

## Appendix 2 – Plan of monitoring measures

This appendix to the Environmental Management Plan (EMP) for the Task **1B.6/1 Nowa Sól stage I and II** describes the conditions for implementing the Task concerning the monitoring measures. The costs of these measures and schedule of implementation should be included in the Offer.

### Explanations of the table in Appendix 2 of the EMP:

- 1) measures listed in items 1-105 in Appendix 2 of the EMP relate to the monitoring of implementation of the mitigation measures listed in items 1-105 in Appendix 1 of the EMP (quoted literally in column *Subject of monitoring*).
- 2) unless otherwise stated in a particular case, the term **Task implementation area** means the area of performing any preparatory works, essential works (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed during the Defects Notification Period, together with the lands subject to temporary acquisition.
- 3) unless otherwise stated in a particular case, the term **Task implementation period** means the duration of any preparatory works, essential works execution (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed in the Defects Notification Period.
- 4) unless otherwise stated in a particular case, the term **Contractor's team** in column *Responsible entity* means personally the EMP Coordinator in the Contractor's staff (referred to in item 100 in Appendix 1 to the EMP), cooperating with the Site Manager and the rest of the Contractor's Staff (including a team of environmental experts and a team of archaeological experts).
- 5) unless otherwise stated in a particular case, the term **Engineer's team** in column *Responsible entity* means personally the Environmental Management Expert in the Engineer's staff, cooperating with relevant Supervising Inspectors and the rest of the Engineer's staff.





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		<p>(see item 85);</p> <p>o) condition relating to the obtainment of the opinion of the heritage conservator (see item 95);</p> <p>p) condition relating to the verification of the geodetic division applied in the EMP (see item 98);</p> <p>r) condition relating to the approval of the Engineer for the co-ordinator of EMP implementation and composition of the team of environmental experts, team of archaeology experts and the team of military engineering supervision (see item 100, 101, 102, 103).</p> <p>s) condition relating to training on the principles of the EMP implementation (see item 99).</p>				
<b>B. REQUIREMENTS CONCERNING COMMUNICATION SERVICE OF THE TASK IMPLEMENTATION AREA</b>						
3.	Protection of human health and safety, protection of material goods, protection of the earth surface	<p><b>Conditions for the use of access roads to the Task implementation area</b></p> <p>In the scope of the use of access roads to the <i>Task implementation area</i> the following conditions apply:</p> <p>a) Access to the <i>Task implementation area</i> should be determined on the basis of existing roads;</p> <p>b) The Contractor shall ensure proper markings of all access roads to the <i>Task implementation area</i> in accordance with applicable law and as agreed with the relevant Road Authorities. These markings will be monitored regularly, and in the case of damage or theft, the Contractor shall immediately restore or supplement these markings;</p> <p>c) The Contractor shall ensure the protection of people against increased vehicular traffic on roads used during the construction work. During the implementation of the Task, the Contractor shall provide, install and maintain all temporary protection devices, thus ensuring the safety of vehicles and pedestrians;</p> <p>d) Hardened surfaces (e.g. access roads), over which the vehicular traffic transporting building materials and ag-</p>	Access roads to the <i>Task implementation area</i> along with their surroundings	<p><i>Contractor's team</i></p> <hr/> <p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p> <hr/> <p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of progress of works on the arrangements in question and their conformity with the EMP requirements.</p> <p>Verification of Contractor's documentation regarding organisation and communication infrastructure on the Task implementation area.</p> <hr/> <p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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		<p>gregates will take place, should be kept in due technical condition;</p> <p>e) The Contractor shall apply to statutory restrictions for the axle load at the transport of materials to and from the <i>Task implementation area</i>. The Contractor shall obtain all necessary permits for the transport of atypical loads and continuously notify the Engineer of any such carriage;</p> <p>f) The Contractor shall be responsible for all damage to buildings and structures, roads, drainage ditches, culverts, water and gas pipes, poles and power lines, cables, points of geodetic control network and installation of any kind, and objects of another kind as horizontal and vertical marking, navigation marking, signage, cultural objects, etc., caused by him or his Subcontractors within the <i>Task implementation period</i>. The Contractor is also responsible for restoring the flow capacity of ditches and drainage systems in the area of works and used transport roads in the event of damage caused by construction works and transport connected with the works. The Contractor shall immediately repair any resulting damage at his own expense and, if necessary, carry out other work ordered by the Engineer;</p> <p>g) The Contractor is required to prepare the photographic documentation of the whole <i>Task implementation area</i> and access roads, with particular emphasis on the technical condition of the roads and buildings located near the road of transport of construction materials;</p> <p>h) Prior to the works, the Contractor shall carry out the site inspections in the presence of Road Authorities, which shall be followed by protocols on the condition of access roads to the <i>Task implementation area</i>. On this basis, the Contractor shall be obliged to restore the technical condition of the roads from before the <i>Task implementation period</i>;</p> <p>i) The Contractor is obliged to agree the traffic and work protection designs with the Road Authorities. The Contractor is obliged to carry out the traffic organization ac-</p>				

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		<p>ording to the agreed designs (marking and securing the <i>Task implementation area</i> and marking detours and recommended road marking connected with a change of traffic organization, etc.);</p> <p>j) Prior to the works, the Contractor shall submit the traffic organization and work protection designs agreed with the Road Authorities to the Engineer for approval. Depending on the needs and progress of works the designs of road traffic changes shall be updated by the Contractor on a regular basis.</p>				
4.	Protection of material goods, protection of the earth surface, protection of water, protection of biotic nature	<p><b>Additional conditions for access roads to the <i>Task implementation area</i></b></p> <p>Transport of materials and traffic of vehicles, machines and devices supporting the construction process should be carried out, in the first place, on existing public roads, forest roads or dirt roads.</p> <p>If it is necessary to execute an additional access road to the <i>Task implementation area</i>, it should be designated in the form of as short a section as possible and outside the areas of high natural value.</p> <p>The planned locations of the access roads should be agreed with the team of environmental experts referred to in item 101 (including <i>i.a.</i> a phytosociology expert) and submitted, together with the abovementioned arrangements, to the Engineer for approval.</p>	Access roads to the <i>Task implementation area</i> along with their surroundings	<p><i>Contractor's team</i></p> <hr/> <p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p> <hr/> <p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of Contractor's documentation regarding organisation and communication infrastructure on the <i>Task implementation area</i>.</p> <p>Inspection of the participation and arrangements of the required experts.</p> <hr/> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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<b>C. REQUIREMENTS CONCERNING THE LOCATION OF SITE FACILITIES AS WELL AS TECHNOLOGICAL ROADS AND YARDS</b>						
5.	Protection of water and soil, protection of biotic nature	<p><b><i>Obligation to prepare site facilities as well as technological roads and yards</i></b></p> <p>Before starting the construction works, it is necessary to perform site facilities, technological roads and yards. Site facilities are to serve for storage of building materials, garage, refueling and current repairs of vehicles, machinery and devices, location of social facilities (changing rooms, office, workshop, portable sanitary cabins) and waste containers.</p> <p>Equipment of site facilities should meet, among others, the conditions set out in item 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 79, 82, 83, 84, 89, 90.</p> <p>When planning the above components of the construction site, it is necessary to ensure limitation of their area to a minimum.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Verification of Contractor's documentation regarding organisation of the construction site backyard. Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.
6.	Protection of biotic nature, protection of water	<p><b><i>Conditions for location of site facilities, backyards, storage sites etc.</i></b></p> <p>Site facilities, equipment unit bases, maneuvering sites, access sites, storage sites for soil and construction materials etc. should be located:</p> <p>a) outside the areas covered with high greenery (trees, shrubs) intended to be preserved in the civil engineering design;</p> <p>b) outside the area of identified natural habitats (see also item 25) and outside the area of habitats and places of occurrence of protected species (it is especially related to plots No. 517, 600/2, 600/3, 602, 603/2, 609/1, 610, Modrzyca precinct, Otyń municipality);</p> <p>c) in sites ensuring the absence of noise impacts on acous-</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Verification of Contractor's documentation regarding organisation of the construction site backyard. Visual monitoring, photographic documentation. Inspection of the participation and arrangements of the required experts.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p>	Visual monitoring, photographic documentation. Inspection of the participation of the required experts. Verification of documentation handed

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		<p>tically protected areas;</p> <p>d) at a distance of not less than 100 m from existing water courses, reservoirs and wetland sites;</p> <p>e) to a maximum possible extent outside the embanked areas.</p> <p>Designed locations of site facilities as well as the remaining abovementioned elements of the construction site should be agreed with a team of environmental experts, referred to in item 101 (including <i>i.a.</i> a phytosociology expert) and submitted, together with the above arrangements, to the Engineer for approval.</p> <p>Attention: Before commencing the implementation of this measure, one shall identify the current location of the boundaries of the areas described using record plots numbers (see clause b), according to the conditions set out in item 98.</p>			<p><u>Frequency:</u> up to date, at least once a month</p>	over from the Contractor to the Engineer.
7.	Protection of biotic nature, protection of water	<p><b>Conditions for location of technological roads</b></p> <p>Technological roads should be located:</p> <p>a) outside the areas covered with high greenery (trees, shrubs) intended to be preserved in the civil engineering design;</p> <p>b) outside the area of nature habitats (see also item 25) and outside the area of habitats and places of occurrence of protected species (it is especially related to plots No. 517, 600/2, 600/3, 602, 603/2, 609/1, 610, Modrzyca precinct, Otyń municipality). If this condition cannot be met in a given location, technological roads shall be located in the immediate vicinity of the executed works and occupy only the smallest surface area necessary of the abovementioned habitats;</p> <p>c) to the extent possible: outside the embanked areas;</p> <p>d) in the first place on the existing roads, including the existing roads on and next to the embankments;</p> <p>e) technological roads related to the extension of the exist-</p>	Task implementation area	<p>Contractor's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of Contractor's documentation regarding organisation of the construction site backyard.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				<p>Engineer's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



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		<p>ing flood embankment of the Odra river at chainage km 0+000 ÷ 1+200 shall be routed on the embankment crest.</p> <p>Designed locations of technological roads should be agreed with the team of environmental experts referred to in item 101 (including <i>i.a.</i> a phytosociology expert) and submitted, together with the above arrangements, to the Engineer for approval.</p> <p>Attention: Before commencing the implementation of this measure, one shall identify the current location of the boundaries of the areas described using record plots numbers (see clause b), according to the conditions set out in item 98.</p>				
8.	Protection of the earth surface, protection of biotic nature, protection of water and soil	<p><b><i>Economical use of the terrain and limitation of works execution in the embanked area</i></b></p> <p>The entire <i>Task implementation area</i> shall be used economically and its surface shall be transformed to the smallest extent possible.</p> <p>All works related to Task implementation shall be executed outside the current range of the embanked area to the largest extent possible.</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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<b>D. REQUIREMENTS CONCERNING QUALITY AND USE OF LANDS</b>						
9.	Protection of water and soil	<p><b>Examination of quality (state of pollution) of land on the Task implementation area</b></p> <p>Prior to the commencement of earthworks, it is necessary to perform the quality examination (pollution status) of land on the <i>Task implementation area</i> (including earth mass outside the riverbeds of watercourses and sedimentation in riverbeds of watercourses), designed to:</p> <ul style="list-style-type: none"> <li>a) development within the boundaries of the construction site (including the use for construction purposes), or</li> <li>b) removal out of the boundaries of the construction site.</li> </ul> <p>The aim of the examination is to:</p> <ul style="list-style-type: none"> <li>a) determine the possibilities of these land use within the boundaries of the construction site, in accordance with applicable regulations, and</li> <li>b) establish an acceptable method of dealing with the land not usable within the construction site boundaries.</li> </ul> <p>The examination should be performed in accordance with current regulations, including the <i>Waste Act, Environmental Protection Law</i> and implementing acts to the above laws.</p> <p>The examination should be carried out by accredited laboratory, approved by the Engineer.</p> <p>Before starting the examination, the Contractor shall submit the methodology of planned examination to the Engineer for approval.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Inspection of progress of works on the studies in question and their conformity with the EMP requirements.</p> <p>Inspection of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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10.	Protection of water and soil	<p><b><i>Use of lands coming from the construction site</i></b></p> <p>Lands located on the construction site (including the earth mass outside the watercourse riverbeds and the settlement of watercourse riverbeds) should be used at the construction site in the first place. The remaining excess land should be used in accordance with the applicable regulations and the design documentation. The procedure for the waste land should be presented in the <i>Plan of waste management</i>, developed by the Contractor and submitted to the Engineer for approval before the commencement of works (according to item 81).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of progress of works on the document in question and its conformity with the EMP requirements</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
11.	Protection of water and soil	<p><b><i>Requirements for land and aggregates coming from the outside of the construction site</i></b></p> <p>Land (including the earth mass) and aggregate used for construction works, and coming from outside the construction site, shall meet the requirements for soil quality standards and earth quality standards (in accordance with the <i>Environmental Protection Law</i> and its implementing acts), as well as in all other applicable regulations and standards (including the conditions of the item 57 of Appendix 1 EMP).</p> <p>On the stage of establishing locations for obtainment of land and aggregate to be applied for construction works, one shall obtain the following opinions:</p> <ul style="list-style-type: none"> <li>– of the environment expert board (referred to in item 97),</li> <li>– of the team of archaeological experts (referred to in item 98),</li> <li>– of the relevant Regional Directorate for Environmental Protection and</li> <li>– of the relevant heritage conservator,</li> </ul> <p>referring to the potential impact of obtainment of land and aggregate from these locations on the environment (including natural habitats, protected species and protected areas) and on objects of cultural value, and establishing potential additional conditions for the works associated with the ob-</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of documentation on the quality of lands (including earth masses) and aggregates sourced from outside the construction site and their conformity with the governing law.</p> <p>Inspection of progress of works on the opinions in question and their conformity with the EMP requirements.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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		<p>tainment of land and aggregate from the determined location.                      Those opinions shall be presented for the Engineer’s acceptance prior to commencing the extraction in the given location for obtainment of land and aggregate.                      The Contractor shall be obliged to observe establishments given in the aforementioned opinions in the <i>Task implementation period</i>.</p>				
<b>E. REQUIREMENTS CONCERNING HANDLING OF TOPSOIL</b>						
12.	Protection of soil, protection of biotic nature	<p><b>Removal, storage, and use of topsoil</b></p> <p>In order to protect topsoil in the <i>Task implementation area</i>:</p> <p>a) remove at least 0.2 m of fertile soil (referred to as topsoil) prior to commencement of any construction works in individual parts of the <i>Task implementation area</i> (this condition applies to all locations in the <i>Task implementation area</i> where the existing topsoil layer could become degraded in relation to works, movement, and maintenance of machinery and devices, storage of materials etc.);</p> <p>b) the removed topsoil should be stored in heaps not wider than 3 m and not higher than 1.5 m;</p> <p>c) the removed topsoil should be stored within the boundaries of the <i>Task implementation area</i> (optimum – within the area of site facilities).                      Detailed location of topsoil heaps should be agreed in advance with the environment expert board referred to in item 101 (including a phytosociology expert) so that storage of topsoil does not result in degradation of natural habitats and natural conservation sites for protected species and does not have a negative impact on health of trees and shrubs (see the condition in item 19);</p> <p>d) stored topsoil heaps should be protected from damage, running over, thickening, storage of construction mate-</p>	<i>Task implementation area</i>	<p><i>Contractor’s team</i></p> <hr/> <p><i>Engineer’s team</i></p>	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u>                      up to date,                      at least once a week</p> <hr/> <p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u>                      up to date,                      at least once a month</p>	<p>Verification of Contractor's documentation regarding organisation of the construction site and handling the topsoil layer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p> <hr/> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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		rials, etc.; e) stored topsoil heaps should be regularly sprinkled with water depending on the weather (never allow the heaps to become dry for over 5 days) and protected against freezing (e.g. using straw mats for this purpose); f) after completion of construction works, stored topsoil should be used to restore the layer of fertile soil as per the conditions specified in item 52 of the table.				
<b>F. REQUIREMENTS CONCERNING TREES AND SHRUBS FELLING</b>						
13.	Protection of biotic nature	<p><b>Permissible dates for felling of trees and shrubs</b></p> <p>Felling of trees and shrubs shall be carried out only in the period from August 1<sup>st</sup> to March 14<sup>th</sup> (an absolute prohibition of such work in the period from March 15<sup>th</sup> to July 31<sup>st</sup>).</p> <p>The optimal time for carrying out such work is the period from September 1<sup>st</sup> to the end of February (in the period from August 1<sup>st</sup> to August 31<sup>st</sup> and from March 1<sup>st</sup> to March 14<sup>th</sup> the abovementioned scope of works should be limited to the largest extent possible).</p> <p>The performance of the abovementioned works in the period from August 1<sup>st</sup> to August 31<sup>st</sup> and from March 1<sup>st</sup> to March 14<sup>th</sup> requires a prior favorable opinion of the expert ornithologist (referred to in item 101), allowing their execution in a given location and establishing specific conditions for executing such works.</p> <p>The expert ornithologist’s opinion shall be submitted to the Engineer for approval.</p>	Task implementation area	Contractor’s team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer’s team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

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14.	Protection of biotic nature	<p><b><i>Permissible dates for felling of shrub species which are host plants for the caterpillars of Scarce swallowtail</i></b></p> <p>Felling of shrub species which are host plants for the caterpillars of Scarce swallowtail <i>Iphiclides podalirius</i> (i.e. Blackthorn, Plum, Black cherry, Hawthorn, Pear) shall be carried out only in the period from October 1<sup>st</sup> to March 14<sup>th</sup> (an absolute prohibition of such work in the period from March 15<sup>th</sup> to September 30<sup>th</sup>).</p> <p>Before felling the abovementioned shrub species, an expert entomologist (referred to in item 101) should ensure that there are no wintering pupae of Scarce swallowtail on the shrubs anticipated for felling (the pupae of that butterfly species winter on plants, attached to them just above the ground).</p> <p>If the presence of the pupae is established, the felling of the shrub specimens in question shall be performed manually under the supervision of the abovementioned expert entomologist so as not to injure the wintering pupae of the butterfly.</p> <p>Detailed principles of handling the pupae found on the shrubs anticipated for felling shall be agreed with the abovementioned expert entomologist in advance and the results of those arrangements shall be submitted to the Engineer for approval.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
15.	Protection of biotic nature	<p><b><i>Limitation of the scope of tree and shrub felling and environmental supervision in determining trees and shrubs for felling</i></b></p> <p>Felling of trees and shrubs shall be limited to the necessary minimum (it applies in particular to the trees and shrubs felling associated with demolition of an Odra flood embankment section).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of Contractor's documentation relating to the clearance of trees and shrubs.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>of any found protected animal specimen;</p> <p>e) the transfer of specimen of protected invertebrates species and/or bats from trees intended for felling and/or from trees subject to felling may be done only under direct supervision of the abovementioned experts – entomologist and chiropterologist;</p> <p>f) should any presence of protected invertebrate and/or bat species be confirmed in trees to be felled and/or in trees being felled, obtain a legally required administrative decision for derogation from prohibitions regarding protected animal species (if required in each case).</p>				
17.	Protection of biotic nature	<p><b>Completion date for felling of trees and shrubs</b></p> <p>All works related to felling of trees and shrubs in the <i>Task implementation area</i> (including extraction of stumps and removal of wood) should be completed within the first 12 months following commencement of the Part of Contract involving implementation of the Task (within periods referred to in items 13 and 14).</p>	<i>Task implementation area</i>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
<p><b>G. REQUIREMENTS CONCERNING PROTECTION OF TREES AND SHRUBS NOT INTENDED FOR FELLING</b></p>						
18.	Protection of biotic nature	<p><b>Protection of stumps of trees not intended for felling</b></p> <p>Prior to commencement of any construction works, the stumps of trees exposed to mechanical damage should be protected with wooden boards to a height of 2-3 m from the ground level (bottom of the boards is to be based on the substrate).</p> <p>Between the boards and the surface of the tree trunk, place the flexible material (e.g. thick straw mats), protecting the stump against abrasion by boards.</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>Boards must be attached to the stump (e.g. with the bands of wire or steel tape), in a manner that does not damage the tree).</p> <p>In the <i>Task implementation period</i> the condition of protection of tree trunks exposed to damage should be controlled on regular basis and the protections should be kept in duly condition.</p> <p>The abovementioned trunk protections shall be removed after works completion.</p>		<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
19.	Protection of biotic nature	<p><b>Protection of areas below tree and shrub crowns</b></p> <p>Construction works should be carried out in a manner not damaging trees and shrubs not intended for felling.</p> <p>The following are forbidden within 1 meter from the projection of tree or shrub crown not intended for felling:</p> <ul style="list-style-type: none"> <li>a) establishing technological roads, yards, parking spots, and other elements that could affect soil compaction and change in aeration;</li> <li>b) vehicles, machinery and devices traffic, stopping, and parking;</li> <li>c) storage of earth mass (including topsoil) and construction materials (in particular loose materials).</li> </ul>	<i>Task implementation area</i>	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of documentation regarding organisation of the construction site.</p> <p>Visual monitoring, photographic documentation.</p>
				<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
20.	Protection of biotic nature	<p><b>Preventive cutting the tree branches exposed to damage</b></p> <p>In the case of boughs and branches exposure to mechanical damage by working or moving vehicles, machinery and devices, preventive cuts of tree branches exposed to breakage should be performed.</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		These cuts – performed under the supervision of an expert dendrologist (referred to in item 101) - cannot disturb the natural habit of the trees (they cannot cover more than 1/3 of the green mass of trees), maintaining stability and statics of trees (range of cuts must be uniform at each side of the crown).		<i>Engineer's team</i>	<u>Period:</u> during the <i>Task implementation period</i> <u>Frequency:</u> up to date, at least once a month	Visual monitoring, photographic documentation. Inspection of the participation of the required experts. Verification of documentation handed over from the Contractor to the Engineer.
21.	Protection of biotic nature	<p><b>Works within tree and shrub root mass</b></p> <p>Concerning trees and shrubs not intended for felling, any works within tree and shrub root mass should be carried out by hand, maintaining the following conditions:</p> <p>a) do not cut the coarse roots (with a diameter above 4 cm);</p> <p>b) excavations should be carried out not closer than 2 m from the trunk;</p> <p>c) minimize the time of exposure of roots to drying (under the conditions referred to in item 22);</p> <p>d) an optimal period for executing the works in question is the period from October to April.</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<u>Period:</u> during the <i>Task implementation period</i> <u>Frequency:</u> up to date, at least once a week	Visual monitoring, photographic documentation.
				<i>Engineer's team</i>	<u>Period:</u> during the <i>Task implementation period</i> <u>Frequency:</u> up to date, at least once a month	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.
22.	Protection of biotic nature	<p><b>Preservation of exposed tree and shrub roots</b></p> <p>Exposed roots of trees and shrubs not intended for felling should be covered, for example with straw or jute mats. At positive temperatures, the mats should be watered (to prevent roots drying). At negative temperatures, the mats should be kept dry (to prevent root frost penetration).</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<u>Period:</u> during the <i>Task implementation period</i> <u>Frequency:</u> up to date, at least once a week	Visual monitoring, photographic documentation.
				<i>Engineer's team</i>	<u>Period:</u> during the <i>Task implementation period</i> <u>Frequency:</u> up to date, at least once a month	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
23.	Protection of biotic nature	<p><b>Preservation of damaged trees and shrubs</b></p> <p>Should any aerial parts of trees or shrubs not intended for felling become damaged, necessary maintenance works appropriate for the location and type of damage should be immediately implemented.</p> <p>In the case of damaged roots, cut away damaged tips and treat the root with an antifungal agent.</p> <p>The abovementioned activities should be performed upon agreement with the environment expert board (referred to in item 101). Following the activities an opinion of the board as regards correctness of the actions should be presented to the Engineer for acceptance.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements/opinions of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
<b>H. REQUIREMENTS CONCERNING SECURING OF THE PROTECTED NATURAL RESOURCES</b>						
24.	Protection of biotic nature	<p><b>One-time environmental stock-taking within the works area before works commencement</b></p> <p>Before the works begin a one-time environmental stock-taking within the <i>Task implementation area</i> shall be carried out, prepared by environmental experts team referred to in item 101.</p> <p>The purpose of the stock-taking is to determine the current distribution of the natural habitats and habitats and sites of protected flora and fauna species, including on-going verification of information regarding this subject and included in the <i>Environmental Impact Reports</i> elaborated in years 2009, 2010 and 2012 (along with later amendments to these reports).</p> <p>In the case of detecting natural habitats, habitats or sites of protected fauna and flora species within the <i>Task implementation area</i> the following actions should be executed:</p> <p>a) in case of natural habitats – discuss further actions with the relevant expert of the environmental team (referred to in item 101), and forward the results of the arrangements to the Engineer for</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p> <p>Inspection of the progress of obtaining and handing over the required administrative decisions.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		approval; b) in case of habitats or sites of protected species – execute actions referred to in item 37 and 38.				
25.	Protection of biotic nature	<p><b>Marking the boundaries of the patches containing natural habitats</b></p> <p>Before the works begin, boundaries of patches containing natural habitats to be left intact (at the <i>Task implementation area</i> and within its near vicinity, according to the information contained in the <i>Environmental Impact Reports</i> and results of the one-time environmental stock-taking referred to in item 24) should be set down and marked on site (in the manner visible to the works contractors).                      These activities should be carried out under the supervision of an expert phytosociologist referred to in item 101.</p> <p>Within the abovementioned natural habitats site facilities, technological roads or yards cannot be located and materials cannot be stored there (see also item 6 and 7).                      Within the <i>Task implementation period</i> these patches must be secured against destruction, damage, contamination, traffic of vehicles, machinery and devices, and free access of persons in connection with the works (e.g. by establishing marked fences).</p> <p>Throughout the whole <i>Task implementation period</i> the condition of the protective measures of the patches containing the habitats should be inspected on a regular basis (at least once a month) and possible damages should be removed. These inspections should be carried out with the participation of the abovementioned expert phytosociologist.                      [see also: item 28]</p>	<i>Task implementation area</i>	<p><i>Contractor's team</i></p> <hr/> <p><i>Engineer's team</i></p>	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)   <u>Frequency:</u>                      up to date,                      at least once a week</p> <hr/> <p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)   <u>Frequency:</u>                      up to date,                      at least once a month</p>	<p>Visual monitoring, photographic documentation.                      Inspection of the participation of the required experts.</p> <hr/> <p>Visual monitoring, photographic documentation.                      Inspection of the participation of the required experts.                      Verification of documentation passed from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
26.	Protection of biotic nature	<p><b>Limiting the Task implementation time</b></p> <p>The Contractor is obliged to organize the works in a way that would help reduce the Task implementation time to the minimum and limit the negative impact of works on the animals living within this area and in its surrounding.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
27.	Protection of biotic nature	<p><b>Permissible dates for performance of construction works in the area falling within the scope of stage I</b></p> <p>In the area covered by the scope of the decision of <i>RDOŚ in Gorzów Wielkopolski dated February 16<sup>th</sup>, 2011 on environmental conditions for implementation of the investment titled "Nowa Sól – Pleszówek – stage I (...)"</i> (ref. No.: WOOŚ-II.4233.2.2011.TK – Appendix 4a to the EMP) the construction works shall be carried out in the period from August 1<sup>st</sup> to March 14<sup>th</sup> (an absolute prohibition of such works in this area in the period from March 15<sup>th</sup> to July 31<sup>st</sup>).</p> <p>The optimal time for carrying out such works is the period from September 1<sup>st</sup> to the end of February (in the period from August 1<sup>st</sup> to August 31<sup>st</sup> and from March 1<sup>st</sup> to March 14<sup>th</sup> the scope of such works should be limited to the largest extent possible).</p> <p>The performance of the abovementioned works in the peri-</p>	Task implementation area (in the scope under the environmental decision for stage I)	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>od from August 1<sup>st</sup> to August 31<sup>st</sup> and from March 1<sup>st</sup> to March 14<sup>th</sup> requires a prior favorable opinion of the expert ornithologist (referred to in item 101), allowing their execution in a given location and establishing specific conditions for executing such works.</p> <p>The expert ornithologist's opinion shall be submitted to the Engineer for approval.</p>				
28.	Protection of biotic nature	<p><b>Limitation of construction works carried out beyond the outline of embankment feet in the area of natural habitats' occurrence in the area falling within the scope of stage I</b></p> <p>In the area covered by the scope of the decision of <i>RDOŚ in Gorzów Wielkopolski dated February 16<sup>th</sup>, 2011 on environmental conditions for implementation of the investment titled "Nowa Sól – Pleszówek – stage I (...)"</i> (ref. No.: WOOŚ-II.4233.2.2011.TK – Appendix 4a to the EMP), in the area of natural habitats' occurrence (referred to in item 25) one shall limit the construction works carried out beyond the outline of feet of modernized and redeveloped flood embankments to the necessary minimum.</p> <p>The measure shall be implemented in consultation with the expert phytosociologist (referred to in item 101), who shall also supervise the correctness of its implementation.</p>	<p><i>Task implementation area</i> (in the scope under the environmental decision for stage I)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
29.	Protection of biotic nature	<p><b>Limitation of the influence on the water regime in natural habitats</b></p> <p>One shall apply technical solutions guaranteeing the limitation of changes of the natural water regime which might influence the natural habitats located in the <i>Task implementation area</i> and within its vicinity to the necessary minimum.</p> <p>In particular, the following principles shall be observed:</p> <p>a) one shall preserve the diverse microrelief in the current embanked area;</p> <p>b) the earth masses must not be temporarily or permanently deposited in any terrain hollows located in the</p>	<p><i>Task implementation area</i></p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u></p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		current embanked area or in the terrain within the boundaries of the new embanked area.			up to date, at least once a month	Engineer.
30.	Protection of biotic nature	<p><b><i>Protecting the Task implementation area against entering of small animals</i></b></p> <p>The works should be executed in a way allowing avoiding killing animals.</p> <p>The <i>Task implementation area</i>, particularly:</p> <ul style="list-style-type: none"> <li>– sites of on-going works,</li> <li>– site facilities, storage yards, etc.,</li> <li>– terrain hollows which might store water (i.e. places with suitable conditions to be inhabited by amphibians),</li> </ul> <p>should be secured against entering small animals (amphibians, reptiles, small mammals) with a metal net of mesh size not larger than 0.5 x 0.5 cm and of the height of at least 0.6 m above ground level. The net should be buried into the ground to the depth of at least 30 cm.</p> <p>The net should be equipped with the so-called overhang i.e. the deflection of (at least 5 cm ) of material in the upper part to the outside (i.e. towards the surrounding area), at the angle of 45-90°</p> <p>Determining the detailed location of the fences protecting the <i>Task implementation area</i> against entering of small animals, and establishing these fences should be executed under supervision of expert herpetologist and teriologist (referred to in item 101).</p> <p>Within the whole <i>Task implementation period</i> the condition of these fences should be inspected on a regular basis and possible leaks should be removed, and it must be remembered that:</p> <ol style="list-style-type: none"> <li>a) In the period between March 1<sup>st</sup> and August 31<sup>st</sup> the inspections should be carried out at least once in 3 days;</li> <li>b) In the period between September 1<sup>st</sup> and last of February – at least once in 10 days.</li> </ol> <p>Inspection of the fences should be carried out with the participation of the experts.</p>	<i>Task implementation area</i>	<i>Contractor’s team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				<i>Engineer’s team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
31.	Protection of biotic nature	<p><b><i>Inspections of places that could be a trap for small animals</i></b></p> <p>It is necessary to monitor excavations and other places that may be a trap for animals: amphibians, reptiles, small mammals every morning.</p> <p>In the period from March 1<sup>st</sup> to May 15<sup>th</sup> and from September 15<sup>th</sup> to October 15<sup>th</sup> also the second inspection should be carried out every day in the late afternoon.</p> <p>Trapped animals should be caught and released beyond the <i>Task implementation area</i>, in the appropriate place for the species. The last check of the presence of animals in excavations shall be carried out immediately before backfilling the excavation.</p> <p>The checks shall be carried out under the direction and in accordance with the guidelines of the expert herpetologist and teriologist (referred to in item 101), who will also coordinate and suggest the places to release the caught animal species.</p> <p>All wells and other anthropogenic objects that can be a trap for amphibians and small mammals should be protected according to notes and under the guidance of the abovementioned expert herpetologist and teriologist.</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
32.	Protection of biotic nature	<p><b><i>Current elimination of isolated still water pools in the Task implementation area</i></b></p> <p>During the <i>Task implementation period</i>, it is necessary to eliminate the isolated still water pools on a regular basis in the places that might interfere with ongoing or planned works and in the places of current or planned traffic of vehicles, machines and devices.</p> <p>This action is intended to prevent the settling of protected species of amphibians in the <i>Task implementation area</i> during the period of the works. This action should be carried out in consultation with the expert herpetologist (referred to in item 101), who will also supervise the correctness of the implementation thereof.</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
33.	Protection of biotic nature	<p><b>Ensuring safe migration possibilities for amphibians</b></p> <p>The works shall be carried out in a way that ensures the possibility of safe migration of amphibians, including the migration of amphibians through the designed internal roads in the <i>Task implementation area</i>.</p> <p>The detailed rules for the implementation of this condition should be agreed with an expert herpetologist (referred to in item 101), who will also supervise its proper implementation.</p> <p>The abovementioned agreement with an expert herpetologist must be submitted to the approval of the Engineer.</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
34.	Protection of biotic nature	<p><b>Catching and relocating small animals from the Task implementation area</b></p> <p>In the case of appearance of small animals (fish and lampreys, amphibians, reptiles, small mammals, bats) within the <i>Task implementation area</i> (in places where executed works may pose a risk to their life or health), they should be caught and relocated from the <i>Task implementation area</i> to appropriate habitats outside the range of impact of the works.</p> <p>The abovementioned actions should be executed under supervision of a relevant environmental expert (ichthyologist, herpetologist, teriologist and/or chiropterologist, referred to in item 101.</p> <p>[see also item 31, 37 and 38]</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
35.	Protection of biotic nature	<p><b>Fighting alien invasive plant species</b></p> <p>During carrying out the works, alien invasive plant species should be removed (at least twice a year, within the whole <i>Task implementation area</i>) until they disappear and are re-</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date,</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		placed with local vegetation. The alien invasive plant species should be pulled out (together with root ball), transported away and disposed of. These actions should be performed according to the detailed guidelines specified by the expert phytosociologist (referred to in item 101).			at least once a week	
				Engineer's team	<u>Period:</u> during the <i>Task implementation period</i>  <u>Frequency:</u> up to date, at least once a month	Visual monitoring, photographic documentation. Inspection of the participation of the required experts. Verification of documentation handed over from the Contractor to the Engineer.
36.	Protection of biotic nature	<b><i>On-going inspections of the environmental experts team within the Task implementation period</i></b>  All works executed within the <i>Task implementation period</i> shall be carried out under the supervision of environmental experts team (referred to in item 101).  These experts should carry out inspections of the whole <i>Task implementation area</i> on a regular basis (at least once a month) and communicate their findings and suggestions to the Contractor's staff responsible for implementation of works in conformity with the EMP conditions. The inspections should be followed by written notes attached to monthly reports on implementation of the EMP conditions (referred to in item 105).	<i>Task implementation area</i>	Contractor's team	<u>Period:</u> during the <i>Task implementation period</i>  <u>Frequency:</u> up to date, at least once a week	Visual monitoring, photographic documentation. Inspection of the participation and arrangements/notes of the required experts.
				Engineer's team	<u>Period:</u> during the <i>Task implementation period</i>  <u>Frequency:</u> up to date, at least once a month	Visual monitoring, photographic documentation. Inspection of the participation of the required experts. Verification of documentation handed over from the Contractor to the Engineer.
37.	Protection of biotic nature	<b><i>Obtaining a decision permitting derogations from the rules of species-specific protection for plants, fungi and animals for the habitats or sites of protected species listed in the EIA Reports</i></b>  With regard to the resources of the protected species of plants, fungi and animals listed in the <i>Environmental Impact Reports</i> elaborated in years 2009, 2010 and 2012 (along with later amendments to these reports), the following actions should be taken before works commencement:  a) the Contractor shall acquire and hand over a written opinion of the environmental experts team (referred to in item 101) for the Engineer approval, including the following information:	<i>Task implementation area</i>	Contractor's team	<u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)  <u>Frequency:</u> up to date, at least once a week	Visual monitoring, photographic documentation. Inspection of the participation and arrangements of the required experts. Inspection of the progress of obtaining and handing over the required administrative decisions.
				Engineer's team	<u>Period:</u> during the <i>Task implementation period</i>	Visual monitoring, photographic documentation. Inspection of the participation of the

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<ul style="list-style-type: none"> <li>– scope of the possible impact of the works on the detected natural resources and</li> <li>– the necessity to obtain the decision referred to in clause b,</li> </ul> and shall take the actions mentioned in clauses b–d below, if it is indispensable in the light of this opinion; <ul style="list-style-type: none"> <li>b) before taking any actions that could endanger the habitats and sites, or scare a protected species away (according to the opinion referred to in clause a), the Contractor shall be obliged to obtain an administrative decision required by the governing law that would allow for exceptions from the bans regarding the protected species of plants, fungi and animals;</li> <li>c) the decision has to be forwarded to the Engineer;</li> <li>d) the Contractor shall be obliged to a precise and timely implementation of the terms of the abovementioned decision.</li> </ul> [see also item 24]			(among others before commencement of works and during works) <u>Frequency:</u> up to date, at least once a month	required experts. Verification of documentation handed over from the Contractor to the Engineer.
38.	Protection of biotic nature	<p><b><i>Obtaining a decision permitting derogations from the rules of species-specific protection for plants, fungi and animals, for the newly discovered habitats or sites of protected species</i></b></p> <p>If new habitats or new sites of protected plants, fungi and animals species (other than the sites referred to in item 37) are discovered in the <i>Task implementation area</i> before the commencement or during the execution of works, the following actions shall be taken:</p> <ul style="list-style-type: none"> <li>a) the Contractor shall acquire and hand over a written opinion of the environmental experts team (referred to in item 101) for the Engineer approval, including the following information:                             <ul style="list-style-type: none"> <li>– scope of the possible impact of the works on the detected natural resources and</li> <li>– the necessity to obtain the decision referred to in clause b,</li> </ul> </li> </ul>	Task implementation area	Contractor's team	<u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works) <u>Frequency:</u> up to date, at least once a week	Visual monitoring, photographic documentation. Inspection of the participation and arrangements of the required experts. Inspection of the progress of obtaining and handing over the required administrative decisions.
		<ul style="list-style-type: none"> <li>a) the Contractor shall acquire and hand over a written opinion of the environmental experts team (referred to in item 101) for the Engineer approval, including the following information:                             <ul style="list-style-type: none"> <li>– scope of the possible impact of the works on the detected natural resources and</li> <li>– the necessity to obtain the decision referred to in clause b,</li> </ul> </li> </ul>		Engineer's team	<u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works) <u>Frequency:</u> up to date,	Visual monitoring, photographic documentation. Inspection of the participation of the required experts. Verification of documentation handed over from the Contractor to the Engineer.

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>and shall take the actions mentioned in clauses b–d below, if it is indispensable in the light of this opinion;</p> <p>b) before taking any actions that could endanger the habitats and sites, or scare a protected species away (according to the opinion referred to in clause a), the Contractor shall be obliged to obtain an administrative decision required by the governing law that would allow for exceptions from the bans regarding the protected species of plants, fungi and animals;</p> <p>c) the decision has to be forwarded to the Engineer;</p> <p>d) the Contractor shall be obliged to a precise and timely implementation of the terms of the abovementioned decision.</p> <p>[see also item 24]</p>			at least once a month	
<b>I. SPECIFIC REQUIREMENTS FOR THE WORKS IN RIVERBEDS</b>						
39.	Protection of biotic nature, protection of water	<p><b><i>Ichthyological supervision over the works in the Czarna Struga riverbed</i></b></p> <p>All works in the Czarna Struga riverbed of watercourses shall be performed under the supervision of an expert ichthyologist (referred to in item 101).</p> <p>The task of the expert will be to specify a proper method of work execution, check if the works are performed correctly and ensure implementation of relevant actions in case of risk to fish fauna.</p> <p>During the time of the execution of works in the Czarna Struga riverbed, the expert ichthyologist shall carry out regular inspections of the sites (at least once in three days) and forward their opinions and suggestions on regular basis to the Contractor's staff responsible for execution of works according to the EMP conditions.</p>	<p><i>Task implementation area</i> (riverbed and banks of Czarna Struga)</p>	<p><i>Contractor's team</i></p> <hr/> <p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p> <hr/> <p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p> <hr/> <p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
40.	Protection of biotic nature, protection of water	<p><b>Permissible dates of works in the Czarna Struga riverbed</b></p> <p>The works in the riverbed and on bank slopes of Czarna Struga should be carried out only in the period from August 16<sup>st</sup> to March 14<sup>th</sup> (prohibition of such work in the periods from March 15<sup>th</sup> to August 15<sup>th</sup>).</p>	<p><i>Task implementation area</i> (riverbed and banks of Czarna Struga)</p>	<p>Contractor's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of works schedules.</p> <p>Visual monitoring, photographic documentation.</p>
				<p>Engineer's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
41.	Protection of biotic nature, protection of water	<p><b>Maintaining the water flow and conditions of migration of the aquatic organisms in the Czarna Struga riverbed within the Task implementation area</b></p> <p>Throughout the entire <i>Task implementation period</i>, the possibility of migration of the aquatic organisms in the Czarna Struga riverbed should be maintained (the condition of maintaining the water flow in the river). For this purpose the following principles should be observed:</p> <p>a) throughout the entire <i>Task implementation period</i> flow of water in the Czarna Struga riverbed shall be maintained on a level allowing for functioning of water organisms upstream and downstream of the current site of works;</p> <p>b) in the case of the necessity of periodic limitation of the water flow in the Czarna Struga riverbed, the planned volume of water flow and the date and time of occurrence for the limited flow should be agreed with the expert ichtiologist (referred to in item 101), and the arrangement results should be presented for the Engineer's acceptance. This establishment cannot violate the condition discussed in clause a;</p> <p>c) the works in the Czarna Struga riverbed shall be performed sectionally to allow for movement of water or-</p>	<p><i>Task implementation area</i> (riverbed and banks of Czarna Struga)</p>	<p>Contractor's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation and arrangements of the required experts.</p>
				<p>Engineer's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>ganisms to safe sites located beyond the zone of currently performed works in the riverbed;</p> <p>d) at performance of the works in particular sections (as discussed in clause c), the works shall be performed towards one direction, so the water organisms would be able to move to safe sites located beyond the zone of currently performed works in the riverbed.</p>				
42.	Protection of biotic nature, protection of water	<p><b>Prohibition on interference in watercourses riverbeds and banks not covered by the works</b></p> <p>During the <i>Task implementation period</i> the riverbeds and banks of watercourses not covered by the works must not be interfered with (e.g. prohibition on traffic of vehicles, machinery and devices, prohibition on pollution, devastation and storage of materials, etc.).</p>	<p><i>Task implementation area</i> (riverbeds and banks of watercourses)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
43.	Protection of biotic nature, protection of water	<p><b>Protection of a water reservoir on the bank of Czarna Struga upstream of the planned pumping station</b></p> <p>During the <i>Task implementation period</i> one shall assure protection for the water reservoir located on the left bank of Czarna Struga upstream of the planned pumping station (patch of natural habitat 3150 [natural eutrophic lakes and oxbows] and place of occurrence of the yellow water-lily). For this purpose one shall observe the following conditions:</p> <p>a) during the <i>Task implementation period</i> the abovementioned reservoir shall be marked in accordance with conditions described in item 25;</p> <p>b) the construction works in the area of the abovementioned reservoir (including the works associated with relocation of the Czarna Struga riverbed and with construction of the pumping station's channel) shall be per-</p>	<p><i>Task implementation area</i> (banks of Czarna Struga)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>formed in a way assuring no interference in the above-mentioned water reservoir;</p> <p>c) the construction works planned under the Task cannot cause a permanent change in the ground water level in the area of this reservoir, and they cannot deteriorate the possibility of feeding the reservoir with waters from the river.</p>				
44.	Protection of biotic nature, protection of water	<p><b>Facilities preventing death of fish in the pumping station</b></p> <p>In order to limit death of fish associated with operations of the pumping station in the estuary reach of Czarna Struga (especially death of fish trying to move from Czarna Struga to Odra) one shall:</p> <p>a) apply an electric curtain scarring fish at the inlet channel to the pumping station (approx. km 0+350 of the channel);</p> <p>b) apply protection grates just in front of the pumping station, on the side of the inlet channel to the pumping station.</p>	<p><i>Task implementation area</i></p> <p>(pumping station's channel in the estuary reach of Czarna Struga)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
45.	Protection of biotic nature, protection of water	<p><b>Conditions related to shaping of embankment culverts on water courses (including a culvert in the embankment crossing the Czarna Struga valley)</b></p> <p>Embankment culverts on courses (including the culvert in the embankment crossing the Czarna Struga Valley) shall be designed and developed at the possibly lowest narrowing of the hydraulic section, to limit the increase of water velocity in the culvert, without raising the bottom over the course's bottom (in order to minimize the obstacle effects for migration of water organisms).</p>	<p><i>Task implementation area</i></p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
46.	Protection of biotic nature, protection of water	<p><b>Groynes (current deflectors) in the Czarna Struga riverbed in a reach downstream of km 3+330</b></p> <p>To increase the diversity of habitats in the Czarna Struga riverbed in a reach downstream of km 3+330, one shall observe the following conditions:</p> <p>a) place current deflectors in a form of groynes arranged at an angle of 45° from the river bank (in compliance with the current direction) in the riverbed;</p> <p>b) groynes shall reach approx. 1/3 of the riverbed’s width, and their maximum height should not exceed the level of average water (SQ);</p> <p>c) groynes shall be placed in locations given in clause d, usually in groups of 3, in a distance of 3.5 m or 4 m between the groynes (about 2/3 of the riverbed’s width);</p> <p>d) groynes shall be developed in the following locations:</p> <ol style="list-style-type: none"> <li>1. in km 0+666, right bank – 3 pcs.;</li> <li>2. in km 0+788, right bank – 2 pcs.;</li> <li>3. in km 0+814, left bank – 1 pc.;</li> <li>4. in km 0+838, right bank – 1 pc.;</li> <li>5. in km 0+919, right bank – 3 pcs.;</li> <li>6. in km 1+043, right bank – 3 pcs.;</li> <li>7. in km 1+145, right bank – 2 pcs.;</li> <li>8. in km 1+178, left bank – 2 pcs.;</li> <li>9. in km 1+291, left bank – 3 pcs.;</li> <li>10. in km 1+454, right bank – 3 pcs.;</li> <li>11. in km 1+572, right bank – 3 pcs.;</li> <li>12. in km 1+860, right bank – 3 pcs.;</li> <li>13. in km 2+004, right bank – 3 pcs.;</li> <li>14. in km 2+173, right bank – 3 pcs.;</li> <li>15. in km 2+227, right bank – 3 pcs.;</li> <li>16. in km 2+297, right bank – 3 pcs.;</li> <li>17. in km 2+503, right bank – 3 pcs.;</li> <li>18. in km 2+613, both banks – 1 pc. on each bank;</li> </ol>	<p><i>Task implementation area</i> (riverbed of Czarna Struga, downstream of km 3+330)</p>	<p><i>Contractor’s team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer’s team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		19. in km 2+705, right bank – 3 pcs.; 20. in km 2+804, right bank – 3 pcs.				
47.	Protection of biotic nature, protection of water	<p><b>Planting of water vegetation in the Czarna Struga riverbed in a reach downstream of km 3+330</b></p> <p>In order to improve the process of reinstating bank plants in the Czarna Struga riverbed in a reach downstream of km 3+330, one shall observe the following conditions:</p> <p>a) in selected sections of the Czarna Struga riverbed (given in clause d) one shall apply vegetation rollers made of coconut matts, planted with the following plant species: reed mannagrass, common bulrush, yellow flag, arrow-head, unbranched bur-reed, water dock, great yellow-cress, fine-leafed water dropwort;</p> <p>b) plants on coconut matts shall be grouped in clusters with a length of 15-20 m, composed of 2-3 species, and located alternately within the given section;</p> <p>c) vegetation rollers should be placed in a way to have the top part of the roller over the level of average low water (SNQ);</p> <p>d) vegetation rollers shall be developed in the following locations:</p> <ol style="list-style-type: none"> <li>1. in km 0+689 - 0+730, left bank;</li> <li>2. in km 0+939 - 0+987, left bank;</li> <li>3. in km 1+061 - 1+127, left bank;</li> <li>4. in km 1+215 - 1+268, left bank;</li> <li>5. in km 1+325 - 1+368, left bank;</li> <li>6. in km 1+457 - 1+500, left bank;</li> <li>7. in km 1+593 - 1+623, left bank;</li> <li>8. in km 1+679 - 1+759, left bank;</li> <li>9. in km 1+909 - 1+951, left bank;</li> <li>10. in km 2+043 - 2+111, left bank;</li> <li>11. in km 2+389 - 2+436, b left bank;</li> <li>12. in km 2+542 - 2+579, left bank;</li> </ol>	<p><i>Task implementation area</i> (riverbed of Czarna Struga, downstream of km 3+330)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		13. in km 2+640 - 2+673, left bank; 14. in km 2+718 - 2+785, left bank.				
48.	Protection of biotic nature, protection of water	<p><b>Rules for reinforcing river banks in a reach upstream of km 3+330</b></p> <p>In reaches of the Czarna Struga riverbed located upstream of km 3+330 in case of necessary river bank revetments one shall apply plant materials, fascine, stones, precasted concrete, and shall – as far as possible – avoid protection with steel nets, and shall diversify the revetments and therefore allow for formation of a mosaic of micro-habitats in the bank area of the riverbed.</p>	<p><i>Task implementation area</i> (riverbed and banks of Czarna Struga, upstream of km 3+330)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
49.	Protection of biotic nature, protection of water	<p><b>Shelters for fish in bank harbours in the Czarna Struga riverbed in a reach upstream of km 3+330</b></p> <p>To improve conditions of occurrence and breeding for fish in the Czarna Struga riverbed in a reach upstream of km 3+330, one shall observe the following conditions:</p> <p>a) one shall develop habitat elements in the riverbed in a form interfering the protected bank of a small harbour, extension of which is a groyne made of palisade;</p> <p>b) the entire structure shall also perform a function of “shelter” for fish – a hideout/refuge will be formed in the harbour for bigger fish; outwash of bottom sediments grown with vegetation shall be formed behind the groyne crossing the current, and it shall remain breeding ground and shall form shelters for small fish;</p> <p>c) wooden palisade placed on the bottom should be at an angle of approx. 60° and should reach about 1 meter in the river current (end of the palisade should be in a distance of at least 1 m from the bank in orthographic projection);</p> <p>d) “the harbour” should remain ca. 2/3 of the structure’s</p>	<p><i>Task implementation area</i> (riverbed of Czarna Struga, upstream of km 3+330)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>length, and the palisade reaching the current should be ca. its 1/3;</p> <p>e) the aforementioned habitat elements shall be assembled on banks protected with fascine bundles in the following locations:</p> <ol style="list-style-type: none"> <li>1. in km 3+837, right bank;</li> <li>2. in km 3+913, left bank;</li> <li>3. in km 4+086, right bank;</li> <li>4. in km 4+650, left bank;</li> <li>5. in km 4+900, right bank;</li> <li>6. in km 5+301, right bank;</li> <li>7. in km 5+400, left bank;</li> <li>8. in km 5+600, left bank;</li> <li>9. in km 5+681, right bank;</li> <li>10. in km 5+780, left bank;</li> <li>11. in km 5+867, right bank;</li> <li>12. in km 5+950, left bank;</li> <li>13. in km 6+000, right bank;</li> <li>14. in km 6+235, right bank;</li> <li>15. in km 6+285, left bank;</li> <li>16. in km 6+523, left bank;</li> <li>17. in km 6+623, right bank;</li> <li>18. in km 6+729, left bank;</li> <li>19. in km 6+754, right bank;</li> <li>20. in km 6+800, left bank;</li> <li>21. in km 6+900, left bank;</li> <li>22. in km 7+000, right bank;</li> <li>23. in km 7+100, left bank;</li> <li>24. in km 7+200, right bank;</li> <li>25. in km 7+300, left bank;</li> <li>26. in km 7+400, right bank;</li> <li>27. in km 7+500, left bank.</li> </ol>				

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
50.	Protection of biotic nature, protection of water	<p><b><i>Shaping of Czarna Struga bottom sections protected with rip-rap, in a reach upstream of km 3+330</i></b></p> <p>To increase the habitat diversity in the Czarna Struga riverbed in a reach upstream of km 3+330, one shall observe the following conditions:</p> <ul style="list-style-type: none"> <li>a) in river sections, where the bottom will be protected with rip-rap, one shall place stone boulders with a height of about 0.6-0.8 m having smooth edges;</li> <li>b) the height of boulders should be selected in such a way that some boulders would be located below the level of average water (SQ), and some boulders would slightly protrude over the level SQ;</li> <li>c) boulders shall be arranged in irregular groups, alternately at both banks of the riverbed, so it would diversify the current line in the riverbed;</li> <li>d) distance between the groups of boulders on the given bank should be irregular; however, the alternate arrangement of locations on both banks shall be kept;</li> <li>e) detailed arrangement of habitat elements in a form of boulders shall be established in agreement with the expert ichthyologist (referred to in item 101).</li> </ul>	<p><i>Task implementation area</i> (riverbed of Czarna Struga, upstream of km 3+330)</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
51.	Protection of biotic nature, protection of water	<p><b>Shaping of an artificial rapid in the Czarna Struga riverbed in the vicinity of km 3+429</b></p> <p>An artificial rapid in the Czarna Struga riverbed (in the vicinity of km 3+429) shall be designed and developed in a way minimizing its impact on the possibility of two-way migration for water organisms in the Czarna Struga riverbed.</p> <p>For this purpose:</p> <p>a) one shall assure such a shape of the artificial rapid, which would provide diversification of water flow velocity in the cross-section of the artificial rapid;</p> <p>b) one shall assure such a shape of the artificial rapid, which would prevent losing contact with the bottom by the flowing water.</p>	Task implementation area (riverbed of Czarna Struga, in the area of km 3+429)	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
<b>J. REQUIREMENTS CONCERNING LAND RECLAMATION AFTER WORKS</b>						
52.	Protection of biotic nature, protection of soil	<p><b>Reconstruction of the topsoil layer and green areas, and ordering the area after work completion</b></p> <p>When the works are completed, the following actions should be done:</p> <p>1) dismantling of the site facilities and roads and technological yards, and removing the road panels and collected sand from the ballast beyond the Task implementation area to the destination place indicated previously (approved by the Engineer);</p> <p>2) on the areas occupied in connection with the execution of the Task (within the Task implementation area) the appropriate agricultural practices (loosening of soil, fertilizing, etc.) preparing to restoration of the fertile layer of soil shall be performed;</p> <p>3) on the areas occupied in connection with the execution of the Task (within the Task implementation area) the fertile layer of soil shall be restored (among other with the use of topsoil collected from the area according to the conditions of item 12);</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>4) carrying out procedures enhancing reconstruction of green areas (including sowing, using domestic plants only, according to the local habitat conditions and in accordance with design documentation);</p> <p>5) ensuring proper care of the reconstructed green areas (until the Defects Notification Period is over);</p> <p>6) ordering the <i>Task implementation area</i>.</p> <p>The actions specified in clause 2, 3, 4 and 5 (above) should be performed under the supervision of an expert botanist-phytosociologist (referred to in item 101), which would cover the following items:</p> <p>a) agreeing upon precise timelines of works;</p> <p>b) agreeing upon species composition and quantity proportions of seed mix to be sown;</p> <p>c) agreeing upon conditions for preparing the soil;</p> <p>d) agreeing upon rules of care of the reconstructed green areas;</p> <p>e) communicating the arrangements to the Engineer for approval;</p> <p>f) supervision over carrying out the procedures enhancing reconstruction of the green areas and their care (until the Defect Notification Period is over).</p> <p>The actions regarding reconstruction of the topsoil layer and green areas referred to in this item of the EMP shall begin at the earliest possible date allowing its implementation.</p> <p>The implementation of the works specified in this item of the EMP can begin only upon approval of the detailed <i>Quality Assurance Plan</i> concerning these works by the Engineer.</p>				

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
<b>K. REQUIREMENTS CONCERNING RULES OF USE OF THE BUILT FACILITIES</b>						
53.	Protection of human health and safety	<p><b>Ongoing maintenance of embankments and other flood defenses</b></p> <p>One shall provide ongoing and regular maintenance for embankments and other flood defenses within the <i>Task implementation area</i>.</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
54.	Protection of biotic nature	<p><b>Allowing for temporary flooding of the Czarna Struga embanked area upstream of the embankment spillway</b></p> <p>During operations of the embankment spillway in the embankment separating the Czarna Struga Valley from the Odra valley one shall allow for temporary flooding of the Czarna Struga embanked area in a reach upstream of the spillway (due to natural habitats and protected species demanding periodical flooding located there).</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
55.	Protection of biotic nature	<p><b>Allowing for natural succession of plants within the areas included in the embanked area</b></p> <p>Within lands added to the embanked area one shall allow for the natural process of plant succession, so it would allow for redevelopment of ecosystems and natural habitats proper for flood plains (especially alluvial habitats – 6440, 91E0, 91F0).</p> <p>For this purpose within those areas one shall:</p> <p>a) allow for spontaneous development of natural vegetation, without interference in a form of sowing or planting;</p> <p>b) assure temporary elimination of geographically or habitat-related alien species.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
56.	Protection of biotic nature	<p><b>Mowing of meadows within the embanked area of Czarna Struga</b></p> <p>Within the embanked area of Czarna Struga, in a reach from the estuary to Odra to the closest bridge located upstream of the estuary (in the artery of Wodna Street), one shall regularly mow the meadows.</p> <p>The mowings shall be done in accordance with requirements for natural habitat 6440 – alluvial meadows.</p> <p>This measure shall be implemented in one of two alternative variants:</p> <p>a) through implementation of a proper agricultural-environmental-climate programme under the <i>Farmland Development Programme</i> (PROW) for this type of habitat;</p> <p>b) through assuring the extensive use of meadows, including the following rules:</p> <ul style="list-style-type: none"> <li>– mowings done annually or once every two years;</li> <li>– late summer mowings (preferably in September);</li> <li>– removal of mown biomass within 14 days after the mowings at the latest (it is banned to store the mown biomass within the embanked area);</li> </ul>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<ul style="list-style-type: none"> <li>– it is banned to leave the fragmented biomass within the embanked area;</li> <li>– leaving minor unmown areas (15-20%), in a different location each year;</li> <li>– no sowing and no fertilizing.</li> </ul> <p>Carex reed areas are excluded from mowing (based upon the assessment of expert phytosociologist).</p> <p>Furthermore one shall exclude the following areas from mowing:</p> <ul style="list-style-type: none"> <li>a) on plot No. 609/1 – zone over a width of 5 m around alm-ash and poplar riparian forests (to allow for the development of an ecotone zone, including thermophilic shrubs in forest edge);</li> <li>b) on plot No. 603/2 – zone over a width of 20 m around an oxbow lake (to allow for the development of reed, herb vegetation, and willow thickets); tree and shrub logging shall be limited only to the zone at the embankment, where it is necessary due to flood protection reasons;</li> <li>c) on plots No. 602, 600/2 i 600/3 – one shall keep the existing trees and groups of shrubs, with a buffer zone having a width of approx. 2 m around them;</li> <li>d) at the boundary of the plot No. 602 and the oxbow – zone having a width of 20 m (for natural plant succession).</li> </ul> <p>During the <i>Task implementation period</i> the abovementioned measures (i.e. mowing of meadows) shall be done under supervision of expert phytosociologist (referred to in item 101), including e.g. the following:</p> <ul style="list-style-type: none"> <li>a) establishment of precise work dates;</li> <li>b) establishment of detailed locations for measures;</li> <li>c) establishment of detailed rules for mowing of meadows;</li> <li>d) provision of the results for the aforementioned establishments for the Engineer’s acceptance;</li> <li>e) supervision over implementation of the aforementioned</li> </ul>				

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>measures (until the Defect Notification Period is over).                      Measures associated with mowing of meadows, as discussed in this item of the EMP, shall be commenced in the soonest time allowing for their implementation.</p> <p>The implementation of the works specified in this item of the EMP can begin only upon approval of the detailed <i>Quality Assurance Plan</i> concerning these works by the Engineer.</p> <p>Attention:                      Before commencing the implementation of this measure, one shall identify the current location of the boundaries of the areas described using record plots numbers, according to the conditions set out in item 98.</p>				
<b>L. REQUIREMENTS CONCERNING POLLUTION PREVENTION</b>						
57.	Protection of water and soil, protection of human health and safety, protection of biotic nature	<p><b><i>Using construction materials meeting the requirements of the provisions and standards, and which are harmless for environment</i></b></p> <p>The construction materials used for the Task implementation should be harmless for environment (natural, environmentally friendly or neutral).                      Consumables, raw materials, fuels, fertilisers, and concrete mixtures used during the <i>Task implementation period</i> should have appropriate certificates and be approved for use.                      Earth structures should be made of natural materials. Materials that are hazardous or harmful for health must not be used.</p> <p>To construct/extend the embankments one shall apply mineral materials, geo-synthetics if needed – but only such which do not remain an emission source of substances harmful to the ground and water environment.</p>	<i>Task implementation area</i>	<p><i>Contractor's team</i></p> <hr/> <p><i>Engineer's team</i></p>	<p><u>Period:</u>                      during the <i>Task implementation period</i></p> <p><u>Frequency:</u>                      up to date,                      at least once a week</p> <hr/> <p><u>Period:</u>                      during the <i>Task implementation period</i></p> <p><u>Frequency:</u>                      up to date,                      at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <hr/> <p>Visual monitoring, photographic documentation.                      Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
58.	Protection of water and soil	<p><b>Technical efficiency and inspections of vehicles, machinery and devices</b></p> <p>To prevent against water and soil pollution only vehicles, machinery and devices that are technically efficient can be used.</p> <p>The Contractor is obliged to carry out maintenance of the vehicles, machinery and devices and to prevent possible contamination of the water and soil with all available organizational measures, paying special attention to prevent from fuel, oil and oil derivatives spilling both during maintenance, filling the tanks, transport and operation of the vehicles, machinery and devices.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
59.	Protection of water and soil	<p><b>Conditions for the location of building materials storage and production sites</b></p> <p>Building materials, particularly bulk materials, should be stored only on paved surfaces within the construction site facilities.</p> <p>Such materials cannot be stored at a distance smaller than 100 m from the existing riverbeds.</p> <p>Analogical conditions relate to the locations of building materials production (concrete masses, pre-fabricated materials, aggregates etc.).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of Contractor's documentation regarding organisation of the construction site.</p> <p>Visual monitoring, photographic documentation.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
60.	Protection of water	<p><b>Limiting the time and amount of drainage and ban on discharge of the water from excavation ditches directly to the watercourses</b></p> <p>The drainage time should be limited to maximum and methods reducing the amount of the pumped out water alongside with its protection against contamination should be applied.</p> <p>The water pumped out of the excavation ditches must not be discharged to the watercourses due to a high amount of the suspended matter.</p> <p>The water can be discharged to the watercourses only upon its treatment and removal of the suspended matter, e.g. in a settling tank.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
61.	Protection of biotic nature, protection of the earth surface	<p><b>Conditions for traffic of vehicles, machinery and devices within the Task implementation area</b></p> <p>The traffic of vehicles, machinery and devices can be maintained only in the following areas:</p> <p>a) within the site facilities;</p> <p>b) on existing roads;</p> <p>c) on access roads and yards;</p> <p>d) on internal roads (after their completion).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
62.	Protection of water and soil	<p><b><i>Parking lot for the machines and vehicles after the completion of works</i></b></p> <p>At the end of the workday, and especially on holidays, the machines and vehicles must be parked in designated areas in the site facilities.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
63.	Protection of water and soil	<p><b><i>Pavement sealing in the location of vehicle, machinery and equipment traffic at the site facilities</i></b></p> <p>The pavement of the site facilities areas at which vehicles, machinery and devices will move should be sealed.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
64.	Protection of water and soil	<p><b><i>Ban on the service and repairs of vehicles, machinery and devices outside the site facilities</i></b></p> <p>The service of vehicles, machinery and devices (<i>i.a.</i> replacement of oils and liquids) can be performed only in the designated locations within the site facilities which meet the conditions set out in item 65.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
65.	Protection of water and soil	<p><b><i>Indicating and sealing the sites of stationing and maintenance of vehicles, machinery and devices</i></b></p> <p>The sites to be used for maintenance of vehicles, machinery and devices (including stationing, filling with fuel, technical maintenance, etc.) should be appropriately indicated and designated within the site facilities.</p> <p>Until completion of the works these sites should be spread with impermeable insulating materials that would prevent the ground against contamination with liquid or solid substances.</p> <p>While discussing the location of these sites it must be remembered to maintain a safe distance from still and flowing waters basins.</p> <p>The detailed location must be discussed with environmental experts team referred to in item 101 (including the expert phytosociologist).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
66.	Protection of water and soil	<p><b><i>Ensuring water drainage from parking sites and access roads into drainage systems</i></b></p> <p>Parking sites for equipment and access roads shall be made with a slope to ensure stormwater, meltwater, and wastewater drainage into drainage systems in a manner that prevents any contaminants from penetrating the soil or mixing with surface waters.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
67.	Protection of water and soil	<p><b><i>A station with a sorbent near the service and parking sites for vehicles, machinery and devices.</i></b></p> <p>A station with a sorbent used to eliminate any leaks and spillages of petroleum derivatives should be located near service sites for vehicles, machinery and devices (including parking, filling and technical service sites, etc.).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
68.	Protection of water and soil	<p><b>Rules for filling the tanks of vehicles, machinery and devices</b></p> <p>Fuel tanks should be filled using mobile or fixed fuel distribution stations equipped with appropriate security systems like a post with sorbent used for removing spilling and leaks of oil derivatives to the ground.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
69.	Protection of water and soil	<p><b>Principles of washing and cleaning vehicles, machinery and devices</b></p> <p>Servicing operations of vehicles, machinery and devices used in the <i>Task implementation area</i> (including, among others, cleaning the equipment used for concreting works) are permissible only in designated locations within the area of site facilities, adequately protected against the risk of contamination of subsoil and water as well as provided with equipment enabling immediate removal of possible contamination.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
70.	Protection of water and soil	<p><b><i>Prevention of leaks from vehicles, machinery and devices</i></b></p> <p>Throughout the <i>Task implementation period</i>, the technical state of vehicles, machinery and devices in operation shall be checked regularly to eliminate leaks of carbohydrate petroleum derivatives into the soil and waters.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
71.	Protection of water and soil	<p><b><i>How to proceed in the event of petroleum derivative emission</i></b></p> <p>In the event of any petroleum derivative emission into the environment (including into soil and water), one shall:</p> <p>a) immediately take actions to prevent pollution dissemination, using available means (e.g. sorbents);</p> <p>b) immediately remove the soil contaminated due to the breakdown as per applicable regulations.</p> <p>c) in the event of major breakdowns, apply procedures described in item 93.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> preventively up to date, at least once a week and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of implementation of the required procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
72.	Protection of acoustic climate	<p><b><i>Restriction on works to daytime</i></b></p> <p>Work should be planned so that it lasted as short as possible and be performed only in the daytime (between 6 a.m. and 10 p.m.).</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
73.	Protection of acoustic climate	<p><b><i>Restriction on noise emitted by vehicles, machinery and devices</i></b></p> <p>Works shall only be carried out using vehicles, machinery and devices in working order and with noise emission levels (acoustic power) consistent with applicable regulations.</p> <p>Defective vehicles, machinery and devices which might result in increased noise levels in the surroundings shall not be used for the works.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

The Environmental Management Plan for OVFMP – Sub-component 1B – Task: 1B.6/1

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
74.	Protection of acoustic climate	<p><b><i>Restriction on noise emitted by pump aggregates</i></b></p> <p>In the event that the works are carried out in the acoustically protected areas or in their proximity, in order to restrict noise nuisance for the residents, one shall only use pump aggregates equipped with effective sound dampening cases, ensuring reduction in noise emission to levels consistent with applicable regulations and standards.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
75.	Protection of acoustic climate	<p><b><i>Noise level control in acoustically protected areas</i></b></p> <p>In the event that the works are executed in acoustically protected areas or in their proximity, one shall control the noise level on a running basis and, as necessary, apply appropriate technical and organizational measures ensuring reduction in noise emission to the levels consistent with applicable provisions and standards.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
76.	Protection of air, protection of acoustic climate	<p><b>Restriction on power consumption of vehicles, machinery and devices</b></p> <p>Use low power consumption vehicles, machinery and devices; switch off the power supply when they are not in use.</p> <p>Engine running time of vehicles, machinery and devices shall be reduced to the necessary minimum.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
77.	Protection of air	<p><b>Restriction on air pollution with exhaust fumes</b></p> <p>In order to reduce negative impact on the condition of the air:</p> <p>a) only use vehicles, machinery and devices that are in working order and have valid certificates in order to reduce the emission of gaseous substances and dusts into the atmosphere;</p> <p>b) provide a place for safe manoeuvring of vehicles in the form of yards;</p> <p>c) one shall reduce the traffic of vehicles, machinery, and devices to the necessary minimum, as well as limit the speed of vehicle traffic on the construction site;</p> <p>d) one shall limit the engine idling time to the necessary minimum and observe the principle of turning off the machines and devices during breaks;</p> <p>e) turn off engines vehicles are stopped.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
78.	Protection of air	<p><b>Limiting dust contamination from the construction site and roads</b></p> <p>During the course of the construction works, limit the consequences of secondary dust contamination by observing high standards of work and in particular by:</p> <ul style="list-style-type: none"> <li>a) systematic clearance of the construction site;</li> <li>b) application of the necessary technical and organizational measures limiting dust emission on the construction site and on the roads;</li> <li>c) sprinkling dusty road surfaces;</li> <li>d) using airtight tarpaulin on vehicles carrying materials that may cause dusting during transport;</li> <li>e) cleaning vehicle wheels before entering access roads to the <i>Task implementation area</i>;</li> <li>f) removal of contamination using machinery (special purpose vehicles).</li> </ul>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
79.	Protection of human health and safety, protection of air	<p><b>Maintenance of cleanliness on roads</b></p> <p>In order to maintain cleanliness and prevent dust emission on roads the following actions shall be taken up:</p> <ul style="list-style-type: none"> <li>a) the Contractor shall use all available technical means and work organization in order to maximally reduce dust emission and contamination of access roads to the <i>Task implementation area</i>.</li> <li>b) the contractor shall install the stands in the places of departure of heavy equipment from the construction site, where soil or mud will be preliminary removed from the wheels of vehicles.</li> <li>c) the Contractor is obliged to immediately and regularly remove any contamination from roads which occurs as a result of movement of vehicles, machinery and devices associated with the implementation of the Task.</li> </ul>	<i>Task implementation area along with access roads</i>	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
80.	Protection of air	<p><b>Ban on use bonfires and combustion of materials, waste, rubbish etc.</b></p> <p>In the <i>Task implementation area</i> it is not allowed to use bonfires and combust materials, waste, rubbish etc.</p>	<p><i>Task implementation area</i></p>	<p>Contractor's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p>Engineer's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
<p><b>M. REQUIREMENTS CONCERNING WASTE MANAGEMENT</b></p>						
81.	Protection of water and soil	<p><b>Preparing a Waste Management Plan (WMP)</b></p> <p>Prior to the commencement of the works, the Contractor shall prepare and submit to the Engineer for approval the <i>Waste Management Plan</i>, which specifies how to deal with waste expected to be generated during the works, and includes <i>i.a.</i> the waste management conditions contained in the EMP.</p> <p>[see also item 10]</p>	<p><i>Task implementation area</i></p>	<p>Contractor's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works, until the condition is met)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Evaluation of the progress of works on the document in question and its conformity with the EMP requirements.</p> <p>Verification of handing over the document to the Engineer.</p>
				<p>Engineer's team</p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works, until the condition is met)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
82.	Protection of water and soil, protection of air	<p><b>Principles of waste management</b></p> <p>Wastes generated during the implementation of the Task shall be:</p> <p>a) segregated and selectively stored in airtight containers or in designated and suitable locations in conditions that prevent dust emission and prevent the wind picking up light fractions resulting in a negative environmental impact;</p> <p>b) regular waste collection shall also be ensured by entities authorised to manage the waste further.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
83.	Protection of water and soil	<p><b>Principles of hazardous waste management</b></p> <p>Hazardous waste shall be segregated and stored separately in designated airtight containers set on hardened ground, secured against unauthorised access until handed over to entities authorised to manage such waste further.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
84.	Protection of water and soil	<p><b><i>Principles of domestic waste-water management</i></b></p> <p>Domestic waste-water shall be retained at the site facilities in airtight holding tanks, the content of which shall be handed over to entities with appropriate permits to remove it.</p>	<p><i>Task implementation area</i></p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
85.	Protection of water and soil	<p><b><i>Prevention of creation of illegal landfill sites</i></b></p> <p>Prior to the commencement of the works, the Contractor shall carry out reconnaissance of the <i>Task implementation area</i> to identify illegal landfill sites. During the implementation of the task, the Contractor shall prevent the emergence of possible dumping sites in the <i>Task implementation area</i>.</p>	<p><i>Task implementation area</i></p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
<b>N. REQUIREMENTS CONCERNING PROTECTION OF HUMAN LIFE AND HEALTH</b>						
86.	Protection of human health and safety	<p><b>Preparing documents related to safety in the Task implementation area</b></p> <p>In the <i>Task implementation area</i>, one shall maintain order and ensure proper work organization.</p> <p>Prior to the commencement of the works, the Contractor shall prepare and obtain approval from the Engineer of the following documents related to safety at the construction site:</p> <p>a) <i>Safety and health protection plan (the SHP plan)</i>;                      b) <i>Construction site organization design</i>.</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u>                      up to date,                      at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the progress of works on the documents in question and their conformity with the EMP requirements.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u>                      up to date,                      at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
87.	Protection of human health and safety	<p><b>Reconnaissance and supervision of explosive ordnance disposal unit in the Task implementation area</b></p> <p>In order to minimize the risk related to the possibility of presence of hazardous military objects in the <i>Task implementation area</i>, the Contractor shall provide:</p> <p>a) prior to the commencement of the works – reconnaissance of the <i>Task implementation area</i> to detect unexploded explosive ordnance (a report containing the results of the abovementioned unexploded explosive ordnance reconnaissance shall be submitted to the Engineer for approval);                      b) during the performance of the works – supervision of explosive ordnance disposal unit over the works (carried out by the explosive ordnance disposal team referred to in item 103) involving examination and clearance in the <i>Task implementation area</i> of hazardous military objects</p>	<i>Task implementation area</i>	Contractor's team	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u>                      up to date,                      at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of implementation of the required procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u>                      during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u></p>	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>followed by their disposal;</p> <p>c) in the event that hazardous military objects are found in the <i>Task implementation area</i> – implementation of the procedures described in item 94.</p>			up to date, at least once a month	Engineer.
88.	Protection of human health and safety, protection of property	<p><b><i>Documentation and monitoring of the technical condition of the buildings exposed to the impact of vibrations</i></b></p> <p>Prior to the commencement of the works during which there may occur vibrations that are hazardous to the neighboring residents as well as the neighboring properties and infrastructural facilities, the Contractor shall take inventory of the existing buildings and facilities, having particular regard to cracks and damage.</p> <p>During the performance of the works listed above, the Contractor shall monitor the condition of the buildings and facilities on an ongoing basis.</p>	Task implementation area and its vicinity	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
89.	Protection of human health and safety	<p><b>Implementation of guidelines on occupational health and safety requirements</b></p> <p>The Contractor shall ensure implementation of detailed guidelines on occupational health and safety requirements, i.a. in terms of:</p> <ul style="list-style-type: none"> <li>a) construction site development, including danger zones;</li> <li>b) storage and transport;</li> <li>c) electric power devices and systems;</li> <li>d) technical machinery and devices;</li> <li>e) works at heights;</li> <li>f) earth works;</li> <li>g) selected renovation and demolition works, contained in applicable regulations and presented in the study by <i>Chief Labour Inspectorate</i> as appendix to contract <i>Bidding Documents</i> (Part 2, Section VII – <i>Requirements for Works</i>).</li> </ul>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>
90.	Protection of human health and safety	<p><b>Ensuring hygienic conditions</b></p> <p>In the <i>Task implementation area</i>, one shall ensure a necessary number of portable toilets and ensure that the staff are able to use them, as well as provide all the staff with training on maintaining proper hygienic conditions at the construction site and its immediate vicinity.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Visual monitoring, photographic documentation.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
91.	Protection of human health and safety	<p><b>Principles of prevention of such diseases as HIV-AIDS</b></p> <p>By the agency of an approved service supplier, the Contractor shall implement an awareness raising programme on spreading such diseases as HIV-AIDS (the Contractor shall also carry out appropriate trainings) and shall take all other measures to lower the risk of transmitting HIV among the Contractor’s personnel and among the local community. Those activities shall be performed in accordance with the detailed conditions set out in the Contract <i>Bidding Documents</i> (Part 3, Section VIII – <i>General Terms, clause 6.7</i>).</p>	<p><i>Task implementation area</i> along with the surroundings</p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Inspection of conformity of the Contractor's actions with the subject matter requirements specified in the Contract.</p>
				<p><i>Engineer's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of documentation handed over from the Contractor to the Engineer.</p>
<b>O. REQUIREMENTS CONCERNING EXTRAORDINARY THREATS TO THE ENVIRONMENT</b>						
92.	Protection of human health and safety	<p><b>Principles of flood risk management</b></p> <p>With regard to flood risk, the Contractor shall prepare and submit to the Engineer for approval the document entitled <i>Construction Site Flood Protection Plan</i> that incorporates local hydrological and meteorological conditions in the vicinity of the construction site.</p> <p>If flooding occurs, the Contractor shall proceed in accordance with the procedures described in the abovementioned</p>	<p><i>Task implementation area</i></p>	<p><i>Contractor's team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of the progress of works on the documents in question and their conformity with the EMP requirements.</p> <p>Verification of handing over the documents to the Engineer.</p> <p>Verification of following the procedures applicable in the case of a flood event.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		document.		<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	Verification of documentation handed over from the Contractor to the Engineer.
93.	Protection of human health and safety	<p><b><i>Principles of crisis notification</i></b></p> <p>In the event of a crisis (other than a flooding), an accident, a major breakdown, etc., the Contractor is obliged to take the following actions:</p> <p>a) immediately notify appropriate emergency services (fire brigade, ambulance, the police, etc.);</p> <p>b) by the time appropriate emergency services arrive, carry out necessary activities to lower the risk of loss to personnel, property, and the environment (agreed with appropriate services as far as possible);</p> <p>c) notify the Engineer and the Employer;</p> <p>d) after arrival of appropriate emergency services, strictly follow their recommendations and instructions.</p> <p>[see also the condition in item 71]</p>	<i>Task implementation area</i> along with the surroundings	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> preventively up to date, at least once a week and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of implementation of the required procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>
				<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
94.	Protection of human health and safety	<p><b><i>Procedures for unexploded explosive ordnance management</i></b></p> <p>In the event that unexploded explosive ordnance is found, one shall:</p> <ul style="list-style-type: none"> <li>a) immediately stop the works;</li> <li>b) evacuate the area around the finds;</li> <li>c) immediately notify an explosive ordnance disposal unit [see items 87 and 103] and the police, and follow their recommendations;</li> <li>d) notify the Engineer and the Employer;</li> </ul> <p>It is strictly forbidden to lift, dig up, bury, transfer, or throw unexploded explosive ordnance into fire, water, etc.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> preventively up to date, at least once a week and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of implementation of the required procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
<b>P. REQUIREMENTS CONCERNING PROTECTION OF CULTURAL MONUMENTS</b>						
95.	Protection of monuments	<p><b>Obtaining an opinion from a heritage conservator</b></p> <p>Prior to the commencement of the works, the Contractor shall obtain a relevant heritage conservator’s opinion on the terms and conditions of the planned works implementation with regard to the applicable principles of historic monuments and archaeological sites protection,</p> <p>The Contractor shall be obliged to observe the provisions deriving from the said opinion.</p> <p>[see also the condition in item 11]</p>	Task implementation area along with the surroundings	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Check on the progress of works regarding obtaining the opinion in question.</p> <p>Verification of handing over the documents to the Engineer.</p> <p>Verification of meeting the arrangements provided for in the opinion.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	Verification of documentation handed over from the Contractor to the Engineer.
96.	Protection of monuments	<p><b>Provision of archaeological supervision</b></p> <p>Earthworks shall be performed under regular archaeological supervision. To this end, the Contractor shall:</p> <p>a) prepare an appropriate action plan in this regard as part of <i>Quality Assurance Plan</i>;</p> <p>b) ensure participation of expert archaeologists referred to in item 102) to carry out regular supervision over the earthworks;</p> <p>c) if necessary, obtain the legally required <i>Permit for Archaeological Examination</i> from the appropriate heritage conservator.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of the progress of works on the documents in question and their conformity with the EMP requirements.</p> <p>Verification of handing over the documents to the Engineer.</p> <p>Verification of following the procedures applicable in the case of a flood event.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u></p>	Verification of documentation handed over from the Contractor to the Engineer.

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
					up to date, at least once a month	
97.	Protection of monuments	<p><b><i>How to proceed if movable monuments or archaeological sites are found</i></b></p> <p>If, during the works, an object is found for which it is reasonable to suppose or be certain that it may be a monument or have a historical value, the Contractor is obliged to:</p> <ul style="list-style-type: none"> <li>a) immediately stop all the works which may damage and destroy the find;</li> <li>b) secure (using available means) the find and the site where it was found against destruction, damage, or theft;</li> <li>c) immediately notify the expert archaeologists (referred to in items 96 and 102) and the Engineer;</li> <li>d) take further protective actions, agreed with the expert archaeologists and the Engineer;</li> <li>e) facilitate and ensure that documentation activities, archaeological research, and other necessary activities can be carried out by the expert archaeologists and/or administrative bodies in charge of securing historical items;</li> <li>f) once the activities and research listed in clauses d) and e) are completed, the discovered movable monuments shall be passed to appropriate institutions indicated by the expert archaeologists and/or administrative bodies in charge of securing historical items (in accordance with applicable regulations and the content of the <i>Permit</i> referred to in item 96 clause c);</li> <li>g) in the case of immovable monuments, after the completion of the activities and research listed in clauses d) and e), one shall proceed in accordance with the guidelines set out for further management of the discovered historical items, agreed with the expert archaeologists and/or administrative bodies in charge of securing the historical items (in accordance with applicable regulations and the content of the <i>Permit</i> referred to in item</li> </ul>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> preventively up to date, at least once a week and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p> <p>Verification of implementation of the required procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month and each time condition circumstances arise</p>	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		96 clause c).				
<b>R. REQUIREMENTS CONCERNING VERIFICATION OF THE GEODETIC DIVISION APPLIED IN THE EMP</b>						
98.	Protection of biotic nature, protection of water	<p><b>Verification of the geodetic division applied in the EMP</b></p> <p>Any reference to the record plots numbering provided in this appendix to the EMP refers to the geodetic division as of 2014-2015.</p> <p>Before commencing the implementation of the conditions referring to the areas described in the EMP using the record plots numbers (see items 6, 7 and 56), one shall:</p> <p>a) identify the current location of the boundaries of the abovementioned areas with reference to the current geodetic division (and the current plot numbering) contained in the current investment project implementation permit issued for the Task;</p> <p>b) submit the information on the results of the abovementioned arrangements to the Engineer for approval.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Inspection of progress of works on the studies in question and their conformity with the EMP requirements.</p> <p>Inspection of handing over the documents to the Engineer.</p>
				Engineer's team	<p><u>Period:</u> during the Task implementation period</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of documentation handed over from the Contractor to the Engineer.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
<b>S. REQUIREMENTS CONCERNING CONTRACTOR’S STAFF INVOLVED IN EMP IMPLEMENTATION</b>						
99.	Implementation and reporting of EMP	<p><b>Training of Contractor’s staff as regards of EMP implementation</b></p> <p>The Contractor is obliged to provide training to its management, engineers and technicians on the principles and manners of implementation of conditions of the EMP that – consistent with Appendix 1 and 2 to the EMP – are assigned to the Contractor. At the end of those trainings, tests should be carried out to check participants’ knowledge.</p> <p>In monthly reports submitted to the Engineer, the Contractor shall provide information on its personnel’s training level in the scope of EMP provisions in the current reporting period.</p>	Task implementation area	Contractor’s team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p>	Checking if all persons working currently within the Contract have undergone the training and communicating the findings to the Site Manager.
				Engineer’s team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of information concerning training of the Contractor’s staff that was handed over to the Engineer along with the Contractor’s monthly reports.</p> <p>Random on-the-spot checks of understanding of the EMP provisions by the staff working currently within the Contract for the Contractor.</p>
100.	Implementation and reporting of EMP	<p><b>Appointment of EMP coordinator in the Contractor’s staff</b></p> <p>A person in charge of co-ordination and supervision of activities related to EMP implementation shall be appointed in the Contractor’s staff.</p> <p>This person shall be responsible, among others, for:</p> <ol style="list-style-type: none"> <li>supervision over implementation of individual EMP conditions during various stages of Task implementation;</li> <li>regular monitoring of the implementation of individual conditions contained in Appendix 1 and 2 to the EMP in the <i>Task implementation area</i>;</li> <li>regular informing the Contractor’s team management about duties stemming from the EMP at a given stage of works, as well as about any problems occurring in the scope of EMP implementation;</li> <li>collaboration with Contractor’s remaining team members (including the team of environmental experts, team of archaeological experts and explosive ordnance disposal team, referred to in items 101, 102 and 103) in the scope of ensuring EMP implementation;</li> </ol>	Task implementation area	Engineer’s team	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Check on the presence of a required person in the Contractor’s team</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>



Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
		<p>represent at most two natural science areas of specializations listed above in clauses a–h.</p> <p>Involvement of the abovementioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the environment expert board’s activities.</p>				
102.	Implementation and reporting of EMP	<p><b><i>Ensuring a team of archaeological experts</i></b></p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of a team of archaeological experts.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in items 11, 95, 96 and 97 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the team of expert archaeologists may consist of one or more persons having appropriate industry qualifications. The composition of the team of expert archaeologists is subject to the Engineer’s approval. Involvement of the abovementioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the team of expert archaeologists’ activities.</p>	<i>Task implementation area</i>	<p><i>Contractor’s team</i></p> <hr/> <p><i>Engineer’s team</i></p>	<p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a week</p> <hr/> <p><u>Period:</u> during the <i>Task implementation period</i></p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Check on the contribution of the archaeological experts in the implementation of current mitigation measures (within the scope of the current work phase) and communicating the conclusions to the Site Manager.</p> <hr/> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>On-going inspections of fulfilling current obligations by the archaeological experts within Contractor’s personnel.</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
103.	Implementation and reporting of EMP	<p><b>Ensuring an explosive ordnance disposal team</b></p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of an explosive ordnance disposal team.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in item 87 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the explosive ordnance disposal team may consist of one or more persons having appropriate industry qualifications. The composition of the explosive ordnance disposal team is subject to the Engineer’s approval. Involvement of the abovementioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the explosive ordnance disposal team’s activities</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	Check on the contribution of the explosive ordnance disposal team in the implementation of current mitigation measures (within the scope of the current work phase) and communicating the conclusions to the Site Manager.
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>On-going inspections of fulfilling current obligations by the explosive ordnance disposal team within Contractor's personnel.</p>
104.	Implementation and reporting of EMP	<p><b>EMP implementation discussion during working meetings and Site Meetings</b></p> <p>During the <i>Task implementation period</i>, monthly meetings of PIU representatives, the Engineer and the Contractor shall take place, which will be dedicated to discussion and control of the implementation of the mitigation and monitoring measures specified in the EMP.</p> <p>Irrespective of the foregoing, current requirements and problems related to EMP implementation shall be discussed during all Site Meetings.</p>	Task implementation area	Contractor's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Verification of carrying out the meetings in question. Verification of discussing issues related to the implementation of EMP during Site Meetings.</p> <p>Communicating the findings to the Site Manager.</p>
				Engineer's team	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p>	<p>Verification of carrying out the meetings in question. Verification of discussing issues related to the implementation of EMP during Site Meetings.</p> <p>Verification of documentation handed over from the Contractor to the</p>

Item	Issue	Subject of monitoring	Place of monitoring	Responsible entity	Monitoring period and frequency	Method of monitoring
					<u>Frequency:</u> up to date, at least once a month	Engineer.
<b>T. REQUIREMENTS CONCERNING REPORTING OF EMP IMPLEMENTATION</b>						
105.	Implementation and reporting of EMP	<p><b>Monthly reports on progress in EMP implementation</b></p> <p>During the <i>Task implementation period</i>, the Contractor shall submit to the Engineer monthly reports on the implementation of the conditions specified in the EMP (in a form of a checklist along with the necessary appendices, including the reports on the implementation of the environmental supervision).</p> <p>The template of the abovementioned report (checklist) shall be prepared by the Contractor and submitted to the Engineer for approval.</p> <p>Depending on circumstances, the Engineer may demand from the Contractor additional reports on, <i>i.a.</i>, actual crisis situations, implementation of chosen EMP items, etc.</p>	<i>Task implementation area</i>	<i>Contractor's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a week</p>	<p>Inspection of progress of preparation and handing over the required reports and information to the Engineer.</p> <p>Quality check of communicated reports and information.</p>
				<i>Engineer's team</i>	<p><u>Period:</u> during the <i>Task implementation period</i> (among others before commencement of works and during works)</p> <p><u>Frequency:</u> up to date, at least once a month</p>	<p>Verification of documentation handed over from the Contractor to the Engineer.</p>