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Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring and Water Quality Monitoring and Ecological Monitoring

Event / Action Plan for Air Quality

Event	Action				
	ET	IEC	ER	Contractor	
Action Level					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measureme nt to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 	

Event		Ac	tion	
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurement s to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedanc e continues, arrange meeting with IEC and ER; If exceedanc e stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementatio n of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Event	Action				
	ET	IEC	ER	Contractor	
Limit Level	·	·	·		
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance a nd propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementatio n of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	

Event	Action				
Event	ET	IEC	ER	Contractor	
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedances abated. 	

Event	Action					
	ET	IEC	ER	Contractor		
Action Level	 Notify IEC and Contractor; Identify source, investigate the causes of exceedance and propose remedial measures; Report the results of investigation to the IEC,ER and Contractor; Discuss with th e Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals. 		

Event	Action				
	ET	IEC	ER	Contractor	
Limit Level	 Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 	

Event / Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	 Repeat in situ measurement on next day of exceedance to confirm findings Identify source(s) of impact Inform IEC, contractor and ER Check monitoring data, all plant, equipment and Contractor's working methods 	 Confirm receipt of notification of noncompliance in writing Notify Contractor 	 Confirm receipt of notification of noncompliance in writing Notify Contractor 	 Inform the ER and confirm notification of the noncompliance in writing Rectify unacceptable practice Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	 Repeat in situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor and ER Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Action level Repeat measurement on next day of exceedance to confirm findings 	 Check monitoring data submitted by ET and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Confirm receipt of notification of noncompliance in writing Discuss with IEC on the proposed mitigation measures Make agreement on mitigation measures to be implemented Ensure mitigation measures are properly implemented Assess the effectiveness of the implemented mitigation measures 	 Inform the Engineer and confirm notification of the noncompliance in writing Rectify unacceptable practice Check all plant and equipment and consider changes of working methods Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification Implement the agreed mitigation measures Amend working methods if appropriate

Event	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, Contractor, ER and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Limit level 	 Check monitoring data submitted by ET and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures 	 Confirm receipt of notification of failure in writing Discuss with IEC, ET and Contractor on the proposed mitigation measures Request Contractor to critically review the working methods Ensure mitigation measures are properly implemented Assess the effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the noncompliance in writing Rectify unacceptable practice Check all plant and equipment and consider changes of working methods Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER Implement the agreed mitigation measures Amend working methods if appropriate
Limit level being exceeded by two or more consecutive sampling days	 Repeat in-situ measurement to confirm findings Identify source(s) of impact Inform IEC, contractor, ER and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	 Check monitoring data submitted by ET and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly 	 Confirm receipt of notification of failure in writing Discuss with IEC, ET and Contractor on the proposed mitigation measures Request Contractor to critically review the working methods Make agreement on the mitigation measures to be implemented Ensure mitigation measures are properly implemented Assess the effectiveness of the implemented mitigation measures Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level 	 Inform the ER and confirm notification of the noncompliance in writing Take immediate action to avoid further exceedance Rectify unacceptable practice Check all plant and equipment and consider changes of working methods Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER Implement the agreed mitigation measures Resubmit proposals of mitigation measures if problem still not under control As directed by the engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level

Event / Action Plan for Ecological Monitoring

Event	ET Leader	IEC	ER	Contractor
Action Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and finding with the ET and the Contractor. 	 Discuss monitoring with the IEC and any other measures proposed by the ET; If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	 Inform the ER/SOR and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; Implement the agreed measures.

Event	ET Leader	IEC	ER	Contractor
Limit Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the 	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other	 Inform the ER/SOR and confirm notification of the non- compliance in writing; Attend the meeting to discuss with ET, IEC
	 including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or 	 with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures.	discuss with ET, IÉC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.
	mitigation measures where necessary.			