Appendix 3 - Plan of execution and monitoring of environmental compensation

In this Appendix to the Environmental Management Plan for the Odra - Vistula Flood Management Project, *Works Contract* 1B.7 - WFS Widawa – the rebuilding of the flood management system of the communes and municipalities Czernica, Długołeka, Wisznia Mała and Wrocław, measures are presented compensating an adverse environmental impact, being the guidelines for the Contractor under the above-mentioned Contract.

Explanations for the table in Appendix no. 3 of the EMP:

- 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;
- 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;
- 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 89 in Appendix no. 1 to the EMP), cooperating with the Site Manager and the rest of the Contractor's Staff (including, among others, a team of environmental experts, a team of archaeological experts, sapper supervision and OHS supervision);
- 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.

NOTE: In places where it was not possible to avoid negative impacts, according to Polish legislation, compensation measures will be implemented in accordance with art. 75 of the Environmental Protection Law. The compensation measures are not compensations at the European level.

A) REQUIREMENTS RELATED TO EXECUTION OF ENVIRONMENTAL COMPENSATING MEASURES

No.	Issue	Location	Compensating measure	Responsible entity
A1.	General conditions concerning nature protection	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice).	 Restoration of patches of the riparian forest habitat 91F0 On the area of 7.2 ha restore the patches of the natural habitat - Oak, elm, ash riverine forests (<i>Ficario-Ulmetum</i>) - code 91F0, through executing plantings appropriate (typical) for this habitat of tree and bush species. The following rules should be observed when executing the plantings: a) the basic principles of forest cultivation should be maintained within the entire cycle of executing the plantings; b) planting material in accordance with seed regionalisation (coming from the region within which plantings are to be performed) and nature-forest regionalisation should be used for plantings; c) plantings should be executed between September and October; d) appropriate maintenance procedures, carried out within the Task implementation under the supervision of the expert phytosociologist/Contractor's environmental team, should be made for the planted crops; e) the number of seedlings 8,000 / ha, due to extreme weather events occurring in recent years, it is recommended to increase the planned number of seedlings by 10%; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
			The list of works necessary to perform as a part of the compensation	
			a) soil preparation	
			The works include making furrows using machines and equipment, for example, a forest milling cutter or a plow – LPZ type, or an equivalent tool. Approximate parameters of furrows:	
			- width 60-70 cm	
			- deep 6 to 15 cm	
			- distances from the center of the furrow: 1.4 - 1.6 m (average 1.5 m).	
			b) fencing planting with a fence mesh	
A2.	General conditions concerning nature protection	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice).	Fence mesh with a height of min. 200 cm, number of horizontal wires minimum 22, distance of vertical wires max. 15 cm, up to 0.8 m height of the fence, eye size maximum $5x15$ cm. The mesh must be galvanized, the minimum amount of zinc 200 g/m^2 , the thickness of the extreme horizontal wires on the top and bottom minimum of 2.5 mm, the remaining wires minimum of 2.0 mm (tolerance of wire thickness +/- 0.12 mm).	Contractor
			Wooden oak posts, debarked with a minimum length of 2.6 m and a diameter of min. 12 cm without bark, meeting the requirements of S2a wood. The posts should be buried at a depth of min. 0.5 m, at intervals of maximum 4m.	
			In the upper part of the fence, the horizontal rod should be nailed. The edge of fence at the ground should be wrap 15-20 cm and fastening by nailing the rod or nailing the pins between the posts.	
			Execution of at least 1 gate for each fencing.	
			c) planting	
		Planting in places and spacing defined by a representative of the Oława Forest District	Planting in places and spacing defined by a representative of the Oława Forest District.	
			d) making corrections	
		The corrections will consist in supplementing the planted seedlings, in place the seedlings have withered, with oak seedlings.	The corrections will consist in supplementing the planted seedlings, in places where the seedlings have withered, with oak seedlings.	

No.	Issue	Location	Compensating measure	Responsible entity
			 e) seedlings care The care will involve care of the soil around the seedlings, weeding (performance depending on the needs resulting from the assessment of the forest inspectorate). Improvement, repair or replacement of fences. Detailed solutions for the implementation and care of seedlings should be implemented under the supervision of the expert phytosociologist of the Contractor's environmental team. 	
АЗ.	General conditions concerning nature protection	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice).	 Species composition and parameters of the planting stock for the riparian forest habitat 91F0 When planting trees as part of compensation for the 91E0 natural habitat, the following guidelines should be applied to the selection of the species composition and the parameters of planting stock: pedunculate oak - mixing single, 1, 2 or 3-year-old transplant seedlings - 8,000 pcs / ha + 10%. The habitat of the 91F0 riparian forest is reconstructed in accordance with the provisions of the "Forest Development Plan for the Oława Forest District for the years 2014-2023". Planting made by the Contractor is the first stage of planting. The next stages associated with planting other tree species characteristic for this habitat are outside the Contractor's area of activity. 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A4.	General rules concerning nature protection	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długołęka)	a) before starting to perform the conditions defined in this item of FMD a	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
А5.	General conditions concerning nature protection	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długołęka)	 Species composition and parameters of the planting stock used for compensation of tree cutting For the planting of trees as part of the nature compensation for tree cutting, observe the following guidelines for species composition and parameters of the planting stock: Pedunculate Oak – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Little leaf Lime – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Sycamore – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Norway Maple – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Field Maple – two-years-old transplant seedlings, number of seedlings - 616 pcs.; Field Elm – two-years-old transplant seedlings, number of seedlings - 616 pcs.; Black Poplar – four-years-old transplant seedlings, number of seedlings - 617 pcs.; White Polar – four-years-old transplant seedlings, number of seedlings - 617 pcs.; 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A6.	General conditions concerning nature protection	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka) (forest section 48d), 838 (precinct of Grochowa, Municipality of Zawonia) (forest section 194k), 611 (precinct of Ligota Mała, Municipality of Oleśnica) (forest section 179c), 93 (precinct of Cielętniki, Municipality of Zawonia) (forest section 268ix).	 e) the method of soil preparation - on a part of the surface (forest sections: 48d, 194k, 268ix): preparation of soil in the form of deep plowing on the entire surface and leveling the surface with cultivation treatments. On the surface of forest section 179c: soil preparation in the form of places with dimensions of 1x1 m, devoid of vegetation, with a fluffed top layer of soil (digging at a depth of approx. 20 cm). Distance between the centers of the places (spacing) as in point d. Surfaces should be prepared for planting in 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
7.	General conditions concerning nature protection	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka) (forest section 48d), 838 (precinct of Grochowa, Municipality of Zawonia) (forest section 194k), 611 (precinct of Ligota Mała, Municipality of Oleśnica) (forest section 179c), 93 (precinct of Cielętniki, Municipality of Zawonia) (forest section 268ix).	 Midland Hawthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 300 pcs. (forest section 194k); Blackthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 155 pcs. (forest section 194k); Common dogwood – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Common Buckthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Red Elderberry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Red Elderberry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 48d); Wild Rose – a seedling with at least 3 scaffold sprouts formed approx. 10 cm 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A8.	General conditions concerning nature protection	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	 The method of securing seedlings of bushes against animals Fencing made of forest mesh, galvanized: height 200 cm, eye mesh width 15 cm, number of longitudinal wires 25. Concrete posts, reinforced with a height of 270 cm with a minimum cross-section of 8x8 cm. Fence equipped with a 4 m wide entry gate and a gate. The fence mesh should be properly stretched, the distance between neighbouring 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
А9.	General conditions concerning nature protection	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice); 180/24 (precinct of Siedlec, Municipality of Długołęka); 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	 designation, trunk height and standard number according to which seedlings have been produced; b) seedlings of trees and bushes should be properly formed, with maintained exterior typical for the strain and be characterised by the following properties: the top bud of the guide should be clearly formed; the increment of the last year should extend the guide clearly and straight; root system should be dense and correctly developed, a scaffold root should have numerous minor roots; for plants settled with a root mass, root mass should be formed correctly; trees and shrubs' sprouts should not be trimmed; side sprouts of the tree should be evenly spaced; the guide should be straight; scars on the guide should be well overgrown, 4 incompletely overgrown ones are allowed; 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
			 d) the Contractor is required to present a certificate issued by a nursery delivering the plants confirming compliance of the progress of plant production process with the Employer's requirements (transplanting). The Contractor is responsible for meeting the quantity and quality requirements of the plant stock. The Contractor is also required to present samples of nursery stock to the Employer and to agree upon, each time, the selection of materials with the Investor's Supervision Inspector; e) seedlings of trees and bushes shall be protected from damage in transport (damage of root system or root mass and crown). Plants with the root mass must be protected (packaging) or be in containers. Protect plants from drying up and freezing in transport. Trees and bushes shall be planted immediately upon delivery to the place of destination. If this is impossible, they shall be heeled-in in shadowed place protected from wind, and watered in case of dry weather. 	
A10.	General conditions concerning nature protection	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice); 180/24 (precinct of Siedlec, Municipality of Długołęka); 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	Execution of supplementary tree and bush plantings in environmental compensation areas If the survival rate for the tree and bush plantings, mentioned in item no. A1 – A8 of App. No. 3 of EMP, smaller than 85 % is found (identified according to the rule described in item B14 of the monitoring part of App. No. 3 of EMP), it is necessary to execute appropriate supplementary plantings. Before starting to perform the conditions defined in this item of EMP, a <i>Quality</i> <i>Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval.	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A11.	General conditions concerning nature protection	Plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica).	 Compensation conditions of habitats of amphibians For the destruction of one water pond and for partial destruction of two reservoirs being the breeding site of amphibians - restore breeding habitats of amphibians as per the following rules: a) on the inter-embankment area of the Widawa, within limits of plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica), execute 6 water reservoirs according to the design attached to Bidding Documents, formed in a way creating breeding habitats for species of amphibians; b) the total water surface area of the reservoirs shall not be less than 0.6 ha; c) the actions should be agreed in advance with an expert herpetologist of the Contractor's environmental team and performed with his/her participation; d) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	Contractor
A12.	General conditions concerning nature protection	The bed of Młynówka Kiełczowska within the boundaries of the Task implementation area.	 Environmental compensation conditions of breeding sites of Grey Wagtail For the destruction of the habitat of Grey Wagtail Motacilla cinerea - perform the following compensating measures within the bed of Młynówka Kiełczowska: a) install two breeding boxes appropriate for the species; b) the type of boxes and the location of boxes to be installed is to be consulted in advance with an expert chiropterologist of the Contractor's environmental team and performed with his/her participation; c) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; d) before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval. 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A13.	General conditions concerning nature protection	Task implementation area and adjacent forest areas	 Environmental compensation conditions of shelters of bats The following compensating measures shall be carried out for the destruction of shelters of bats: a) install two boxes for bats within the area of the road bridges on Widawa the flow of which is improved under the Task (bridges along Wilczycka Street and Rzeczna Street); b) install 40 boxes for bats in the trees situated within the area of or in vicinity of the Task implementation area; c) the type of boxes and the location of boxes to be installed is to be consulted with an expert chiropterologist of the Contractor's environmental team; d) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; e) works for hanging the boxes are to be performed under supervision of an expert chiropterologist of the Contractor's environmental team; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation. 	Contractor

B) REQUIREMENTS RELATED TO MONITORING OF THE EXECUTION OF ENVIRONMENTAL COMPENSATION

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
В1.	General conditions concerning nature protection	 Restoration of patches of the riparian forest habitat 91F0 On the area of 7.2 ha restore the patches of the natural habitat - Oak, elm, ash riverine forests (<i>Ficario-Ulmetum</i>) - code 91F0, through executing plantings appropriate (typical) for this habitat of tree and bush species. The following rules should be observed when executing the plantings: a) the basic principles of forest cultivation should be maintained within the entire cycle of executing the plantings; b) planting material in accordance with seed regionalisation (coming from the region within which plantings are to be performed) and nature-forest regionalisation should be used for planting; c) planting should be executed between September and October; d) appropriate maintenance procedures, carried out within the Task implementation under the supervision of the expert phytosociologist/Contractor's environmental team, should be made for the planted crops; e) the number of seedlings 8,000 / ha, due to extreme weather events occurring in recent years, it is recommended to increase the planned number of seedlings by 10%; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice).	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		implementation.		Control of participation of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No. Is	ssue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
со	General conditions concerning nature protection	 The list of works necessary to perform as a part of the compensation a) soil preparation The works include making furrows using machines and equipment, for example, a forest milling cutter or a plow – LPZ type, or an equivalent tool. Approximate parameters of furrows: width 60-70 cm deep 6 to 15 cm distances from the center of the furrow: 1.4 - 1.6 m (average 1.5 m). b) fencing planting with a fence mesh Fence mesh with a height of min. 200 cm, number of horizontal wires minimum 22, distance of vertical wires max. 15 cm, up to 0.8 m height of the fence, eye size maximum 5x15 cm. The mesh must be galvanized, the minimum amount of zinc 200 g/m², the thickness of the extreme horizontal wires on the top and bottom minimum of 2.5 mm, the remaining wires minimum of 2.0 mm (tolerance of wire thickness +/- 0.12 mm). Wooden oak posts, debarked with a minimum length of 2.6 m and a diameter of min. 12 cm without bark, meeting the requirements of S2a wood. The posts should be buried at a depth of min. 0.5 m, at intervals of maximum 4m. In the upper part of the fence, the horizontal rod should be nailed. The edge of fence at the ground should be wrap 15-20 cm and fastening by nailing the rod or nailing the pins between the posts. Execution of at least 1 gate for each fencing. c) planting 	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice).	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 d) making corrections The corrections will consist in supplementing the planted seedlings, in places where the seedlings have withered, with oak seedlings. e) seedlings care The care will involve care of the soil around the seedlings, weeding (performance depending on the needs resulting from the assessment of the forest inspectorate). Improvement, repair or replacement of fences. Detailed solutions for the implementation and care of seedlings should be implemented under the supervision of the expert phytosociologist of the Contractor's environmental team. 		Control of participation of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
B3.	General conditions concerning nature protection	 Species composition and parameters of the planting stock for the riparian forest habitat 91F0 When planting trees as part of compensation for the 91E0 natural habitat, the following guidelines should be applied to the selection of the species composition and the parameters of planting stock: pedunculate oak - mixing single, 1, 2 or 3-year-old transplant seedlings - 8,000 pcs / ha + 10%. The habitat of the 91F0 riparian forest is reconstructed in accordance 	(precinct of Kotowice,	Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	lssue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		with the provisions of the "Forest Development Plan for the Oława Forest District for the years 2014-2023". Planting made by the Contractor is the first stage of planting. The next stages associated with planting other tree species characteristic for this habitat are outside the Contractor's area of activity.		Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
В4.	General conditions concerning nature protection	 Conditions of environmental compensation for tree removal For the removal of about 1850 trees, including 50 trees with monumental dimensions or close to monumental dimensions, perform compensation plantings according to the following rules: a) plant 5550 trees of native species: Oak, Lime, Sycamore, Norway Maple, Field Maple, Field Elm, White Willow, Black Poplar, White Poplar; b) execute plantings in the form of lines of trees, alleys or groups of trees; c) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; 	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długołęka)	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 d) before the implementation of the conditions set out in this EMP item, a concept of compensating plantings should be drawn up and agreed with the representative of the Commune of Długołęka; e) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval; f) after the planting, the Contractor shall protect the plantings against destruction by the animals after consultation with the expert phytosociologist of the Contractor's environmental team, the best way to secure them; g) during the implementation of the works and during the Defect Notification Period, the Contractor shall carry out planting care and make appropriate adjustments or additions in case of falling out of seedlings; h) detailed solutions for the implementation and care of plantings should be implemented under the supervision of the expert phytosociologist of the Contractor's environmental team 		Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
B5.	General conditions concerning nature protection	 Species composition and parameters of the planting stock used for compensation of tree cutting For the planting of trees as part of the nature compensation for tree cutting, observe the following guidelines for species composition and parameters of the planting stock: Pedunculate Oak – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Little leaf Lime – two-years-old transplant seedlings, number of seedlings - 617 pcs.; 	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długołęka)	documentation. Current	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 Sycamore – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Norway Maple – two-years-old transplant seedlings, number of seedlings - 617 pcs.; Field Maple – two-years-old transplant seedlings, number of seedlings - 616 pcs.; Field Elm – two-years-old transplant seedlings, number of seedlings - 616 pcs.; White Willow – four-years-old transplant seedlings or older, number of seedlings - 616 pcs.; Black Poplar – four-years-old transplant seedlings or older, number of seedlings - 617 pcs.; White Polar – four-years-old transplant seedlings or older, number of seedlings - 617 pcs.; 		Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
В6.	General conditions concerning nature protection	 Conditions of environmental compensation for bush removal For the removal of bushes on the area of about 0.95 ha - execute compensation plantings of native species of bushes on the area of 2.85 ha, according to the following rules: a) use the following species of bushes for plantings: Common Spindle, Guelder Rose, Midland Hawthorn, Blackthorn, Common dogwood, Common Buckthorn, Red Elderberry, Wild Rose, Common Juniper, Common Barberry, European fly honeysuckle; b) execute plantings in the form of lines or groups of bushes, e.g. in the ecotone zone of compact complexes of forests; 	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka) (forest section 48d), 838 (precinct of Grochowa, Municipality of Zawonia) (forest section 194k), 611 (precinct of Ligota Mała, Municipality of	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team.

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 c) plantings should be executed in the spring under the supervision of the expert phytosociologist of the Contractor's environmental team; d) for execution of plantings, planting framing shall be used for bushes with the dimension of 3x3 m; e) the method of soil preparation - on a part of the surface (forest sections: 48d, 194k, 268ix): preparation of soil in the form of deep plowing on the entire surface and leveling the surface with cultivation treatments. On the surface of forest section 179c: soil preparation in the form of places with dimensions of 1x1 m, devoid of vegetation, with a fluffed top layer of soil (digging at a depth of approx. 20 cm). Distance between the centers of the places (spacing) as in point d. Surfaces should be prepared for planting in autumn, in the year preceding planting; f) planting must be carried out in a way that does not damage the roots of the seedlings; g) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	section 179c), 93 (precinct of Cielętniki, Municipality of Zawonia) (forest	Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
Β7.	General conditions concerning nature protection	 Species composition and parameters of the planting stock used for compensation of bush cutting For the planting of bushes as part of the nature compensation for bush cutting, observe the following guidelines for species composition and parameters of the planting stock: Common Spindle – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 289 pcs. (forest section 179c); Guelder Rose – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); 	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka) (forest section 48d), 838 (precinct of Grochowa, Municipality of Zawonia) (forest section 194k), 611 (precinct of Ligota Mała, Municipality of	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team.

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 Midland Hawthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 300 pcs. (forest section 194k); Blackthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 155 pcs. (forest section 194k); Common dogwood – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Common Buckthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Common Buckthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 179c); Red Elderberry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 48d); Wild Rose – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 333 pcs. (forest section 268ix); Common Juniper – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 389 pcs. (forest section 194k); Common Barberry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 48d); European fly honeysuckle – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 278 pcs. (forest section 194k); Note: minimum 3-year-old seedlings with a covered root system, healthy, vital and properly shaped. 	Oleśnica) (forest section 179c), 93 (precinct of Cielętniki, Municipality of Zawonia) (forest section 268ix).	Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	lssue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
в8.	General conditions concerning nature protection	The method of securing seedlings of bushes against animals Fencing made of forest mesh, galvanized: height 200 cm, eye mesh width 15 cm, number of longitudinal wires 25. Concrete posts, reinforced with a height of 270 cm with a minimum cross-section of 8x8 cm. Fence equipped with a 4 m wide entry gate and a gate. The fence mesh should be properly stretched, the distance between neighbouring fence posts - about 3m (± 0.20 m). A distance of approx. 3 m must be kept between the seedlings and the fence mesh.	Plots nos.: 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer. Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a month. During the Task implementation period, on a regular basis, at least once a month.	Contractor's team. Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
В9.	General conditions concerning nature protection	 Guidelines for execution of tree and bush plantings The tree and bush plantings, mentioned in item A1-A8 of App. no. 3 to EMP, shall be planted subject to the following rules: a) the delivered seedlings of trees and bushes should be in accordance with the current standards relating to the quality of nursery stock, shall have labels on which the following is given: Latin and Polish species name, form designation, trunk height and standard number according to which seedlings have been produced; b) seedlings of trees and bushes should be properly formed, with maintained exterior typical for the strain and be characterised by the following properties: the top bud of the guide should be clearly formed; the increment of the last year should extend the guide clearly and straight; root system should be dense and correctly developed, a scaffold root should have numerous minor roots; for plants settled with a root mass, root mass should be formed correctly; trees and shrubs' sprouts should not be trimmed; side sprouts of the tree should be well overgrown, 4 incompletely overgrown ones are allowed; c) inadmissible defects of tree and bush seedlings: strong mechanical plant damage; traces of pest feeding; signs of diseases; fading and ruffling of the cortex of roots or overground parts; cortex necrosis and cracking; 	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice); 180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		 the top bud of the guide damaged; damaging or drying up of the root mass. d) the Contractor is required to present a certificate issued by a nursery delivering the plants confirming compliance of the progress of plant production process with the Employer's requirements (transplanting). The Contractor is responsible for meeting the quantity and quality requirements of the plant stock. The Contractor is also required to present samples of nursery stock to the Employer and to agree upon, each time, the selection of materials with the Investor's Supervision Inspector; e) seedlings of trees and bushes shall be protected from damage in transport (damage of root system or root mass and crown). Plants with the root mass must be protected (packaging) or be in containers. Protect plants from drying up and freezing in transport. Trees and bushes shall be planted immediately upon delivery to the place of destination. If this is impossible, they shall be heeled-in in shadowed place protected from wind, and watered in case of dry weather. 		Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings. Quality control of nursery stock.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No. Issue		Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
	ing nature	Execution of supplementary tree and bush plantings in environmental compensation areas If the survival rate for the tree and bush plantings, mentioned in item no. A1 – A8 of App. No. 3 of EMP, smaller than 85 % is found (identified according to the rule described in item B14 of the monitoring part of App. No. 3 of EMP), it is necessary to execute appropriate supplementary plantings. Before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval.	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice); 180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
				Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings. Quality control of nursery stock.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
B11.	General conditions concerning nature protection	 Compensation conditions of habitats of amphibians For the destruction of one water pond and for partial destruction of two reservoirs being the breeding site of amphibians - restore breeding habitats of amphibians as per the following rules: a) on the inter-embankment area of the Widawa, within limits of plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica), execute 6 water reservoirs according to the design attached to Bidding Documents, formed in a way creating breeding habitats for species of amphibians; b) the total water surface area of the reservoirs shall not be less than 0.6 ha; c) the actions should be agreed in advance with an expert herpetologist of the Contractor's environmental team and 		Verification of documentation for nature compensation of habitats of amphibians and correct fulfilment of measures by the required experts . Visual monitoring, photo documentation.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		performed with his/her participation; d) before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval.		Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of nature compensation of habitats of amphibians. Control of arrangements of the required expert.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
B12.	General conditions concerning nature protection	Wagtail For the destruction of the habitat of Grey Wagtail Motacilla cinerea - perform the following compensating measures within the bed of Młynówka Kiełczowska:	The bed of Młynówka Kiełczowska within the boundaries of the Task implementation area.	Verification of documentation for nature compensation of breeding sites of habitats of Grey Wagtail and control of correct performance of works by the required experts. Visual monitoring, photo documentation.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
		 their locations with GPS coordinates; d) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 		Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of nature compensation conditions of breeding sites of Grey Wagtail. Control of participation and arrangements of the required expert.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B13.	General conditions concerning nature protection	nature	Task implementation area and adjacent forest areas	Verification of documentation for nature compensation of shelters of bats and control of correct performance of works by the required experts. Visual monitoring, photo documentation.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
		 d) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; e) works for hanging the boxes are to be performed under supervision of an expert chiropterologist of the Contractor's environmental team; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation. 		Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer for environmental compensation of shelters of bats. Control of participation and of arrangements of the required expert.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No. Issue		Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
	conditions ing nature on	Survival rate assessment of compensation plantings Perform a survival rate assessment after 9 months from executing the plantings described in item A1-A8 of Appendix no. of EMP.	Plots nos.: 632, 623 (precinct of Kotowice, Municipality of Siechnice); 180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2 (precinct of Borowa, Municipality of Długołęka), 838 (precinct of Grochowa, Municipality of Zawonia), 611 (precinct of Ligota Mała, Municipality of Oleśnica), 93 (precinct of Cielętniki, Municipality of Zawonia).	Monitoring will consist of assessing the condition of plantings made, of identifying the need and scope of any remedial measures and of performing such measures (if considered necessary). Monitoring shall be carried out on all the areas where plantings were made. Monitoring should be carried out by an expert phytosociologist.	Once per a vegetation season after 9 months from executing the plantings. In case any supplementary plantings are necessary, on a regular basis (at least once a week) with reporting once a month.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
				Control of presence of the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP condition. Verification of documentation handed over from the Contractor to the Engineer.	Once per a vegetation season after 9 months from executing the plantings. In case any supplementary plantings are necessary, on a regular basis (at least once a week) with reporting once a month.	