

Appendix 1 Plan of mitigation measures

NOTE:

This Appendix to the Environmental Management Plan (EMP) for the Works Contract 3D.2/1 *Construction of the right embankment of the Biała River in the City of Tarnów* specifies the terms and conditions for the implementation of the Contract in terms of measures mitigating adverse impact on the environment. **The costs and the schedule of implementation of those measures should be included in the bid.**

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Conditions described in Appendix 1 to the EMP in reference to the Contractor and its personnel (regardless of the legal form of cooperation) are grouped in the following categories:

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Definitions of the table in Appendix 1 to the EMP:

1. Unless otherwise stated, the definition **Contract Area** refers to the area of performance of any preparatory works, main works (including Permanent Works and Temporary Works) and any other works related to removal of faults and defects or completion of unfinished works enlisted in the Take-over Certificate or reported in the Defects Liability Period, Guarantee and Warranty together with the area of necessary temporary acquisition.
2. Unless otherwise stated, the definition **Contract Implementation Period** refers to the period of performing any preparatory works, main works (including Permanent Works and Temporary Works) and any other works related to removal of faults and defects or completion of unfinished works enlisted in the Take-over Certificate or reported in the Defects Liability Period, Guarantee and Warranty.

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
A. REQUIREMENTS ON SCHEDULE OF WORKS					
1		Schedule of works	The Contract area	<p>EMP conditions on the schedule of works</p> <p>When setting work schedules and at the stage of their implementation, the EMP conditions regarding the dates and time of conducting various types of work should be taken into account, described in detail in the consecutive items of the table, including, but not limited to:</p> <ul style="list-style-type: none"> a) acceptable hours of works (see item 75); b) acceptable dates for removing (felling) trees and shrubs (see item 33); c) dates of environmental inspection before removal (felling) of trees (see item 34); d) the optimal date for conducting works within the root volumes of trees and shrubs (see item 39); e) dates of inspections related to ensuring the protection of small animals on the site (see items 46 and 47); f) dates of inspection for the Contract area by the team of environmental experts (see item 52); g) agreeing deadlines for carrying out land reclamation works (see item 57); h) deadlines for reporting the implementation of the EMP (see item 107). 	Contractor/Site Manager
2		Schedule of works	The Contract area with access roads and their	<p>EMP conditions on activities to be carried out before or at the initial stage of works</p> <p>When setting work schedules and at the stage of their</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
			neighbourhood	<p>implementation, the EMP conditions should be taken into account regarding activities to be carried out before or at the initial stage of works, described in detail in the following items of the table, including:</p> <ul style="list-style-type: none"> a) conditions for building and equipping the construction site facilities, service roads and sites (see items 14 - 17, 62, 65 – 70, 85 – 87, 93). b) conditions for the road access to the construction site (see items 4 – 13, 110); c) the condition for removing and securing the topsoil/mineral soil (see items 27 - 32); d) the condition for securing trees and shrubs unintended for removal (felling) (see item 35); e) conditions for the implementation of environmental inventories (see items 43, 44, 51); f) the condition for securing the building site against the entry of small animals (see item 46); g) the condition for obtaining decisions authorizing exceptions to the principles of species protection of plants, fungi and animals (see items 53, 54); h) conditions for the development of selected documents (see items 53, 54, 84, 89, 96, 107); i) conditions for documentation of technical condition of buildings and infrastructure facilities (see item 11, 91); j) the condition for explosive ordnance survey of the site (see item 90); k) the condition for inventory of illegal landfills and waste disposal (see item 88); l) the condition on heritage protection (see items 99 - 	

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				101); m) the condition for obtaining the Engineer's approval for the appointed person to be EMP coordinator and the composition of the team of environmental experts, the team of archaeological experts and the team of sappers (see items 102 - 105). n) the condition for training on the guidelines of the EMP implementation (see item 101).	
3	III.1	Schedule of works	Contract area	<p><i>Synchronizing the works with development of the left embankment of the River Biała</i></p> <p>Implementation of the Works Contract shall be synchronized in time with development of the left flood embankment of the River Biała at chainage about km 6+680 to 7+700 in order to avoid increasing the flood hazard for the Koszyckie Estate in Tarnów (through construction of the embankment under application).</p> <p>The Investor shall bespeak the development of design documentation for the construction of a left flood embankment at chainage from about km 6+680 – 7+700 of the River Biała, including obtainment of administrative decisions, and subsequently shall procure construction of the subject section of embankment.</p>	Investor

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
B. REQUIREMENTS ON ROAD ACCESS TO THE CONTRACT AREA					
4		Earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>The Contractor shall ensure proper marking of all access roads to the <i>Contract area</i>, in accordance with applicable law and arrangements with relevant Road Managers. These markings will be regularly inspected, and in the event of their destruction or theft, the Contractor will immediately take action to restore or complement them.</p>	Contractor/Site Manager
5		Health and safety protection, Protection of tangible properties	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>The Contractor shall ensure protection of people against increased traffic volume on roads used during construction works.</p> <p>During the Contract implementation period, the Contractor will provide, install and operate all temporary safety devices (e.g. traffic lights, information boards, safety barriers), thus ensuring the safety of vehicles and pedestrians.</p>	Contractor/Site Manager
6	II.12	Protection of tangible properties, earth surface protection, water protection, Protection of animate nature	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>Delivery routes for the construction equipment and for the means transporting construction material to the Contract area should be set out within the existing network of traffic routes and limited to the necessary minimum.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
7	II.12 III.3	Protection of tangible properties, earth surface protection, water protection, Protection of animate nature	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>If development of additional access roads (technical lanes) to the Works Contract site would be necessary, a temporary course shall be arranged - within their routes – using reinforced-concrete slabs having a width of up to 3.0 m, and those shall be removed after the completion.</p> <p>A road shall be set out as a shortest possible section, beyond the areas of high environmental values.</p> <p>Temporary access roads / technical lanes shall be set out to avoid felling of trees or shrubs.</p> <p>The planned location of access roads shall be agreed with the team of environmental experts (including e.g. phytosociologist) and presented for the Engineer’s approval along with the aforementioned establishments.</p>	Contractor/Site Manager/Environmental team - phytosociologist
8		Earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>Compacted surfaces (e.g. technological and access roads) and related facilities applied for their proper application, used by the cars transporting building materials and aggregate, should be kept in a proper technical condition.</p>	Contractor/Site Manager
9		Health and safety protection, Protection of tangible properties, earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>The Contractor shall comply with the statutory load limits on the axle when transporting materials and equipment to and from the <i>Contract area</i>. The Contractor shall obtain all necessary permits for the transport of non-standard loads and shall notify the Engineer of any such transport on a continuous basis.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
10		Health and safety protection, Protection of tangible properties, earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>The Contractor will be liable for any damage to civil structures and buildings, roads, drainage ditches, culverts, water and gas pipelines, power poles and lines, cables, geodetic control points and installations of any kind, and other types of objects such as vertical and horizontal markings, navigation markings, information boards, cultural heritage structure, etc., caused by him or his subcontractors, service providers and suppliers during the implementation of the Contract. The Contractor is also responsible for restoring the flow of ditches and drainage systems in the area of works and used transport roads, in the event of damages caused by the performance of works and transport connected with the works.</p> <p>The Contractor shall immediately repair any damage at its own expense and, if necessary, carry out other work ordered by the Engineer.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
11		Earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>a) the Contractor is obliged to provide photographic documentation of the entire Contract area and access roads, with particular reference to the technical condition of roads and buildings located in the vicinity of the roads for transporting building materials. The completed documentation should be described with the place and the date of development thereof.</p> <p>b) prior to the commencement of works, the Contractor shall carry out site inspections in the presence of Road Managers, subsequently to which the protocols of the condition of access roads to the <i>Contract area</i> shall be developed. Based on the protocols, the Contractor will be obliged to restore the technical condition of the roads.</p>	Contractor/Site Manager
12		Health and safety protection, Protection of tangible properties, earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>a) the Contractor is obliged to agree with Administrators of roads the traffic management plan and security of the works. The Contractor is obliged to carry out the draft traffic management according to agreed designs (marking and securing of the <i>Contract area</i>, marking of detours and recommended marking of roads, related to the change in traffic management, etc.).</p> <p>b) prior to the commencement of works, the Contractor shall submit to the Engineer for approval the traffic management plan and security of works as agreed upon with Road Managers and traffic authorities as well as the traffic management schedule. Depending on the needs and progress of works, draft traffic management plans should be updated by the Contractor on a regular basis.</p>	Contractor/Site Manager

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13		Health and safety protection, Protection of tangible properties, earth surface protection	Access roads to the Contract area with their neighbourhood	<p>Conditions for using access roads to the Contract area</p> <p>The Contractor is obliged to provide access routes for ambulances and fire brigades throughout the whole period of works, to designate roads, exits and pedestrian crossings and parking spaces for vehicles used on site.</p>	Contractor/Site Manager
C. REQUIREMENTS ON LOCATIONS OF SITE FACILITIES AND SERVICE ROADS AND YARDS					
14		Water and soil protection, Protection of animate nature	The Contract area	<p>Obligation to build site facilities, service roads and yards</p> <p>Construction site facilities, service roads and yards must be completed prior to the commencement of construction works.</p> <p>Construction site facilities are used to store building materials, for garaging, refueling and repairing of vehicles, machines and equipment, and to provide location of social facilities (locker rooms, office, workshop, portable sanitary cabins) and waste containers.</p> <p>Equipment for site facilities should meet, among others, conditions provided for in items 46, 62, 65 – 70, 85 – 87, 93.</p> <p>When planning the abovementioned facilities of the construction site their space should be limited to the necessary minimum.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
15	II.3	Water and soil protection, Protection of animate nature	The Contract area	<p>Conditions for the location of construction site facilities, yards, storage/disposal sites, etc.</p> <p>Site facilities in the form of reloading/storage/construction yards shall be fenced and hardened using concrete road slabs.</p> <p>One shall designate a sealed place on the site for fueling and for minor repairs to the construction equipment (the sealing should include placement of a geo-membrane – foil underneath the concrete slabs).</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
16	II.3	Earth surface protection, habitat protection, protection of the soil and water environment, Acoustic climate protection	<i>The Contract area</i>	<p>Conditions for the location of construction site facilities, yards, storage/disposal sites, etc.</p> <p>Materials storage place, social facilities and parking lots for machines and equipment should be located:</p> <ul style="list-style-type: none"> a) In the greatest distance from residential houses, b) in the areas with the lowest natural values, taking into account the principle of minimizing land acquisition and transformation of its area and the obligation of land reclamation after completion of works, c) outside the immediate vicinity of flood waters of the river and outside the areas where water may be contaminated, d) outside the embanked area, e) at a distance of not less than 100 m from existing watercourses, water reservoirs and wetlands; f) in the areas ensuring no impact of noise on acoustically protected areas. <p>The locations intended for site facilities and the abovementioned components of the construction site, as well as the Site Facilities Plan should be agreed with a team of environmental experts (including a phytosociologist and zoologists) and presented for the Engineer's approval together with expert agreements.</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
17	III.3	Protection of animate nature, water protection, earth surface protection	<i>The Contract area</i>	<p>Conditions for the location of service roads</p> <p>Service roads should be located:</p> <ul style="list-style-type: none"> a) outside the areas with the highest natural values; if the condition cannot be met in a given location, service roads should be located in the immediate vicinity of works, taking up minimum necessary space of the areas; b) at the maximum possible distance from existing watercourses, water reservoirs and wetlands; c) in the first place on existing roads, including existing roads linear to and on flood banks; d) in a way avoiding felling of trees and shrubs. <p>The locations intended for service roads should be agreed with a team of environmental experts (including a phytosociologist) and presented for the Engineer's approval together with expert agreements.</p>	Contractor/Site Manager/Environmental team
18	II.31	Water and soil protection	<i>The Contract area</i>	<p>Performance conditions</p> <p>Organization of and technical conditions for the performance associated with implementation of the Works Contract shall eliminate the possibility of disturbing water relations.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
19	II.2	Earth surface protection, water and soil protection	<i>The Contract area</i>	<p>Economical use of the site and limitation of works on the embanked area</p> <p>Organization of the construction site shall include protection of soil comprising especially inclusion of the minimizing rule for land acquisition and transformation. One shall adopt the minimum width of work zone to damage the smallest possible area of vegetation.</p> <p>All works related to the implementation of the Contract should be carried out to the maximum extent possible outside the areas of the existing embanked area.</p>	Contractor/Site Manager
20		Earth surface protection, water and soil protection	<i>The Contract area</i>	<p>Economical use of the site - materials storage place</p> <p>When outlining storage spaces, their number and area should be limited to the extent necessary for the current works or activities.</p> <p>In the case the areas intended for storage of materials become empty, such areas should be reused as far as possible for further storage of materials.</p>	Contractor/Site Manager
21		Obtainment of properties for temporary acquisition	<i>The Contract area</i>	<p>Buy-outs and compensation</p> <p>Buy-outs and compensation as well as assistance for Project Affected Persons (pursuant to Land Acquisition and Resettlement Action Plan).</p>	PIO/Contractor's team/Engineer
22		Obtainment of properties for temporary acquisition	<i>The Contract area</i>	<p>Payment of compensation</p> <p>Payment of compensation by the Contractor for temporary acquisition prior to the commencement of works (in accordance with the Land Acquisition and Resettlement Action Plan).</p>	PIO/Contractor's team/Engineer

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
D. REQUIREMENTS ON THE QUALITY AND MANAGEMENT OF SOILS					
23		Water and soil protection	<i>The Contract area</i>	<p>Management of the soils from within the construction site</p> <p>Soils located on the construction site (including earth masses) should first be used on the construction site. The remaining excess of soil should be managed in accordance with the design documentation. The procedure for dealing with soil constituting waste should be presented in the Waste Management Plan prepared by the Contractor and submitted to the Engineer for approval prior to the commencement of works (in accordance with item 84 – preparation of a Waste Management Plan (Waste MP)).</p>	Contractor/Site Manager
24	III.2 II.29	Water and soil protection	<i>The Contract area</i>	<p>Conditions for the use of soil applied for construction of the embankment</p> <p>The flood embankment shall be designed of natural soil assuring proper parameters – strength and condensation.</p> <p>Relevant condensation of slopes shall be obtained through placement and compaction of soil in layers of about 20 cm to reach the proper condensation rate $I_s > 0.92$.</p>	Contractor/Site Manager
E. REQUIREMENTS FOR WORKS IN THE EMBANKED AREA AND IN CHANNELS					
25	II.26	Water and soil protection	<i>The Contract area</i>	<p>Ban to obtain soil from the embanked area</p> <p>It is not allowed to extract soil from the embanked area.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
26	II 27 II.32	Protection of animate nature, Water and soil protection	<i>The Contract area</i>	<p>Ban to affect the channel and the riverside</p> <p>Within the Contract implementation period no interfering is allowed in channels and banks of water-courses, which includes:</p> <ul style="list-style-type: none"> a) banned traffic of vehicles, machines, and devices; b) banned extraction of aggregate from the river-bed for construction purposes; c) banned intake of water from the river-bed; d) ban to pollute and litter the Biała river-bed and the embanked area, especially with diesel derivatives, storage of materials, etc. – the construction works cannot result in deterioration of the cleanliness of surface water and of groundwater. 	Contractor/Site Manager

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
F. REQUIREMENTS ON PROCEEDING WITH TOPSOIL/MINERAL SOIL					
27	II.14 II.15	Soil protection, Protection of animate nature	<i>The Contract area</i>	<p>Collecting the top layer of soil</p> <p>In order to protect the layer of topsoil from the Contract area:</p> <ul style="list-style-type: none"> a) prior to the commencement of earthworks on a given area, it should be inspected for the presence of protected species; b) prior to the commencement of works top layer of soil shall be removed from the work area, and it shall be stored in piles in vicinity of the work zone; c) one shall not perform the works associated with the removal of top layer of soil during intensive rainfall or just afterwards. <p>Earthworks should be carried out under the supervision of a naturalist.</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
28	II.14	Earth surface protection, soil protection	<i>The Contract area</i>	<p>Storing of top-soil</p> <p>The removed layer of top-soil shall be stored in the following way:</p> <ul style="list-style-type: none"> a) removed top-soil shall be stored beyond the area of earthworks in piles; b) the precise location of top-soil piles should be pre-arranged with a team of environmental experts (including phytosociologist and zoologist), so that top-soil storing does not degrade natural habitats and protected species, nor does it adversely affect the condition of trees and shrubs; c) storage piles of top-soil should be secured against: contamination, being driven over by vehicles, compaction, storage of building materials, etc.; d) storage piles of top-soil, until they are reused for final shaping of the embankment and adjacent areas, shall be kept in adequate humidity, in a manner allowing for its reuse – they should be systematically sprinkled, with a frequency depending on the weather. 	Contractor/Site Manager/Environmental team
29	II.14	Earth surface protection, soil protection	<i>The Contract area</i>	<p>Use of top-soil</p> <p>Upon the completion of construction works the top-soil should be entirely used to reinstate the area.</p>	Contractor/Site Manager/Environmental team
30		Earth surface protection, soil protection	<i>The Contract area</i>	<p>Collecting the mineral soil layer</p> <p>About 40 cm thick layer of mineral soil shall be removed after removing the top-soil (locally more due to arrangement of bentomat).</p>	Contractor/Site Manager

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31		Soil protection, Protection of animate nature	<i>The Contract area</i>	<p>Storing the mineral soil</p> <p>The removed layer of mineral soil shall be stored in the following way:</p> <ul style="list-style-type: none"> a) removed mineral soil shall be stored beyond the area of earthworks in piles; b) the precise location of mineral soil piles should be pre-arranged with a team of environmental experts (including phytosociologist and zoologist), so that mineral soil storing does not degrade natural habitats and protected species, nor does it adversely affect the condition of trees and shrubs; c) storage piles of mineral soil should be secured against: contamination, being driven over by vehicles, compaction, storage of building materials, etc.; d) storage piles of mineral soil, until they are reused for final shaping of the embankment and adjacent areas, shall be kept in adequate humidity, in a manner allowing for its reuse – they should be systematically sprinkled, with a frequency depending on the weather. 	Contractor/Site Manager/Environmental team
32		Earth surface protection, soil protection	<i>The Contract area</i>	<p>Use of mineral soil</p> <p>The stored mineral soil should be used at later stages of construction.</p>	Contractor/Site Manager

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
G. REQUIREMENTS FOR REMOVAL OF TREES AND SHRUBS (FELLING)					
33	II.17	Protection of animate nature	<i>The Contract area</i>	<p>Acceptable time of removing (felling) trees and shrubs</p> <p>Felling of trees and shrubs shall be limited to the necessary minimum.</p> <p>The felling shall be done beyond the hatching season of birds – from October the 16th until the end of February.</p> <p>Occasional felling may be done during the hatching season of birds under environmental supervision – only after an ornithologist stated that nests and hollows are not occupied, there are no nestlings, and trees or shrubs to be logged are not inhabited by other animals under protection.</p>	Contractor/Site Manager/Environmental team - ornithologist
34		Protection of animate nature	<i>The Contract area</i>	<p>Environmental supervision before and during the removal (felling) of trees with diameter of over 40 cm at breast height</p> <p>In case of removing trees with diameter of over 40 cm at breast height the following rules apply:</p> <p>a) The removal (felling) of trees with diameter of over 40 cm at breast height shall be preceded with inspection for those trees in terms of identifying protected species of invertebrates and bats, done by expert entomologist and expert chiropterologist, not later than 1 week before the logging of a given tree;</p> <p>b) In case of identifying the occurrence of protected species of invertebrates and/or bats in trees to be removed (felled), the aforementioned experts shall indicate acceptable time and methods for the removal and shall determine proceeding methods for wood inhabited by species of protected animals.</p> <p>c) Time of the removal (felling) established with the</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>aforementioned experts cannot violate conditions determined under item 33 - Acceptable time of removing (felling) trees and shrubs. In case of trees with identified presence of bats, the optimal time of felling is from September the 1st to October the 31st;</p> <p>d) The removal (felling) of trees with diameter of over 40 cm shall be done under a direct supervision of the aforementioned expert entomologist and expert chiropterologist;</p> <p>e) In case of identifying presence of specimens of protected species of invertebrates and/or bats in trees to be removed (felled), the aforementioned experts shall determine proceeding methods for wood inhabited by species of protected animals and methods limiting mortality among identified specimens of protected animals;</p> <p>f) In case of identifying presence of protected species of invertebrates and/or bats in trees planned to be removed (felled) and/or in trees to be removed (felled), one shall obtain an administrative decision required by law, which would allow for departure from bans referring to protected species of animals (if required in a given case).</p> <p>g) Transfer of specimens of protected species of invertebrates and/or bats in trees planned to be removed (felled) and/or in trees to be removed (felled) may be done under a direct supervision of the aforementioned expert entomologist and expert chiropterologist only.</p>	

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
H. REQUIREMENTS ON PROTECTING TREES AND SHRUBS NOT INTENDED FOR REMOVAL (FELLING)					
35	II.20	Protection of animate nature	<i>The Contract area</i>	<p>Protection of tree trunks not intended for removal (felling)</p> <p>Prior to the commencement of construction works, tree trunks not to be felled shall be protected against mechanical damage for the time of works (e.g. through application of fencing, trunk covers made of straw mats or jute, sheets made of planks or OSB panels – up to the level not lower than 150 cm).</p> <p>In case of applying plank covers, the planking should be attached to the trunk (e.g. with wire bands or steel tape) in a way that does not harm the tree.</p> <p>During the Contract implementation period, the condition of protection for tree trunks exposed to damage should be monitored on an ongoing basis and the protection should be maintained in a proper condition providing efficient protection against mechanical damage.</p> <p>After the completion of works trunk protection should be removed.</p> <p>Works near root systems and trunks should be done by hand. It is not allowed to leave the root blocks uncovered for a long time to prevent them from drying out.</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
36	II.19	Protection of animate nature	<i>The Contract area</i>	<p>Protection of the areas under crowns of trees and shrubs</p> <p>Construction works should be carried out in a way that does not harm trees and shrubs that have not been intended for removal (felling).</p> <p>At a distance of less than 1 m from the edge of the protrusion of the crown of trees and shrubs not intended for removal (felling), it is forbidden to:</p> <ul style="list-style-type: none"> a) outline roads and service yards, parking lots and other elements that may influence the increase in tamping and changes in soil aeration; b) allow for traffic, stopover and parking of vehicles, machines and equipment; c) store earth masses (including topsoil) and building materials (in particular bulk materials); d) condensate the ground; e) smoke or use fire, use equipment or machines producing high temperature that can cause drying of the crown of trees. <p>The storage of cement, aggregates, diesel, fuels and binders is prohibited at a distance of less than 10 m from trunks of trees and shrubs not intended for removal.</p> <p>The method of forming and compacting embankments in the vicinity of trees and shrubs not intended for removal shall be agreed with an expert dendrologist, and the results of the findings should be submitted to the Engineer for approval.</p>	Contractor/Site Manager/Environmental team - dendrologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
37	II.20	Protection of animate nature	<i>The Contract area</i>	<p>Protection of tree branches exposed to damage</p> <p>Tree boughs shall be protected through e.g. tying them to the lowest branches (boughs) or to ones placed at small height, to the ones placed above, or to support them with a prop to avoid damages to bark.</p>	Contractor/Site Manager/Environmental team - dendrologist
38		Protection of animate nature	<i>The Contract area</i>	<p>Preventive cutting of branches of trees exposed to damage</p> <p>In the case of exposure of tree boughs and branches to mechanical damage by working or moving vehicles, machines and equipment, preventive cutting of tree branches exposed to damage should be carried out.</p> <p>These pruning cuts - under the supervision of an expert dendrologist - cannot disturb the natural habit of trees (they cannot cover more than 1/3 of the green mass), they should ensure stability and statics of trees (pruning must be even on each side of the crown).</p>	Contractor/Site Manager/Environmental team - dendrologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
39		Protection of animate nature	<i>The Contract area</i>	<p>Carrying out works within root blocks of trees and shrubs</p> <p>Works in the vicinity of root blocks of trees and shrubs not intended for removal (felling) should only be carried out manually, subject to the following conditions:</p> <ul style="list-style-type: none"> a) skeletal roots (with a diameter of over 4 cm) should not be cut off; b) excavations should be carried out no closer than 2 m from the trunk; c) the time of root exposure to drying should be shortened to the minimum (while maintaining the conditions referred to in item 40 - Securing of exposed roots of trees and shrubs); d) the suitable period for carrying out the work in question is from October to April, e) it is prohibited to store any materials, soil or construction waste near tree trunks. 	Contractor/Site Manager/Environmental team - dendrologist
40		Protection of animate nature	<i>The Contract area</i>	<p>Securing of exposed roots of trees and shrubs</p> <p>Exposed roots of trees and shrubs not intended for removal (felling) should be covered with straw or jute mats. At positive temperatures, these mats should be abundantly moistened with water (to prevent drying of the roots), while at negative temperatures these mats should be dry (to avoid freezing of the roots).</p>	Contractor/Site Manager/Environmental team - dendrologist

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
41		Protection of animate nature	<i>The Contract area</i>	<p>Securing of damaged trees and shrubs</p> <p>In case aboveground parts of trees and shrubs not intended for removal have been damaged, the necessary care measures should be carried out immediately, adequate to the place and type of damage.</p> <p>In case of root damage, the ends should be trimmed off and the roots secured with a fungicide.</p> <p>The abovementioned activities should be performed in consultation with the team of environmental experts – expert dendrologist, and after they have been completed, the Engineer should be presented with an opinion on the aforementioned team regarding the assessment of the activities.</p>	Contractor/Site Manager/Environmental team - dendrologist
42	II.13	Protection of animate nature	<i>The Contract area</i>	<p>Protection of vegetation growing beyond the work area</p> <p>The works should be clearly marked in a way visible for operators of heavy equipment in order to avoid damage to vegetation located beyond the set-out work area.</p>	Contractor/Site Manager
I. REQUIREMENTS ON SECURING PROTECTED NATURAL RESOURCES					
43		Protection of animate nature	<i>The Contract area</i>	<p>One-time environmental inventory of the area of works prior to the commencement of works</p> <p>Prior to the commencement of works, a one-time environmental inventory of the Contract area shall be done, performed by a team of environmental experts, referred to in item 103 - Providing a team of environmental experts.</p> <p>The purpose of the inventory is to determine the current distribution of natural habitats and habitats and sites of protected species of flora and fauna, including ongoing revision of information on the subject as included in the</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>Environmental Impact Report (drawn up in 2014, together with later updates) and in the Investment Data Sheet (drawn up in 2014).</p> <p>If the presence of natural habitats and habitats or protected sites of plant and animal species in the Contract area has been confirmed, it is necessary to act as follows:</p> <p>a) in the case of natural habitats - further actions should be agreed with a competent environmental team's expert, and the results of the findings should be submitted to the Engineer for approval;</p> <p>b) in the case of habitats or sites of protected species - perform the actions referred to in item 53 (Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species indicated in the EIA and the Investment Data Sheet) and item 54 (Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for newly detected habitats and sites of protected species);</p> <p>c) identified representatives of protected species (e.g. amphibians, reptiles, birds) should be relocated outside the Works Contract site to a place with similar habitat conditions, far away enough from the Works Contract site, so that animals cannot return to this area until the work has been completed. All work will require an appropriate administrative decision in accordance with the procedure indicated in the above item - b). (Before relocating amphibians, one needs to obtain the permit of the owner or manager of the reservoir, watercourse or terrain to which they will be transferred).</p>	

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
44	II.16	Protection of animate nature	<i>The Contract area</i>	<p>One-time environmental inventory for the newly formed embanked area</p> <p>Prior to the liquidation works within the newly formed embanked area, one shall perform an inventory of flora. Any specimens of alien and invasive species identified shall be removed from the area of newly formed embanked area.</p>	Contractor/Site Manager/Environmental team
45		Protection of animate nature	<i>The Contract area</i>	<p>Limiting the time of the Contract completion</p> <p>The Contractor should ensure such organization of works as to shorten the duration of the Contract as much as possible and in this way minimize the adverse impact of works on animals living in the area of the Contract and its neighbourhood.</p>	Contractor/Site Manager
46	II.25	Protection of animate nature	<i>The Contract area</i>	<p>Securing the Contract area against small animals entering the site</p> <p>Works should be performed in such a way as to avoid killing of animals.</p> <p>If seasonal migrations of amphibians are reported to take place on the Works Contract site, the area of works should be secured so that the amphibians cannot get to the site where they would be at risk - for this purpose, one shall properly fence the area of works with a fencing having a minimum height of 0.5 m, including 10 cm overhang on the outside (e.g. foil, agro-textile). In the bottom part the fencing material shall be driven into the ground – fences shall tightly adjoin the ground and they need to be anchored. Amphibians should be caught and moved outside the Works Contract site under environmental supervision done by an expert naturalist experienced in field works, having know-how and abilities to recognize</p>	Contractor/Site Manager/Environmental team – herpetologist and theriologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>species and habitats in a wide range.</p> <p>Determining the precise location of fencing securing the Contract area against animals entering the site and installation of the abovementioned fencing should be carried out under the supervision of an expert herpetologist and an expert theriologist.</p> <p>The above-mentioned action should be performed without detriment to the implementation of the activities indicated in items 49 and 50.</p> <p>During the entire period of the Contract implementation, in case of applying the abovementioned measures, the condition of the abovementioned fencing should be inspected on regular basis and any possible gaps should be immediately removed, including:</p> <ul style="list-style-type: none"> a) from March the 1st to August the 31st these inspections should be carried out at least once every 3 days; b) from September the 1st to the end of February - not less than once every 10 days. <p>Fencing inspections should be carried out with the participation of the abovementioned experts.</p>	

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
47	II.21 II.22 II.23	Protection of animate nature	<i>The Contract area</i>	<p><i>Inspection of places that could be traps for small animals</i></p> <p>The Construction site, and especially the opened excavations, shall be properly protected against forming of traps for animals.</p> <p>In the end of each working day one shall protect such sites through filling, covering with stiff materials (e.g. planks, chipboards), or through tight fencing.</p> <p>The excavations shall be left opened for the shortest possible time.</p> <p>Prior to the commencement of works on each working day one shall inspect the construction site in terms of animal presence, and one shall similarly inspect the bottom and walls of excavations prior to their removal (filling, embedding). If necessary, one shall allow the animals to leave the excavations or – eventually – catch the animals in a safe way and release them beyond the Works Contract area.</p> <p>In the periods from March the 1st to May the 15th and from September the 15th to October the 15th, a second inspection should also be carried out every day in the late afternoon.</p> <p>The last inspection for the presence of animals in the excavations should be carried out immediately before backfilling the excavations.</p> <p>Inspections should be carried out under the guidance and in accordance with the guidelines of an expert herpetologist and expert theriologist, who will also coordinate and indicate the places of release of caught animal species.</p> <p>All wells, excavations and other anthropogenic structures which may be a trap for amphibians and small mammals should be secured according to the guidelines and under the guidance of the abovementioned expert herpetologist and expert theriologist.</p>	Contractor/Site Manager/Environmental team – herpetologist and theriologist
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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
48	II.24	Protection of animate nature	<i>The Contract area</i>	<p><i>Ongoing liquidation of marginal water deposits in the Contract area</i></p> <p>During the Contract implementation period, one shall avoid forming of ruts and other land pits, where water may stay, in order to avoid provision of potentially unstable breeding habitats for amphibians. It is necessary to permanently eliminate marginal water deposits in places which may interfere with ongoing or scheduled works as well as in places where ongoing or scheduled traffic of vehicles, machines and equipment is to be run.</p> <p>This measure aims to prevent the settlement of protected amphibian species in the Contract area during the performance of works. This activity should be carried out in consultation with a herpetologist, who will also supervise if the procedures are followed.</p>	Contractor/Site Manager/Environmental team - herpetologist
49		Protection of animate nature	<i>The Contract area</i>	<p><i>Ensuring the possibility of safe migration of amphibians</i></p> <p>Works should be carried out in a manner that ensures the safe migration of amphibians, including the migration through designed internal roads within the Contract area. Detailed rules for meeting this condition should be agreed with a herpetologist, who will also supervise if the procedures are followed.</p> <p>The abovementioned agreements with a herpetologist should be submitted to the Engineer for approval.</p>	Contractor/Site Manager/Environmental team - herpetologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
50		Protection of animate nature	<i>The Contract area</i>	<p>Trapping and relocating small animals from the Contract area</p> <p>If small animals are reported to inhabit the Contract area (amphibians, reptiles, small non-flying mammals, bats), in places where works may pose a threat to their life or health, they should be trapped and relocated from the Contract area to the appropriate habitats, located outside the impact of the works.</p> <p>These actions should be performed under the supervision of a competent environmental expert (herpetologist, theriologist and/or chiropterologist).</p>	Contractor/Site Manager/Environmental team - herpetologist, theriologist, chiropterologist
51	II.16	Protection of animate nature	<i>The Contract area</i>	<p>Fighting alien invasive plant species</p> <p>During the works, alien invasive plant species should be removed (at least twice a year, in the entire Contract area), until they disappear and are replaced with local vegetation.</p> <p>Prior to the commencement of removal within the newly formed embanked area, one shall inventory flora. All identified specimens of alien and invasive plant species shall be removed from the newly formed embanked area.</p> <p>Removal of alien invasive plant species should be done by pulling out the plants (along with the root ball), transporting and then disposing of them.</p> <p>The actions should be carried out in accordance with detailed instructions specified by the expert phytosociologist.</p>	Contractor/Site Manager/Environmental team - phytosociologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
52		Protection of animate nature	<i>The Contract area</i>	<p><i>Ongoing inspections of the team of environmental experts during the Contract implementation period</i></p> <p>Works and other works performed during the Contract implementation period should be carried out under the ongoing supervision of a team of environmental experts (referred to in item 103).</p> <p>These experts should, among others, carry out regular inspections of the entire area of the Contract (at least once a month) and submit their comments and recommendations to the Contractor's staff responsible for carrying out works in accordance with the EMP conditions.</p> <p>The notes from the inspections should be made in writing, attached to the monthly reports on the implementation of the EMP conditions (referred to in item 107 - Reporting the implementation status of the EMP).</p>	Contractor/Site Manager/Environmental team

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
53		Protection of animate nature	<i>The Contract area</i>	<p><i>Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the habitats and sites of protected species shown in the EIA Report and the Investment Data Sheet</i></p> <p>In respect of the resources of protected animals species, as shown in the Environmental Impact Report along with subsequent updates, and in the Investment Data Sheet, the following actions should be performed before the commencement of construction works:</p> <p>a) The Contractor shall obtain and submit to the Engineer for approval a written opinion of the team of environmental experts including the specification of:</p> <ul style="list-style-type: none"> • the extent of the possible impact of the works on the identified natural resources, and • the need to obtain the decision referred to in item b herein, <p>and then, if it proves necessary in the light of the abovementioned opinion, the Contractor shall carry out the activities referred to in items b-d (hereunder);</p> <p>b) before taking any actions that may lead to the destruction of habitats and sites or flushing out the representatives of protected species, the Contractor is required to obtain the administrative decision required by law, allowing for exceptions to the binding prohibitions regarding protected species of plants, fungi and animals;</p> <p>c) the Engineer should be notified of the decision obtained;</p> <p>d) the Contractor is obliged to precisely and timely implement the conditions contained in the abovementioned decision.</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
54		Protection of animate nature	<i>The Contract area</i>	<p>Obtaining a decision allowing for exceptions to the principles of species protection of plants, fungi and animals for the newly detected habitats and sites of protected species</p> <p>If prior to the commencement or during the performance of construction works in the Contract area, the presence of habitats or sites of protected species of flora and fauna has been reported (other than the sites referred to in item 53), then then the Contractor shall undertake measures listed in item 53.</p>	Contractor/Site Manager/Environmental team
55		Protection of animate nature	<i>The Contract area</i>	<p>Relocation of protected species</p> <p>Prepare a report and photographic documentation on the activities related to the relocation/destruction of existing plant or animal species, in accordance with the guidelines provided in the obtained administrative decision.</p> <p>The report should state at least the type and quantity of relocated species, indicate the places from which and to which they will be relocated, the manner of relocation and the time.</p>	Contractor/Site Manager/Environmental team
56	II.37	Protection of animate nature	<i>The Contract area</i>	<p>Fossil remnants of plants and animals</p> <p>In case of discovering fossil remnants of plants or animals, one shall notify the regional director for environmental protection about it immediately.</p>	Contractor/Site Manager/Environmental team
J. REQUIREMENTS ON RECREATION OF THE SITE AFTER THE COMPLETION OF CONSTRUCTION WORKS					
57	II.30 II.39	Protection of animate nature	<i>The Contract area</i>	<p>Recreation of topsoil layer and green areas and tidying up the site after completion of works</p>	Contractor/Site Manager/Environmental team – phytosociologist and

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>After completion of works:</p> <ul style="list-style-type: none"> a) construction facilities, service roads and sites should be dismantled, whilst road panels and sand collected from ballast should be transported outside the Contract area to the place specified beforehand (accepted by the Engineer); b) in the areas acquired in connection with the implementation of the Contract (within the boundaries of the Contract area), appropriate agrotechnical measures should be taken (soil loosening, fertilization, etc.), in order to prepare the recreation of the fertile soil layer; c) in the areas acquired in connection with the implementation of the Contract (within the boundaries of the Contract area), the fertile soil layer should be recreated (including the use of the topsoil collected from the area of works); d) treatments facilitating the restoration of green areas should be performed – slopes of the flood embankment and any spots, from where the existing grass vegetation would be removed shall be formed using the priorly removed soil (as a bank of seeds) and shall be sown with such species of native grass species as: false oat-grass (<i>Arrhenatherum elatius</i>), orchard grass (<i>Dactylis glomerata</i>), Timothy-grass (<i>Phleum pratense</i>), meadow foxtail (<i>Alopecurus pratensis</i>); e) proper care of the recreated green areas should be ensured (until the end of the Defect, Guarantee and Warranty Period); f) tidy up the Contract area; g) the area covered by the works as used by machines, 	dendrologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>means of transport, and areas adjacent to the area of works should be restored to its original state.</p> <p>Activities described in items b, c, d, e (above) should be performed under the supervision of expert phytosociologist and expert dendrologist, including e.g.:</p> <ul style="list-style-type: none"> a) agreement of the exact dates of works; b) agreement of the composition and quantitative proportions of seed mixtures planned for sowing; c) agreement of conditions for preparation of soil and seedling; d) agreement of the principles of caring for the recreated green areas; e) submission of the results of the above agreements to the Engineer for approval; f) supervision over the implementation of activities supporting the recreation of green areas and supervision over the care of these areas (until the end of the Defects Notification Period, Guarantee and Warranty). <p>Activities related to the recreation of the topsoil layer and the restoration of green areas referred to in this item of the EMP should be commenced as soon as their implementation is possible.</p>	

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
58	III.4 II.18	Protection of animate nature	<i>The Contract area</i>	<p>Implementation of replacement planting</p> <p>Design replacement planting in accordance with potential natural vegetation adapted to local habitat conditions – species of trees and their quantity shall correspond with native species and quantity of logged trees.</p> <p>Apply at least 3-years old seedlings for the planned planting, with covered root system. The planting shall be protected against biting by deers and hares.</p>	Contractor/Site Manager/Environmental team – phytosociologist
59		Protection of animate nature	<i>The Contract area</i>	<p>Caring for grasslands</p> <p>Caring for grasslands in the first growing season after planting consists in:</p> <ul style="list-style-type: none"> • fertilizing, lawns should be supplied with mineral fertilizers as needed (no more 3-5 kg NPK/are/year). Mixtures of fertilizers should be prepared in such a way as to supply the grass with ingredients required in particular seasons: <ul style="list-style-type: none"> ○ in spring, the lawn requires a mixture with dominating nitrogen, ○ from the middle of summer nitrogen should be reduced, increasing the dose of potassium and phosphorus, ○ the final fertilization should not contain nitrogen, but potassium and phosphorus. • Additional seeding, • mowing: <ul style="list-style-type: none"> ○ the first mowing should be carried out when the grass is about 10 cm high and should be cut to a height of 6 cm, 	Contractor/Site Manager/Environmental team – phytosociologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<ul style="list-style-type: none"> ○ subsequent mowing should take place at such intervals so that the grass does not exceed 15 cm in height, ○ the last pre-winter mowing should be carried out 1 month before the expected cold weather (for the climate of Poland the first half of October may be assumed), ○ after each mowing, cut grass should be removed from all surfaces and harvested hay should be stored outside the construction site, <ul style="list-style-type: none"> • it is necessary to maintain adequate soil moisture. <p>Mowing of grasslands in subsequent growing seasons should be carried out twice a year.</p>	

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
K. REQUIREMENTS ON THE PRVENTION OF THE ENVIRONMENTAL POLLUTION					
60	II. 28	Water and soil protection, health and safety protection, Protection of animate nature	<i>The Contract area</i>	<p><i>The use of building materials in accordance with regulations and standards and harmless to the environment</i></p> <p>Materials delivered and used for construction shall be supervised, and the source of soil material origin shall especially be checked.</p> <p>Only building materials that are not harmful to the environment (natural, environmentally friendly or neutral) should be used for the implementation of the Contract. One shall not apply substances, which would be lethal to the occurring animals, except for substances necessary for proper operations of the construction machines.</p> <p>The materials, raw materials, fuels, fertilizers, cement-concrete mixes used should be certified and approved for use.</p> <p>The applied material cannot contain substances, which may be washed out, and especially substances, which are particularly harmful to the water environment, occurring in a form of soluble compounds.</p> <p>Material applied for the embankment should be made of natural materials, without the use of materials emitting hazardous substances to the ground-water environment.</p>	Contractor/Site Manager
61	II.4	Water and soil protection	<i>The Contract area</i>	<p><i>Technical efficiency and inspections of vehicles, machines and equipment</i></p> <p>In order to prevent contamination of soil and water, only technically efficient vehicles, machines and equipment should be used to carry out works.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>The Contractor should carry out ongoing inspections of the efficiency of vehicles, machines and equipment, review the condition of vehicles, machines and equipment, and eliminate with any resources available any permeating of contamination to soil and water, including in particular spilling of fuel, hydraulic diesel and petroleum substances, both during operating, refueling, transport, as well as the work of vehicles, machines and equipment.</p>	
62		Water and soil protection	<i>The Contract area</i>	<p><i>Conditions on the location of the sites for collection and production of building materials</i></p> <p>Building materials, in particular bulk materials, should be collected only on compacted surfaces within the site facilities. These materials cannot be collected at a distance of less than 100 m from existing watercourses.</p> <p>Analogous conditions apply to the places of production of building materials (cement mixes, prefabricates, aggregates, etc.).</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
63		Water protection	<i>The Contract area</i>	<p>Reducing time and number of drainage and the ban to dispose of water from excavations directly to watercourses</p> <p>The time for carrying out drainage should be reduced to the minimum and such methods should be applied to reduce the amount of pumped water and ensure its protection against contamination.</p> <p>The water pumped out from the excavations cannot be directly disposed to watercourses due to high content of suspension.</p> <p>Before disposing to watercourses, the water should be purified of suspension, e.g. through the use of sedimentation tanks.</p> <p>Suspensions after treatment should be managed in a manner consistent with their qualifications eliminating the possibility of entering the watercourse or storage in places where flooding or permeating may occur.</p>	Contractor/Site Manager
64		Protection of animate nature, earth surface protection	<i>The Contract area</i>	<p>Conditions for movement of vehicles, machines and equipment in the Contract area</p> <p>Movement of vehicles, machines and equipment shall be carried out only:</p> <ul style="list-style-type: none"> a) within the site area; b) on existing roads; c) on service roads and yards; d) on internal roads (after they have been built). 	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
65		Water and soil protection	<i>The Contract area</i>	<p><i>Parking place for machines and vehicles after finishing the work</i></p> <p>Machines and vehicles shall be parked, every day after finishing the work, in places intended for parking in the site facility area.</p> <p>After stay over periods of the vehicles parked during the break in operation, the parking lot should be inspected for the presence of any leak of operational substances prior to the start-up.</p>	Contractor/Site Manager
66		Water and soil protection	<i>The Contract area</i>	<p><i>Sealing of the ground intended for movement of vehicles, machines and equipment on the construction site</i></p> <p>The site area intended for movement of vehicles, machines and equipment shall be sealed from the ground using insulating materials to guarantee the soil protection.</p>	Contractor/Site Manager
67		Water and soil protection	<i>The Contract area</i>	<p><i>The ban to carry out maintenance activities and repairs of vehicles, machines and equipment outside the site facilities</i></p> <p>Maintenance of vehicles, machines and equipment (including e.g. change of diesel, liquids, etc.) may be carried out only in designated places on the construction site, meeting the conditions specified in item 68 - Designation and sealing of garages and maintenance of vehicles, machines and equipment.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
68		Water and soil protection	<i>The Contract area</i>	<p><i>Designation and sealing of garages and maintenance sites for vehicles, machines and equipment</i></p> <p>Places intended for maintenance of vehicles, machines and equipment (including garaging, refueling and technical service yards, etc.) should be designated and properly marked on the site facilities.</p> <p>The above-mentioned places intended for maintenance of vehicles, machines and equipment should be periodically (until completion of the construction) lined with impermeable insulating materials, protecting the substrate against penetration of solid or liquid contaminants.</p> <p>When determining the location of the places, safe distance from flowing and standing water courses should be taken into account, among others.</p> <p>The detailed location of the above places should be agreed in advance with a team of environmental experts (including an expert phytosociologist and an expert zoologist).</p>	Contractor/Site Manager/Environmental team – phytosociologist, zoologist
69		Water and soil protection	<i>The Contract area</i>	<p><i>Ensuring the outflow of water from parking lots and roads to sewage systems</i></p> <p>Parking lots for equipment and access roads should be made with a slope ensuring outflow of rainwater and snowmelt and wastewater to sewage devices or to other receivers, from which it will be discharged to the ground or surface water after prior cleaning (purified water can be discharged into waters or to ground, as long as they do not contain contaminants in quantities exceeding 100 mg/l of total suspended solids and 15 mg/l of petroleum hydrocarbons).</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
70	II.33	Water and soil protection	<i>The Contract area</i>	<p><i>A stand with a sorbent near the service and parking lots for vehicles, machines and equipment</i></p> <p>Site facilities shall be provided with sorbent for neutralizing the potential failure leak of hazardous substances (including diesel derivatives) from construction machines and equipment and from trucks. In the vicinity of the places intended for servicing vehicles, machines and equipment (including garaging, refueling and technical service yards, etc.) it is necessary to ensure adequate quantities of sorbent.</p>	Contractor/Site Manager
71		Water and soil protection	<i>The Contract area</i>	<p><i>Guidelines for refueling vehicles, machines and equipment</i></p> <p>Refueling should be carried out using mobile or stationary fuel distribution points, with appropriate safeguards, such as a stand with sorbent used for liquidation of leaks and outflows of petroleum derivatives.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
72		Water and soil protection	<i>The Contract area</i>	<p><i>Guidelines for washing and cleaning of vehicles, machines and equipment</i></p> <p>Maintenance of vehicles, machines and equipment used in the Contract area (including, among others, cleaning the equipment after concreting works) are allowed only in designated places on the site facilities, adequately secured against the possibility of contamination of the ground and waters and equipped in such way as to enable the immediate removal of any contamination.</p> <p>It is forbidden to mark places or wash vehicles near watercourses, i.e. at a distance of less than 100 m, water reservoirs, as well as places where water stagnation has formed (conditions specified in item 16 - Conditions for the location of construction site facilities, yards, storage/disposal sites, etc.).</p>	Contractor/Site Manager/Environmental team
73		Water and soil protection	<i>The Contract area</i>	<p><i>Prevention of leaks from vehicles, machines and equipment</i></p> <p>Maintenance of vehicles, machines and equipment used in the Contract area (including, among others, cleaning the equipment after concreting works) are allowed only in designated places on the site facilities, adequately secured against the possibility of contamination of the ground and waters and equipped in such way as to enable the immediate removal of any contamination.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
74	II.34	Water and soil protection	<i>The Contract area</i>	<p><i>Proceedings in the case of emission of petroleum derivatives</i></p> <p>In the event of a failure contaminating the ground, the following measures should be taken:</p> <ul style="list-style-type: none"> a) take immediate action to prevent the spread of contamination, by means of available resources (e.g. sorbents); b) immediately remove contaminated layers of soil and transfer them to a specialized company having a relevant permit for business actions related to hazardous waste treatment; c) in case of major failures, use the procedures described in item 97 – Emergency notification rules. 	Contractor/Site Manager
75	II.8	Acoustic climate protection	<i>The Contract area</i>	<p><i>Reducing time of works to daytime</i></p> <p>Construction works should be carried out in a daytime, i.e. from 6:00 to 22:00.</p>	Contractor/Site Manager
76		Acoustic climate protection	<i>The Contract area</i>	<p><i>Reducing noise of vehicles, machines and equipment</i></p> <p>During the Contract implementation period only technically efficient vehicles, machines and equipment shall be used, with noise emission (acoustic power) compliant with the binding regulations and which does not result in exceeding the environmental quality standards in the scope of permissible noise levels.</p> <p>In case any inefficient vehicles, machines and equipment are found which can generate a higher noise level in their neighbourhood, they should be immediately replaced with the efficient ones.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
77		Acoustic climate protection	<i>The Contract area</i>	<p>Reducing noise of pump sets</p> <p>In the case of carrying out works in the acoustically protected areas or in their vicinity, in order to reduce their inconvenience to residents, only such pump sets shall be used which are equipped with soundproof housing which ensures the reduction of the noise levels to be compliant with the applicable regulations and standards (regarding permissible noise levels in the environment).</p>	Contractor/Site Manager
78		Acoustic climate protection	<i>The Contract area</i>	<p>Control of noise level in acoustically protected areas</p> <p>In the case of works carried out in acoustically protected areas or in their vicinity, the noise level shall be constantly monitored and, depending on the needs, appropriate technical and organizational measures ensuring noise reduction to be compliant with applicable regulations and standards (regarding permissible noise levels in the environment) should be applied.</p>	Contractor/Site Manager
79		Air protection, Acoustic climate protection	<i>The Contract area</i>	<p>Limiting the power consumption of vehicles, machines and equipment</p> <p>Vehicles, machines and equipment shall be used with low power consumption and switch off power/engines during the break in operation.</p> <p>Operating time of vehicles, machines and equipment shall be reduced to the necessary minimum.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
80	II.4 II.9 II.10 II.11	Air protection	<i>The Contract area</i>	<p>Limiting air pollution with exhaust fumes</p> <p>In order to reduce the adverse impact on the condition of the air:</p> <ul style="list-style-type: none"> a) only technically efficient vehicles, machines and equipment should be used, with the required approvals to reduce the emission of gaseous and particulate substances into the air; b) a place should be provided for free manoeuvres of vehicles, such as yards; c) it is necessary to limit the movement of vehicles, machines and devices to the necessary minimum, as well as to limit the speed of traffic on the construction site; d) it is necessary to minimize the idling time of engines and follow the instructions on shutting down the machines and equipment during breaks in operation; e) it is necessary to minimize the number of truck deliveries for construction materials; f) unnecessary, excessive concentration of the works using heavy equipment shall be avoided g) vehicles should be parked with the engine turned off. 	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
81	II.7	Air protection	<i>The Contract area</i>	<p><i>Limiting dusting from the construction site</i></p> <p>When carrying out construction works, the effects of secondary dusting should be limited by maintaining a high work culture, in particular by:</p> <ul style="list-style-type: none"> a) regular cleaning of the construction site; b) applying the necessary technical and organizational measures to limit the emission of dust from the construction site, including storage places for building materials causing dusting; c) spraying dusty road surfaces within the construction site in dry periods, during deliveries. 	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
82	II.5 II.6	Health and safety protection, Air protection	<i>The Contract area</i>	<p><i>Keeping the roads clean</i></p> <p>In order to keep the roads clean and prevent dusting on the roads the following steps should be taken:</p> <ul style="list-style-type: none"> a) the Contractor shall apply all available technical means and organize works to minimize the dusting and pollution of access roads to the Contract area; b) the Contractor shall apply protection on truck delivering bulk materials that may cause during the delivery (tarpaulins, cover sheets, and other types of covers); c) in places of departure of heavy equipment from the construction site, the Contractor will install stands where initial removal of soil or mud from vehicle wheels will take place; d) the Contractor shall clean lanes of public roads off of pollutions brought from the construction site due to the traffic of vehicles, machines and equipment related to the implementation of the Contract, in order to prevent secondary dusting by soil brought by wheels of vehicles providing services to the site. 	Contractor/Site Manager
83		Air protection	<i>The Contract area</i>	<p><i>Ban to burn fires and burn down materials, waste, litter, etc.</i></p> <p>It is forbidden to burn fires and burn down materials, waste and litter, etc. in the Contract area.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
L. REQUIREMENTS ON WASTE MANAGEMENT					
84		Water and soil protection	<i>The Contract area</i>	<p>Development of a Waste Management Plan (Waste MP)</p> <p>Prior to the commencement of works the Contractor shall develop and submit for the Engineer's approval a Waste Management Plan, specifying the way of handling waste expected to be generated during the works and taking into account, among others, conditions for waste management included in the EMP.</p>	Contractor/Site Manager
85	II.35	Water and soil protection, Air protection	<i>The Contract area</i>	<p>Guidelines for waste management</p> <p>Waste shall be properly managed:</p> <p>a) Minimize the volume of produced waste;</p> <p>b) Collected selectively in marked containers, in separate and properly organized places, in conditions protecting against the impact of weather and the access of third parties and animals;</p> <p>c) hand over to units having proper permits – for taking over, transportation, recovery or treatment of waste, respectively.</p>	Contractor/Site Manager
86		Water and soil protection	<i>The Contract area</i>	<p>Guidelines for handling hazardous waste</p> <p>Hazardous waste should be segregated and stored separately in special sealed containers placed in the sealed, paved area that is marked and secured against access by third parties, until it is handed over to entities authorized to handle it.</p>	Contractor/Site Manager

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
87	II.36	Water and soil protection	<i>The Contract area</i>	<p>Guidelines for handling domestic waste</p> <p>Domestic waste should be collected on the paved area on the site facilities (hardened), in sealed holding tanks, content of which will be handed over to entities authorised to handle it.</p>	Contractor/Site Manager
88		Water and soil protection	<i>The Contract area</i>	<p>Preventing illegal dumping of litter and waste</p> <p>Prior to the commencement of works the Contractor shall investigate the area for possible illegal landfills of litter and waste. In case of identifying an illegal landfill, the Contractor shall clear such sites through removing the waste and transporting it away to the treatment site. In the Contract implementation period the Contractor shall secure the Contract area against possible formation of such landfills.</p>	Contractor/Site Manager
M. REQUIREMENTS ON HEALTH AND SAFETY PROTECTION					
89		Health and safety protection	<i>The Contract area</i>	<p>Development of documents related to safety in the Contract area</p> <p>In the Contract area it is necessary to maintain order and ensure proper organization of works.</p> <p>Prior to the commencement of works, the Contractor will develop and then obtain the Engineer's approval for the following documents related to safety on the construction site:</p> <ul style="list-style-type: none"> a) Health and Safety Plan (BIOZ); b) Construction Site Organization Plan. 	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
90		Health and safety protection	<i>The Contract area</i>	<p>Sapper reconnaissance and supervision in the Contract area</p> <p>In order to minimize the risk related to the possible occurrence of dangerous objects of military origin in the area of the Contract, the Contractor shall ensure:</p> <ul style="list-style-type: none"> a) prior to the works – reconnaissance at the Contract implementation area to verify the presence of unexploded shells and misfires (a report with results of the aforementioned sapper reconnaissance shall be submitted to the Engineer for acceptance); b) during the works – sapper supervision of works (carried out by the team of sappers), consisting in the ongoing checking and clearing of the Contract area of dangerous objects of military origin along with their utilization; c) in the case of finding dangerous objects of military origin in the Contract area - implementation of procedures described in item 98 - Conditions for handling unexploded ordnance or live bombs. 	Contractor/Site Manager/Environmental team - sapper
91		Health and safety protection, Protection of tangible properties	<i>The Contract area</i>	<p>Documentation and monitoring of the technical condition of buildings exposed to tremor and vibrations</p> <p>Before starting works during which tremors and vibrations threatening the local residents as well as nearby buildings and infrastructure facilities may occur, the Contractor will carry out an inventory of existing buildings and facilities, with particular reference to cracks and damages.</p> <p>During the performance of the aforementioned works, the Contractor will monitor the condition of these buildings and facilities on a regular basis.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
92		Health and safety protection	<i>The Contract area</i>	<p>Implementation of guidelines on work safety requirements</p> <p>The Contractor will ensure the implementation of detailed guidelines on work safety requirements, including in terms of:</p> <ul style="list-style-type: none"> a) development of the construction site, including hazardous areas; b) storage and transport; c) electrical installations and devices; d) machines and technical equipment; e) work at heights; f) earthworks; g) selected renovation and demolition works, contained in applicable legal regulations. 	Contractor/Site Manager – H&S supervision
93		Health and safety protection	<i>The Contract area</i>	<p>Ensuring hygienic conditions</p> <p>In the Contract area, it is necessary to ensure the necessary number of portable toilets and ensure their use by employees, as well as ensure the training of all employees in maintaining appropriate hygiene conditions within the construction site and its immediate neighbourhood.</p>	Contractor/Site Manager – H&S supervision
94		Health and safety protection	<i>The Contract area</i>	<p>Limiting the impact of deliveries on the inhabitants</p> <p>Delivery routes for construction materials and equipment shall be established to minimize the impact of deliveries on people – avoiding developed areas.</p>	Contractor/Site Manager

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
95		Health and safety protection	<i>The Contract area</i>	<p>Limiting the impact of works on the inhabitants</p> <p>Implementation time of the entire Works Contract shall be limited to minimum.</p> <p>One shall assure such an organization of work to allow for elimination of the impact of accumulation for the extension of embankment section on the inhabitants living in vicinity. The smallest possible number of construction equipment shall operate in vicinity of buildings.</p>	Contractor/Site Manager
N. REQUIREMENTS ON EXTRAORDINARY THREATS TO THE ENVIRONMENT					
96	II.1	Health and safety protection	<i>The Contract area</i>	<p>Guidelines on the conduct in connection with the flood risk</p> <p>The works shall be done beyond the flood risk occurrence period.</p> <p>In connection with the flood risk, the Contractor will prepare and submit to the Engineer's approval a document entitled: "Flood protection plan for the construction site, taking into account local hydrological and meteorological conditions in the vicinity of the construction site". The document shall contain e.g. a proceeding manual in the potential event of flood after commencing the works.</p> <p>In the event of a flood, the Contractor will follow the procedures described in the above-mentioned document.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
97		Health and safety protection	<i>The Contract area</i>	<p>Guidelines on notifying of emergency</p> <p>In the event of emergency (other than a flood), accident, major failure, etc., the Contractor is obliged to take the following actions:</p> <ul style="list-style-type: none"> a) Immediately notify relevant services (Fire Brigade, Ambulance Service, Police, etc.); b) until the arrival of the relevant services, take the necessary actions to reduce the risk of loss of personnel, property and environment (as agreed with the relevant services, if possible); c) notify the Engineer and the Employer d) after the arrival of the relevant services, act strictly according to their guidelines and instructions. 	Contractor/Site Manager
98		Health and safety protection	<i>The Contract area</i>	<p>Guidelines for handling unexploded ordnance or live bombs</p> <p>In the case of finding unexploded ordnance or live bomb, the Contractor shall:</p> <ul style="list-style-type: none"> a) immediately stop works on the particular site; b) assure evacuation of the employees from the explosion risk area; c) immediately notify the sapper supervision team and the Police, and then follow the guidelines obtained from them; d) notify the Engineer and the Employer. <p>Under no circumstances unexploded ordnance or live bombs may be picked up, dug out, buried, relocated, thrown to fire or water, etc.</p>	Contractor/Site Manager/Environmental team - sapper

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
O. REQUIREMENTS ON CONSERVATION OF HISTORIC MONUMENTS					
99		Conservation of historic monuments	<i>The Contract area</i>	<p>Providing archaeological supervision</p> <p>The Contractor shall be obliged to provide ongoing archaeological supervision for the time of earthworks.</p> <p>To this end, the Contractor shall:</p> <ul style="list-style-type: none"> a) prepare a relevant action plan in this regard; b) ensure the participation of a team of archaeologists who conduct ongoing supervision of earthworks c) if necessary, obtain the permission required by law to conduct archaeological research from the competent heritage conservation office. 	Contractor/Site Manager/Environmental team - archaeologist
100	II.38	Conservation of historic monuments	<i>The Contract area</i>	<p>Guidelines on the conduct in the case of uncovering mobile monuments or archaeological sites</p> <p>If during the works an object is uncovered which may be or certainly is a historic monument or has a historical value, the Contractor is obliged to:</p> <ul style="list-style-type: none"> a) immediately stop any work that may damage or destroy uncovered objects in a given place; b) secure (by means of available sources) uncovered objects and the place where they were found against being destroyed, damaged or stolen; c) immediately notify the team of archaeologists and the Engineer; d) immediately notify relevant conservatory services; e) take further security measures, agreed with the team of archaeologists and the Engineer; 	Contractor/Site Manager/Environmental team - archaeologist

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>f) facilitate and ensure carrying out documentary activities, archaeological research and other necessary activities indicated by an expert team of archaeologists and/or administrative authorities responsible for preserving the historic substance;</p> <p>g) after completing the activities and research listed in items d) and e) uncovered mobile monuments should be relocated to appropriate institutions indicated by a team of archaeological experts and/or administrative authorities responsible for protecting the historic substance (in accordance with the applicable regulations and the content of the Permit referred to in item 99, letter c) – Providing archaeological supervision)</p> <p>h) in the case of immobile monuments, after completing the activities and research listed in items d) and e) the guidelines should be implemented regarding further treatment of the uncovered historic substance, established by a team of archaeological experts and/or administrative authorities responsible for protecting the historic substance (in accordance with applicable regulations and the content of the Permit referred to in item 99, letter c) - Providing archaeological supervision).</p>	

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
P. REQUIREMENTS ON THE CONTRACTOR'S STAFF ENGAGED IN THE IMPLEMENTATION OF THE EMP					
101		Implementation and reporting of the EMP	<i>The Contract area</i>	<p>Training of the Contractor's staff in the scope of the EMP implementation</p> <p>The Contractor is obliged to train their managerial and engineering and technical staff on the rules and methods of implementation of these EMP terms which, in accordance with Appendix 1 and Appendix 2 to the EMP, are assigned to the Contractor. These trainings should be completed with a test.</p> <p>In the monthly reports submitted to the Engineer, the Contractor shall provide information on the state of training of the Contractor's staff in the scope of the EMP terms in the current reporting period.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
102		Implementation and reporting of the EMP	<i>The Contract area</i>	<p><i>Appointment of the EMP coordinator in the Contractor's team</i></p> <p>In the Contactor's team, a person shall be appointed to co-ordinate and oversee actions related to the implementation of the EMP.</p> <p>The responsibilities of the person shall include:</p> <ul style="list-style-type: none"> a) supervising the implementation of individual EMP terms in the subsequent stages of the Contract implementation; b) ongoing monitoring of the status of implementation of individual terms of Appendix 1 and Appendix 2 to the EMP in the Contract area; c) ongoing informing of the Contractor's management team on the obligations arising from the EMP at the particular stage of works, as well as on the issues arising during the implementation of the EMP; d) co-operation with the rest of the Contractor's team (including a team of environmental experts, a team of archaeologists and a team of sapper supervision) in the scope of ensuring the implementation of the EMP; e) preparation of commentaries and reports (kick-off, monthly, quarterly, ad-hoc, final report, reports to RDOŚ in Cracow - only to the extent resulting from the decisions obtained at the implementation stage, e.g. exceptions, if they result in the need to make the report to the authorities); f) co-operation with people responsible for the implementation of the EMP from the Engineer's and Employer's team. <p>The person appointed to perform the abovementioned role shall require the Engineer's approval.</p>	Contractor/Site Manager/Environmental team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
103		Implementation and reporting of the EMP	<i>The Contract area</i>	<p><i>Providing of a team of environmental experts</i></p> <p>Throughout the whole Contract implementation period the Contractor shall provide the team of environmental experts, composed of the representatives of the following specializations:</p> <ul style="list-style-type: none"> a) botanist - phytosociologist (natural habitats and protected plant species); b) dendrologist (rule for tree care and protection); c) zoologist - an expert in the field of invertebrates; d) zoologist - herpetologist (amphibians and reptiles); e) zoologist - ornithologist (birds); f) zoologist - chiropterologist (bats); g) zoologist - theriologist (non-flying mammals). <p>Each specialist shall have carried out at least two natural supervisions in their professional carrier.</p> <p>Monthly and quarterly reports shall be prepared on the activities performed by the Environmental Team of the Contractor as part of their environmental supervision.</p> <p>The Environmental Team of the Contractor will be required over the entire duration of the implementation phase to supervise the proper performance of works in the context of their potential adverse impact on protected natural habitats and protected species, the proper place of conducting works with the view of protected habitats and species, proper implementation of preventive measures to fauna (trapping, relocation) and all other activities in the field of environmental protection.</p> <p>These experts will be involved in the implementation of selected mitigation and monitoring measures specified in</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
				<p>the EMP.</p> <p>The personnel composition of the team of environmental experts requires the Engineer's approval.</p> <p>One member of the team of environmental experts may combine at most two specializations listed above in points a-g.</p> <p>Being involved in the work on other OVFM Project contracts or on any other Contracts cannot limit the availability of the experts for this Contract.</p> <p>Before the commencement of works, the Contractor will submit to the Engineer's approval a Quality Assurance Plan regarding the activities of the team of environmental experts.</p>	
104		Implementation and reporting of the EMP	<i>The Contract area</i>	<p><i>Providing a team of archaeological experts</i></p> <p>Throughout the whole Contract implementation period the Contractor shall provide the team of archaeological experts.</p> <p>These experts will be involved in the implementation of selected mitigation measures specified in the EMP.</p> <p>Depending on the needs, a team of archaeological experts can consist of one or more people with the appropriate professional licenses. The personnel composition of the team of archaeologists requires the approval of the Engineer. Being involved in the work on other OVFM Project contracts or on any other Contracts cannot limit the availability of the experts for this Contract.</p> <p>Before the commencement of works, the Contractor will submit to the Engineer's approval a Quality Assurance Plan regarding the activities of the team of archaeological experts.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
105		Implementation and reporting of the EMP	<i>The Contract area</i>	<p><i>Providing of a sapper supervision team</i></p> <p>Throughout the whole Contract implementation period the Contractor shall provide the sapper supervision team.</p> <p>This team will be involved in the implementation of selected mitigation measures specified in the EMP.</p> <p>Depending on the needs, a team of sappers can consist of one or more people with the appropriate professional licenses. The personnel composition of the team of sappers requires the approval of the Engineer. Being involved in the work on other OVFM Project contracts or on any other Contracts cannot limit the availability of the experts for this Contract.</p> <p>Prior to the commencement of works, the Contractor will submit to the Engineer for approval a Quality Assurance Plan for the sapper supervision team</p>	Contractor/Site Manager
106		Implementation and reporting of the EMP	<i>The Contract area</i>	<p><i>Discussing the implementation of EMP during working meetings and Site Meetings</i></p> <p>During the Contract implementation period monthly meetings of the representatives of the PIU, the Engineer and the Contractor will be held to discuss and control the implementation of mitigation measures and monitoring measures specified in the EMP.</p> <p>Notwithstanding the above, updated requirements and problems related to the implementation of the EMP will be discussed at all Site Meetings.</p>	Contractor/Site Manager/Environmental team

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
Q. REQUIREMENTS ON EMP IMPLEMENTATION REPORTING					
107		Implementation and reporting of the EMP	<i>The Contract area</i>	<p>Reporting the implementation status of the EMP</p> <p>During the Contract implementation period, the Contractor will submit monthly reports to the Engineer on the implementation of the conditions specified in the EMP (in the form of a checklist together with the necessary attachments, including reports on the implementation of environmental supervision).</p> <p>A template of the above-mentioned report (checklist) will be developed by the Contractor and submitted to the Engineer for approval.</p> <p>Depending on the circumstances, the Engineer may request the Contractor to submit additional reports regarding, among others, emerging critical situations, implementation of selected EMP items, and others.</p> <p>In addition, the Contractor is obliged to make a kick-off report, quarterly, ad-hoc, final reports and reports to RDOŚ in Cracow - only to the extent resulting from the decisions obtained at the implementation stage, e.g. exceptions, if they result in the need to make the report to the authorities.</p>	Contractor/Site Manager/Environmental team
R. REQUIREMENTS AFTER THE COMPLETION OF WORKS					
108	II.39	Protection of soils and earth surface	<i>The Contract area</i>	<p>Cleaning works, restoration of the area to its original state</p> <p>After completing the construction works, areas damaged during the works shall be reinstated and any temporary site elements shall be removed, including site facilities and technical roads and lanes.</p>	Contractor/Site Manager

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
109		Protection of soils and earth surface, Protection of animate nature	<i>The Contract area</i>	<p>Topsoiling, sowing, mowing the grass</p> <p>After completing the construction works, all of the earth surface will be topsoiled and sown with grass in accordance with the measures detailed in item 57 - Recreation of a topsoil layer and green areas and tidying up the site after completion of works, and in items 58 – Implementation of replacement planting, and 59 - Caring for grasslands.</p> <p>During the performance of construction works and during the operational phase places sowed with grass mixes should be cured of by means of e.g.: twofold mowing of flood embankments during the year, and removal of hard lichens. This measure includes the performance period, as well as the Defects Notification Period and the Guarantee and Warranty Period.</p>	Contractor/Site Manager/Environmental team - phytosociologist
110		Protection of soils and earth surface	<i>The Contract area</i>	<p>Management, maintenance, repairs of roads</p> <p>The Contractor is obliged to remove defects/damages to roads used under this Contract during the Contract Implementation Period.</p> <p>During the operating period, roads and technological lanes must be properly maintained/managed through appropriate winter road maintenance in accordance with the existing weather conditions. Gravel/dirt roads - unevenness should be levelled, if necessary.</p>	Contractor/Site Manager

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
S. REMAINING ESHS REQUIREMENTS					
111		ESHS issues	<i>The Contract area</i>	<p><i>Obligation to observe ESHS requirements and conditions</i></p> <p>The Contractor shall be obliged to apply and observe all ESHS policies' requirements and conditions (i.e. the ones related to environmental, social and health and safety issues) as determined in the Contract documents and in the ESHS Proceeding Code, and in Implementation Plans and in the Environmental, Social and Health and Safety (ESHS) Risk Management Strategy (as developed by the Contractor in accordance with the Construction Works Agreement), and as results from the legislation valid in Poland (including the Labour Code, the Construction Law, and others).</p> <p>The ESHS requirements and conditions determined in reference to the Contractor and its personnel in the aforementioned sources (regardless of the legal cooperation form) are also valid in the scope relevant for a given case for Contractor's subcontractors and their personnel and their subcontractors.</p>	Contractor/Site Manager/H&S supervision

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
112		ESHS issues	<i>The Contract area</i>	<p>Assurance of safety in case of accidents at work</p> <p>The Contractor shall be obliged to assure such conditions for implementation of the Contract (including performance conditions) to avoid accidents engaging any people associated with implementation of the Contract (including the staff of e.g.: the Contractor, the Engineer, the Investor, the PCU, subcontractors, suppliers, and others) and third parties.</p> <p>In case an accident happens, the Contractor shall immediately assure proper treatment for injured people, notify relevant services and provide them with access to the site, and secure the place in a way assuring safety to the aforementioned services and other people, who may be present in the area of the event.</p> <p>Regardless of the aforementioned actions the Contractor shall immediately inform the Engineer about all accidents and near misses related to implementation of the Contract (both: on site, as well as in any other location), in accordance with binding procedures determined in the Contract documents (see also: item no. 119).</p>	Contractor/Site Manager/H&S supervision
113		ESHS issues	<i>The Contract area</i>	<p>Provision of H&S Expert in the Contractor's team</p> <p>The Contractor shall be obliged to assure a permanent H&S supervision throughout the Contract implementation period, and the supervisor shall take care for observing the H&S rules determined in the Contract documents and in the binding provisions of national law. Members and qualifications of the H&S supervising team need to be in compliance with Polish provisions of the labour law.</p>	Contractor/Site Manager/H&S supervision

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
114		ESHS issues	<i>The Contract area</i>	<p>Educational actions related to H&S rules and regulations</p> <p>The H&S Supervising team shall implement trainings and an awareness programme for the Contractor's staff in reference to the H&S rules and regulations on site.</p> <p>Those actions shall be implemented throughout the performance period, at least once per 12 months. They shall take a form of informational, educational and awareness campaigns related to H&S issues in the scope corresponding with the current stage of Contract implementation.</p>	Contractor/Site Manager/H&S supervision

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
115		ESHS issues	<i>The Contract area</i>	<p><i>Assurance of safety for people in case of sexual harassment and mobbing</i></p> <p>The Contractor shall be obliged to assure such conditions of Contract implementation to avoid cases of sexual harassment or mobbing towards the Contractor's personnel and subcontractors, any other people associated with implementation of the Contract, and any third parties.</p> <p>If aforementioned cases of sexual harassment or mobbing occur, the Contractor shall undertake measures to immediately stop the aforementioned behavior, and subsequently it shall immediately take disciplinary measures determined by the law and internal regulations of the company in relation to perpetrators, and shall provide the victims of such behavior with any necessary help and support in the scope corresponding with the case.</p> <p>Regardless of the aforementioned actions the Contractor shall immediately inform the Engineer about any cases of sexual harassment or mobbing, in accordance with binding procedures determined in the Contract documents (see also: item no. 119).</p>	Contractor/Site Manager/Expert for Preventing Cases of Sexual Harassment and Mobbing

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
116		ESHS issues	<i>The Contract area</i>	<p><i>Educational actions to prevent cases of sexual harassment and/or mobbing</i></p> <p>The Contractor shall implement trainings and an awareness programme for the Contractor's staff in reference to the prevention of cases of sexual harassment and mobbing.</p> <p>Those actions shall be implemented throughout the performance period, at least once per 12 months.</p> <p>They shall take a form of informational, educational and awareness campaigns related to sexual harassment and mobbing.</p> <p>The measures shall be implemented by an expert having proper substantial qualifications in that scope, who would remain a member of the Contractor's team.</p>	Contractor/Site Manager/Expert for Preventing Cases of Sexual Harassment and Mobbing

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
117		ESHS issues	<i>The Contract area</i>	<p><i>Assurance of proper conditions of work and payment for the personnel</i></p> <p>The Contractor shall be obliged to secure proper conditions of works and payment for the personnel associated with implementation of the Contract, fully in accordance with provisions of the labour law binding in Poland (and especially with the Labour Code), including the following, e.g.:</p> <ul style="list-style-type: none"> – the Contractor shall assure equal treatment in case of payment for the employees performing the same work, without consideration of sex, sexual orientation, and age; – people employed at the Contract shall not be harassed due to sex, sexual orientation and age; – the Contractor may employ only such a young employee, who is 15 years old, completed at least 8-years of primary school, and provided a medical statement confirming that a work of a given type is not risky to his/her health; – the Contractor – adequately to the potential and conditions, and in accordance with Polish provisions of the Labour Code – shall secure the living and social needs of the employees on the work site; – the Contractor shall be obliged to facilitate the employees in improving their professional qualifications. 	Contractor/Site Manager/H&S Supervisor

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
118		ESHS issues	<i>The Contract area</i>	<p><i>Educational actions related to the provision of claims referring to the conditions of work and payment</i></p> <p>The Contractor shall inform all people employed due to implementation of the Contract about a possibility of providing claims related to the conditions of work and payment, and shall develop an information leaflet with necessary data on provision of claims and applications, in which it would assure about e.g. the absence of repercussion for a person notifying about an issue.</p> <p>Contents of the aforementioned leaflet shall be agreed with the Engineer.</p>	Contractor/Site Manager/H&S Supervisor

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
119		ESHS issues	<i>The Contract area</i>	<p>Development and implementation of procedures related to the ongoing provision of information on ESHS issues</p> <p>In the period not longer than 30 days from the commencement date of the Contract, the Engineer shall develop and provide the Contractor with a set of procedures related to the ongoing provision of information related to the following:</p> <ul style="list-style-type: none"> – exceptional hazards (i.e. emergency and crisis situations discussed in section 5.12 of the EMP); – accidents and near misses; – cases of sexual harassment and mobbing; – claims of the personnel related to the conditions of work and payment. <p>The Contractor shall immediately inform the Engineer about any issues in that scope, in accordance with the conditions determined under the valid contractual procedures.</p>	Contractor/Site Manager/H&S Supervisor
120		ESHS issues	<i>The Contract area</i>	<p>Guidelines on HIV – AIDS prevention</p> <p>The Contractor shall, via an approved service provider, implement a program to raise awareness of HIV-AIDS type diseases (including appropriate training) and will take all other measures to reduce the risk of HIV spreading among the Contractor's personnel and the local community. These activities should be performed in accordance with the detailed guidelines set out in the Bidding Documents.</p>	Contractor/Site Manager/H&S Supervisor

No.	Item in the ED	Issue	Place	Mitigating measure	Entity
T. REQUIREMENTS FOR REMOVAL AND DEMOLITION OF GARDEN ALLOTMENTS					
121		Protection of soils and earth surface, protection of animate nature, protection of water, protection of landscape	<i>The Contract area</i>	Environmental protection within the performance site The Contractor shall be obliged to provide environmental protection within the area of works, and especially the protection of soil, greenery, natural lay of land, and water relations.	Contractor/Site Manager/Environmental Team
122		Protection of soils and earth surface, protection of animate nature, protection of water, protection of landscape	<i>The Contract area</i>	Limitation in using and transforming the environmental elements At the performance it is allowed to use and transform the environmental elements to the extent in which it is necessary due to implementation of the removal and of the demolition for structures and for facilities of the garden allotments.	Contractor/Site Manager/Environmental Team
123		Protection of soils and earth surface, protection of animate nature, protection of water, protection of landscape	<i>The Contract area</i>	Removal of damages If the protection of the environmental elements is not possible, the Contractor shall be obliged to repair the caused damages.	Contractor/Site Manager/Environmental Team

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No.	Item in the ED	Issue	Place	Mitigating measure	Entity
124		Protection of animals, protection of animate nature	<i>The Contract area</i>	<p>Assurance of proper living conditions for feral cats on the area of the Family Garden Allotments “Semafor”</p> <p>The Contractor shall make one-off purchase and shall provide to the Management Board for Family Garden Allotments “Semafor” not later than within 14 days from the day of commencing the construction works, the following:</p> <ol style="list-style-type: none"> 1) free-standing insulated kennels for feral cats, in the amount of 12 items, with the following technical parameters: <ol style="list-style-type: none"> a. Made of dry cut elevation boards with a thickness of about 2 cm; b. Walls and roof insulated with 2 cm thick styrofoam; c. Removable roof, covered with roofing paper; d. Kennel on feet; e. External dimensions of a kennel: <ul style="list-style-type: none"> – Width of about 50-60 cm – Depth of about 40 cm. – Height of about 40-50 cm. 2) dry feed for cats in the amount of 100 kg – features: <ol style="list-style-type: none"> a. High content of protein – about 75% of meat, b. Made of natural ingredients only, c. Without grain, d. Without artificial dye. <p>The delivery of the above to the Management Board for Family Garden Allotments “Semafor” shall be confirmed by the delivery/acceptance protocol signed by the Contractor and the Management Board for Family Garden Allotments “Semafor”.</p>	Contractor/Site Manager/Environmental Team