Appendix 2 – Monitoring Plan

This Appendix to the Environmental Management Plan for the Odra-Vistula Flood Management Project – **Contract 1B.2/1 – Modernization works on boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1**, presents monitoring measures. The costs and implementation schedule of the measures should be included in the Proposal. The Contractor covers all costs of implementing this EMP, which shall be included in the Accepted Contract Amount.

Explanations regarding the table in Appendix 2 to the EMP:

- 1) The measures listed in items 1-151 of Appendix 2 to the EMP concern monitoring of the implementation of the mitigating measures listed in items 1-151 of Appendix 1 to the EMP (which are quoted literally in column "Object of monitoring").
- 2) Unless specified otherwise, the term **Task Site** means the site of any preparatory or main works (including Permanent Works and Temporary Works) as well as any works involving the removal of faults or defects or the performance of any uncompleted works listed in the Handover Certificate or revealed in the Defects Notification Period, including any sites of required temporary acquisition.
- 3) Unless specified otherwise, the term **Task Period** means the period of any preparatory or main works (including Permanent Works and Temporary Works) as well as any works involving the removal of faults or defects or the performance of any uncompleted works listed in the Handover Certificate or revealed in the Defects Notification Period.
- 4) Unless specified otherwise, the term **Contractor's Team** in column *Entity responsible* refers personally to the EMP Coordinator in the team of the Contractor (as referred to in item 139 of Appendix 1 to the EMP), who closely collaborates with the Site Manager and other members of the Contractor's team (including Contractor's environmental supervision team).
- 5) Unless specified otherwise, the term **Engineer's Team** in column *Entity responsible* means the Environmental Management Experts in the team of Contract Engineer, who collaborate with appropriate Supervision Inspectors and other members of the Engineer's team.
- 6) Where this document refers to *visual monitoring*, this also covers (1) the preparation of photographic documentation if it is required to document the occurrence of any event or the implementation of any action; (2) a site inspection carried out by the Engineer.
- 7) Where required, the Monitoring Plan shall be implemented with due regard to the World Bank Policy reflected in the Operating Manual for the Odra-Vistula Flood Management Project and with due regard to the Land Acquisition and Resettlement Action Plan, and in collaboration with the team implementing the Plan and the World Bank's Operational Policy OP 4.12.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
01 F	RULES OF LAN	D ACQUISITION				
1.	Protection of earth surface	Limitation of land acquisition and earth surface transformation	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	and landscape	Land acquisition and earth surface transformation should be minimised during any works carried out as part of the Task.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
2.	Protection of earth surface and landscape	Locations excluded from works carried out from the land The Contractor shall not carry out works from the land at the following sections: • km 581.0 – 583.2 (nature reserve and overflow areas):	Task Site	Contractor's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by environmental supervisors.	In the Task period: on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.
		When determining whether works may be carried out from the land, it is necessary to include the requirement in item 103 of Appendix 1 to the EMP.				
3.	Protection of earth surface and landscape	Sites where it is forbidden to locate materials storage areas The Contractor shall not locate materials storage	Task Site	Contractor's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by environmental supervisors.	In the Task period: on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources	areas: • at the kilometres indicated in item 2, • within the natural habitats near section 1: 3150 approx. km 581.0; 583.7; 6430 – approx. km 581.0; 582.1; 583.2; 584.5; 584.8; 91F0 approx. km 581.0 – 582.6; 585.4 – 585.7; 6510 approx. km 582.7 – 583.7. • km 616.4 (sites of the red-backed shrike Lanius collurio);		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		 km 616.9 - 617.3, near Osinów Dolny (mouse garlic site in the area of alluvial meadows); km 616.5 (the site of the spear-leaved skullcap in the meadows west of Kostrzyn); km 608.6 - 609.4, near Kostrzyn (mouse garlic site in the area of alluvial meadows); km 608 - 613 and km 615.3 - 615.6 - bird and herpetofauna habitats (where the levee-to-Odra bank distance exceeds 100 m); within the natural habitats near sections 2 i 3: 6430 - approx. km 602.5; 603.3; 606.3 - 606.5; 606.9; 6440 - approx. km 608.6 - 609.5; 615.7 - 615.8; 616.9 - 617.3; within damp depressions where communities indicative for natural habitat 3270 could grow in summer, as it is necessary to restore the river bank to its properties allowing the formation of that habitat. 				
4.	Protection of earth surface and landscape		Task Site	Contractor's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by environmental supervisors.	In the Task period: on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.
5.		b) Materials storage areas will be located once the Project Engineer has approved the	Task Site	Contractor's Team	Visual monitoring. Verifying the location against the approved document.	In the Task period: on an ongoing basis, at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	Protection of earth surface and landscape General rules for the preservation of animated natural resources	Method Statement and the Site Arrangement Plan,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts. Approving the document.	In the Task period: on an ongoing basis, at least once a month.
6.	Protection of earth surface and landscape General rules for the preservation of animated natural resources	c) In the event of adverse weather conditions or dynamically changing water level, it is possible to arrange materials storage areas in a different location, having first checked it through Contractor's environmental supervision team no later than 3 days before storing the materials; the team must confirm that the location does not include any valuable environmental compartment. The Contractor must submit the location of such areas in advance to the Engineer for approval.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by Contractor's environmental supervisors. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	On each occurrence of the event. On each occurrence of the event.
7.	Protection of earth surface and landscape General rules for the	Requirements regarding the location of onshore back-up facilities The Contractor shall arrange the site back-up facilities using watercraft.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by environmental supervisors. Visual monitoring.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing
	preservation of animated natural resources	Where onshore back-up facilities must be used, when selecting the location the Contractor shall be guided by requirements identical to those regarding materials storage areas (storage yards) (see items 3 to 6 of Appendix 1 to the EMP).			Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
8.	Protection of earth surface and landscape	Requirements concerning the location of haul roads Any access or haul roads must be set out based on the existing road network. If there are no existing roads,	Task Site	Contractor's Team	Visual monitoring. Verifying documents submitted by environmental supervisors.	In the Task period: on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources	the new roads must be set out outside environmentally sensitive areas, i.e. outside forest areas and habitat sites. Such locations should be selected in collaboration with Contractor's environmental supervision team. The areas of access roads should be limited to a necessary minimum. Requirements for traffic management at the task site are given particularly in items 56–67 of Appendix 1 to the EMP.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
9.	Protection of earth surface and landscape General rules	The locations selected for storage yards should be conveniently accessible by road in order to allow the delivery of light materials (e.g. fascine) by land transport and the access for workers and fire brigade in case of fire.	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	for the preservation of animated natural resources			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
10.	Protection of earth surface and landscape	Additional requirements for the location of access roads In the event of using the dirt road running along the embankment next to the overflow area south of	Task Site including access roads	Contractor's Team	Visual monitoring. Verifying the participation of required experts. Verifying documents submitted by environmental supervisors.	In the Task period: on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources	Słubice, the road may only be used by lightweight equipment, under the supervision of Contractor's environmental supervision team, and outside the breeding season (i.e. it is allowed from mid-October to the beginning of March).		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
02 –	REQUIREME	NTS FOR SECURING PROTECTED NATURAL	RESOURCES			
11.	General rules for the preservation of animated natural resources	Activities by Contractor's environmental supervision team Contractor's environmental supervision team shall monitor the Task Site on an ongoing basis, including any storage areas for construction materials, parking areas for machinery, and the method of implementing the Task. It is required to introduce the monitoring of hydro-biological and hydro-	Task Site	Contractor's Team	Visual monitoring Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
		morphological components during any works that interfere in water environment and bank area, as well as ornithological, chiropterological and herpetological supervision. Contractor's environmental supervision team shall cover, without limitation: a) prior to the construction works, the environmental supervisors shall verify the site for the presence of any habitats of protected animal species, the ornithological supervisors shall verify the work site, including for the presence of bird nests, and the herpetological supervisors shall check the site to identify any habitats of amphibians. The hydro-biological and hydro-morphological supervisors shall define the range of presence of aquatic organisms (patches of plants, including the fringed water lily and unionids), and the plants and bivalves shall be relocated according to their instructions. Where it is required to obtain a derogation from a prohibition applicable to a certain species, before staring their activities the		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
			environmental supervisors shall obtain				
			such derogation on behalf of the Investor;				
		b)	prior to the construction works, the				
			environmental supervisors shall inspect the				
			work sites with the participation of a phytosociologist/botanist in order to				
			identify the sites and population of invasive				
			plants. Specific requirements for handling				
			invasive species are presented in items 109				
			to 113 of Appendix 1 to the EMP;				
		c)	direct supervision over the preparatory				
		, c,	works before construction: clearing of any				
			colliding trees and bushes, mowing the site				
			at the planned work areas (reed stands,				
			vegetated covers on groynes);				
		d)	indicating any additional measures to				
			mitigate the impact of earthworks on				
			animals, particularly on invertebrates;				
		e)	training for the works Contractor on the				
			rules and conditions for implementing the				
			Environmental Management Plan. In				
			addition, the Contractor's employees who				
			handle fuels, other oil derivatives or any				
			other substance harmful to health and				
			environment shall be trained in the rules of				
			preserving groundwater environment and				
			using measures for its preservation,				
			including the use of sorbents;				
		f)	prior to the works, given the dynamic				
			changes in water level and, consequently,				
			variations in land occupation by plants and				
			animals – consultation and approval of the				
			selected locations of access roads and				
			storage areas for construction materials;				

Ite	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		g)	day-to-day instructions for the methods of				
			work including the need to preserve natural				
			assets and protected plant and animal				
			species, with a particular focus on				
			amphibians, reptiles, birds, bats and fish, in				
			such a way to minimise the impact of works				
			on the species and natural habitats for				
			which the Natura 2000 areas and national				
			forms of nature conservation have been				
			established;				
		h)	where necessary, formulating				
			recommendations for taking measures				
			required to mitigate the effects of the Task				
			on the natural habitats, species and their				
			sites being of Community interest and				
			protected by law, which could not have				
			been foreseen when setting the				
			requirements included in the permit;				
		i)	formulating instructions regarding				
			protection during the works;				
		j)	formulating recommendations to take				
			measures aimed at preventing the spread				
			of invasive species;				
		k)	preparing reports for environmental				
			protection authorities as required by the				
			administrative decisions issued for the				
			Task;				
		I)	conducting works regarding				
			environmental supervision according to				
			requirement B.I.1. of the environmental				
			permit set out in Appendix 4a to the EMP.				

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
12.	General rules for the preservation of animated natural resources	Implementing the environmental monitoring plan at the execution stage Contractor's environmental supervision team shall carry out a programme for monitoring the preservation status of natural habitats and the population and distribution of protected species, as well as the degree of using the created/founded breeding isles (mitigating measure stated in item 49 of Appendix 1 to the EMP) at the execution stage, which programme must be agreed with the Regional Director for Environmental Protection in Szczecin according to the environmental permit (see Appendix 4a to the EMP and the monitoring measure in item 156 of Appendix 2 to the EMP).	Task Site	Contractor's Team Engineer's Team	Visual monitoring Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
13.	General rules for the preservation of animated natural resources	Obtaining necessary derogations from the bans applicable to protected species a) The Contractor (if necessary) shall, adequately to the results of environmental survey conducted by Contractor's environmental supervision team prior to the works and according to ongoing environmental supervision, obtain any required permits for derogations from the bans applicable to the protected species of plants, fungi and animals, issued under the Nature Conservation Act of 16 April 2004.	Task Site	Contractor's Team Engineer's Team	Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
14.	General rules for the preservation of animated	b) upon obtaining relevant permits,* the Contractor shall carry out the actions specified in the administrative decisions and prepare related reports prescribed	Task Site	Contractor's Team	Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation	In the Task period: on an ongoing basis, at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	natural resources	therein. The reports shall be delivered to the Engineer no later than 30 days before the date when they must be submitted to the authority issuing the permit. The measures listed in (a) and (b) shall be participated by Contractor's environmental supervision team. * This also applies to decisions allowing for derogations from bans concerning the protected species of plants and animals or wild game, issued for the Task before implementing the Contract (see Appendix 4b,4c,4d to the EMP).		Engineer's Team	report, supported by site inspection reports and reports by Contractor's environmental supervision team. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts.	In the Task period: on an ongoing basis, at least once a month.
15.	General rules for the preservation of animated natural resources	Relocation of protected species outside the work site and areas acquired temporarily Where it is required to relocate any protected species outside the Task site or areas acquired temporarily, the Contractor shall: a) plan such measures and obtain relevant permits,	Task Site	Contractor's Team Engineer's Team	Verifying the participation of required experts. Visual monitoring. Verifying the participation of required experts. Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period: on an ongoing basis, at least once a week. In the Task period, on an ongoing basis, at least once a month.
16.		b) effectively carry out the measures and implement any other measures specified in the permits (e.g. prepare reports on implementing the permits). The measures listed in (a) and (b) shall be participated by Contractor's environmental supervision team.	Task Site	Contractor's Team Engineer's Team	Verifying the participation of required experts. Visual monitoring. Verifying the participation of required experts. Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period: on an ongoing basis, at least once a week. In the Task period, on an ongoing basis, at least once a month.
17.	General rules for the preservation of animated	Adopting an appropriate work schedule The Contractor shall ensure such a work schedule to adjust the periods and locations of each work stage to	Task Site	Contractor's Team	Verification of work schedules. Ongoing control over the implementation of EMP requirements.	In the Task period (including prior to and during the works): on an ongoing basis, at least once a week.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	natural resources	the requirements stated in the environmental permit and the EMP, and to limit as far as possible any adverse impact on the protected species existing at or around the Task Site. The Contractor shall keep the schedule up to date in terms of the periods of work according to the results of day-to-day monitoring conducted by Contractor's environmental supervision team. Requirements for the periods of work are also stated, without limitation, in items 25, 32, 34, 36, 37, 38, 39, 40, 42, 43, 48, 74, 86 and 101 of Appendix 1 to the EMP.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing monitoring for the implementation of each EMP requirement.	In the Task period (including prior to and during the works): on an ongoing basis, at least once a month
18.	General rules for the preservation of animated natural	Use of substances and materials hazardous to fauna The Contractor shall not conduct the works using any substance or material that could be lethal to the animal species existing at or around the Task site.	Task Site	Contractor's Team	Visual monitoring. Verification of materials documentation.	In the Task period: on an ongoing basis, at least once a week.
	resources	diminal species existing at or dround the rusikstee.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
19.	General rules for the preservation of animated natural resources	Inclusion of the conditions related to the presence of protected areas During construction works, the Contractor shall comply with any norms, prohibitions or indications, and respect any restrictions related to the presence of areas and objects established under the Nature Conservation Act of 16 April 2004.	Task Site	Contractor's Team	Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
		Conservation Act of 16 April 2004.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
20.	General rules for the preservation of animated natural resources – protection of	Measures to protect natural habitat 3270 – Rivers with muddy banks with Chenopodion rubri p.p. and All. Bidention tripartite and the characteristic species: strapwort (Corrigiola litoralis L.) a) to strengthen the population of the strapwort, the Contractor shall protect any stands of that plant against accidental destruction, and acquire seeds to preserve the species under conservatory cultivation for the duration of works (according to Appendix 7c to the EMP),		Contractor's Team	Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	natural habitat 3270			Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
21.	General rules for the preservation of animated	materials storage areas in damp depressions where the communities indicative for that habitat could grow in summer,		Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a week.
	natural resources – protection of natural habitat 3270			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
22.	General rules for the preservation of animated	c) when implementing the Task, the Contractor shall not interfere in any fascine situated in the inter-groyne spaces, except any locations which directly collide with the designed facilities (e.g. wingwalls),	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a week.
	natural resources – protection of natural habitat 3270			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
23.	General rules for the preservation	d) the Contractor shall work on the construction of wingwalls from the furthest point of the wingwall towards the groyne to	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.	
	of animated natural resources – protection of natural habitat 3270		allow the circulation of construction equipment along the shoreline which will be finally taken by the wingwall structure.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
	Protection of earth surface and landscape						
24.	General rules for the preservation of animated	e)	groynes, the Contractor shall not carry out turfing or seeding and shall give preference to openwork solutions (rip-raps), which are	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	natural resources – protection of natural habitat 3270		easily covered by sludge and vegetation;		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
25.	General rules for the preservation of animated	f)	f) the works on the reconstruction of groynes, the construction of approach wall and dam, and bank reinforcement, carried out in areas where Contractor's environmental supervision team discovered natural habitat 3270 and the strapwort, must be conducted outside the habitat shaping season, i.e. from October to the end of February.		Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	natural resources – protection of natural habitat 3270				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		The measures listed in (a) to (f) shall be participated by Contractor's environmental supervision team.				
26.	General rules for the preservation of animated natural resources: biological and hydro- morphological	Measures aimed to differentiate the habitats existing in the bank zone in order to accelerate natural occupation of the river sections under works by the characteristic groups of aquatic organisms 1. The Contractor must introduce habitat-generating elements, i.e. oversized boulders: a) on the riverbed in the inter-groyne areas (sets of 4 to 5 boulders, 0.8 to 1.5 m wide and 1.2 to 1.5 m high, on the downstream side of the new or modernised groyne), in those inter-groyne areas whose depth exceeds 1.5 m below the medium-low water (MLW) level, at the deepest point, in such a way that they do not slide down, b) on the riverbed in the spaces behind the longitudinal dam, a set of 4 to 5 boulders, 0.8 to 1.5 m wide and 1.2 to 1.5 m high, at approx. 50 m intervals.	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	elements of water habitat and protected species			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
		 In total, around 33 boulder sets will be installed. Total minimum quantity of rocks planned is 132 pieces. – at km 581.0–585.7 In total, around 8 rock sets will be installed. Total minimum quantity of rocks planned is 32 pieces. – at km 604.0–605.0 In total, around 18 boulder sets will be installed behind the longitudinal dam, and 3 boulder sets at groynes 16/615, 18/615 and 20/615. Total minimum quantity of boulders planned is 128 pcs. and 12 pcs., respectively – at km 613.1–614.7 				

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		The approximate locations of the planned rock sets are shown on the location plans (Appendix 7a to the EMP). The measure shall be participated by Contractor's environmental supervision team, who will be consulted on the precise location and quantity of the boulders as assumed in points 1a and 1b.				
27.	General rules for the preservation of animated natural resources: biological and hydro- morphological	Within the inter-groyne areas, the Contractor shall leave any oversized rocks and thick tree waste in areas which do not collide with the planned facilities. The measure shall be participated by the experts from Contractor's environmental supervision team.	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	elements of water habitat and protected species			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
28.	General rules for the preservation of animated natural resources: biological and hydro-	3. During works on groyne reconstruction conducted outside the immediate work area, the Contractor shall preserve any structures that differentiate natural habitats and species habitats which exist within the river channel, such as stones from any washed away groynes, tree trunks, outwashes and the like.	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	morphological elements of water habitat and protected species	The measure shall be participated by the experts from Contractor's environmental supervision team.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
29.	General rules for the preservation of animated natural resources: biological and hydro- morphological elements of	4. In the groyne slope and foot structure, on the stream side of each modernised groyne, the Contractor shall restore the rapids using loose stones of various granulations (5–45 cm) to complement the stone structure of each modernised groyne. The measure shall be implemented according to the instructions of Contractor's environmental supervision team.	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing
	water habitat and protected species			Engineer's realif	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	basis, at least once a month.
30.	General rules for the preservation of animated natural resources: biological and hydro- morphological	5. In the following locations: No. 1 at km 582.4 and No. 2 at km 585.7, the Contractor shall create 2 replacement habitats in the form of oxbows made as bays cutting into shore, having an irregular oval shape and effectively linked to the main corridor (channel/weir) supplying water to each bay. a) Bay 1 at km 582.4	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	elements of water habitat and protected species	Basic technical and operational parameters of bay no. 1: - bay location: km 582.4 of Odra river - bay area: ~1031 m² - bay length: ~62 m - bay width: ~21 m		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
31.	General rules for the preservation of animated natural resources: biological and hydro- morphological elements of water habitat and protected species	- bottom elevation:	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
	hydro- morphological elements of water habitat and protected	- bottom elevation: +16.35m Kr - inclination of bay slopes: max. 1:2 - bay slope revetment: revetment made from the elevation as in the figure: stakes Ø10 cm L=1.5m 3pcs/1lm with fascine 3 x Ø25 cm, geogrid h=100mm		Engineer's Team	reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval	

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		- channel width in the bottom: ~6 m - elevation of the bottom in the overflow axis: +17.25 m Kr - inclination of channel slopes: max. 1:3 Geotextile with the following parameters				
		should be used under the geogrid: - permeability (with 20 kPa load) min. 1 l/s - surface density min. 600 g/m² - tensile strength min. 27.0 kN/m - CBR test min. 4.5 kN				
		Measure stated in items 5 (a) and (b) shall be participated by Contractor's environmental supervision team.				
		The location of the planned bays listed in items 5 (a) and (b) is shown on the site plans (Appendix 7b to the EMP).				
32.	General rules for the preservation of animated natural resources – protection of the fringed water lily	6. Before starting the works, the Contractor shall relocate any patches of immersed plants with floating leaves (having an area of over 10 m²) and fragments of patches (up to a half of their area) of rush plants covering the bed of Odra (in particular nymphaeids, including all identified endangered stands of the fringed water lily), from the work area to a possibly close location with similar site conditions (with a particular focus on the areas at	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	(Nymphoides pellata)	the groyne root and inter-groyne spaces between the modernised groynes and sections cut off by a dam). The Contractor shall relocate the plants with a method that enables relocation along with		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		the accompanying invertebrates and	the		Verifying the participation and approval	
		collection of unionids (see Appendix 7d to			by required experts.	
		EMP and items 34-35 of Appendix 1	7			
		transporting them in adequately moist condi				
		The Contractor shall carry out the replanti	ng in			
		compliance with the following rules:				
		a) the works shall be performed d				
		possibly low water levels, which will al	low a			
		quick process;				
		b) when plants are put into their ecosy				
		foundation, water depth should not ex				
		0.7 m, as the works must be carried with precision;	out			
		c) any new position shall be located in	n the			
		downstream part of the river current,				
		the fringed water lily is very sensiti				
		water stream;				
		d) the position should not be located in	n the			
		immediate zone of rush plants, since o	ne of			
		the reasons for the extinction of pre	vious			
		patches of fringed water lily was th	at its			
		phytocoenosis had been eliminate	d by			
		expansive rush communities, which ca	used			
		the extinction of open and quickly he	ating			
		water surfaces; additionally, the po-	sition			
		must be located in a place covered by	rush			
		and protecting against strong wind	that			
		causes water waves;				
		e) the river bed at that position must be s				
		with minimum share of gravel fraction				
		a small layer of organic deposits, in ord	ler to			
		allow the plant to take roots;				
		f) the works shall be carried out i				
		optimum period, i.e. at the turn of Jun				
		July, which will provide an adequately	long			

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		period for the relocated plants to grow in new conditions, taking into account the ecological conditions in each year. The measures specified in point 6 (a) to (f) shall be participated by Contractor's environmental supervision team, which must in particular conduct a survey of the positions of fringed water lily, develop a meta-plantation scheme in the form of a Quality Assurance Plan that must be approved by the Engineer, make appropriate arrangements with environmental protection services, and carry out direct environmental supervision over the works.				
33.	General rules for the preservation of animated natural resources – protection of	7. Works on the groynes neighbouring the sites of the fringed water lily may only be carried out after the growing season, on October and November.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Visual monitoring. Verifying documents delivered by the	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
	the fringed water lily (Nymphoides pellata)				Contractor to the Engineer.	
34.	General rules for the preservation of animated natural resources – protection of water mollucs	8. Before the works, the Contractor shall relocate any bivalves from the <i>Unionidae</i> family from the site to safe locations situated upstream of the current work site, in order to preserve the protected species of that group (such as the swan mussel <i>Anodonta cygnea</i> or depressed river mussel <i>Pseudanodonta complanata</i>), in the following manner:	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite Issu	e	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
and		a) no later than one week prior to the commencement of works that imply the taking of riverbed for the modernisation of groynes and their wingwalls, the construction of bank, lead-in pier or longitudinal dam revetment, it is required to collect any unionids from the riverbed by wading (walking with waders put on) using manual net dippers with 5 mm mesh, through shallow waters along the groyne (sandy and silty areas, among loose plants or stones coming from damaged rip-rap), and in areas being more than 0.7 m deep, by repetitive drawing of a dredger along the groyne sides down to 3–5 m from the edge of the existing rip-rap at the groyne side (deeper areas with sandy or silty bed and in small clumps of immersed plants); the dredger will be handled from a boat and have a 5 mm mesh, inlet dimensions of approx. 100 x 30 cm and a net length of approx. 80 cm; b) the bivalves shall be placed in water tanks and immediately moved to safe locations situated upstream of the current place of work (depth: approx. 1 m, free current or stagnant water, sandy or silty riverbed, preferably close to plants) and released into water,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
35.	General rules for the preservation of animated natural resources – protection of water mollucs and ichtiofauna	c) when relocating the plant patches (see items 32-33 of Appendix 1 to the EMP), any unionids noticed in the spoil shall also be collected and relocated to the target area together with the mass of replanted vegetation (transport in containers with plants and water, transport time not longer than 12–24 hours). The measures listed in point 8 (a) to (c) shall be participated by Contractor's environmental supervision team.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
					Contractor to the Engineer. Verifying the participation and approval by required experts.	
36.	General rules for the preservation of animated natural resources – protection of ichtiofauna	a) The earthworks conducted in the river channel on the modernisation and construction of groynes must be carried out from July 16 th to the end of February, which takes into account the periods of spawning, growth and hatching of fish such as the spined loach <i>Cobitis taenia</i> , European bitterling <i>Rhodeus amarus</i> , white-finned	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
		gudgeon Romanogobio bellingi, asp Aspius aspius, Sabanajewia aurata, common barbel Barbus barbus, stone loach Barbatula barbatula, and the spring migration of the Atlantic sturgeon Acipenser oxyrinchus and river lamprey Lamptera fluviatilis,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring	
37.	General rules for the preservation of animated natural resources – protection of ichtiofauna	b)	during the works involving the demolition of groynes and the placement of new structures in the riverbed, performed between October and December, i.e. during the migration of bi-environmental salmonids and the river lamprey, the Contractor shall use curtains restricting the work site to approx. 10 m around the facilities under works,	Task Site		Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
		racinites under works,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.		
38.	General rules for the preservation of animated natural resources – protection of	c)	any construction works carried out from October to December, which interfere in the river bed (such as the demolition of damaged groynes or the placement of new structures in the bed), shall be conducted by the Contractor according to the following rules, based on the results of	Task Site	Contractor's Team	Visual monitoring. Check for measuring the concentration of suspended matter and dissolved oxygen in the water of Odra. Checking documents delivered by the Contractor to the Engineer.	In the Task period (during the works), on an ongoing basis, at least once a day.	
	ichtiofauna		monitoring of suspended matter concentration and water oxygenation (see item 152 of Appendix 2 to the EMP): - the monitoring of suspended matter concentration must be conducted on a daily basis by taking measurement after work that lasted for at least 2 hours (at a normal rate). Measurements of dissolved oxygen concentration will be carried out in parallel with the measurement of suspended matter concentration. The oxygenation shall be measured in the centre of water column, approx. 1.0 m under water table, - if the measured suspended matter concentration exceeds 200 mg/l or the		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a week.	

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		dissolved oxygen concentration is < 5 mg/l of O ₂ (at monitoring points located approx. 200 m downstream of the work area), the works shall be suspended for 2 hours, and then the measurement must be repeated. The works shall be resumed if the values indicated in such repeated measurement drop below 200 mg/l, - if the concentrations are >400 mg/l for suspended matter or <5 mg/l for O ₂ , the works must be suspended for min. 2 hours, and in case of <3 mg/l of O ₂ the works must be immediately stopped for at least 24 hours until the concentration drops below 200 mg/l, which must be confirmed by an additional measurement; - marks shall be made at monitoring points located approx. 200 m downstream of the work area. Resumption of works after each break caused by the excess of suspended matter concentration will depend on the results of the next survey carried out as part of the investment monitoring. The monitoring of suspended matter and oxygen concentrations in water must be carried out as				
		required in item 152 of Appendix 2 to the EMP.				
39.	General rules for the preservation of animated	d) The Contractor shall carry out works during the day in order not to disturb any activities, including the migration of nocturnal species (e.g. eel).	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	natural resources –			Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	protection of ichtiofauna					
40.	General rules for the preservation of animated natural resources: biological elements of water habitat – ichtiofauna	Supplementary restocks with the burbot (Lota lota) as a measure to compensate for the losses in the spawning season (winter). Restocks: 1. burbot (Lota lota) a) every year for the period of works and for 3 years thereafter*, the Contractor in coordination with fishery users shall introduce restocking material derived from spawner coming from Odra river basin in a quantity of 250,000 specimens of burbot into the body of surface water "Odra from Nysa Łużycka to Warta"; b) the areas of restocking must be located at least 3 km from the work site, so that the spawners are not introduced into the river sections where conditions are disturbed by the works, c) the place and period of restocking shall be agreed each time with a fishery user and environmental supervision body (during the period of works), d) each restocking shall be reported to the State Water Holding 'Polish Waters' — Regional Water Management Authority in Szczecin, and shall be supervised by an ichtiologist. * The measure shall be carried out by the Contractor throughout the term of the Contract (including the Defects Notification Period), the remaining part shall be under the responsibility of the Investor (see column "Entity responsible").	Task Site	Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period, at least once a week during preparation and implementation of the measure (restocking). In the Task period, at least once a month during preparation and implementation of the measure (restocking).

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring											
41.	General rules for the preservation of animated natural resources – protection of ichtiofauna	Catching protected fish species If any protected fish species are found in the bank area of the work site, such as the spined loach, European bitterling or white-finned gudgeon, which live in the submerged and flowing hydrophytes, the Contractor shall catch them and release to the river upstream of the area of works.			Task Site	nk ch, ch ne er ng be ng be ng ed in	Task Site	Task Site	Task Site		lask Site	lask Site	lask Site	Task Site Contractor Team	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	cycles (at 1-hour intervals) f conducted along the banks and groyne or at the section runn bank revetment, as well as with	To carry out the measure, three* electrical fishing cycles (at 1-hour intervals) from a boat must be conducted along the banks and the top of the existing groyne or at the section running along the planned bank revetment, as well as within the planned lead-in pier and dam, 1 day prior to the works, according to the following requirements:									Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.				
		 the fishing shall be carried out according to standard PN-EN14011, with a validated power generator, and supervised by an ichtiologist; the fishing crew manager shall hold a qualification certificate for the operation of electrical fishing equipment; common species of fish (such as the roach, bleak, white bream or perch) shall be released to the river; specimens under various protection statuses: spined loach, Sabanejewia aurata, European bitterling and white-finned gudgeon (all gudgeons must be caught and relocated, as the identification of that species in field conditions is difficult), stone loach, European weatherfish, lampreys, asp and common barbel, shall be placed into containers with oxygenated water and relocated to similar habitats outside the site of works (upstream the river); 															

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		 any foreign species caught, in particular the round goby and other invasive species from the Gobiidae family, as well as the Chinese sleeper and stone moroko, may not be legally released to water but must be annihilated in a humanitarian manner. * If no species under various protection statuses are found, it is allowed to carry out one electrical fishing procedure if approved by the ichtiologist from Contractor's and Engineer's environmental supervision team. The measure shall be participated by Contractor's environmental supervision team, who must obtain all relevant permits required to carry out the measure. 				
42.	General rules for the preservation of animated	Time limitations arising from the protection of bats a) To minimise the impact of the Task on bats, any works carried out at a site of high	Task Site	Contractor's Team	Visual monitoring. Verification of work schedule.	In the Task period: on an ongoing basis, at least once a week.
	natural resources – protection of chiropterofau na	concentration of bats (km 585.5–586, 604.0, 604.5–605.0, 614.0–615.0) must be conducted in the period of reduced activity and wintering of bats, i.e. from August 15 th to April 30 th .		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period, on an ongoing basis, at least once a month.
43.	General rules for the preservation of animated natural resources – protection of	for the preservation of animated natural resources — the following sites: English oak: 1 specimen at km 585.68; white willow: 3 specimens; European white elm: 1 specimen at km 606.15–614.52) must be obligatorily carried out in the period of reduced activity and	Task Site	Contractor's Team	Visual monitoring. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	chiropterofau na	April 30 th , taking into account the nesting season of birds.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
44.	General rules for the preservation of animated natural resources	Habitat-forming measures — creation of a replacement habitat (oxbow) in the area behind the dam Construction of a longitudinal dam (at section 3: km 613.1–614.5) shall be carried out along with the installation of two pipes with a diameter of 1000 mm in the dam structure on each groyne field, removal of some groynes (on approx. 30 m) in the middle part of the dam and the creation of an open connection of the area behind the dam with the downstream side in order to improve the oxygen conditions in the reservoir, allowing for the migration of fauna (invertebrates and fish), reducing the tendency of the reservoir to silt and overgrow, and to prevent the death of benthofauna taxa and the loss of fish. In order to diversify the habitat structure, groups of 4-5 oversized boulders will be introduced into the spaces behind the dam, approx. every 50 m in the existing depressions. The measure shall be participated by Contractor's environmental supervision team. The location of the measure is shown on the site plan in Appendix 7a (Figure 2) to the EMP.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.
45.	General rules for the preservation of animated natural resources –	Limiting the mortality of animals when using land roads If land roads are used during significant migration of amphibians, then in the migration season it is required to secure the roads with fences. Amphibians shall be relocated to the other side of the fences.	Access roads	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection	In the Task period: on an ongoing basis, at least once a week.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	protection of herpetofauna	Once the Contractor determines the work scheme, Contractor's environmental supervision team shall decide whether it is necessary to leave the fences by the roads.			reports and reports by Contractor's environmental supervision team.	
		The measure shall be participated by Contractor's environmental supervision team.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
46.	General rules for the preservation of animated natural resources Protection of earth surface	Protection of natural habitats and the habitats of protected animal and plant species a) In order to protect various environmental compartments against the adverse effect of the Task, during the works (involving earthworks, materials storage and	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a week.
	and landscape	machinery circulation) the Contractor shall take into account the locations of natural habitats and the habitats of protected animal and plant species by fencing such locations (e.g. with forest netting) or by Contractor's environmental supervisors clearly signing those locations in the field (e.g. with an information board) at the following kilometres*: - within natural habitats: - section 1: 3150 – approx. km 581.0; 583.7; 6430 – approx. km 581.0; 582.1; 583.2; 584.5; 584.8;		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		91F0 – approx. km 581.0–582.6; km 585.4–585.7; 6510 – approx. km 582.7–583.7 (Appendix 8a to the EMP); • section 2: 6430 – approx. km 602.5; 603.3; 606.3–606.5; 606.9; 6440 – approx. km 608.6–609.5 (Appendix 8b to the EMP); • section 3: 615.7–615.8; 616.9–617.3 (Appendix 8c to the EMP); - within the habitats of protected species of plants and animals: km 616.4; km 616.9–617.3; km 616.5; km 608.6–609.4; km 608–613, and km 615.3–615.6 (Appendices 9a, 9b, 9c to the EMP); * With regard to the kilometres exceeding the immediate work sites of the Task, the requirement applies to materials storage places or access roads.				
47.	General rules for the preservation of animated natural resources Protection of earth surface and landscape	b) The Contractor shall care for the condition of the protective measures specified in item a. If they are damaged, the Contractor shall carry out proper repairs. The activities in items 46 a and b will be carried out under the supervision of a competent expert of the Contractor's environmental supervision team, who will indicate the method of protection minimising the risk of injury to animals (e.g. by getting entangled in the net).	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a week. In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring		
48.	General rules for the preservation of animated	Protection of birds from the sparrow family which nest in the rushes and grey willows on the bank Before starting works at a given groyne, bank	Task Site	Contractor's Team	Visual monitoring. Verification of work schedule.	In the Task period: on an ongoing basis, at least once a week.		
	natural resources	reinforcement, approach wall or dam, the Contractor shall remove any plants covering the groyne within 30 m from its base, outside the breeding season, i.e. from August to the end of February.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period, on an ongoing basis, at least once a month.		
		The area of plant clearing within 30 m from the groyne base to protect birds from the sparrow family is shown on the layout plans in Appendix 7a to the EMP.						
49.	General rules for the preservation of animated natural resources – protection of ornithofauna	Counteracting the limitation of availability of potential breeding habitats for lari and charadrii Prior to the commencement of the modernisation works, the Contractor shall execute at least two low "nursery" floating islands with a total area of approx. 250 m² outside the riverbed, i.e. in the vicinity of Chlewice, on plot no. 272 Chlewice precinct, Boleszkowice commune, Myśliborski district		Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	Throughout the term of the Contract (including the Defects Notification Period) — on an ongoing basis but no less than once a week.		
	floating islan above the war positive bu vegetation. covered with special biotes that it quickles	with the following assumptions: construct low floating islands without a "sill" protruding outside, above the water, in a cellular concrete structure, with positive buoyancy, quickly overgrowing with vegetation. The surface of the platform will be covered with a few centimetres' layer of soil and a special biotextile for the development of plants, so that it quickly fits into the landscape and becomes settled by ornithofauna.			Engineer's	Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	In the Task period: on an ongoing basis, at least once a month.
		Additional platforms will be located next to breeding platforms already in operation. Detailed location of the platforms and the requirements for the functionality of the islands will be indicated by the						

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		host of the waters being sites for the breeding islands requiring the addition of the low floating islands. The Contractor together with its environmental supervision team shall prepare and submit to the Engineer for approval the measure implementation method to be made as a Quality Assurance Plan. Note: The measure is covered by the Option in accordance with Sub-Clause of the Particular Conditions of Contract (Part 3 of the Bidding Document)				
50.	General rules for the preservation of animated natural resources – protection of herpetofauna	Training in the identification of domestic snakes – protection of the grass snake Prior to the works, a herpetologist from Contractor's environmental supervision team shall train the workers who will carry out the Task in the identification of domestic snakes. The objective is to minimise the mortality of the grass snake. Most people are afraid of snakes, including those completely safe and defenceless such as the grass snake, and often kill them thinking it is the common viper. The training may change that wrong approach at least for some field workers.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation of required expert. Contractor's confirmation of completing the action in the monthly Contract implementation report. Verifying documents delivered by the Contractor to the Engineer.	On a one-off basis, prior to the works. On a one-off basis, prior to the works.
03 -	REQUIREME	NTS FOR HANDLING EARTH MASSES ACQU	JIRED DURIN	IG WORKS		
51.	Rules of handling soil	Handling earth masses It is required to apply the following rules of handling earth masses, including deposits extracted from the	Task Site	Contractor's Team	Visual monitoring. Verification of soil handling documentation.	In the Task period: on an ongoing basis, at least once a week.
		a) Any excavated soil must be used for land remediation and for shaping the landscape, except earth masses acquired at the sites of		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	ıe	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		invasive species (see item 115 of Appendir 1 to the EMP). Any excess soil shall be moved away using floating equipment and then handled according to relevan provisions of the Waste Management Ac of 14 December 2012; b) if any contaminated soil is found (soil which exceeds the admissible substance concentration – see measure in item 52 according to currently applicable regulations, i.e. the Waste Managemen Act, the Environmental Protection Law, and related implementing acts), it shall be removed and given to entities holding relevant permits for their further management; c) earth masses acquired at the sites of invasive species shall be removed and given to entities holding relevant permits for their further management; d) the manner of handling the soils and	c)	monitoring	responsible		monitoring
		sediments will be presented by the Contractor in the Land Management Plat (described in detail in chapter 6.14 of the EMP) and submitted for the Engineer' approval before commencing earthworks; e) The Contractor shall obtain all the necessary permits required for the management of earth masses, which includes the execution of analyses and test required to obtain such permits (as pelegal requirements and/or the requirements of the earth mass recipient).					

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
52.	Rules of handling soil	If ongoing assessment and verification of earth mass quality (see monitoring measure in item 154 in Appendix 2 to the EMP) reveals any untypical	Task Site	Team	Visual monitoring. Verification of quality test documents for any excavated earth mass suspected to be contaminated.	In the Task period: on an ongoing basis, at least once a week.
		parameters and appearance of excavated soil (such as its colour, odour or consistency): • The Contractor shall conduct control testing and determine the quality of the soil batch whose parameters and appearance have changed, in accordance with applicable regulations (i.e. the Waste Management Act, the Environmental Protection Law, and related implementing acts). The tests must be conducted by a laboratory accredited for this type of testing. • If any contaminated soil is found, the Contractor shall handle such a soil batch in accordance with item 51b of Appendix 1 to the EMP. The Contractor shall ensure temporary storage of any batch of soil which is suspected to be contaminated,			Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
		until the results of laboratory tests are obtained. The method and requirements for such temporary storage of soil shall be defined by the Contractor in the Land Management Plan, which must be approved by the Engineer prior to the works specified therein (see chapter 6.14 of the EMP). The adopted method may not cause environmental pollution.				
53.	General rules for the preservation of animated	No storage of excess earth mass in inter-groyne areas	Task Site	Contractor's Team	Visual monitoring. Verification of soil handling documentation.	In the Task period: on an ongoing basis, at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	natural resources Protection of surface water	No excess earth mass or other material derived from the reconstructed groynes may be stored within the river channel, inter-groyne areas or the terrace of Odra river. Inter-groyne areas must remain intact during the works as far as possible.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
54.	Rules of handling soil General rules	No relocation of earth mass in the river channel The Contractor is not allowed to conduct dredging works or relocate/move/push earth mass in the river channel.	Task Site	Contractor's Team	Visual monitoring. Verification of soil handling documentation.	In the Task period: on an ongoing basis, at least once a week.
	for the preservation of animated natural resources Protection of surface water			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
55.	Rules of handling soil	Dulas of transporting and valorating of courts mass	Task Site	Contractor's Team	Visual monitoring. Verification of soil handling documentation.	In the Task period: on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
		The method of reloading works, including the requirements for temporary storage location for earth mass, shall be defined by the Contractor in the Land Management Plan, which must be approved by the Engineer prior to the works specified therein (see chapter 6.14 of the EMP). The adopted technology may not cause environmental pollution in the adjacent areas.				

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
04 -	- REQUIREME	NTS FOR TRAFFIC MANAGEMENT AT THE	TASK SITE			
56.	Protection of earth surface and landscape	Transport of construction materials to temporary storage locations The Contractor shall deliver stone to temporary	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
		storage locations using local barges.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
57.	Protection of earth surface and landscape	Transport of construction materials from temporary storage locations to work sites	Task site and waterways	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
		The Contractor shall transport stone from temporary storage locations to work sites by pontoons and low-draught barges, having loaded such quantity of stone that allows for free manoeuvring.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
58.	Assuring human health and safety	Requirements for the use of access roads running to the Task site including surroundings The use of land access roads running to the Task site	Task site and land access roads	Contractor's Team	Visual monitoring. Checking the progress of document preparation.	In the Task period: on an ongoing basis, at least once a month until the requirement is fulfilled.
	Protection of tangible goods Protection of Earth surface	is subject to the following requirements: a) The Contractor shall prepare traffic arrangement plans for the duration of works according to the Technical Specifications and requirements of road managers concerning transport and use of such roads,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month until the requirement is fulfilled.
59.		b) The Contractor must agree the traffic arrangement plans with the managers of the roads to be used. The Contractor must arrange traffic according to the plans		Contractor's Team	Checking the progress of document preparation. Checking for the delivery of documents to the Engineer	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
		agreed (which includes the signage and protection of work site, the signage of any divergence, the recommended road		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		signage due to any modification of traffic arrangement, etc.),				
60.	submit to the Engineer for approval the traffic arrangement plans agreed with the road managers and traffic management authority,		Contractor's Team	Visual monitoring and document verification.	In the Task period: on an ongoing basis, at least once a week.	
		authority,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
61.		d) based on demands and work progress, the Contractor shall keep the traffic arrangement plans up-to-date (any updates must be agreed with the road managers and traffic management authority, and approved by the Engineer),		Contractor's Team	Checking the progress of document preparation. Checking for the delivery of documents to the Engineer	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
				Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
62.		e) access routes shall be signed according to applicable law and arrangements with the managers of the roads to be used by the Contractor. The Contractor shall check the signage on a regular basis and restore or replenish it immediately in the event of destruction or theft,		Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis but at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
63.		 f) It is required to keep clean and in proper condition any paved areas at the site back- up facilities used for the circulation of vehicles transporting construction materials, 		Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
		acci idis,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
64.	g) The Contractor must prepare photographic documentation of the whole Task site and access roads, with a particular focus on the condition of roads and buildings located near the roads used for transporting	site and us on the colocated	Contractor's Team	Visual monitoring. Checking the progress of document preparation. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.	
		construction materials,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
65.		h) The Contractor shall be liable damage to structures, building drainage ditches, culverts, wate supply lines, power lines and pole	s, roads, r or gas s, cables,	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
		survey control points, any installation, and other types of such as signage and marking, no signs, information boards, cultural sites, etc., caused by the Contract Subcontractors during the wo Contractor shall also be respond restoring the capacity of dite drainage systems within the work at the transport roads used, in the damage caused by the works of transport,	facilities avigation heritage tor or its rks. The sible for hes and area and event of	Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
66.		 The Contractor shall repair any danger its own expense and, where no carry out other works ordered Engineer, 	ecessary,	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
67.	j) The Contractor shall observe any statutory restrictions regarding axle load when transporting materials and equipment to and from the Task site. The Contractor shall obtain from authorities all permits required to transport any untypical load, and shall notify the Engineer every time in the event of such transport.		Contractor's Team	Visual monitoring. Verification for the acquisition of permits.	In the Task period: on an ongoing basis, at least once a week.	
			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.	
68.	8. General rules for the preservation of animated natural resources – protection of herpetofauna	Conditions of used of the road located on the site, at km 604.0–605.0 To minimise the impact of the works on herpetofauna, at km 602.1 it is required to visibly sign the breeding site of the moor frog located near the levee so that it is not damaged by construction	Task Site – section at km 604.0–605.0	Contractor's Team	Visual monitoring. Verifying the participation of required expert.	In the Task period: on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required expert.	In the Task period: on an ongoing basis, at least once a month.
69.	Assuring human health and safety Protection of	Safety requirements for water transport equipment Water transport equipment is subject to the following requirements:	Task site and waterways	Contractor's Team	Visual monitoring. Verifying documents related to traffic management at the Task site.	In the Task period, on an ongoing basis, at least once a week.
	tangible goods	a) transport equipment (floating sets) and floating equipment must be in accordance with relevant inland navigation regulations applicable in the Republic of Poland,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
70.		b)	the parameters of transport equipment (floating sets) and floating equipment must suit the conditions arising from the current class of waterway and to the water level on a given waterway during the works,		Contractor's Team	Visual monitoring. Verifying documents related to traffic management at the Task site.	In the Task period, on an ongoing basis, at least once a week.
			a given water way during the works,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
71.	71.	c)	the use of vessels during the works must be agreed with the waterway manager and the competent Director of the Inland Waterways Authority,		Contractor's Team	Visual monitoring. Verifying documents related to traffic management at the Task site. Checking for the status of obtaining the approvals.	In the Task period, on an ongoing basis, at least once a week.
					Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
72.		d) prior to the works, it is required to prepare a Safe Navigation Plan (Instructions for Operation and Circulation of Vessels during Works), which must be approved by the Director of the Inland Waterways Authority in Szczecin and agreed with the Engineer,	a Safe Navigation Plan (Instructions for Operation and Circulation of Vessels during Works), which must be approved by the	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.	
				Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	On a one-off basis before the works, verification and acceptance of the document.	
73.		e)	prior to the works, it is required to sign the work site and waterway to warn about any existing hazards and restrictions in water traffic. The method of signing and the locations of signs shall be agreed with the		Contractor's Team	Visual monitoring. Verifying documents related to traffic management at the Task site. Checking for the status of obtaining the approvals.	In the Task period, on an ongoing basis, at least once a week.
			Director of the Inland Waterways Authority in Szczecin and the competent waterway administration body,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
74.		f)	the schedule and arrangement of works must include any presence of law water and the risk of adverse navigation conditions.		Contractor's Team	Visual monitoring. Verifying schedules and documents concerning the work arrangement and traffic management at the Task site.	In the Task period, on an ongoing basis, at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
75.	Protection of earth surface and landscape / Noise Noise Reduction of dusting and noise when transporting materials Maintenance Maint	, , ,		Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a month.
	protection / Assuring human health and safety	road, it is required to: a) use technical and organisational measures that ensure the cleanliness of access roads running to the materials storage places and site back-up facilities, b) when passing through developed areas, it is absolutely necessary to maintain appropriate speed of vehicles, c) use technical and organisational measures aimed at reducing noise, d) properly secure any transported loads to minimise any nuisance (use adequate transport shields, e.g. to reduce dusting).		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
76.	Assuring human health and safety	Maintaining the admissible load capacity of transport equipment When transporting materials and carrying out works		Contractor's Team	Verification of transport documents.	In the Task period, on an ongoing basis, at least once a week.
		from water side (using floating equipment), it is required to observe the admissible load capacity of vehicles, barges and other floating equipment.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
05 -	ARRANGEM	ENT OF CONSTRUCTION SITE, BACK-UP FA	CILITIES AND	STORAGE YAI	RDS	
77.	General rules for the preservation of animated	Proper arrangement of Task sites The Task site should be kept in order, and the works should be properly arranged.	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	natural resources Protection of ground and groundwater			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
78.	General rules for the preservation of animated	Providing the sites posing the risk of contamination with materials and equipment for spillage elimination	Task Site	Contractor's Team	Visual monitoring. Verification for conformity with the spillage prevention procedure.	In the Task period: on an ongoing basis, at least once a week.
	natural resources Protection of ground and surface and ground water	The Contractor shall provide vessels with materials and equipment used for spillage elimination, such as flexible barriers, sorption barriers or sorbents (mats, rotection of ground and surface und ground surface) The Contractor shall provide vessels with materials and equipment used for spillage elimination, such as flexible barriers, sorption barriers or sorbents (mats, rolls, cushions, sleeves). Materials for neutralising spillage (in particular oil derivatives) should also be provided in the areas of works and storage of construction materials.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
79.	Protection of ground and surface and ground	Paving storage yards* The Contractor shall pave storage yards (temporary places of materials storage), for example with road	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	water	* This also applies to any onshore back-up facilities if such are arranged by the Contractor.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
80.	Protection of earth surface and landscape	Arrangement of amenities The Contractor shall arrange a floating amenity area. Ship crews and equipment operators will be provided	Task Site	Contractor's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a week.
	Assuring human health and safety	with amenity areas on the vessels where they work. Other employees will use amenity areas on a houseboat (floating hotel) or a floating pontoon (e.g. W-Z type) equipped with a set of containers.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period: on an ongoing basis, at least once a month.
06 –	REQUIREME	NTS FOR WASTE MANAGEMENT				

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
81.	Assuring human health and safety Protection of groundwater Protection of earth surface and landscape	If any hazardous substances or materials are stored at the site back-up facilities, they must be adequately secured so that they may not be accessed by unauthorised persons, and relevant warning plates must be provided.	Task Site	Contractor's Team	Visual monitoring. Verifying documents concerning work arrangement.	In the Task period, on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
82.	General waste handling procedure Protection of groundwater	General requirements for waste management Waste should be managed according to the following rules:	Task Site	Contractor's Team	Visual monitoring. Verification of waste records.	In the Task period, on an ongoing basis, at least once a week.
	groundwater	 a) works must be arranged in a way to minimise the quantity of waste generated and to minimise its adverse impact on the environment, b) any waste generated while performing the Task should be sorted and stored separately in containers or separated and dedicated locations (including on barges), in conditions that prevent dusting and the spillage of light fractions and their adverse impact on the environment, c) it is required to provide regular waste collection by entities duly authorised for its further management, d) any ship waste containing oils or lubricants, load waste and waste generated on vessels or other floating equipment, as well as wastewater and domestic waste, must be collected within the vessels in a way 		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		preventing the release of contaminants to the environment, e) Ship waste shall be handed to specialised ship waste collection points; f) The Contractor shall obtain all permits required for waste management, which includes the execution of any analyses and tests required to obtain such permits and to determine the waste characteristics, as per legal requirements and/or the requirements of the waste recipient. Waste management shall be carried out in accordance with the Waste Management Act of 14 December 2012, the Inland Waterways Act of 21 December 2000, and the Waste Management Plan referred to in item 123 of Appendix 1 to the EMP.				
83.	General waste handling procedure Protection of	Management of waste produced by personnel Any waste produced by personnel shall be collected in designated bags and containers. The Contractor	Task Site	Contractor's Team	Visual monitoring. Verification of waste records.	In the Task period, on an ongoing basis, at least once a week.
	groundwater	shall ensure that waste is then collected and utilised according to environmental regulations by specialised waste collection companies. Particular attention must be paid to regular collection of waste produced by personnel in the immediate vicinity of the river channel, so that the channel is not contaminated.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
84.	Handling of domestic wastewater Protection of groundwater	Ensuring appropriate conditions of hygiene within the Task site	Task Site	Contractor's Team	Visual monitoring	In the Task period, on an ongoing basis, at least once a week.
		The Task site shall be provided with tight toilets in a required quantity (including mobile toilets if necessary) and with a required quantity of personal care products, and it is required to train all personnel in maintaining appropriate conditions of hygiene within the Task sites and their immediate		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		surroundings. Contractor's personnel should satisfy their physiological needs only in dedicated places.				
85.	Handling of domestic wastewater Protection of groundwater	Handling of domestic wastewater Domestic wastewater should be collected in tight septic tanks and collected on a regular basis by	Task Site	Contractor's Team	Visual monitoring. Verification of wastewater collection contracts.	In the Task period, on an ongoing basis, at least once a week.
	groundwater authorised entities.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.	
07 -	REQUIREME	NTS FOR THE CLEARANCE AND PRESERVA	TION OF TRE	ES AND BUSHE	S	
86.	General rules for the preservation of animated natural resources — protection of ornithofauna	Restriction for tree and bush clearing Trees and bushes (only the selected specimens) shall be cleared outside the bird breeding season, with the stipulation that it may be conducted in the said protection period where it is impossible to adjust the clearing to the protection period due to technical reasons, but at least 3 days prior to any clearing to be conducted in the breeding season, the ornithologist from Contractor's environmental supervision team must check the site to confirm the absence of nests or hatches of birds. The said derogation does not apply to cavity trees (discovered at the following sites: English oak: 1 specimen at km 585.68; European white elm: 2 specimens at km 614.52), which may only be cleared in the period of reduced activity and wintering of bats, i.e. from August 15th to April 30th, taking into account the nesting season of birds.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation of required experts. Contractor's confirmation of completing the action in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period, on an ongoing basis, at least once a week. In the Task period, on an ongoing basis, at least once a month.
87.	General rules for the preservation of animated	Protection of trees growing near the works Any trees which are not to be cleared but grow within the Task site and are exposed to damage caused by	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of	Entity	Method of monitoring	Period and interval of
			monitoring	responsible		monitoring
	natural resources – protection of trees	the operation and circulation of equipment must be protected by the Contractor through: a) shielding any trunks of trees growing in the immediate vicinity of earthworks, e.g. by installing trunk shields made of wooden boards around the whole trunk at least to 1.5 m, b) where possible, conducting manually any earthworks carried out within the root system, c) covering any exposed tree roots with mats made of straw or bag fabric, or with turf, to protect them against excessive drying (in summer) or freezing (in winter), d) not storing any construction materials or excavated soil under tree limbs, in order to prevent gas transfer between the air and the soil, which may cause the roots to decay and die out, e) preventive trimming of tree crowns to prevent their damage in the machinery and equipment garaging area.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
88.	General rules for the preservation of animated natural resources –	Taking adequate measures in case of damage to trees If any tree is damaged, it is required to immediately carry out necessary maintenance works to limit the effects of damage, which must be supervised by a	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying the participation of required experts. Visual monitoring. Verifying documents delivered by the Contractor to the	In the Task period, on each occurrence of the event covered by the requirement. In the Task period, on an ongoing basis, at least once a month.
	protection of trees	phytosociologist/botanist from Contractor's environmental supervision team.			Engineer. Verifying the participation of required experts.	busis, at least office a month.
89.	General rules for the preservation of animated natural	Assessment for the presence of beetle species prior to tree clearing	Task Site	Contractor's Team	Visual monitoring. Contractor's confirmation of completing the action in the monthly Contract implementation report, supported by site inspection reports and reports by	In the Task period, in the event covered by the requirement: on an ongoing basis but at least once a week.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	resources – preservation of the protected beetle species	Prior to any tree clearing, it is required to meet the following requirements: a) any clearance of trees with a circumference exceeding 100 cm (measured at 130 cm) should be preceded with a check by an entomologist from Contractor's environmental supervision team for the presence of any protected beetle species existing within each such tree, b) if any tree is inhabited by a protected species of beetle, the Contractor shall obtain the permits for derogations from the bans applicable to protected animal species, required under the Nature Conservation Act of 16 April 2004, c) the Contractor shall comply with the requirements stated therein under the supervision of an entomologist from Contractor's environmental supervision team, d) the Contractor shall prepare relevant reports on the implementation and scope of the activities subject to the derogation from the bans applicable to protected animal species.		Engineer's Team	the naturalists from Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts. Verifying the participation of required experts.	In the Task period, in the event covered by the requirement: on an ongoing basis but at least once a month.
90.	General rules for the preservation of animated natural resources – protection of chiropterofau na	Assessment for the presence of bat species prior to tree clearing To minimise any loss of protected bat species, which may exist in the tree hollows, prior to clearing the following requirements must be fulfilled: a) any clearance of trees with a circumference exceeding 100 cm (measured at 130 cm)	Task Site	Contractor's Team	Visual monitoring. Contractor's confirmation of completing the action in the monthly Contract implementation report, supported by site inspection reports and reports by the naturalists from Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team.	In the Task period, in the event covered by the requirement: on an ongoing basis but at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		should be preceded with a check by a chiropterologist from Contractor's environmental supervision team for the presence of bats within each such tree, b) if any bats are found within the trees intended for clearing, prior to the clearing the Contractor shall obtain necessary permits for derogation from the bans applicable to protected animal species, issued under the Nature Conservation Act of 16 April 2004, c) any further works at the sites of protected bat species shall be supervised by a chiropterologist from Contractor's environmental supervision team and conducted according to relevant requirements stated in the administrative decisions issued under the Nature Conservation Act of 16 April 2004, d) the Contractor shall prepare relevant reports on the implementation and scope of the activities subject to the derogation from the bans applicable to protected animal species.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts. Verifying the participation of required experts.	In the Task period, in the event covered by the requirement: on an ongoing basis but at least once a month.
08 –	REQUIREME	NTS FOR THE PREVENTION OF ENVIRONM	ENTAL POLL	UTION		
91.	Protection of soil, ground and surface	Prevention of spillage and the contamination of soil, ground and water	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	and ground water	To prevent the contamination of soil, ground and water during the arrangement and execution of works, the following measures must be taken:		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
		 a) avoid any spillage and seal any potential sources of contamination: containers and pavements used for reloading and refuelling, 				

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		b) to prevent any accidental leakage of hazardous oil derivatives and other substances, it is required to use adequate protective measures and procedures involving proper storage of substances in specified quantities, c) materials and equipment shall be stored in locations adequately protected against the contamination of groundwater environment.				
92.	Protection of soil, ground and surface and ground water	Prevention and measures concerning the release of contaminants to groundwater environment The Contractor shall carry out the Task in a way to mitigate the risk of any contaminants penetrating to groundwater environment, which applies in particular to oil derivatives. In the event of spillage of an oil derivative, the following rules of procedure shall be applied: a) any leakage must be immediately eliminated and neutralised, and any contaminated soil layers must be immediately removed and managed according to regulations in force; b) any areas covered by leaked oil derivatives must be reinstated to their original condition; c) in the event of leakage to water, immediately contain the spread of contaminants and remove the oil derivative from water surface.	Task Site	Contractor's Team Engineer's Team	Visual monitoring. Verifying documents concerning waste management. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a week. In the Task period, on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
93.	Protection of soil, ground and surface and ground water	Spillage prevention procedure Given the risk of leakage of oil derivatives, prior to the works the Contractor shall prepare and present to the Engineer for approval a so-called spillage prevention procedure (see section 6.14 of the EMP) and procure	Task Site	Contractor's Team	Visual monitoring. Checking for the implementation of required procedures. Checking for the preparation and delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
		its implementation.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
94.	Protection of soil, ground, surface water and ground water	Rules of fuel supply Fuel shall be supplied to the site by bunkering barges filled with fuel in a dedicated location with properly	Task Site	Contractor's Team	Visual monitoring. Verifying documents concerning work arrangement.	In the Task period, on an ongoing basis, at least once a week.
	water equipped quays, and once the barge arrives at the site, fuel shall be transferred to pushboats are temporary mobile fuel stations installed on pontoor provided with diggers.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.	
95.	Protection of soil, ground, surface water and ground water	Rules of operating a mobile fuel station Mobile fuel station shall be installed in a sealed bath to avoid the spillage of fuel on the pontoon deck, and	Task Site	Contractor's Team	Visual monitoring. Verifying documents concerning work arrangement.	In the Task period, on an ongoing basis, at least once a week.
	water	the vessels shall be provided with materials and equipment for spillage elimination such as flexible, pneumatic or sorption barriers and sorbents (mats, rolls, cushions, sleeves).		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
96.	Protection of soil, ground, surface water and ground water	Rules of refuelling machinery Machines and vehicles may only be refuelled in dedicated locations. When refuelling, the machine	Task Site	Contractor's Team	Visual monitoring. Verifying documents concerning work arrangement.	In the Task period, on an ongoing basis, at least once a week.
		and vehicle operation manuals must be observed. Refuelling should be carried out using mobile or fixed fuel dispenser points with appropriate safeguards such as a sorbent station for eliminating potential fuel leaks and spills to the ground.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity	Method of monitoring	Period and interval of
97.	Protection of soil, surface and ground water and air / noise protection / noise protection / noise and should meet the requirements for	Task Site	responsible Contractor's Team Engineer's Team	Visual monitoring, verification of the technical dossier for machinery and equipment. Visual monitoring. Verifying documents	In the Task period, on an ongoing basis, at least once a week. In the Task period, on an ongoing basis at least once a mostly	
		admission for operation, so to ensure adequate protection of soil, surface water and groundwater against contamination, as well as protection against dust, gas and noise emissions. b) The Contractor shall conduct ongoing inspections (i.e. carried out at least before start-up and after completion of works) of equipment, machinery, vehicles and vessels, in particular the Contractor shall eliminate by any available means the risk of any contaminants penetrating to groundwater environment, including the spillage of fuel, hydraulic oil or oil derivatives, during the handling, transport and operation of equipment, machinery, vehicles and vessels. Any equipment used during construction must			delivered by the Contractor to the Engineer.	basis, at least once a month.
		conform to applicable operation regulations. The Contractor shall provide the Engineer with copies of the documents confirming the admission of the equipment for use, where required by law.				
98.	Protection of soil, ground, surface water and ground water	Day-to-day checks and repairs of equipment Any operated machinery must be repaired and maintained as necessary to prevent any leakage in	Task Site	Contractor's Team	Visual monitoring, verification of the technical dossier for machinery and equipment.	In the Task period, on an ongoing basis, at least once a week.
	hydrau hydrau	nydraulic or fuel systems.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

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Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
99.	Protection of soil, ground, surface water and ground water	Appropriate storage of materials and equipment Materials and equipment shall be stored in locations adequately protected against the contamination of	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	water	groundwater environment.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
100.	soil, ground, surface water and ground It is not allowed to store any waste generated by the	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.	
	water	repair or maintenance of equipment, machinery or working devices within the Odra river terrace. Any repair or servicing of machines should be conducted by a specialised company or a person authorised for such works by the manufacturer (authorised service company). Any waste generated by such works (such as damaged parts, seals, filters, fluid or lubricant tanks, worn oils, fluids, etc.) shall be collected by the repairing or servicing entities and shall not be stored on site. Such waste should then be managed in accordance with relevant regulations governing the classification and management of waste and with the guidelines included in the <i>Waste Management Plan</i> referred to in item 123 of Appendix 1 to the EMP.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
101.	Air protection and noise protection	Air protection and noise Reducing exhaust and noise emissions by machines Task Site	Task Site	Contractor's Team	Visual monitoring. Verification of the technical dossier for machinery and equipment.	In the Task period, on an ongoing basis, at least once a week.
		 i.e. the temporary increase of dust and noise emissions, it is required without limitation to: conduct the works only during daytime (6:00 a.m. to 10:00 p.m.), while for works generating higher noise levels, take into account the acoustically protected areas 		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		located in Słubice, Kostrzyn nad Odrą and in the Górzyca commune (in the area of the border with the Kostrzyn nad Odrą commune), e.g. by limiting the engine working time at the highest speed; • use machinery and equipment that meet environmental requirements and standards, including equipment that is adequately soundproofed, technically sound and shows low pollutant emission; • limit the operating time of engines at top speed; • use operational machinery and vehicles, with a proviso that the machines used for the Task should have modern drive units showing limited exhaust emission; • switch off unnecessary noise-emitting equipment, machines, and tools that are not in use at the time.				
102.	Air protection (protection against dust)	Reduction of dust generated by transport equipment It is required to reduce dust generated by land and	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		water transport equipment, for example by the adequate use of the following measures: a) cleaning vehicle wheels before entry to a public road, b) cleaning internal haul roads, c) using vehicles with canvas covers for transporting dusty materials, or transporting loose materials in packages, d) providing water transport equipment with canvas covers for transporting dusty materials, or transporting loose materials in packages,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		e) other measures preventing the contamination of local roads with sand or mud carried by vehicles, f) sprinkling water on internal haul roads.				
09 -	GUIDELINES	FOR LIMITING ENVIRONMENTAL NUISAN	CE BY USING	ADEQUATE M	ATERIALS AND TECHNOLOGIES	
103.	Soil protection General rules	Conducting works from water side The Contractor shall ensure that the works are	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	for the preservation of animated natural resources Protection of earth surface and landscape	conducted from water side. Certain works may be carried out from the land only if they may not be conducted from water due to environmental conditions (rapidly changing water level). Any work to be carried out from the land must be each time approved by the Engineer, and relevant areas must then be excluded as specified for each kilometre (see item 2 of Appendix 1 to the EMP). The circulation of equipment along the shoreline requires fulfilment of the requirement in item 23d [d) the Contractor shall work on the construction of wingwalls from the furthest point of the wingwall towards the groyne to allow the circulation of construction equipment along the shoreline which will be finally taken by the wingwall structure], as defined for the protection of natural habitat 3270.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
104.	Protection of soil and surface water	Use of environmentally neutral materials During the works, the Contractor shall use natural materials such as stone, fascine, timber, gravel or	Task Site	Contractor's Team	Visual monitoring. Verification of documents concerning construction materials.	In the Task period, on an ongoing basis, at least once a week.
	General rules for the preservation	sand; geotextile is allowed for separating the new components from the existing ones.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	of animated natural resources	The construction materials to be used must have technical approvals and certificates admitting them for use in hydro-engineering.				
105.	General rules for the preservation of animated natural Rip-rap stabilisation Rip-rap stabilisation The Contractor shall not clamp the rip-rap with concrete; the top section of rip-rap made of hydro engineering stone with a grain size of 15 to 45 cm	The Contractor shall not clamp the rip-rap with concrete; the top section of rip-rap made of hydro-	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		shall be wedged with finer stone (5 to 15 cm) for		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
106.	General rules for the preservation of animated natural	Measures for protecting site conditions at the locations of river wall construction In places where river walls are to be constructed:	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	resources	 only use natural materials; however, geotextile may also be used; allow a corrugated route of the wall, i.e. the wall should run according to the existing terrain relief. 		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
107.	General rules for the preservation of animated natural	The use of suspension curtains during bay construction at km 582.4 and 582.7 Use suspension curtains when building the bays	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	resources	(replacement habitats in the form of oxbows as in item 30 of Appendix 1 to the EMP). A curtain should be used directly upstream of bay 1 construction site, at km 582+400. It must be installed before starting the bay construction works. Curtain position: upstream of the bay entrance, at straight angle at the bank and then diagonally downstream, so to separate the work site from the remainder of the inter-groyne area (situated upstream of the bay construction site). Similarly use a curtain for bay 2 at km 585+700 – installation rectangularly to the bank		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		and then diagonally downstream to separate the area downstream of the bay. Remove the curtains once the works are completed.				
		The location of the curtains is shown on the site plans in Appendices 7a and 7b to the EMP.				
108.	,,,	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.	
			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.	
10 -	GUIDELINES	FOR CONTAINING THE SPREAD OF ALIEN:	SPECIES			
109.	General rules for the preservation of animated natural resources – protection of native plants	The Contractor shall contain the spread of invasive plant species (especially the Echinocystis lobata and Xanthium albinum) by fighting any invasive plants growing on the banks directly affected by the Task (groynes including adjacent inter-groyne areas), as per the following assumptions:	Task Site	Contractor's Team	Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team.	In the Task period: on an ongoing basis, at least once a week.
	Protection of earth surface and landscape	the work sites together with a phytosociologist/botanist from Contractor's environmental supervision team in order to identify the sites and determine the population of invasive plants (the sites of the invasive species mentioned above change dynamically, and their local range and frequency of existence must be updated every year, as they change and largely depend, for example, on weather conditions), and then shall clearly sign those sites,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.
110.		b) Contractor's environmental supervision team shall not allow for the growth of annual invasive species which settle the disturbed habitats at the banks of Odra river, where the works will disturb		Contractor's Team	Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection	In the Task period: on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring												
		the existing vegetative cover or expose or create a bear earth surface or rip-rap, through annual checks of all such locations, which should be conducted preferably in the first half of June (possibly from the third decade of May to the first			reports and reports by Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team.													
		decade of July),		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.												
111.		c) it is required to remove, together with Contractor's environmental supervision team, any characteristic seeds and young plants of the following species: Echinocystis lobata, Impatiens glandulifera, rough cocklebur Xanthium strumarium, and Xanthium albinum. Any young plants that appear shall be removed mechanically (pulled out), and if they grow in bulk, they may be		Contractor's Team	Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team.	In the Task period: on an ongoing basis, at least once a week.												
		cut down or reaped, but this must be performed before the plant fruit-bearing season (until mid- July),														Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental experts. Verifying the participation of required experts.	In the Task period: on an ongoing basis, at least once a month.
112.		d) in case of a very large population, the biomass of invasive species should be removed from riverside habitats with the participation of Contractor's environmental supervision team in order to allow the growth of native alluvial species. The preferred method is to pull out the invasive plants (most effective and precise). Any reaping must be carried out possibly low not to		Contractor's Team	Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team. Checking for the participation of required experts in Contractor's team.	In the Task period, in the event covered by the requirement: on an ongoing basis but at least once a week.												
		prevent the plants from regenerating, and only in locations where the reaping will not cause a threat to rare native species of plants,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current	In the Task period, in the event covered by the requirement: on												

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
					duties by Contractor's environmental experts. Verifying the participation of required experts.	an ongoing basis but at least once a month.
113.		e) protect any earth and plant material acquired at the sites of invasive species, and then dispose it according to regulations in force.		Contractor's Team	Visual monitoring. Verification of waste records.	In the Task period, on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
11 -	REQUIREME	NTS FOR THE RECLAMATION OF SITES ACC	QUIRED TEM	PORARILY		
114.	and landscape Protection of soil and	Surface reclamation after the works If earth surface is disturbed by any required	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval	In the Task period: on an ongoing basis, at least once a week.
		earthworks or the operation of heavy equipment, such locations must be restored to a condition no		Engine or/o Toons	by required experts.	La the Test assisted an expension
		worse than before the works.		Engineer's Team	Visual monitoring.	In the Task period: on an ongoing basis, at least once a month.
		After the works, any sites acquired temporarily shall be restored to the original condition (method of use). After the works, the site must be cleared and kept in a state being possibly close to natural. Any works on the restoration of sites acquired temporarily shall be supervised by a botanist/phytosociologist from			Verifying documents delivered by the Contractor to the Engineer. Verifying the participation and approval by required experts.	
115.	Protection of earth surface and landscape	Contractor's environmental supervision team. Prohibition to reclaim land using soil acquired from the sites of invasive species	Task Site	Contractor's Team	Visual monitoring. Verifying documents concerning waste management.	In the Task period, on an ongoing basis, at least once a week.
	Protection of soil and	The Contractor shall not reclaim any land or shape				
	ground from the sites of invasive species. The method of handling earth masses acquired from the sites of invasive species.			Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the	In the Task period, on an ongoing basis, at least once a month.
		The method of handling earth masses acquired from the sites of invasive species must meet the			Engineer.	

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		requirements laid down in item 51c of Appendix 1 to the EMP.				
12 -	REQUIREME	NTS FOR THE CONSERVATION OF CULTUR	AL ARTEFACT	ΓS		
116.	Preservation of archaeological assets	Measures taken within revealed archaeological sites Throughout the duration of the Task, the Contractor shall ensure participation of a team of archaeologists	Task Site	Contractor's Team	Checking for the participation of required experts and the acquisition of approvals. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis, at least once a week.
	may consist of one or more persons holding relevant professional licence. The composition of the team of archaeologists must be approved by the Engineer. Prior to the works, the Contractor shat submit to the Engineer for approval the Quality Assurance Plan covering the activities of the		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period, on an ongoing basis, at least once a month.	
		Depending on the needs, the team of archaeologists may consist of one or more persons holding a relevant professional licence. The composition of the team of archaeologists must be approved by the Engineer. Prior to the works, the Contractor shall submit to the Engineer for approval the <i>Quality Assurance Plan</i> covering the activities of the archaeologists.				
117.	General arrangements on the conservation of cultural artefacts and monuments	Rules of procedure in case of discovering movable artefacts or archaeological sites Rules of procedure in case of discovering movable artefacts or archaeological sites If during construction or earth works the Contractor discovers any object which is suspected to be a	Task Site	Contractor's Team	Visual monitoring. Checking for the participation of required experts and the acquisition of approvals. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement.
	a) suspend all v destroy such	a) suspend all works which may damage or destroy such object, and protect the object and its location using available means,		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a month plus on each occurrence of the

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		b) immediately notify the Provincial Heritage Conservation Officer, and if this is impossible, then the competent town mayor and the Engineer,			Verifying the participation of required experts.	event covered by the requirement.
		c) proceed as instructed by Contractor's archaeologists,				
		d) allow and ensure documentation activities, archaeological surveys and other necessary measures indicated by Contractor's archaeologists and/or administration authorities responsible to protect artefacts and other historic substance,				
		e) for immovable artefacts, after completion of the measures specified in item d, the Contractor shall implement the instructions and other measures determined by the archaeologists or administration authorities responsible to protect such objects and other historic substance.				
118.	General arrangements on the conservation of cultural	Execution of works near the Kostrzyn Fortress The works in the Kostrzyn Fortress area (under	Task Site near the Kostrzyn Fortress	Contractor's Team	Visual monitoring. Checking for the participation of required experts and the acquisition of approvals. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis, at least once a week.
	artefacts and monuments	artefacts and heritage protection) shall be performed by the		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer. Verifying the participation of required experts.	In the Task period, on an ongoing basis, at least once a month.
119.	General arrangements on the conservation of cultural	Obtaining a permit from the Provincial Heritage Conservation Officer To implement the measures specified in items 116 to	Task Site	Contractor's Team	Checking for the status of obtaining the permits.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement.
	artefacts and monuments	117 of Appendix 1 to the EMP, involving the protection of cultural heritage and monuments, the Contractor shall also obtain if necessary, under a		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a month plus on each occurrence of the

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		power of attorney granted by the Employer, a permit from the Provincial Heritage Conservation Officer (PHCO) for conducting a salvage archaeological survey, and shall then conduct the survey.				event covered by the requirement.
13 –	REQUIREME	NTS FOR ENSURING HEALTH AND SAFETY	OF PEOPLE			
120.	Assuring human health and safety	Appropriate storage of construction materials Materials used for construction shall be stored in such a way to protect them against destruction and not to	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		pose a hazard to people or property.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
121.	Assuring human health and safety	Ensuring safe conditions during works The operation of machinery, equipment and other devices must be conducted in a way not to pose a	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		hazard to people or property and to prevent the machinery and equipment from rolling over, sliding or rolling down.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
122.	Assuring human health and safety	Ensuring human health and safety, including in terms of fire protection and the conditions of work with floating equipment The Contractor shall prepare a Health and Safety Plan	Task Site	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer. Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		(HASP), have it approved by the Engineer, and then carry out the works according to the HASP, which will remain in force until the end of construction.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Visual monitoring.	In the Task period, on an ongoing basis, at least once a month.
		When preparing the HASP, the Contractor must pay particular attention to the safety of works conducted using floating equipment, in the immediate vicinity of running water, and in weather conditions typical of autumn and winter (the Contractor must specify the procedures of work and the provision of employees with adequate personal protective equipment).				

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		Any fire protection requirements included in the HASP should also cover the ban on building bonfires and burning flammable materials on the construction site.				
		The persons handling the construction of Task components should meet the health standards according to applicable regulations, including the Health and Safety Plan (HASP) prepared for the Task.				
123.	Preparation of additional plans for managing emergency	Contractor's preparation of additional plans for managing the environment and emergency situations	Task Site	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
	situations Assuring human health and safety	 Before commencing the works, the Contractor shall prepare and submit to the Engineer for approval a Waste Management Plan specifying the method of managing waste generated during the works, which must include without limitation the waste handling instructions set out in the EMP, 		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
124.		b) Before commencing the works, the Contractor shall prepare and submit to the Engineer for approval a document titled <i>Site Flood Protection Plan</i> , which must include local hydrological and meteorological conditions. In the event of flood,	Task Site	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week.
		the Contractor shall follow the procedures set out in the document,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
125.		c) Before commencing the works, the Contractor shall prepare and submit to the Engineer for approval a document titled <i>Site Arrangement Plan</i> , which must cover, without limitation, elements such as the location of back-up	Task Site	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
		facilities, the arrangement of back-up facilities, the security of back-up facilities, haul roads, and environmental protection at back-up facilities,		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
126.	.6.	d) Before commencing the works, the Contractor shall prepare and submit to the Engineer for approval a document titled <i>Quality Assurance Plan</i> , which must cover, without limitation, elements such as the method of works, on-site traffic arrangement including work signage, OHS and environmental protection, list of working crews, scope of responsibilities of key personnel, quality control, and laboratory tests,	Task Site	Contractor's Team	Checking the progress of document preparation. Checking for the delivery of the document to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
				Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
127.				Contractor's Team	Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis, at least once a week until the requirement is fulfilled.
				Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month until the requirement is fulfilled.
128.	Assuring human health and safety	Designation and proper signage of danger zones At work sites and within site back-up facilities, the Contractor must designate any danger zones which	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
	pose a threat to the life and health of people, sign the zones with warning plates, and additionally protect them against unauthorised access.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.	

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
129.	Assuring human health and safety	Obligation to ensure health and safety during works The Contractor must ensure and maintain the safety	Task Site	Contractor's Team	Visual monitoring. Verification of OHS documents.	In the Task period, on an ongoing basis, at least once a week.
		of people during the works.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
130.	Assuring human health and safety	Adequate security and signage of work site The Contractor must secure and sign the construction site. Contractor's OHS supervisors shall be		Contractor's Team	Visual monitoring. Verification of OHS documents.	In the Task period, on an ongoing basis, at least once a week.
	responsible for adequate signage of the construction site in accordance with applicable legal regulations. The Contractor shall check the signage on a regular basis and restore or replenish it immediately in the event of destruction or theft.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.	
131.	Assuring human health and safety,	Assuring appropriate visibility of protective devices and site signage	Task Site	Contractor's Team	Visual monitoring. Verifying the participation of required expert.	In the Task period, on an ongoing basis, at least once a week.
	General rules for the preservation of animated natural resources	The Contractor shall ensure constant visibility, during the day and night, of protective devices and site signage (barriers and signs) for which this is crucial for safety reasons.		Engineer's Team	Visual monitoring. Verifying the participation of required expert. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
132.	Assuring human health and safety,	Assuring appropriate visibility of protective devices and site signage The Contractor shall ensure constant visibility, during	Task Site	Contractor's Team	Visual monitoring. Verifying the participation of required expert.	In the Task period, on an ongoing basis, at least once a week.
	General rules for the preservation of animated	the day and night, of protective devices and site signage (barriers and signs) for which this is crucial for safety reasons.		Engineer's Team	Visual monitoring. Verifying the participation of required expert. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	natural resources					
133.	Assuring human health and safety	Prevention of diseases such as HIV-AIDS and other infectious diseases including COVID 19 (Clause 6.7 of the General Conditions of Contract)	Task Site	Contractor's Team	Checking Contractor's actions for conformity with Contract conditions.	In the Task period: on an ongoing basis, at least once a week.
		Prevention of HIV-AIDS The Contractor shall conduct training and implement a scheme of raising awareness of the spread of diseases such as HIV-AIDS through an approved service provider, take all other measures set out in the Contract (Clause 6.7 of General Conditions) in order to mitigate the risk of spreading the HIV virus amongst Contractor's personnel and local community, and promote early diagnosis and assistance to persons infected. The measures shall be implemented throughout the term of the Contract (including the Defects Notification Period), at least every other month. They shall include information and awareness-raising campaigns on the risk involved in the spread of HIV-AIDS. The training sessions shall also cover other diseases (e.g. COVID 19).		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
134.	Assuring human health and safety	Rules of handling unexploded ordnance If any unexploded ordnance is found: a) stop the work immediately; b) evacuate people from the area surrounding the	Task Site	Contractor's Team	Visual monitoring. Checking for the implementation of required procedures. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement.
		object; c) immediately notify the sapper supervision crew and the Police, and proceed as they instruct; d) notify the Engineer and Employer.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a month plus on each occurrence of the event covered by the requirement.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		It is absolutely forbidden to lift, excavate, bury or relocate any unexploded ordnance, put it into fire or water, etc.				
135.	Sapper supervision crew Assuring human health and safety	Supervision of the Task site by sappers To mitigate the risk involved in the excavation or discovery of unexploded ordnance on the Task site, the Contractor shall provide:	Task Site	Contractor's Team	Visual monitoring. Verifying the participation and approval by required experts. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement specified in item 135.
	,	 a) prior to the works – investigation of the Task site by sappers (a report of the investigation shall be submitted to the Engineer); b) during the works – sapper supervision (carried out by the sapper supervision crew) involving ongoing checks and clearing the Task site of any hazardous military items, and disposing of such items; 		Engineer's Team	Verifying the participation and approval by required experts. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement specified in item 135.
		c) if any unexploded ordnance is found at the Task site – implementation of the procedures laid down in item 134 of Appendix 1 to the EMP.				
		The experts from the sapper supervision team must hold relevant professional licences. The composition of the sapper supervision team must be approved by the Engineer. Prior to the works, the Contractor shall submit to the Engineer for approval the <i>Quality Assurance Plan</i> covering the activities of the sapper supervision team.				
136.	Assuring human health and safety	Rules of reporting emergency situations In case of emergency (other than flood), accident, major failure, etc., the Contractor must take the following measures:	Task Site	Contractor's Team	Visual monitoring. Checking for the implementation of required procedures. Checking for the delivery of documents to the Engineer.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		 immediately notify appropriate services (Fire Brigade, Ambulance Service, Police, etc.); until the arrival of appropriate services, take actions necessary to mitigate the risk of loss in personnel, property and environment (agreed with appropriate services as far as possible); notify the Engineer and Employer; upon the arrival of appropriate services, strictly comply with their instructions and recommendations. 		Engineer's Team	Visual monitoring Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a month plus on each occurrence of the event covered by the requirement.
14 –	REQUIREME	NTS FOR CONTRACTOR'S PERSONNEL INV		E EMP IMPLEN	MENTATION	
137.	Implementati on of the EMP	Requirements for Contractor's environmental supervision team The Contractor shall appoint a team of naturalist for the whole duration of the Task (Contractor's environmental supervision): a) Contractor's team of naturalists shall consist of specialists in the fields of biology, nature conservation, ecology of flowing water (botanist/phytosociologist, entomologist, ichtiologist, herpetologist, ornithologist, teriologist and chiropterologist), and hydrology. b) the specialists composing Contractor's team of naturalists must have documented experience in their fields and a university degree in the listed or related specialities, c) the composition of Contractor's team of naturalists must be approved by the Engineer prior to the works d) one member of Contractor's environmental supervision team may represent up to two environmental specialities listed in item (a) above.	Task Site	Contractor's Team Engineer's Team	Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports, reports by Contractor's environmental supervision team, etc. Checking for the participation of required expert in Contractor's team. Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental supervision experts.	In the Task period, on an ongoing basis, at least once a week. In the Task period, on an ongoing basis, at least once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		The experts shall be engaged in certain mitigating and monitoring measures during the implementation of the Task, as set out in the EMP, in particular: a) the mitigating measures referred to in Appendix 1 to the EMP in the following categories: 01 – Rules of land acquisition, 02 – Requirements for securing protected natural resources, 07 – Requirements for the clearing and preservation of trees and bushes, 10 – Guidelines for containing the spread of alien species, 11 – Requirements for the reclamation of sites acquired temporarily, 14 – Requirements for Contractor's personnel involved in the EMP implementation. b) the monitoring measures referred to in Appendix 2 to the EMP, in the categories of measures listed above, and environmental monitoring at execution stage as specified in item 156. The scope of activities of Contractor's naturalists is defined in item 11 of Appendix 1 to the EMP.				
138.	Implementati on of the EMP	Training of Contractor's personnel in EMP implementation The Contractor must conduct training (to be concluded with a test checking the participants'	Task Site	Contractor's Team	Visual monitoring. Contractor's confirmation of completing the action in the monthly Contract implementation report.	In the Task period, on an ongoing basis, at least once a month.
	knowledge) in the rules and conditions of the EMP and protection indications for the time of construction, dedicated to Contractor's executives and engineers supervising the construction, which training should be prepared by Contractor's team of naturalists. The Contractor's employees who handle fuels, other oil derivatives or any other substance		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Ongoing checks for the fulfilment of current duties by Contractor's environmental supervision experts.	In the Task period, on an ongoing basis, at least once a month.	

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring	
		harmful to health or environment should be trained in the rules of preserving groundwater environment and using measures for its preservation, including the use of sorbents.					
		In the monthly reports submitted to the Engineer, the Contractor shall provide information on the status of training of Contractor's personnel in the conditions of the EMP in the current reporting period.					
139.		Task Site	Contractor's Team (Site Manager)	Check for the presence of EMP Coordinator. Verifying documents delivered by the EMP Coordinator to the Engineer.	In the Task period, continuous monitoring.		
			Engineer's Team	Checking for the presence of required person in Contractor's team Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.		
		b) day-to-day monitoring over the status of implementing each requirement stated in Appendices 1 and 2 to the EMP at the Task site;					
	c) day-to-day reporting to Contractor's team management on the obligations arising from the EMP at a given stage of works, and of any issues concerning the implementation of the EMP;						
		d) collaboration with other members of Contractor's team (including the teams of naturalists and archaeologists, sapper supervisors, and OHS supervisors) in order to ensure proper implementation of the EMP; e) reporting the implementation of the EMP;					

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		f) collaborating with persons responsible for implementing the EMP from Engineer's and Employer's teams.				
		The EMP Coordinator may not be a member of Contractor's environmental supervision team. The person appointed for this position must be approved by the Engineer.				
140.	Reports by the team of naturalists during execution of the Task	Reports by Contractor's environmental supervision team Contractor's team of naturalists shall conduct reporting which includes:	Task Site	Contractor's Team	Checking the progress in preparing and delivering required reports and information by Contractor's team.	In the Task period: on an ongoing basis, at least once a week.
		a) preparing periodic reports (monthly and quarterly reports and the final report) on the implementation of the requirements stated in the EMP;		Engineer's Team	Checking the progress in preparing and providing the Engineer with required reports and information	In the Task period: on an ongoing basis, at least once a month.
		b) monthly reports shall be submitted as a checklist including necessary appendices, including reports on environmental supervision;				
		c) preparation of periodic reports to be submitted to environmental protection authorities in line with project-related permits, including the environmental permit and species protection permits (Appendix 4a,4b,4c,4d to the EMP);				
		d) the reports shall be submitted to the Engineer and require his approval, with the stipulation that the reports mentioned in item c shall be submitted to the Engineer no later than 2 weeks before the deadline for submission to a relevant authority.				

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
141.	Regular meetings on the implementati on of mitigating and monitoring measures	Discussing the implementation of the EMP at working meetings and Site Meetings In the period of execution of the measures indicated in the EMP, the PIO's, Engineer's and Contractor's teams shall hold monthly meetings to discuss and check the implementation of the mitigating and monitoring measures. Notwithstanding the above, any current requirements and issues related to the implementation of the EMP shall be discussed at Site Meetings.	Task Site	Contractor's Team Engineer's Team	Checking whether the meetings are held and checking whether matters concerning implementation of the EMP are discussed at Site Meetings. Submitting requests to the Site Manager. Checking whether the meetings are held and checking whether matters concerning implementation of the EMP are discussed at Site Meetings. Submitting requests to the Site Manager. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month. In the Task period, on an ongoing basis, at least once a month.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
15 -	PARTICULAR	REQUIREMENTS OF THE WORLD BANK'S	ES POLICIES			
142.	Assuring human health and safety. Water protection.	The Contractor shall take all measures necessary to assure that Contractor's personnel have been informed on the ES Code of Conduct submitted along with the proposal and described in section 6.14 of the	Task Site	Contractor's Team	Visual monitoring. Checking for the delivery of documents to the Engineer.	In the Task period on an ongoing basis, at least once a week.
	Protection of natural resources.	Protection of natural EMP, including on certain forbidden behaviours, and have understood the consequences of engaging in		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
143.	Assuring human health and safety. Prevention of sexual harassment and mobbing The Contractor must ensure such conditions during execution of the Contract to prevent any case of mobbing or sexual harassment of its personnel, Subcontractors and other persons (whether or not associated with the execution of the Contract).	Task Site	Contractor's Team	Visual monitoring. Verifying the Book of Complaints and Requests.	In the Task period, continuous monitoring with monthly reporting.	
		· · · · · · · · · · · · · · · · · · ·		Engineer's Team	Visual monitoring. Verifying the Book of Complaints and Requests. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.
144.	human health and safety. harassment and mobbing The Contractor, through an approved s	Raising awareness about the prevention of sexual harassment and mobbing The Contractor, through an approved service provider holding relevant qualifications, shall	Task Site	Contractor's Team	Verifying the qualifications of service supplier. Verification of training documents and awareness-raising scheme.	In the Task period, continuous monitoring with monthly reporting.
		conduct training courses and implement a scheme raising awareness about the prevention of sexual harassment and mobbing. These measures shall be implemented throughout the term of the Contract, including the Defects Notification Period, at least every other month. They shall take the form of information, education and awareness-raising campaigns.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period. Once a month.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring		
145.	Assuring human health and safety.	Reporting cases of sexual harassment and mobbing The Contractor must immediately notify the Consultant of any reported or suspected case of sexual harassment and mobbing.	Task Site	Contractor's Team	Verifying the Book of Complaints and Requests.	In the Task period, continuous monitoring with monthly reporting.		
		All reported and suspected cases of sexual harassment and mobbing shall be entered into the Book of Complaints and Requests kept by the Contractor. If any case of mobbing or sexual harassment is found, the Contractor must take measures to immediately terminate such behaviours and draw all legal consequences against the offenders. The Contractor must also provide any necessary assistance and support to the victims.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.		
146.	Assuring human health and safety.	uman health by personnel involved in the Task	Task Site and ook Task Site any the the tor, s.	Contractor's Team	Verifying the Book of Complaints and Requests.	In the Task period, continuous monitoring with monthly reporting.		
		conditions, and shall deliver an information leaflet stating all information on such submission, including a guarantee that the person submitting a complaint will bear no consequences. The Contractor shall keep the Book of Complaints and Requests The contents of the leaflet and the format of the Book shall be agreed with the Consultant.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.		
147.	Assuring human health and safety. Assuring Provision of safe working The Contractor shall prov and outside the Task activities, e.g. during t	Provision of safe working conditions The Contractor shall provide such conditions, both at and outside the Task site (during Task-related activities, e.g. during transport), to prevent any accident involving persons engaged in the		Task Site	Task Site	Contractor's Team	Visual monitoring. Verifying construction documents and accident records.	In the Task period, continuous monitoring with monthly reporting plus on each occurrence of the event covered by the requirement.
		 implementation of the Contract, including the personnel of the Contractor, Engineer, Investor, Subcontractors and others, as well as third parties. In case of such an accident, it is required to: immediately provide appropriate assistance to the injured person; 		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.		

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		 secure the scene; notify the Engineer as soon as possible about the event and the manner it was handled by the Contractor; notify appropriate services and allow them access to the scene. 				
148.	Assuring human health and safety.	Employment conditions for adolescent workers The Contractor may hire for the Contract only such adolescent workers who are at least 15 years of age,	Task Site	Contractor's Team	Visual monitoring. Check of employee documents.	In the Task period, continuous monitoring with monthly reporting.
	completed an at least eight-year primary school, and presented a medical certificate confirming that the assigned type of work does not pose any risk to their health. The Contractor shall ensure that juveniles (persons under the age of 18) will not perform works prohibited to juveniles in accordance with applicable regulations (see p. 6.15. of the EMP).		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.	
149.	Assuring human health and safety.	Contractor's OHS supervision The Contractor shall ensure continuous OHS supervision during the implementation of the Task. The scope of duties, qualifications and composition of	Task Site	Contractor's Team	Visual monitoring. Check of employee documents.	In the Task period, continuous monitoring with monthly reporting.
		Contractor's OHS services shall conform to Polish labour law Before the works, Contractor's OHS supervisors shall carry out dedicated training for Contractor's personnel on work safety and the risk of accident while implementing the Task.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, continuous monitoring.
150.	Assuring human health and safety.	The Contractor must apply and observe all labour law provisions applicable in Poland, in particular all the provisions of the Labour Code, and comply with the ES Code of Conduct. In particular, the following issues should be reflected in Contractor's employment policy and salary regulations: • the assurance of equality in remunerating employees who perform the same work, without regard to their gender, age or sexual orientation;	Task Site	Contractor's Team	Visual monitoring. Check of employee documents. Checking for compliance with the procedures set out in Contractor's documents and legal regulations.	In the Task period, continuous monitoring with monthly reporting.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		 the assurance that persons employed for the Contract will not be persecuted or discriminated on the grounds of gender, sexual orientation or age; the assurance that the Contractor will, according to its capacity, conditions and the provisions of the Polish Labour Code, satisfy the needs of its personnel in terms of welfare and amenities in the place of work; the assurance that the Contractor facilitates the improvement of professional qualifications of its personnel. 		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Direct random checks for compliance with the procedures set out in Contractor's documents and legal regulations.	In the Task period, continuous monitoring.
16 –	GUIDELINES	IN CASE OF THE STATE OF EPIDEMIC OR T	HE SATE OF E	PIDEMIC RISK	APPLYING DURING THE WORKS	
151.	Assuring human health and safety	uman health applies during the works, the Contractor shall:	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis but at least once a week plus on each occurrence of the event covered by the requirement.
	and safety of workers, Pers Contractor, Employer and I local community, in the sco the Conditions of the Contract by taking adequate measure minimise the spread of disea measures aimed to avoid or spread of infectious diseases related to the inflow o workforce in connection with in the manner prescribed laws, for example by the R establishing certain restriction prohibitions due to the state issued under Article 46a of December 2008 on the pr fighting against infections a	Contractor, Employer and Engineer, and local community, in the scope defined in the Conditions of the Contract, in particular by taking adequate measures to avoid or minimise the spread of diseases, including measures aimed to avoid or minimise the spread of infectious diseases which may be related to the inflow of permanent workforce in connection with the Contract, in the manner prescribed by applicable laws, for example by the Regulations on establishing certain restrictions, orders and prohibitions due to the state of epidemics, issued under Article 46a of the Act of 5 December 2008 on the prevention and fighting against infections and infectious diseases of human (consolidated text:		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis but at least once a month plus on each occurrence of the event covered by the requirement.

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	Issue		Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
			Polish Journal of Laws 2019, item 1239, as				
			amended);				
		b)	designate a person responsible within the				
			Contract for matters concerning the health and safety at work during epidemics or the				
			state of epidemic risk;				
		c)	implement relevant recommendations of				
			the World Bank and sanitary services for				
			the territory of the Republic of Poland;				
		d)	współpracować z Zamawiającym oraz				
			Inżynierem, w szczególności przekazywać				
			bieżące informacje dotyczące podjętych lub				
			zaplanowanych środków ostrożności, w				
			tym w zakresie odpowiedniego				
			zabezpieczenia Placu Budowy przed				
			dostępem osób nieupoważnionych,				
			wprowadzonych procedur i odpowiedniej				
			aktualizacji dokumentów opisanych w pkt.				
			6.14, w szczególności Planu BIOZ, Planu				
			Gospodarki Odpadami, Projektu Organizacji				
			Placu Budowy, Strategii Zarządzania i Planów Wdrażania ES,				
		e)	organise an information campaign (e.g. in				
			the form of posters and instructions placed				
			at the Construction Site) concerning the				
			symptoms and signs of infection, the				
			spread of the virus, and the methods of				
			protection (including regular hand				
			washing);				
		f)	arrange training sessions for workers and				
			Contractor's Personnel, covering at least				
			the following:				
		i.	revised procedures and documents,				
		ii.	the symptoms and signs of COVID-19 (or				
			any other infectious disease related to an				
			introduced state of epidemic / epidemic				
			risk), including independent monitoring of				

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		such symptoms, the spread of the virus, and available protective measures, iii. procedure in case of noticing any symptoms of the disease in ourselves or other persons, iv. applicable regulations concerning the quarantine of employees and their families, remuneration for the period of disease, isolation or quarantine, the provision of healthcare, including sanitary transport provided to prevent infection, v. applicable procedures of reporting any breach or filing complaints by employees, vi. waste handling, for example masks, gloves, disinfectants and cleaning agents. During the state of epidemic or the state of epidemic risk, as far as permitted by law, training sessions should be conducted through means of electronic communication or in the form of self-training. The aforesaid rules shall be applied in an appropriate manner in case of the state of epidemic or the state of epidemic risk established in the Republic of Poland due to any other infectious disease.				
	•	NTS FOR ENVIRONMENTAL MONITORING				
152.	Protection of water Protection of animated nature	Monitoring for the protection of ichtiofauna against an increased inflow of suspended matter into water and a reduced water oxygenation. During works carried out from October to December, which interfere in the river bed (e.g. demolition of damaged groynes, placement of new structures in the river bed), it is required to monitor the concentration of suspended matter and oxygen in water with the	Monitoring points located approx. 200 m downstream of the work sites	Contractor's Team	Measurement of suspended matter and oxygen concentration in water using an on-line analyser. The concentration of dissolved oxygen must be measured in the centre of water column, approx. 1.0 m under water table. The monitoring of suspended matter concentration must be conducted on a daily basis by taking measurement after	During works carried out from October to December, which interfere in the river bed (e.g. demolition of damaged groynes, placement of new structures in the river bed), on an ongoing basis but at least once a day in the period of works.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
		aim to take the mitigating measures referred to in item 38 of Appendix 1 to the EMP.			work that lasted for at least 2 hours (at a normal rate). Measurements of dissolved oxygen concentration will be carried out in parallel with the measurement of suspended matter concentration. Measurement of oxygen concentration Marks shall be made at monitoring points located approx. 200 m downstream of the work area.	
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
153.	Protection of water and soil.	and	Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
		fuel tanks of machines and the fuel tanks used for storing fuels or oils.		Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
154.	Protection of water and soil.		Task Site	Contractor's Team	Visual monitoring.	In the Task period, on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.
155.	water and soil. Through an ong comment the conditions of the emit	vater and the emission of noise and exhausts	Task Site	Contractor's Team	Visual monitoring. Verifying the technical dossier of construction equipment and transport vehicles.	In the Task period, on an ongoing basis, at least once a week.
				Engineer's Team	Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	In the Task period, on an ongoing basis, at least once a month.

1B.2/1 – Modernization works on the boundary sections of Odra river, Stage I to provide good condition for ice-breaking – Part 1

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
156.	General rules for the preservation of animated natural	Environmental monitoring during execution Contractor's environmental supervision team shall conduct environmental monitoring during construction (as specified in requirements IV.3.2.b and IV.3.2.c of the environmental permit included in	Task Site	Contractor's Team	Monitoring in accordance with the Monitoring Plan agreed with the Regional Director for Environmental Protection in Szczecin.	In the Task period, according to the Monitoring Plan agreed with the Regional Director for Environmental Protection in Szczecin.
	resources	Appendix 4a to the EMP) as part of the Monitoring Plan (based on requirement IV.3.8 of the environmental permit) agreed with the Regional Director for Environmental Protection in Szczecin.		Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action, included in the monthly Contract implementation report, supported by site inspection reports and reports by Contractor's environmental supervision team.	In the Task period: on an ongoing basis, at least once a month.
157.	Assessment of the impact on water resources	Monitoring of physico-chemical properties of water When carrying out the Task, the Contractor shall monitor the following physico-chemical indicators: [(1) thermal conditions, (2) oxygen conditions, (3) salinity, (4) acidity, and (5) biogenic substances. In addition, the monitoring must cover substances particularly harmful to water environment: 6) specific synthetic and non-synthetic pollutants, the assessment of which is used to determine the chemical status of water in accordance with the Regulation of the Minister of Maritime Economy and Inland Waterways on the classification of ecological status, ecological potential and chemical status and	SEM's survey and check station appropriate for the body of surface water "Odra from Nysa Łużycka to Warta" PLRW600021 17999	Contractor's Team	Frequency and methodology of sample collection and methodology of analyses in accordance with the Regulation of the Minister of Maritime Economy and Inland Waterways of 9 October 2019 on the forms and method of monitoring surface water bodies and groundwater bodies (Journal of Laws of 2019, item 2147). Chemical analyses should be conducted by laboratories that meet the criteria specified in the methodology of the Chief Environment Inspectorate (GIOS).	Frequency and methodology of sample collection and methodology of analyses in accordance with the Regulation of the Minister of Maritime Economy and Inland Waterways of 9 October 2019 on the forms and method of monitoring surface water bodies and groundwater bodies (Journal of Laws of 2019, item 2147).
		the method of classification of status of surface water bodies, as well as environmental quality standards for priority substances of 11 October 2019, which was published on 7 November 2019. (Journal of Laws of 2019, item 2149).		Engineer's Team	Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action in the monthly Contract implementation report.	In the Task period: on an ongoing basis, at least once a month.
158.	Assessment of the impact on water-	Monitoring of groundwater level in the range of water-dependent habitats	Habitat 6440: km 609 – two piezometers	Contractor's Team	Reading the piezometres (we assume the use of conventional piezometers	Reading interval that allows for analysing annual changes in groundwater table (minimum

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
	dependent habitats	In the Task period, the Contractor shall monitor the level of groundwater in the range of water-dependent habitats using the piezometers installed as part of pre-investment monitoring (which must include the monitoring of "0" level)	installed 160 m and 708 m from the bank of Odra; habitat 91E0: km 582 – two piezometers installed 162 m and 680 m from the bank of Odra.	Engineer's Team	with an automatic recorder — measurement of hydrostatic pressure). Visual monitoring. Verifying the participation and approval by required experts. Contractor's confirmation of completing the action in the monthly Contract implementation report.	once a year, depending on the piezometer recording period). In the Task period: on an ongoing basis, at least once a month.
159.	Assessment for effective implementati on of the Task	Monitoring changes in the depth of Odra at the sections of completed works The Contractor must draw up a bathymetric plan for Odra river at a section of 500 m downstream from the place of work completion: • before the start of construction works • after the completion of construction works The Contractor shall conduct the aforesaid surveys to establish the staring position for the monitoring of river bed condition once the Task is completed.	Task Site – section of 500 m down the river from the place of work completion	Contractor's Team	Conducting river bed surveys and preparing bathymetric plans.	On a one-off basis before the start of construction works On a one-off basis after the completion of construction works
160.	Assessment for effective implementati on of the Task	Monitoring changes in the depth of Odra at the sections of completed works The Contractor must draw up a bathymetric plan for Odra river at a section of 500 m downstream from the place of work completion: • before the start of construction works • after the completion of construction works The Contractor shall conduct the aforesaid surveys to establish the staring position for the monitoring of	Task Site – section of 500 m down the river from the place of work completion	Contractor's Team Engineer's Team	Conducting river bed surveys and preparing bathymetric plans. Visual monitoring. Verifying documents delivered by the Contractor to the Engineer.	On a one-off basis before the start of construction works On a one-off basis after the completion of construction works On a one-off basis before the start of construction works On a one-off basis after the completion of construction works
18 –	REQUIREME	river bed condition once the Task is completed. NTS FOR CHECKING COMPLIANCE WITH D	OCUMENTS I	PRFPARFD BY	THE CONTRACTOR	Works
10	Implementati	During implementation of the Task, the Contractor	Task Site	Contractor's	Checking for compliance with the	In the Task period, on an
	on and reporting the	shall check on an ongoing basis for compliance with the rules stated in the documents prepared before		Team	procedures set out in relevant documents.	ongoing basis, at least once a week.

Ite	Issue	Object of monitoring	Location of monitoring	Entity responsible	Method of monitoring	Period and interval of monitoring
161	execution of the EMP.	commencing the works, and shall update these documents if necessary. This shall apply in particular to the following documents: Traffic Arrangement and Site Security Plan, Site Arrangement Plan, HASP, Waste Management Plan, Site Flood Protection Plan for the duration of works, spillage prevention procedure, Quality Assurance Plan, and ES Management Strategies and Implementation Plans.		Engineer's Team	Verifying documents delivered by the Contractor to the Engineer. Direct random checks whether the Contractor complies with the procedures set out in relevant documents.	