where the existing topsoil layer could become degraded in relation to works, movement, and maintenance of machinery and devices, storage of materials etc.); b) works related to the removing of topsoil should be carried out in the period from August 15th to March 15th; c) the removed topsoil should be stored in heaps not wider than 3 m and not higher than 1.5 m; d) the removed topsoil should be stored within the boundaries of the <i>Task implementation area</i> (optimum – within the area of site facilities). Detailed location of topsoil heaps should be agreed in advance with the environment expert board referred to in item 117 (including a phytosociology expert) so that storage of topsoil does not result in degradation of natural habitats and natural conservation sites for protected species and does not have a negative impact on health of trees and shrubs (see the condition in item 19); e) stored topsoil heaps should be protected from damage, running over, thickening, storage of construction materials, etc.; f) stored topsoil heaps should be regularly sprinkled with water depending on the weather (never allow the heaps to become dry for over 5 days) and protected against freezing (e.g. using straw mats for this purpose); g) after completion of construction works, stored topsoil should be used to restore the layer of fertile soil as per the conditions specified in item 58 of the table. 	Contractor

Item	Issue	Place	Mitigation measure	Entity
F. REQUIREMENTS CONCERNING TREES AND SHRUBS FELLING				
12.	Protection of biotic nature	<i>Task implementation area</i>	<p>Permissible dates for felling of trees and shrubs</p> <p>Felling of trees and shrubs should be done only between August 15th and March 15th.</p>	Contractor
13.	Protection of biotic nature	<i>Task implementation area</i>	<p>Permissible places for felling of trees and shrubs</p> <p>Felling of trees and shrubs should be performed only within the zone of flooding probability $Q_p=10\%$ and in the places of facilities intended for construction (dam, new river bed, shore bands).</p>	Contractor
14.	Protection of biotic nature	<i>Task implementation area</i>	<p>Environmental supervision in determining trees to felling</p> <p>Determination of trees to be felled in the <i>Task implementation area</i> should be carried out under the supervision of a phytosociologist expert (referred to in item 117), in order to preserve as much of individual patches of natural habitats.</p>	Contractor
15.	Protection of biotic nature	<i>Task implementation area</i>	<p>Environmental supervision prior to and during clearance of trees of circumference at breast height above 40 cm</p> <p>The following rules apply to removal of trees of circumference at breast height above 40 cm:</p> <ul style="list-style-type: none"> a) clearance of trees of circumference at breast height above 40 cm should be preceded by an inspection of the trees for the presence of protected bats and invertebrates carried out by an expert entomologist and chiropterologist (referred to in item 117), not longer than 1 week prior to removal of a given tree; b) if presence of protected invertebrate and/or bat species is confirmed in trees to be felled, the above-mentioned experts shall indicate permissible felling dates and procedures for handling wood inhabited by protected animal species. Felling dates agreed with the above-mentioned experts should not violate the conditions specified in item 12 (for trees in which the presence of bats was found, the optimum felling period is from September 1st to October 31st); c) trees of circumference at breast height above 40 cm will be felled under direct supervision of the above-mentioned expert entomologist and expert chiropterologist; d) should any presence of protected invertebrate and/or bat species specimens be confirmed in trees subject to felling, the above-mentioned experts shall specify procedures for handling wood inhabited by the protected animal species and procedures to limit mortality rate of any found protected animal specimen; e) the transfer of specimen of protected invertebrates species and/or bats from trees intended for felling and/or from trees subject to felling may be done only under direct supervision of the aforementioned experts – entomologist and chiropterologist; f) should any presence of protected invertebrate and/or bat species be confirmed in trees to be felled and/or in trees being felled, obtain a legally required administrative decision for derogation from prohibitions regarding protected animal species (if required in each case). <p>Information on the implementation of this measure shall be trans-</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
			mitted in accordance with the conditions specified in item 122 and 123. [see also item 114 clause 9]	
16.	Protection of biotic nature	<i>Task implementation area</i>	<i>Permissible tree and shrub stump extraction period and conditions on the slopes of riverbed</i> Stumps of felled trees and shrubs under regulation growing on slopes of stream riverbeds should be carried out in the period from June 1 st to the end of February (i.e. beyond the period from March 1 st to May 30 th), and optimum – in the period from June 1 st to August 30 th . The aforementioned works should be performed under the supervision of an expert ichthyologist (referred to in item 117).	Contractor
17.	Protection of biotic nature	<i>Task implementation area</i>	<i>Completion date for felling of trees and shrubs</i> All works related to felling of trees and shrubs in the <i>Task implementation area</i> (including extraction of stumps and removal of wood) should be completed within the first 12 months following commencement of the Part of Contract involving implementation of the Task (within periods referred to in items 12 and 16).	Contractor
G. REQUIREMENTS CONCERNING PROTECTION OF TREES AND SHRUBS NOT INTENDED TO BE CLEARED				
18.	Protection of biotic nature	<i>Task implementation area</i>	<i>Protection of stumps of trees not intended to felling</i> Prior to commencement of any construction works, the stumps of trees exposed to mechanical damage should be protected with wooden boards to a height of 2-3 m from the ground level (bottom of the boards is to be based on the substrate). Between the boards and the surface of the tree trunk, place the flexible material (e.g. thick straw mats), protecting the stump against abrasion by boards. Boards must be attached to the stump (e.g. with the bands of wire or steel tape), in a manner that does not damage the tree. In the <i>Task implementation period</i> the condition of protection of tree trunks exposed to damage should be controlled on regular basis and the protections should be kept in duly condition.	Contractor
19.	Protection of biotic nature	<i>Task implementation area</i>	<i>Protection of areas below tree and shrub crowns</i> Construction works should be carried out in a manner not damaging trees and shrubs not intended to be cleared. The following are forbidden within 1 meter from the projection of tree or shrub crown not intended to be cleared: a) establishing technological roads, yards, parking spots, and other elements that could affect soil compaction and change in aeration; b) vehicles, machinery and devices traffic, stopping, and parking; c) storage of earth mass (including topsoil) and construction materials (in particular loose materials).	Contractor

Item	Issue	Place	Mitigation measure	Entity
20.	Protection of biotic nature	<i>Task implementation area</i>	<p>Preventive cutting the tree branches exposed to damage</p> <p>In the case of boughs and branches exposure to mechanical damage by working or moving vehicles, machinery and equipment, preventive cuts of tree branches exposed to breakage should be performed. These cuts – performed under the supervision of an expert dendrologist (referred to in item 117) - cannot disturb the natural habit of the trees (they cannot cover more than 1/3 of the green mass of trees), maintaining stability and statics of trees (range of cuts must be uniform at each side of the crown).</p>	Contractor
21.	Protection of biotic nature	<i>Task implementation area</i>	<p>Maintenance of ground level in immediate vicinity of tree trunks</p> <p>Should earth works be carried out in immediate vicinity of trees, ground level at least 1.5–2.0 m from trunk should remain unchanged. Any ground level differences further from the trunk should be secured with a retaining wall or reinforced slope of increased angle.</p>	Contractor
22.	Protection of biotic nature	<i>Task implementation area</i>	<p>Works within tree and shrub root mass</p> <p>Any works within tree and shrub root mass should be carried out by hand, maintaining the following conditions:</p> <ul style="list-style-type: none"> a) do not cut the coarse roots (with a diameter above 4 cm); b) excavations should be carried out not closer than 2 m from the trunk; c) minimize the time of exposure of roots to drying (under the conditions referred to in item 23). 	Contractor
23.	Protection of biotic nature	<i>Task implementation area</i>	<p>Preservation of exposed tree and shrub roots</p> <p>Exposed roots of trees and shrubs should be covered, for example with straw or jute mats. At positive temperatures, the mats should be watered (to prevent roots drying). At negative temperatures, the mats should be kept dry (to prevent root frost penetration).</p>	Contractor
24.	Protection of biotic nature	<i>Task implementation area</i>	<p>Preservation of damaged trees and shrubs</p> <p>Should any aerial parts of trees or shrubs not intended for felling become damaged, necessary maintenance works appropriate for the location and type of damage should be immediately implemented. In the case of damaged roots, cut away damaged tips and treat the root with an antifungal agent. The above-mentioned activities should be performed upon agreement with the environment expert board (referred to in item 117). Following the activities an opinion of the board as regards correctness of the actions should be presented to the Engineer for acceptance.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
H. REQUIREMENTS CONCERNING SECURING OF THE PROTECTED NATURAL RESOURCES				
25.	Protection of biotic nature	<i>Task implementation area</i>	<p>One-time environmental stock-taking within the works area before works commencement</p> <p>Before the works begin a one-time environmental stock-taking within the <i>Task implementation area</i> shall be carried out (at least within the areas scheduled for full or partial cut down of trees for the purpose of construction works, according to the design documentation), prepared by environmental experts team referred to in item 117. The purpose of the stock-taking is to determine the current distribution of the natural habitats and habitats and sites of protected flora and fauna species, including on-going verification of information regarding this subject and included in the <i>Environmental Impact Report</i> elaborated in 2014 (along with later amendments to this report).</p> <p>In the case of detecting natural habitats, habitats or sites of protected fauna and flora species within the <i>Task implementation area</i> the following actions should be executed:</p> <ul style="list-style-type: none"> a) in case of natural habitats – discuss further actions with the relevant expert of the environmental team (referred to in item 117), and forward the results of the arrangements to the Engineer for approval; b) in case of habitats or sites of protected species – execute actions referred to in item 38. 	Contractor
26.	Protection of biotic nature	<i>Task implementation area</i>	<p>Control of the Task implementation area with respect to the presence of the shelters of otter and beaver</p> <p>Prior to the commencement of works the control of the <i>Task implementation area</i> should be carried out with respect to the presence of shelters (including dens) of otter and beaver, carried out by an expert teriologist (referred to in item 117).</p> <p>In case of ascertainment, within the <i>Task implementation period</i>, the presence of used shelters (including dens) of the aforementioned animal species, the following should be done:</p> <ul style="list-style-type: none"> a) the places of occurrence of shelters of the aforementioned animal species should be marked and protected against damage, in a manner agreed with the aforementioned expert teriologist (arrangement results to be submitted to the Engineer for acceptance); b) the method of carrying out further works in the vicinity of the places of occurrence of shelters of the aforementioned animal species to be agreed with the aforementioned expert teriologist (arrangement results to be submitted for the Engineer's acceptance). 	Contractor

Item	Issue	Place	Mitigation measure	Entity
27.	Protection of biotic nature	<i>Task implementation area</i>	<p>Marking the boundaries of the patches containing natural habitats</p> <p>Before the works begin, boundaries of patches containing natural habitats to be left intact (at the <i>Task implementation area</i> and with-in its near vicinity) should be set down and marked with the participation of the expert phytosociologist, referred to in item 117 (according to the information contained in the <i>Environmental Impact Report</i> and results of the one-time environmental stock-taking referred to in item 25), including <i>i.a.</i>:</p> <p>a) *91E0 – <i>Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)</i>,</p> <p>b) 9170 – <i>Galio-Carpinetum oak-hornbeam forests (Galio-Carpinetum, Tilio-Carpinetum)</i>.</p> <p>Within the aforementioned natural habitats site facilities, technological roads or yards cannot be located and materials cannot be stored there (see also item 6).</p> <p>Within the <i>Task implementation period</i> these patches must be secured against destruction, damage, contamination, traffic of vehicles, machinery and devices, and free access of persons in connection with the works (e.g. by establishing marked fences).</p> <p>Throughout the whole <i>Task implementation period</i> the condition of the protective measures of the patches containing the habitats should be inspected on a regular basis (at least once a month) and possible damages should be removed. These inspections should be carried out with the participation of the aforementioned expert phytosociologist.</p> <p>Information on the performance of this action shall be transmitted in accordance with the conditions specified in item 122.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
28.	Protection of biotic nature	<p><i>Task implementation area</i> within the stripes with the width of 300 m along the banks of streams: Duna Dolna [in km 0+000-3+400] and Duna Górna [in km 0+000-1+400]).</p>	<p>Replanting specimens of 3 protected species of plants listed in the decision of the RDOŚ in Wrocław dated on 13.06.2016.</p> <p>Prior to the commencement of works at the locations listed below:</p> <ul style="list-style-type: none"> ➤ within the stripes with the width of 300 m along the banks of the stream Duna Dolna, in km 0+000-3+400; ➤ within the stripes with the width of 300 m along the banks of the stream Duna Górna (Topolica) at the section from km 0+000 to km 1+400; <p>the specimens of the following 3 species of protected plants listed below should be replanted in a place appropriate as to habitat and beyond the reach of the work impact:</p> <ol style="list-style-type: none"> a) oxlip <i>Primula elatior</i> – up to 50% out of 200 specimen growing in 7 ocatons at the aforementioned areas, in places exposed to damage as a result of the Task implementation; b) spring snowflake <i>Leucoium vernum</i> –up to 50% out of 200 specimen growing in 5 locations at the aforementioned areas, in places exposed to damage as a result of the Task implementation; c) wild garlic <i>Allium ursinum</i> – up to 50% out of 1000 specimen growing in 6 locations at the aforementioned areas, in places exposed to damage as a result of the Task implementation. <p>Replanting of the aforementioned plant species should be done not later than by December 31st, 2020.</p> <p>Not later than 30 days from the <i>Commencement Date</i>, the Contractor shall submit the <i>Quality Assurance Plan</i> to the approval of the Engineer in the scope of replanting the aforementioned specimens 3 protected species, agreed with the expert phytosociologist (referred to in item 117) and containing <i>i.a.</i> the planned schedule for implementation of the above activities and a list of planned replanting places.</p> <p>Replanting the aforementioned specimens of 3 plant species protected shall be carried out under the supervision of the above mentioned expert phytosociologist.</p> <p>Information on the implementation of the abovementioned conditions shall be transmitted in accordance with the conditions specified in item 123.</p> <p>[see also item 113]</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
29.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Environmental supervision before and during demolition of residential and utility buildings</i></p> <p>In the case of demolition of residential and utility buildings the following rules shall apply:</p> <ul style="list-style-type: none"> a) demolition of buildings should be preceded by the control of these objects for the presence of protected species of bats, carried out by an expert chiropterologist (referred to in item 117), no later than one week before the demolition of the object; b) in case of occurrence of protected species of bats in buildings designed for demolition, the abovementioned expert shall indicate acceptable terms and ways of conducting the demolition, for the protection of the bats found; c) demolition of buildings shall be carried out under the direct supervision of the abovementioned expert chiropterologist; d) in the case of the presence of individuals of protected species of bats in the buildings subject to demolition, the abovementioned expert shall determine ways to reduce mortality of the stated specimens of protected animals; e) in the case of the presence of protected species of bats in the facilities designed to demolition and / or facilities subject to demolition, it is necessary to obtain the legally required administrative decision authorizing the derogation from the prohibitions in relation to protected species (if required in a given case). 	Contractor
30.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Limiting the Task implementation time</i></p> <p>The Contractor is obliged to organize the works in a way that would help reduce the Task implementation time to the minimum and limit the negative impact of works on the animals living within this area and in its surrounding.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
31.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Protecting the Task implementation area against entering of small animals</i></p> <p>The works should be executed in a way allowing avoiding killing animals.</p> <p>The <i>Task implementation area</i>, particularly the sites of on-going works, all site facilities, storage yards, etc., should be secured against entering small animals (amphibians, reptiles, small mammals) with a metal net of mesh size not larger than 0.5 x 0.5 cm and of the height of at least 0.6 m above ground level. The net should be buried into the ground to the depth of at least 30 cm.</p> <p>The net should be equipped with the so-called overhang i.e. the deflection of (at least 5 cm) of material in the upper part to the outside (i.e. towards the surrounding area), at the angle of 45-90°</p> <p>Determining the detailed location of the fences protecting the <i>Task implementation area</i> against entering of small animals, and establishing these fences should be executed under supervision of expert herpetologist and teriologist (referred to in item 117).</p> <p>Within the whole <i>Task implementation period</i> the condition of these fences should be inspected on a regular basis and possible leaks should be removed, and it must be remembered that:</p> <ul style="list-style-type: none"> a) In the period between March 1st and August 31st the inspections should be carried out at least once in 3 days; b) In the period between September 1st and last of February – at least once in 10 days. <p>Inspection of the fences should be carried out with the participation of the experts.</p>	Contractor
32.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Inspections of places that could be a trap for small animals</i></p> <p>It is necessary to monitor excavations and other places that may be a trap for animals: amphibians, reptiles, small mammals every morning.</p> <p>In the period from March 1st to May 15th and from September 15th to October 15th also the second inspection should be carried out every day in the late afternoon.</p> <p>Trapped animals should be caught and released beyond the <i>Task implementation area</i>, in the appropriate place for the species.</p> <p>The last check of the presence of animals in excavations shall be carried out immediately before backfilling the excavation.</p> <p>The checks shall be carried out under the direction and in accordance with the guidelines of the expert herpetologist and teriologist (referred to in item 117), who will also coordinate and suggest the places to release the caught animal species.</p> <p>All wells and other anthropogenic objects that can be a trap for amphibians and small mammals should be protected according to notes and under the guidance of the abovementioned expert herpetologist and teriologist.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
33.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Current elimination of isolated still water pools in the Task implementation area</i></p> <p>During the <i>Task implementation period</i>, it is necessary to eliminate the isolated still water pools on a regular basis in the places that might interfere with ongoing or planned works and in the places of current or planned traffic of vehicles, machines and equipment. This action is intended to prevent the settling of protected species of amphibians in the <i>Task implementation area</i> during the period of the works. This action should be carried out in consultation with the expert herpetologist (referred to in item 117), who will also supervise the correctness of the implementation thereof.</p>	Contractor
34.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Ensuring safe migration possibilities for amphibians</i></p> <p>The works shall be carried out in a way that ensures the possibility of safe migration of amphibians, including the migration of amphibians through the designed internal roads in the <i>Task implementation area</i>.</p> <p>The detailed rules for the implementation of this condition should be agreed on with an expert herpetologist (referred to in item 117), who will also supervise its proper implementation.</p> <p>The above-mentioned agreement with an expert herpetologist must be submitted to the approval of the Engineer.</p>	Contractor
35.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Catching and relocating small animals from the Task implementation area</i></p> <p>In the case of appearance of small animals (fish and lampreys, amphibians, reptiles, small mammals, bats) within the <i>Task implementation area</i> (in places where executed works may pose a risk to their life or health), they should be caught and relocated from the <i>Task implementation area</i> to appropriate habitats outside the range of impact of the works.</p> <p>The aforementioned actions should be executed under supervision of a relevant environmental expert (ichthyologist, herpetologist, terriologist and/or chiropterologist, referred to in item 117).</p> <p>Information on the implementation of this measure with respect to works on the areas referred to in item 114 (in the scope relating to species mentioned in in item 114 clause 1-7 and 9), shall be transmitted in accordance with the conditions specified in item 123.</p> <p>[see also item 32, 38 and 114]</p>	Contractor
36.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Fighting alien invasive plant species</i></p> <p>During carrying out the works, alien invasive plant species should be removed (at least twice a year, within the whole <i>Task implementation area</i>) until they disappear and are replaced with local vegetation.</p> <p>The alien invasive plant species should be pulled out (together with root ball), transported away and disposed of.</p> <p>These actions should be performed according to the detailed guidelines specified by the expert phytosociologist (referred to in item 117).</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
37.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>On-going inspections of the environmental experts team within the Task implementation period</i></p> <p>All works executed within the <i>Task implementation period</i> shall be carried out under the supervision of environmental experts team (referred to in item 117).</p> <p>These experts should carry out inspections of the whole <i>Task implementation area</i> on a regular basis (at least once a month) and communicate their findings and suggestions to the Contractor's staff responsible for implementation of works in conformity with the EMP conditions.</p> <p>The inspections should be followed by written notes attached to monthly reports on implementation of the EMP conditions (referred to in item 121).</p>	Contractor
38.	Protection of biotic nature	<i>Task implementation area</i>	<p><i>Obtaining a decision allowing for exceptions from the rules of species-specific protection of fauna, flora and funghi</i></p> <p>In the case when habitats or sites of protected species of flora and fauna (other than the sites referred to in item 113 and 114) are detected within the <i>Task implementation area</i> before works commencement or during carrying out of the works, the following actions should be taken:</p> <ul style="list-style-type: none"> a) the Contractor shall acquire and hand over a written opinion of the environmental experts team (referred to in item 117) for the Engineer approval, including the following information: <ul style="list-style-type: none"> – scope of the possible impact of the works on the detected natural resources and – the necessity to obtain the decision referred to in clause b, and shall take the actions mentioned in clauses b–d below, if it is indispensable in the light of this opinion; b) before taking any actions that could endanger the habitats and sites, or scare an animal of protected species away (according to the opinion referred to in clause a), the Contractor shall be obliged to obtain an administrative decision required by the governing law that would allow for exceptions from the bans regarding the protected species of flora, funghi and fauna; c) the decision has to be forwarded to the Engineer; d) the Contractor shall be obliged to a precise and timely implementation of the terms of the aforementioned decision. <p>[see also item 25 and 26]</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
I. SPECIFIC REQUIREMENTS FOR THE WORKS IN RIVERBEDS				
39.	Protection of biotic nature	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Rules of cooperation with fishery user of the watercourses within the Task implementation area</p> <p>The Contractor is obliged to cooperate with the fishery user of the watercourses within the <i>Task implementation area</i> (The Polish Angling Association [PAA], Wałbrzych District) within the following scope:</p> <ul style="list-style-type: none"> a) the Contractor will communicate to the fishery user (PAA, Wałbrzych District) the date of work commencement in the riverbeds 3 months in advance; b) within the date specified in item a. (above) the Contractor will execute an on-site verification within the <i>Task implementation area</i> with participation of the local representative of the PAA Wałbrzych District during which scheduled preparatory works and essential construction works regarding the Task implementation will be communicated; c) an expert ichthyologist supervising the works on behalf of the Contractor (see item 40 and 117) will cooperate with the ichthyologist employed by PAA Wałbrzych District, especially within the implementation of tasks specified in items 41–56 and item 114 clause a; d) when the <i>Task implementation period</i> is over the Contractor will hand over all documentation prepared by the expert ichthyologist supervising the works on behalf of the Contractor to the PAA Wałbrzych District (e.g. in the form of a report on ichthyologic supervision over the works which would cover actions taken to reduce the negative influence of the works on fish fauna). 	Contractor
40.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Ichthyological supervision over the works in riverbeds</p> <p>All works in the riverbeds of watercourses shall be performed under the supervision of an expert ichthyologist (referred to in item 117). Their task will be to specify a proper method of work execution, check if the works are performed correctly, observe fish fauna and ensure implementation of relevant actions in case of risk to fish fauna.</p> <p>During the time of the execution of works in the riverbeds, the expert ichthyologist shall carry out regular inspections of the sites (at least once in three days) and forward their opinions and suggestions on regular basis to the Contractor's staff responsible for execution of works accordingly to the EMP conditions.</p> <p>Information relating to the implementation of this action shall be transmitted in accordance with the conditions specified in item 122.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
41.	Protection of biotic nature	<i>Task implementation area</i> (riverbeds)	<p>Observations of fish behaviour in the periods of works in riverbeds</p> <p>In the periods of execution of works in riverbeds the observations of fish fauna should be performed on on-going basis at river sections downstream the executed works (up to 500 m downstream the locations of works execution). Observations should be performed by an expert ichtiologist (referred to in item 117), with frequency not more seldom than once every 3 days.</p> <p>The expert ichtiologist is obliged to submit the current conclusions, comments and recommendations resulting from the carried out observations to the Contractor's staff responsible for the execution of works in accordance with the conditions of the EMP</p> <p>In case of finding hazards for fish populations, in particular the possibility of fish death, works in the riverbed should be immediately interrupted and the recommendations of the aforementioned expert ichtiologist, aimed at the elimination of the hazard for the local ichtiofauna, should be observed.</p>	Contractor
42.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Permissible dates of works in the riverbeds</p> <p>The works in the riverbeds and on bank slopes of watercourses should be carried out only in the period from June 1st to end of February (absolute prohibition of such work in the periods from March 1st to May 31st).</p> <p>The optimal time for carrying out such work is the period from June 1st to August 31st (in the period from September 1st to end of February the above-mentioned scope of work should be as limited as possible).</p> <p>The performance of above work in the period from September 1st to the end of February requires the prior favourable opinion of the expert ichtiologist (referred to in item 117), allowing their conduct in a given location and establishing specific conditions for conducting such work. The ichtyologist expert opinion shall be submitted for approval to the Engineer.</p>	Contractor
43.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Maintaining the water flow and conditions of migration of the aquatic organisms in the watercourses within the Task implementation area</p> <p>Throughout the entire <i>Task implementation period</i>, the possibility of migration of the aquatic organisms in the riverbeds of watercourses should be maintained (the condition of maintaining the water flow in the watercourses).</p> <p>For this purpose the following principles should be observed:</p> <ol style="list-style-type: none"> a) throughout the entire <i>Task implementation period</i> inviolable flow in the Duna stream, at the level not lower than $Q=0,195 \text{ m}^3/\text{s}$, should be kept; b) all works in riverbeds should be carried out unilaterally, keeping the hydrological continuity of water courses, also at low water levels and keeping proper depths for the existence of ichtiofauna (depths should be agreed with the expert ichtiologist, referred to in item 117, and the arrangement results should be presented for the Engineer's acceptance); c) In the case of the necessity of periodic limitation of the water 	Contractor

Item	Issue	Place	Mitigation measure	Entity
			<p>flow in the riverbed in connection with the works (meeting the condition set out in clause a), detailed terms and conditions of the scheduled works must be agreed upon with the environmental experts team referred to in item 117 (including the expert ichthyologist) so that the continuity of migration corridors of aquatic organisms was not disrupted;</p> <p>d) river waters should be protected against contamination, by means of temporary separation from the location of works execution (e.g. with a cofferdam made of local material or leading the waters in a pipeline)</p>	
44.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p><i>Direction of works execution at regulation of riverbeds</i></p> <p>Construction and regulation works in the riverbed and bank slopes of watercourses should be carried out in stages, in such a way that the work front progress along the current of a watercourse (i.e. starting with the sections located the highest).</p>	Contractor
45.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p><i>Handling the rip rap protection</i></p> <p>When reinforcing the bottom or banks of the existing water courses with heavy rip rap protection (along the sections where work will be performed without previous drying of riverbed), the following rules should be followed:</p> <p>a) stones must not be thrown from lorries directly to the riverbed;</p> <p>b) the stones must be unloaded on the river bank and then carefully moved in blocks with an excavator from the bank to the channel;</p> <p>c) the block of stones located on the slopes should be adjusted and profiled manually (blocks of stones must not be thrown from lorries directly to the water).</p>	Contractor
46.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p><i>Protecting the watercourses against vehicle traffic</i></p> <p>While carrying out works in the riverbeds and banks of watercourses these bans must be followed:</p> <p>a) ban on vehicle traffic within the riverbeds of watercourses;</p> <p>b) ban on moving earth masses, gravel and stones by pushing these materials in the riverbeds of watercourses.</p> <p>c) ban on routing access roads within the riverbeds of watercourses (the equipment should be moved to the riverbed only from the bank side).</p>	Contractor
47.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p><i>The ban on obtaining materials from the riverbed</i></p> <p>It is prohibited to obtain stones, gravels and other materials constituting bottom material in the riverbeds (including the streams of Duna, Duna G6rna and Duna Dolna).</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
48.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Conditions for works at riverbed sections intended to remain</p> <p>At sections where the old riverbeds will remain, the following conditions must be met:</p> <ul style="list-style-type: none"> a) the bottom of riverbed should not be interfered with; b) the width of the riverbed should not be changed; c) reinforcements should be limited only to the performance of crushed stone shore bands on concave banks, laid on geotextile up to the height not exceeding 2 m; d) any works connected with the regulation of existing water course section should be performed under the guidance and in accordance with the recommendations of expert ichtiologist and teriologist (referred to in item 117). 	Contractor
49.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Prohibition on interference in watercourses riverbeds and banks not covered by the works</p> <p>During the <i>Task implementation period</i> the riverbeds and banks of watercourses not covered by the works must not be interfered with (e.g. prohibition on traffic of vehicles, machinery and devices, prohibition on pollution, devastation and storage of materials, etc.).</p>	Contractor
50.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (newly built riverbed sections)	<p>Conditions for execution of works and formation of new river sections</p> <p>At the construction of new riverbed sections, the following conditions should be observed:</p> <ul style="list-style-type: none"> a) the bottom of riverbeds should not be reinforced (this condition does not relate to a 40-meter river section before the sluice devices); d) any works connected with the formation of the new watercourse section should be performed under the guidance and in accordance with the recommendations of expert ichtiologist and teriologist (referred to in item 117). 	Contractor
51.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (among others riverbeds and banks of watercourses)	<p>Construction of sluice devices and construction of the new sections of riverbeds using the "dry" technology</p> <p>The construction of sluice devices of the reservoir and construction of the new sections of riverbeds shall be carried out using the "dry" technology (e.g. under the cover of cofferdam).</p>	Contractor
52.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (riverbeds and banks of watercourses)	<p>Rules for liquidation of the old sections of riverbeds of the Duna G6rna, Duna Dolna and Duna streams</p> <p>After the completion of the construction of new riverbed sections of Duna Dolna, Duna G6rna and Duna streams (along with the section running through the sluice devices in the dam body), performed in "dry" technology (see item 51), the old riverbed sections should be filled up, each time using solutions enabling earlier, safe escape of live organisms from it.</p> <p>To do this:</p> <ul style="list-style-type: none"> a) lead water from the old riverbed section (intended for removal) to the newly built final riverbed; 	Contractor

Item	Issue	Place	Mitigation measure	Entity
			<p>b) make a cofferdam that closes the section of the riverbed designed to liquidation in the upper course;</p> <p>c) wait until water from the section intended for removal flows down (this should be facilitated by eg. digging extra ditches allowing downstream discharge along with the aquatic organisms);</p> <p>d) if after flowing down of the major part of the water, isolated water bodies with aquatic animals trapped remain in the old riverbed, they should be caught and replaced – under the supervision of the expert ichthyologist referred to in item 117 – to their proper habitats;</p> <p>e) before the actions specified in clauses b-d above are executed, the permits required by the provisions of the <i>Nature Conservation Act</i> and <i>Inland Fishing Act</i> must be obtained;</p> <p>f) build a cofferdam in the downstream area of the riverbed section to be liquidated;</p> <p>g) backfill the riverbed section to be liquidated with soil.</p> <p>All work related to the liquidation of old sections of riverbeds should be carried out under the supervision and in accordance with the guidelines of the expert ichthyologist.</p> <p>The activities described in this item of EMP should be done keeping the deadlines specified in item 42 and 56.</p>	
53.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (sluice devices channel in the reservoir dam)	<p>Sills in the sluice devices channel bottom</p> <p>A course of fixed sills, with the height of 0.3 m, located perpendicularly to the current and equipped with a gap with the width of 0.3 m should be made in the sluice devices channel bottom.</p> <p>Gaps in the neighbouring baffles should be located on the opposite.</p>	Contractor
54.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (stilling basin with surroundings)	<p>Conditions for the outlet from sluice devices and outlet of stilling basin</p> <p>The outlet of sluice devices should be led directly to the stilling basin.</p> <p>The outlet of the stilling basin should be located on the level equal or maximum approximate to the level of the Duna stream bed.</p>	Contractor
55.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (inlet to sluice devices)	<p>Truss gaps at the inlet to sluice devices</p> <p>Truss gaps at point of supplying water to sluice devices on the side of the upper water should amount to not less than 0.5 m.</p>	Contractor
56.	Protection of biotic nature, protection of water	<i>Task implementation area</i> (Duna stream riverbed)	<p>Permissible date for starting the water flow through the tunnel in the reservoir dam</p> <p>The first passing of construction water through the tunnel built in the reservoir dam and through the new section of the Duna stream riverbed downstream the dam (in order to direct them to an existing section of the stream downstream the dam) should be carried out in the period from June 1st to the end of February (optimum: in the period from June 1st to August 31st).</p> <p>[see also item 52]</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
J. SPECIFIC REQUIREMENTS FOR THE WORKS AT THE CONSTRUCTION OF RUBBLE SETTLING TANK				
57.	Protection of biotic nature	<i>Task implementation area</i> (rubble settling tank)	<p>Conditions for rubble settling tank configuration</p> <p>The rubble settling tank should be performed in such a way that the shoreline is diversified and the inclination of the embankments on the upstream face (apart from the part adjacent to the stream bed) is 1:5, which enables the creation of wide, a few-metre shallows within the nearshore zone and its occupancy by plant species. The aforementioned actions should be performed under the supervision and in accordance with the recommendations of the expert phytosociologist, referred to in item 117.</p>	Contractor
K. REQUIREMENTS CONCERNING LAND RECLAMATION AFTER WORKS				
58.	Protection of biotic nature, protection of soil	<i>Task implementation area</i>	<p>Reconstruction of the topsoil layer and green areas, and ordering the area after work completion</p> <p>When the works are completed, the following actions should be done:</p> <ol style="list-style-type: none"> 1) dismantling of the site facilities and roads and technological yards, and removing the road panels and collected sand from the ballast beyond the <i>Task implementation area</i> to the destination place indicated previously (approved by the Engineer); 2) the area from which earth masses were obtained (within the boundaries of the <i>Task implementation area</i>, except from the rubble settling tank and other places intended to remain in the design documentation) should be backfilled [see also item 10]); 3) on the areas occupied in connection with the execution of the Task (within the <i>Task implementation area</i>) the appropriate agricultural practices (loosening of soil, fertilizing, etc.) preparing to restoration of the fertile layer of soil shall be performed; 4) on the areas occupied in connection with the execution of the Task (within the <i>Task implementation area</i>) the fertile layer of soil shall be restored (among other with the use of topsoil collected from the area according to the conditions of item 11); 5) carrying out procedures enhancing reconstruction of green areas (including sowing and planting trees and bushes, using domestic plants only, according to the local habitat conditions and in accordance with design documentation); 6) ensuring proper care of the reconstructed green areas (until the Defects Notification Period is over); 7) ordering the <i>Task implementation area</i>. <p>The actions specified in clause 3, 4, 5 and 6 (above) should be performed under the supervision of an expert botanist-phytosociologist and dendrologist (referred to in item 117), which would cover the following items:</p> <ol style="list-style-type: none"> a) agreeing upon precise timelines of works; b) agreeing upon species composition and quantity proportions of seed mix to be sown; c) agreeing upon species composition and quantity proportions of trees and bushes to be planted; d) agreeing upon conditions for preparing the soil and planting material; 	Contractor

Item	Issue	Place	Mitigation measure	Entity
			<p>e) agreeing upon rules of care of the reconstructed green areas;</p> <p>f) communicating the arrangements to the Engineer for approval;</p> <p>g) supervision over carrying out the procedures enhancing reconstruction of the green areas and their care (until the Defect Notification Period is over).</p> <p>The actions regarding reconstruction of the topsoil layer and green areas referred to in this item of the EMP shall begin at the earliest possible date allowing its implementation.</p> <p>The implementation of the works specified in this item of the EMP can begin only upon approval of the detailed <i>Quality Assurance Plan</i> concerning these works by the Engineer.</p>	
L. REQUIREMENTS CONCERNING RULES OF USE OF THE BUILT FACILITIES				
59.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin)	<p>Permissible time of water storage in the reservoir</p> <p>Water in the reservoir should be stored not longer than 5 days (120 hours), and in extraordinary situations – up to 14 days (336 hours).</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
60.	Protection of biotic nature	<i>Task implementation area</i> (Duna stream riverbed downstream the reservoir)	<p>Ensuring inviolable flow downstream the reservoir basin</p> <p>Throughout the reservoir operation period, inviolable flow downstream the dam, at the level not lower than $Q=0,195 \text{ m}^3/\text{s}$ should be maintained.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
61.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin – rubble settling tank)	<p>Ban on the use of rubble settling tank for fishing purposes</p> <p>The use of rubble settling tank for fishing purposes is not allowed.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])

Item	Issue	Place	Mitigation measure	Entity
62.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin – rubble settling tank)	<p>Picking out rock rubble from the rubble settling tank</p> <p>Rock rubble should be taken out of the rubble settling tank not less frequently than once every 5 years.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
63.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin – rubble settling tank)	<p>Ichtiological supervision during maintenance works in the rubble settling tank</p> <p>Maintenance works in the rubble settling tank should be carried out under the supervision of the expert ichtiologist (in the <i>Task implementation period</i> it should be expert ichtiologist referred to in item 117; after the completion of the <i>Task implementation period</i> – expert ichtiologist selected by the Employer).</p> <p>Information concerning the performance of this action should be transmitted in accordance with the conditions set out in item 122.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
64.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin)	<p>Permissible period of performance of maintenance works in the reservoir basin</p> <p>Maintenance works in the reservoir basin should be carried out only in the period from May 16th to March 31st (i.e. beyond the period from April 1st to May 15th).</p> <p>This condition does not relate to the performance of necessary repairs in case of emergency, and it does not relate to the maintenance of the dam body or sluice devices.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
65.	Protection of biotic nature	<i>Task implementation area</i> (sluice devices)	<p>Cleaning sluice devices</p> <p>Regularly, not less frequently than once in six months, sluice devices should be cleaned (in particular the sills differentiating the flow and gaps for fish migration in the sills).</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])

Item	Issue	Place	Mitigation measure	Entity
66.	Protection of biotic nature	<i>Task implementation area</i> (lower and upper reservoir station)	<p>Removal of heaps at the lower and upper reservoir station</p> <p>Mechanical heaps at the outlet from silting basin of the reservoir on the side of lower water and by the inlet to sluice devices on the side of upper water.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
67.	Protection of biotic nature	<i>Task implementation area</i> (dam and its surroundings)	<p>Conditions for final lighting of the reservoir area</p> <p>Lighting of the constructed reservoir should be limited only to:</p> <ul style="list-style-type: none"> a) the dam crest and body; b) manoeuvre yard by the inlet to the bottom sluice; c) car park by the backyard building; d) road at the dam crest; e) road connecting the dam with the backyard building. <p>Fittings with reflectors limiting the spread of light outside the areas intended for lighting should be used for lighting.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])
68.	Protection of biotic nature	<i>Task implementation area</i> (reservoir basin)	<p>Land development in the reservoir basin</p> <p>Areas located within the dry reservoir, to which the Employer holds the legal title, should be used as pastures or hay meadows.</p> <p>Mowing should be performed not less frequently than once in two years (optimum – once a year), in the period from 1 to 30 September, leaving 5-10% of the area of not mowed meadows (each time in different location) and with the disposal of mowed biomass.</p>	Contractor (during <i>Task implementation period</i>) Employer (throughout the use period, [after <i>Task implementation period</i>])

Item	Issue	Place	Mitigation measure	Entity
M. REQUIREMENTS CONCERNING POLLUTION PREVENTION				
69.	Protection of water and soil, protection of human health and safety, protection of biotic nature	<i>Task implementation area</i>	<p>Using construction materials meeting the requirements of the provisions and standards, and which are harmless for environment</p> <p>The construction materials used for the Task implementation should be harmless for environment (natural, environmentally friendly or neutral). Consumables, raw materials, fuels, fertilisers, and concrete mixtures used during the <i>Task implementation period</i> should have appropriate certificates and be approved for use. Earth structures should be made of natural materials. Materials that are hazardous or harmful for health must not be used.</p>	Contractor
70.	Protection of water and soil	<i>Task implementation area</i>	<p>Technical efficiency and inspections of vehicles, machinery and devices</p> <p>To prevent against water and soil pollution only vehicles, machinery and devices that are technically efficient can be used. The Contractor is obliged to carry out maintenance of the vehicles, machinery and devices and to prevent possible contamination of the water and soil with all available organizational measures, paying special attention to prevent from fuel, oil and oil derivatives spilling both during maintenance, filling the tanks, transport and operation of the vehicles, machinery and devices.</p>	Contractor
71.	Protection of water and soil	<i>Task implementation area</i>	<p>Conditions for the location of building materials storage and production sites</p> <p>Building materials, particularly bulk materials, should be stored only on paved surfaces within the construction site facilities. Such materials cannot be stored at a distance smaller than 100 m from the existing riverbeds. Analogical conditions relate to the locations of building materials production (concrete masses, pre-fabricated materials, aggregates etc.).</p>	Contractor
72.	Protection of biotic nature, protection of air	<i>Task implementation area</i>	<p>Rules for supplying earth masses for the reservoir dam construction</p> <p>The earth masses for the reservoir dam construction should be transported directly to the target dam section and embedded the in the dam body as soon as they are unloaded. If this condition cannot be fulfilled, the location of the temporary storage of earth masses shall be agreed each time with experts of environmental supervision (referred to in item 117), in order to eliminate the negative impact on environmental resources planned to remain in the civil engineering design.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
73.	Protection of water	<i>Task implementation area</i>	<p>Limiting the time and amount of drainage and ban on discharge of the water from excavation ditches directly to the watercourses</p> <p>The drainage time should be limited to maximum and methods reducing the amount of the pumped out water alongside with its protection against contamination should be applied.</p> <p>The water pumped out of the excavation ditches must not be discharged to the watercourses due to a high amount of the suspended matter.</p> <p>The water can be discharged to the watercourses only upon its treatment and removal of the suspended matter, e.g. in a settling tank.</p>	Contractor
74.	Protection of biotic nature, protection of the earth surface	<i>Task implementation area</i>	<p>Conditions for traffic of vehicles, machinery and devices within the Task implementation area</p> <p>The traffic of vehicles, machinery and devices can be maintained only in the following areas:</p> <ul style="list-style-type: none"> a) within the site facilities; b) on existing roads; c) on access roads and yards; d) on internal roads (after their completion). <p>[see also item 76]</p>	Contractor
75.	Protection of water and soil	<i>Task implementation area</i>	<p>Parking lot for the machines and vehicles after the completion of works</p> <p>At the end of the workday, and especially on holidays, the machines and vehicles must be parked in designated areas in the site facilities.</p>	Contractor
76.	Protection of water and soil	<i>Task implementation area</i>	<p>Pavement sealing in the location of vehicle, machinery and equipment traffic at the site facilities</p> <p>The pavement of the site facilities areas at which vehicles, machinery and devices will move should be sealed.</p> <p>[see also item 74]</p>	Contractor
77.	Protection of water and soil	<i>Task implementation area</i>	<p>Indicating and sealing the sites of stationing and maintenance of vehicles, machinery and devices</p> <p>The sites to be used for maintenance of vehicles, machinery and devices (including stationing, filling with fuel, technical maintenance, etc.) should be appropriately indicated and designated within the site facilities.</p> <p>Until completion of the works these sites should be spread with impermeable insulating materials that would prevent the ground against contamination with liquid or solid substances.</p> <p>While discussing the location of these sites it must be remembered to maintain a safe distance from still and flowing waters basins.</p> <p>The detailed location must be discussed with environmental experts team referred to in item 117 (including the expert phytosociologist).</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
78.	Protection of water and soil	<i>Task implementation area</i>	<p>Ensuring water drainage from parking sites and access roads into drainage systems</p> <p>Parking sites for equipment and access roads shall be made with a slope to ensure stormwater, meltwater, and waste-water drainage into drainage systems in a manner that prevents any contaminants from penetrating the soil or mixing with surface waters.</p>	Contractor
79.	Protection of water and soil	<i>Task implementation area</i>	<p>The ban on exceeding the boundary concentration of the suspended matter in the Duna stream</p> <p>Construction works and any other works connected with the performance of the Task should be performed in a manner which does not result in exceeding the boundary value of concentration of suspended matter in the Duna stream (40 mg/l) in the points of monitoring of suspended matter concentration described in item 124 in Appendix 2 to the EMP.</p>	Contractor
80.	Protection of water and soil	<i>Task implementation area</i>	<p>A station with a sorbent near the service and parking sites for vehicles, machinery and devices.</p> <p>A station with a sorbent used to eliminate any leaks and spillages of petroleum derivatives should be located near service sites for vehicles, machinery and devices (including parking, filling and technical service sites, etc.).</p>	Contractor
81.	Protection of water and soil	<i>Task implementation area</i>	<p>Rules for filling the tanks of vehicles, machinery and devices</p> <p>Fuel tanks should be filled using mobile or fixed fuel distribution stations equipped with appropriate security systems like a post with sorbent used for removing spilling and leaks of oil derivatives to the ground.</p>	Contractor
82.	Protection of water and soil	<i>Task implementation area</i>	<p>Principles of washing and cleaning vehicles, machinery and equipment</p> <p>Servicing operations of vehicles, machinery and equipment used in the <i>Task implementation area</i> (including, among others, cleaning the equipment used for concreting works) are permissible only in designated locations within the area of site facilities, adequately protected against the risk of contamination of subsoil and water as well as provided with equipment enabling immediate removal of possible contamination.</p>	Contractor
83.	Protection of water and soil	<i>Task implementation area</i>	<p>Prevention of leaks from vehicles, machinery and devices</p> <p>Throughout the <i>Task implementation period</i>, the technical state of vehicles, machinery and devices in operation shall be checked regularly to eliminate leaks of carbohydrate petroleum derivatives into the soil and waters.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
84.	Protection of water and soil	<i>Task implementation area</i>	<p>How to proceed in the event of petroleum derivative emission</p> <p>In the event of any petroleum derivative emission into the environment (including into soil and water), one shall:</p> <ul style="list-style-type: none"> a) immediately take actions to prevent pollution dissemination, using available means (e.g. sorbents); b) Immediately remove the soil contaminated due to the breakdown as per applicable regulations. c) in the event of major breakdowns, apply procedures described in item 105. 	Contractor
85.	Protection of acoustic climate	<i>Task implementation area</i>	<p>Restriction on works to daytime</p> <p>Work should be planned so that it lasted as short as possible and be performed only in the daytime (between 6 a.m. and 10 p.m.).</p>	Contractor
86.	Protection of acoustic climate	<i>Task implementation area</i>	<p>Restriction on noise emitted by vehicles, machinery and devices</p> <p>Works shall only be carried out using vehicles, machinery and devices in working order and with noise emission levels (acoustic power) consistent with applicable regulations.</p> <p>Defective vehicles, machinery and devices which might result in increased noise levels in the surroundings shall not be used for the works.</p>	Contractor
87.	Protection of acoustic climate	<i>Task implementation area</i>	<p>Restriction on noise emitted by pump aggregates</p> <p>In the event that the works are carried out in the acoustically protected areas or in their proximity, in order to restrict noise nuisance for the residents, one shall only use pump aggregates equipped with effective sound dampening cases, ensuring reduction in noise emission to levels consistent with applicable regulations and standards.</p>	Contractor
88.	Protection of air, protection of acoustic climate	<i>Task implementation area</i>	<p>Restriction on power consumption of vehicles, machinery and devices</p> <p>Use low power consumption vehicles, machinery and devices; switch off the power supply when they are not in use.</p> <p>Engine running time of vehicles, machinery and devices shall be reduced to the necessary minimum.</p>	Contractor
89.	Protection of air	<i>Task implementation area</i>	<p>Restriction on air pollution with exhaust fumes</p> <p>In order to reduce negative impact on the condition of the air:</p> <ul style="list-style-type: none"> a) only use vehicles, machinery and devices that are in working order and have valid certificates in order to reduce the emission of gaseous substances and dusts into the atmosphere; b) provide a place for safe manoeuvring of vehicles in the form of yards; c) one shall reduce the traffic of vehicles, machinery, and devices to the necessary minimum; d) turn off engines vehicles are stopped. 	Contractor

Item	Issue	Place	Mitigation measure	Entity
90.	Protection of air	<i>Task implementation area</i>	<p>Limiting dust contamination from the construction site and roads</p> <p>During the course of the construction works, limit the consequences of secondary dust contamination by observing high standards of work and in particular by:</p> <ul style="list-style-type: none"> a) systematic clearance of the construction site; b) sprinkling dusty road surfaces; c) using airtight tarpaulin on vehicles carrying materials that may cause dusting during transport; d) cleaning vehicle wheels before entering access roads to the <i>Task implementation area</i>; e) removal of contamination using machinery (special purpose vehicles). 	Contractor
91.	Protection of human health and safety, protection of air	<i>Task implementation area together with access roads</i>	<p>Maintenance of cleanliness on roads</p> <p>In order to maintain cleanliness on roads the following actions shall be taken up:</p> <ul style="list-style-type: none"> a) the Contractor shall use all available technical means and work organization in order to maximally reduce contamination of access roads to the <i>Task implementation area</i>. b) the contractor shall install the stands in the places of departure of heavy equipment from the construction site, where soil or mud will be preliminary removed from the wheels of vehicles. c) the Contractor is obliged to immediately and regularly remove any contamination from roads which occurs as a result of movement of vehicles, machinery and devices associated with the implementation of the Task. 	Contractor
92.	Protection of air	<i>Task implementation area</i>	<p>Ban on use bonfires and combustion of materials, waste, rubbish etc.</p> <p>In the <i>Task implementation area</i> it is not allowed to use bonfires and combust materials, waste, rubbish etc.</p>	Contractor
N. REQUIREMENTS CONCERNING WASTE MANAGEMENT				
93.	Protection of water and soil	<i>Task implementation area</i>	<p>Preparing a Waste Management Plan (WMP)</p> <p>Prior to the commencement of the works, the Contractor shall prepare and submit to the Engineer for approval the <i>Waste Management Plan</i>, which specifies how to deal with waste expected to be generated during the works, and includes, inter alia, the waste management conditions contained in the EMP.</p> <p>[see also item 8]</p>	Contractor
94.	Protection of water and soil, protection of air	<i>Task implementation area</i>	<p>Principles of waste management</p> <p>Wastes generated during the implementation of the Task shall be:</p> <ul style="list-style-type: none"> a) segregated and selectively stored in airtight containers or in designated and suitable locations in conditions that prevent dust emission and prevent the wind picking up light fractions resulting in a negative environmental impact; b) regular waste collection shall also be ensured by entities authorised to manage the waste further. 	Contractor

Item	Issue	Place	Mitigation measure	Entity
95.	Protection of water and soil	<i>Task implementation area</i>	<p>Principles of hazardous waste management</p> <p>Hazardous waste shall be segregated and stored separately in designated airtight containers set on hardened ground, secured against unauthorised access until handed over to entities authorised to manage such waste further.</p>	Contractor
96.	Protection of water and soil	<i>Task implementation area</i>	<p>Principles of domestic waste-water management</p> <p>Domestic waste-water shall be retained at the site facilities in airtight holding tanks, the content of which shall be handed over to entities with appropriate permits to remove it.</p>	Contractor
97.	Protection of water and soil	<i>Task implementation area</i>	<p>Prevention of creation of illegal landfill sites</p> <p>Prior to the commencement of the works, the Contractor shall carry out reconnaissance of the <i>Task implementation area</i> to identify illegal landfill sites. During the implementation of the task, the Contractor shall prevent the emergence of possible dumping sites in the <i>Task implementation area</i>.</p>	Contractor
O. REQUIREMENTS CONCERNING PROTECTION OF HUMAN LIFE AND HEALTH				
98.	Protection of human health and safety	<i>Task implementation area</i>	<p>Preparing documents related to safety in the Task implementation area</p> <p>In the <i>Task implementation area</i>, one shall maintain order and ensure proper work organization.</p> <p>Prior to the commencement of the works, the Contractor shall prepare and obtain approval from the Engineer of the following documents related to safety at the construction site:</p> <ul style="list-style-type: none"> a) <i>Safety and health protection plan (the SHP plan);</i> b) <i>Construction site organization design.</i> 	Contractor
99.	Protection of human health and safety	<i>Task implementation area</i>	<p>Reconnaissance and supervision of explosive ordnance disposal unit in the Task implementation area</p> <p>In order to minimize the risk related to the possibility of presence of hazardous military objects in the <i>Task implementation area</i>, the Contractor shall provide:</p> <ul style="list-style-type: none"> a) prior to the commencement of the works – reconnaissance of the <i>Task implementation area</i> to detect unexploded explosive ordnance (a report containing the results of the above-mentioned unexploded explosive ordnance reconnaissance shall be submitted to the Engineer for approval); b) during the performance of the works – supervision of explosive ordnance disposal unit over the works (carried out by the explosive ordnance disposal team referred to in item 119) involving examination and clearance in the <i>Task implementation area</i> of hazardous military objects followed by their disposal; c) in the event that hazardous military objects are found in the <i>Task implementation area</i> – implementation of the procedures described in item 106. 	Contractor

Item	Issue	Place	Mitigation measure	Entity
100.	Protection of human health and safety, protection of material goods	<i>Task implementation area and its vicinity</i>	<p>Documentation and monitoring of the technical condition of the buildings exposed to the impact of vibrations</p> <p>Prior to the commencement of the works during which there may occur vibrations that are hazardous to the neighbouring residents as well as the neighbouring properties and infrastructural facilities, the Contractor shall take inventory of the existing buildings and facilities, having particular regard to cracks and damage.</p> <p>During the performance of the works listed above, the Contractor shall monitor the condition of the buildings and facilities on an ongoing basis.</p>	Contractor
101.	Protection of human health and safety	<i>Task implementation area</i>	<p>Implementation of guidelines on occupational health and safety requirements</p> <p>The Contractor shall ensure implementation of detailed guidelines on occupational health and safety requirements, i.a. in terms of:</p> <ul style="list-style-type: none"> a) construction site development, including danger zones; b) storage and transport; c) electric power devices and systems; d) technical machinery and devices; e) works at heights; f) earth works; g) selected renovation and demolition works, <p>contained in applicable regulations and presented in the study by <i>Chief Labour Inspectorate</i> as appendix to contract <i>Bidding Documents</i> (Part 2, Section VII – <i>Requirements for Works</i>).</p>	Contractor
102.	Protection of human health and safety	<i>Task implementation area</i>	<p>Ensuring hygienic conditions</p> <p>In the <i>Task implementation area</i>, one shall ensure a necessary number of portable toilets and ensure that the staff are able to use them, as well as provide all the staff with training on maintaining proper hygienic conditions at the construction site and its immediate vicinity.</p>	Contractor
103.	Protection of human health and safety	<i>Task implementation area and its vicinity</i>	<p>Principles of prevention of such diseases as HIV-AIDS</p> <p>By the agency of an approved service supplier, the Contractor shall implement an awareness raising programme on spreading such diseases as HIV-AIDS (the Contractor shall also carry out appropriate trainings) and shall take all other measures to lower the risk of transmitting HIV among the Contractor’s personnel and among the local community. Those activities shall be performed in accordance with the detailed conditions set out in the Contract <i>Bidding Documents</i> (Part 3, Section VIII – <i>General Terms, clause 6.7</i>).</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
P. REQUIREMENTS CONCERNING EXTRAORDINARY THREATS TO THE ENVIRONMENT				
104.	Protection of human health and safety	<i>Task implementation area</i>	<p>Principles of flood risk management</p> <p>With regard to flood risk, the Contractor shall prepare and submit to the Engineer for approval the document entitled <i>Construction Site Flood Protection Plan</i> that incorporates local hydrological and meteorological conditions in the vicinity of the construction site.</p> <p>If flooding occurs, the Contractor shall proceed in accordance with the procedures described in the above-mentioned document.</p>	Contractor
105.	Protection of human health and safety	<i>Task implementation area and its vicinity</i>	<p>Principles of crisis notification</p> <p>In the event of a crisis (other than a flooding), an accident, a major breakdown, etc., the Contractor is obliged to take the following actions:</p> <ul style="list-style-type: none"> a) immediately notify appropriate emergency services (fire brigade, ambulance, the police, etc.); b) by the time appropriate emergency services arrive, carry out necessary activities to lower the risk of loss to personnel, property, and the environment (agreed with appropriate services as far as possible); c) notify the Engineer and the Employer; d) after arrival of appropriate emergency services, strictly follow their recommendations and instructions. <p>[see also the condition in item 84]</p>	Contractor
106.	Protection of human health and safety	<i>Task implementation area</i>	<p>Procedures for unexploded explosive ordnance management</p> <p>In the event that unexploded explosive ordnance is found, one shall:</p> <ul style="list-style-type: none"> a) immediately stop the works; b) evacuate the area around the finds; c) immediately notify an explosive ordnance disposal unit [see items 99 and 119] and the police, and follow their recommendations; d) notify the Engineer and the Employer; <p>It is strictly forbidden to lift, dig up, bury, transfer, or throw unexploded explosive ordnance into fire, water, etc.</p>	Contractor
R. REQUIREMENTS CONCERNING PROTECTION OF CULTURAL MONUMENTS				
107.	Protection of cultural monuments	<i>Task implementation area and its vicinity</i>	<p>Obtaining an opinion from a heritage conservator</p> <p>Prior to the commencement of the works, the Contractor shall obtain a relevant heritage conservator’s opinion on the terms and conditions of the planned works implementation with regard to the applicable principles of historic monuments and archaeological sites protection,</p> <p>The Contractor shall be obliged to observe the provisions deriving from the said opinion.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
108.	Protection of cultural monuments	<i>Task implementation area</i>	<p>Provision of archaeological supervision</p> <p>Earthworks shall be performed under regular archaeological supervision. To this end, the Contractor shall:</p> <ul style="list-style-type: none"> a) prepare an appropriate action plan in this regard as part of <i>Quality Assurance Plan</i>; b) ensure participation of expert archaeologists referred to in item 118) to carry out regular supervision over the earthworks; c) if necessary, obtain the legally required <i>Permit for Archaeological Examination from the Heritage Conservator of the Lower Silesian Province</i>. 	Contractor
109.	Protection of cultural monuments	<i>Task implementation area</i>	<p>How to proceed if movable monuments or archaeological sites are found</p> <p>If, during the works, an object is found for which it is reasonable to suppose or be certain that it may be a monument or have a historical value, the Contractor is obliged to:</p> <ul style="list-style-type: none"> a) immediately stop all the works which may damage and destroy the find; b) secure (using available means) the find and the site where it was found against destruction, damage, or theft; c) immediately notify the expert archaeologists (referred to in items 108 and 118) and the Engineer; d) take further protective actions, agreed with the expert archaeologists and the Engineer; e) facilitate and ensure that documentation activities, archaeological research, and other necessary activities can be carried out by the expert archaeologists and/or administrative bodies in charge of securing historical items; f) once the activities and research listed in clauses d) and e) are completed, the discovered movable monuments shall be passed to appropriate institutions indicated by the expert archaeologists and/or administrative bodies in charge of securing historical items (in accordance with applicable regulations and the content of the <i>Permit</i> referred to in item 108 clause c); g) in the case of immovable monuments, after the completion of the activities and research listed in clauses d) and e), one shall proceed in accordance with the guidelines set out for further management of the discovered historical items, agreed with the expert archaeologists and/or administrative bodies in charge of securing the historical items (in accordance with applicable regulations and the content of the <i>Permit</i> referred to in item 108 clause c). 	Contractor

Item	Issue	Place	Mitigation measure	Entity
S. MEASURES CONCERNING RESTORATION OF NATURAL RESOURCES				
110.	Protection of biotic nature	<i>Task implementation area</i> (natural habitats restoration places *91E0 and 9170)	<p>Tree stand plantings of natural habitats *91E0 i 9170</p> <p>For the purpose of restoration of resources of natural habitats *91E0 (<i>Alluvial forests with Alnus glutinosa and Fraxinus excelsior</i>) and 9170 (<i>Galio-Carpinetum</i> and <i>Tilio-Carpinetum</i> oak-hornbeam forests), prior to the completion of basic construction works, trees and shrubs adequate for the habitats of this kind should be planted at the total area of at least 7 ha.</p> <p>Plantings should be made in locations appropriate for the development of habitats of this kind, indicated by expert phytosociologist and dendrologist (referred to in item 117).</p> <p>For planting, use only native species of trees and shrubs typical of the habitats *91E0 and 9170.</p> <p>Detailed species composition and quantity proportions of particular species in the designed plantings should be agreed with the above-mentioned experts botanist-phytosociologist and dendrologist.</p> <p>Maintenance works (e.g. annual mowing of crop grasses, fencing of cultivation areas, use of repellents, or making up any losses) shall be carried out on the cultivations for at least 10 years.</p> <p>During the <i>Task implementation period</i>, the actions listed above (planting and maintenance works) shall be carried out under supervision of the abovementioned experts botanist-phytosociologist and dendrologist, covering, inter alia:</p> <ol style="list-style-type: none"> a) setting a precise time frame of the works; b) agreeing on detailed location of the plantings; c) agreeing on species mix and proportions of tree and shrub species planned to be planted; d) setting conditions of soil and seedlings preparation; e) agreeing on principles for plantings maintenance works; f) referring the results of the agreements listed above to the Engineer for approval; g) supervision over the performance of plantings as well as supervision over the maintenance of the performed plantings (by the end of the Defects Notification Period). <p>The agreements referred to in clauses a-e should include requirements set out in the project documentation in this regard.</p> <p>The activities related to the performance of the planting referred to in this EMP item shall commence as soon as possible (plantings must be performed prior to the completion of basic construction works).</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p>	Contractor (during <i>Task implementation period</i>) Employer (after <i>Task implementation period</i> [exclusively in respect of maintenance works throughout the use period])

Item	Issue	Place	Mitigation measure	Entity
111.	Protection of biotic nature	<i>Task implementation area</i> (places of hanging nest boxes for the grey wagtail)	<p><i>Installation of nest boxes for the grey wagtail</i></p> <p>In the upstream section of the Duna stream (outside the area of tree and shrub felling) at least 2 nest boxes for grey wagtail <i>Motacilla cinerea</i> should be hanged.</p> <p>The design of boxes and detailed locations of their hanging should be discussed with an expert ornithologist (referred to in item 117), and the results agreed shall be submitted to the Engineer for approval.</p> <p>Hanging the boxes should be done in consultation with and under supervision of the abovementioned expert ornithologist.</p> <p>During the <i>Task implementation period</i>, the Contractor shall provide annual cleaning and necessary maintenance of boxes (including their replacement in case of wear), conducted with the participation, under the supervision and as per indications of the abovementioned expert ornithologist.</p> <p>After completion of the <i>Task implementation period</i> (i.e. during the operation period) the annual cleaning and necessary maintenance of boxes (taking into account their replacement when worn), conducted with the participation, under the supervision and as per indications of an expert ornithologist, shall be provided by the Employer.</p> <p>Activities related to hanging the nest boxes for the grey wagtail referred to in this EMP item shall commence as soon as possible, in good time for them to be implemented.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p>	<p>Contractor (during <i>Task implementation period</i>)</p> <p>Employer (after <i>Task implementation period</i> [exclusively in respect of cleaning, maintenance and possible replacement of nest boxes throughout the use period])</p>

Item	Issue	Place	Mitigation measure	Entity
112.	Protection of biotic nature	<i>Task implementation area</i> (places of hanging boxes for bats)	<p>Installation of boxes for bats</p> <p>Upon the completion of basic construction works, 50 boxes for bats should be hung at the area at a distance up to 1 km from the reservoir boundaries (in the places indicated by the expert chiropterologist [referred to in item 117] and agreed with the competent forest management superintendent).</p> <p>The boxes should be hanged in early spring, in groups of 6 - 8 pieces.</p> <p>The detailed location of boxes and box model shall take into account the requirements of particular bat species and shall be agreed with the abovementioned expert chiropterologist.</p> <p>The results of the agreements with the abovementioned expert chiropterologist and the forest management superintendent on the location of boxes must be submitted to the Engineer for approval.</p> <p>Hanging the boxes should be done in consultation with and under direct supervision of the abovementioned expert chiropterologist.</p> <p>During the <i>Task implementation period</i>, the contractor shall provide annual cleaning and necessary maintenance of boxes (including their replacement in case of wear), conducted with the participation, under the supervision and as per indications of the abovementioned expert chiropterologist.</p> <p>The maintenance of boxes should be limited to their repair (by means of improving the tightness of boxes and supplementing missing elements) and the removal of droppings. No chemical agents may be used for the maintenance of boxes. In case of a more serious damage or destruction of the box, it should be replaced with a new one.</p> <p>After completion of the <i>Task implementation period</i> (i.e. during the operation period) the annual cleaning and necessary maintenance of boxes (taking into account their replacement when worn), conducted with the participation, under the supervision and as per indications of an expert chiropterologist, shall be provided by the Employer.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p>	<p>Contractor (during <i>Task implementation period</i>)</p> <p>Employer (after <i>Task implementation period</i> [exclusively in respect of cleaning, maintenance and possible replacement of boxes throughout the use period])</p>

Item	Issue	Place	Mitigation measure	Entity
<p>T. IMPLEMENTATION OF MEASURES SPECIFIED IN THE RDOŚ DECISIONS PERMITTING DEROGATION FROM PLANT AND ANIMAL SPECIES PROTECTION PROHIBITIONS</p>				
113.	Protection of biotic nature	<p><i>Task implementation area</i> (within the stripes with the width of 300 m along the stream banks: Duna Dolna [in km 0+000-3+400] and Duna Górna [in km 0+000-1+400])</p>	<p>Implementation of the RDOŚ decision permitting derogation from plant species protection prohibitions</p> <p>In connection with the Task implementation, in the decision of RDOŚ in Wrocław of June 13th, 2016 for the “Krosnowice” dry flood control reservoir on Duna stream (reference: WPN.6400.22.2016.MR – Appendix 4b to the EMP) the following permits were issued with respect to specimens and habitats of protected plant species, occurring within the boundaries of the <i>Task implementation area</i>:</p> <ul style="list-style-type: none"> it is allowed to destroy specimens and habitats of 6 protected plant species (liverworts, mosses and vascular plants) mentioned in the aforementioned decision, located within the stripes with the width of 300 m along the stream banks: Duna Dolna [in km 0+000-3+400] and Duna Górna [in km 0+000-1+400]. <p>The aforementioned permits were granted on the following conditions:</p> <ol style="list-style-type: none"> performance of actions described in item 28 of this table; implementation of the permit in question along with the conditions imposed under the decision of RDOŚ in Wrocław of March 13th, 2015 on the environmental conditions for the construction of “Krosnowice” dry flood control reservoir on Duna stream (reference: WOOŚ.4204.2.2013.ŁCK.24 — Appendix 4a to the EMP), referred to in this table. <p>The permissions set out in the above mentioned decision are valid until December 31st, 2020.</p> <p>Information on the scope of the use of permits defined in the aforementioned decision shall be submitted to the Engineer in accordance with the conditions set out in item 123.</p>	Contractor
114.	Protection of biotic nature	<p><i>Task implementation area</i> (within the stripes with the width of 300 m along the stream banks: Duna Dolna [in km 0+000-3+400] and Duna Górna [in km 0+000-1+400])</p>	<p>Implementation of the RDOŚ decision permitting derogation from animal species protection prohibitions</p> <p>In connection with the Task implementation, in the decision of RDOŚ in Wrocław of June 13th, 2016 for the „Krosnowice” dry flood control reservoir on Duna stream (reference: WPN.6401.194.2016.MR – Appendix 4c to the EMP) the following permits were issued with respect to specimens and habitats of protected animal species, occurring within the boundaries of the <i>Task implementation area</i>, within the stripes with the width of 300 m along the stream banks: Duna Dolna [in km 0+000-3+400] and Duna Górna [in km 0+000-1+400]:</p> <ol style="list-style-type: none"> in relation to 2 protected species of amphibians and reptiles mentioned in item 1 of the aforementioned decision, it is allowed to perform the actions described in item 1 of the aforementioned decision; in relation to 4 protected species of mammals mentioned in item 2 of the aforementioned decision, it is allowed to perform the actions described in item 2 of the aforementioned decision; in relation to 3 protected species of fish and lampreys mentioned in item 3 of the aforementioned decision, it is allowed to perform the actions described in item 3 of the aforementioned decision; 	Contractor

Item	Issue	Place	Mitigation measure	Entity
			<p>4) in relation to 2 protected species of mammals mentioned in item 4 of the aforementioned decision, it is allowed to perform the actions described in item 4 of the aforementioned decision;</p> <p>5) in relation to 1 protected species of reptile mentioned in item 5 of the aforementioned decision, it is allowed to perform the actions described in item 5 of the aforementioned decision;</p> <p>6) in relation to 1 protected species of mammal mentioned in item 6 of the aforementioned decision, it is allowed to perform the actions described in item 6 of the aforementioned decision;</p> <p>7) in relation to 1 protected species of mammal mentioned in item 7 of the aforementioned decision, it is allowed to perform the actions described in item 7 of the aforementioned decision;</p> <p>8) in relation to 2 protected species of mammals mentioned in item 8 of the aforementioned decision, it is allowed to perform the actions described in item 8 of the aforementioned decision;</p> <p>9) in relation to 7 protected species of bats mentioned in item 9 of the aforementioned decision, it is allowed to perform the actions described in item 9 of the aforementioned decision;</p> <p>10) in relation to 64 protected species of birds mentioned in item 10 of the aforementioned decision, it is allowed to perform the actions described in item 10 of the aforementioned decision;</p> <p>11) in relation to 9 protected species of birds mentioned in item 11 of the aforementioned decision, it is allowed to perform the actions described in item 11 of the aforementioned decision;</p> <p>12) in relation to 2 protected species of bats mentioned in item 12 of the aforementioned decision, it is allowed to perform the actions described in item 12 of the aforementioned decision;</p> <p>13) in relation to 1 protected species of bird mentioned in item 13 of the aforementioned decision, it is allowed to perform the actions described in item 13 of the aforementioned decision.</p> <p>The aforementioned permits were granted on the following conditions:</p> <p>a) performance of actions connected with catching and transferring the specimens of protected animal species from the construction site area, described in item 15, 32 and 35 in this table;</p> <p>b) implementation of the permit in question along with conditions imposed under <i>the decision of RDOŚ in Wrocław of March 13th, 2015 on the environmental conditions for the construction of „Krosnowice” dry flood control reservoir on Duna stream</i> (reference: WOOŚ.4204.2.2013.ŁCK.24 — Appendix 4a to the EMP), referred to in this table.</p> <p>The permissions set out in the above mentioned decision are valid until December 31st, 2020.</p> <p>Information on the scope of the use of permits defined in the aforementioned decision shall be submitted to the Engineer in accordance with the conditions set out in item 123.</p>	

Item	Issue	Place	Mitigation measure	Entity
U. REQUIREMENTS CONCERNING CONTRACTOR'S STAFF INVOLVED IN EMP IMPLEMENTATION				
115.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p>Training of Contractor's staff as regards of EMP implementation</p> <p>The Contractor is obliged to provide training to its management, engineers and technicians on the principles and manners of implementation of conditions of the EMP that – consistent with Appendix 1 and 2 to the EMP – are assigned to the Contractor. At the end of those trainings, tests should be carried out to check participants' knowledge.</p> <p>In monthly reports submitted to the Engineer, the Contractor shall provide information on its personnel's training level in the scope of EMP provisions in the current reporting period.</p>	Contractor
116.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p>Appointment of EMP co-ordinator in the Contractor's staff</p> <p>A person in charge of co-ordination and supervision of activities related to EMP implementation shall be appointed in the Contractor's staff.</p> <p>This person shall be responsible, among others, for:</p> <ul style="list-style-type: none"> a) supervision over implementation of individual EMP conditions during various stages of Task implementation; b) regular monitoring of the implementation of individual conditions contained in Appendix 1 and 2 to the EMP in the <i>Task implementation area</i>; c) regular informing the Contractor's team management about duties stemming from the EMP at a given stage of works, as well as about any problems occurring in the scope of EMP implementation; d) collaboration with Contractor's remaining team members (including the team of environmental experts, team of archaeological experts and explosive ordnance disposal team, referred to in items 117, 118 and 119) in the scope of ensuring EMP implementation; e) reporting on EMP implementation (consistent with the principles given in items 121, 122 and 123); f) collaboration with persons in charge of EMP implementation in the Engineer's team and the Contractor's team. <p>The person appointed to perform the above-mentioned functions is subject to Engineer's approval.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
117.	Implementation and reporting of EMP	Task implementation area	<p>Ensuring a team of environmental experts</p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of a team of environmental experts, consisting of representatives of the following areas of specializations:</p> <ul style="list-style-type: none"> a) botanist-phytosociologist (nesting sites and protected plant species); b) botanist-bryologist (bryophytes); c) dendrologist (principles of maintenance and protection of trees); d) zoologist – expert on invertebrates (protected invertebrate species [especially butterflies and beetles], macrozoobenthos); e) zoologist-ichthyologist (fishes); f) zoologist-herpetologist (amphibians and reptiles); g) zoologist-ornithologist (birds); h) zoologist-chiropterologist (bats); i) zoologist-terriologist (land mammals). <p>Those experts shall be involved in performing chosen mitigation and monitoring measures specified in the EMP, in particular:</p> <ul style="list-style-type: none"> a) mitigation measures listed in Appendix 1 to EMP in items: 6, 11, 14, 15, 16, 20, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 48, 50, 52, 57, 58, 63, 72, 77, 110, 111, 112, 113, 114, 116, 117, 122 and 123; b) monitoring measures listed in Appendix 2 to the EMP in items: 124, 125 and 126. <p>The composition of the environment expert board is subject to Engineer’s approval.</p> <p>One member of the environment expert board is entitled to represent at most two natural science areas of specializations listed above in clauses a–i.</p> <p>Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the environment expert board’s activities.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
118.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p>Ensuring a team of archaeological experts</p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of a team of archaeological experts.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in items 107, 108, and 109 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the team of expert archaeologists may consist of one or more persons having appropriate industry qualifications. The composition of the team of expert archaeologists is subject to the Engineer’s approval. Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the team of expert archaeologists’ activities.</p>	Contractor
119.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p>Ensuring an explosive ordnance disposal team</p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of an explosive ordnance disposal team.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in item 99 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the explosive ordnance disposal team may consist of one or more persons having appropriate industry qualifications. The composition of the explosive ordnance disposal team is subject to the Engineer’s approval. Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the explosive ordnance disposal team’s activities</p>	Contractor
120.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p>EMP implementation discussion during working meetings and Site Meetings</p> <p>During the <i>Task implementation period</i>, monthly meetings of PIU representatives, the Engineer and the Contractor shall take place, which will be dedicated to discussion and control of the implementation of the mitigation and monitoring measures specified in the EMP.</p> <p>Irrespective of the foregoing, current requirements and problems related to EMP implementation shall be discussed during all Site Meetings.</p>	Contractor

Item	Issue	Place	Mitigation measure	Entity
V. REQUIREMENTS CONCERNING REPORTING OF EMP IMPLEMENTATION				
121.	Implementa- tion and reporting of EMP	<i>Task implementation area</i>	<p>Monthly reports on progress in EMP implementation</p> <p>During the <i>Task implementation period</i>, the Contractor shall submit to the Engineer monthly reports on the implementation of the conditions specified in the EMP (in a form of a checklist along with the necessary appendices, including the reports on the implementation of the environmental supervision).</p> <p>The template of the above-mentioned report (checklist) shall be prepared by the Contractor and submitted to the Engineer for approval.</p> <p>Depending on circumstances, the Engineer may demand from the Contractor additional reports on, inter alia, actual crisis situations, implementation of chosen EMP items, etc.</p>	Contractor
122.	Implementa- tion and reporting of EMP	<i>Task implementation area</i>	<p>Providing information on the implementation of the conditions contained in items 15, 27, 40 and 63 in Appendix 1 to the EMP to RDOŚ in Wrocław</p> <p>Information on arrangements on the manner and scope of the measures performance, referred to in items 15, 27, 40 and 63 (i.e. selected measures set out in the decision of the RDOŚ in Wrocław of March 13th, 2015, as well as documents confirming participation of experts (e.g. memorandum of understanding and expert's statement confirming proper performance of activities) shall be submitted to RDOŚ in Wrocław according to the following principles:</p> <p>a) during the <i>Task implementation period</i> (applies to all the above-mentioned measures):</p> <ul style="list-style-type: none"> – The Contractor shall submit the above information to the Engineer within 15 days after the agreements, and within 15 days after completion of the agreements implementation; – The Engineer shall submit the above information to the Employer within 7 days after receipt of the above information from the Contractor; – The Employer shall submit the above information to RDOŚ in Wrocław within 7 days after receipt of the above information from the Engineer (e.g. keeping the 30-day's deadline for the submission of the above information to RDOŚ after the above agreements or after the completion of the agreements implementation. <p>b) after completion of the <i>Task implementation period</i> (applies to the measures, referred to in item 63):</p> <ul style="list-style-type: none"> – The Employer shall submit the above information to RDOŚ in Wrocław within 30 days the agreements, and within 30 days after completion of the agreements implementation. 	Contractor Engineer Employer (according to principles specified in the description of the mitigation measure)

Item	Issue	Place	Mitigation measure	Entity
123.	Implementation and reporting of EMP	<i>Task implementation area</i>	<p><i>Providing information on the scope of use of permits mentioned in items 113 and 114 in Appendix 1 to the EMP to RDOŚ in Wrocław</i></p> <p>Information on the scope of the use of permits mentioned in items 113 and 114 (i.e. the conditions laid down in the 2 decisions of RDOŚ in Wrocław dated on June 13th, 2016) must be submitted to RDOŚ Wrocław according to the following rules:</p> <ul style="list-style-type: none"> – the Contractor shall submit the above information to the Engineer not later than on December 15th, 2020 (or by the end of the <i>Task implementation period</i>, if it takes place before December 15th, 2020); – the Engineer shall submit the above information to the Employer within 15 calendar days from the receipt of the aforementioned information from the Contractor (however not later than by December 31st, 2020); – The Employer shall submit the above information to RDOŚ in Wrocław not later than on January 15th, 2021. 	Contractor Engineer Employer (according to principles specified in the description of the mitigation measure)