Appendix K

Event Action Plan

Appendix K1 Event/Action Plan for Air Quality

	ACTION								
EVENT	ET (1)	IEC (1)	SOR ⁽¹⁾	Contractor					
Action Level									
1. Exceedance for one sample	 Identify the source. Inform the IEC and the SOR. Repeat measurement to confirm finding. Increase monitoring frequency to daily. 	 Check monitoring data submitted by the ET. Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice Amend working methods if appropriate 					
2. Exceedance for two or more consecutive samples	 Identify the source. Inform the IEC and the SOR. Repeat measurements to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the SOR. If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by the ET. Check the Contractor's working method. Discuss with the ET and the Contractor on possible remedial measures. Advise the SOR on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 					

	ACTION								
EVENT	ET (1)	IEC (1)	SOR ⁽¹⁾	Contractor					
Limit Level									
1. Exceedance for one sample	 Identify the source. Inform the SOR and the DEP. 	1. Check monitoring data submitted by the ET.	 Confirm receipt of notification of failure in writing. 	Take immediate action to avoid further exceedance					
	3. Repeat measurement to confirm finding.	Check Contractor's working method.	2. Notify the Contractor.3. Ensure remedial measures are	2. Submit proposals for remedial actions to IEC within 3 working					
	Increase monitoring frequency to daily.	3. Discuss with the ET and the Contractor on possible remedial	properly implemented.	days of notification 3. Implement the agreed proposals					
	 Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 	measures.4. Advise the SOR on the effectiveness of the proposed remedial measures.		4. Amend proposal if appropriate					
		5. Supervisor implementation of remedial measures.							
2. Exceedance for two or more consecutive	 Notify the IEC, the SOR, the DEP and the Contractor. 	and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly.	 Confirm receipt of notification of failure in writing. 	 Take immediate action to avoid further exceedance. 					
samples	2. Identify the source.		2. Notify the Contractor.	2. Submit proposals for remedial					
	3. Repeat measurements to confirm findings.		3. In consultation with the IEC, agree with the Contractor on the	actions to IEC within 3 working days of notification.					
	4. Increase monitoring frequency to		remedial measures to be	3. Implement the agreed proposals.					
	1.:1		implemented.	4. Resubmit proposals if problem still					
			Ensure remedial measures are properly implemented.	not under control.					
		5. If exceedance continues, consider what activity of the work is responsible and instruct the	Stop the relevant activity of works as determined by the SOR until th exceedance is abated.						
	Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken.	to discuss the	Contractor to stop that activity of work until the exceedance is abated.						
	7. Assess effectiveness of the Contractor's remedial actions								

and keep the IEC, the DEP and the SOR informed of the results.

8. If the exceedance stops, cease additional monitoring.

Appendix K2 Event/Action Plan for Construction Noise

		ACTION					
EVENT	ET	IEC	SOR	Contractor			
Action Level	 Notify the IEC and the Contractor. Carry out investigation. 	Review the analysed results submitted by the ET.	Confirm receipt of notification of failure in writing.	Submit noise mitigation proposals to IEC			
	 Report the results of investigation to the IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	 Review the proposed remedial measures by the Contractor and advise the SOR accordingly. Supervise the implementation of remedial measures. 	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	Implement noise mitigation proposals			
2. 3. 4.	 Notify the IEC, the SOR, the DEP and the Contractor. 	Discuss amongst the SOR, the ET and the Contractor on the potential	Confirm receipt of notification of failure in writing.	Take immediate action to avoid further exceedance			
	2. Identify the source.3. Repeat measurement to confirm findings.	remedial actions. 2. Review the Contractor's remedial actions whenever necessary to	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed 	Submit proposals for remedial actions to IEC within 3 working days of notification			
	4. Increase monitoring frequency.5. Carry out analysis of Contractor's working procedures to determine	assure their effectiveness and advise the SOR accordingly.3. Supervise the implementation of remedial measures.	noise problem. 4. Ensure remedial measures are properly implemented.	3. Implement the agreed proposals4. Resubmit proposals if problem still not under control			
	 possible mitigation to be implemented. 6. Inform the IEC, the SOR and the DEP the causes & actions taken for the exceedances. 7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 8. If exceedance stops, cease additiona 		5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.			
	If exceedance stops, cease additional monitoring.	1					

Appendix K3 Event/Action Plan for Water Quality

Event	ET	Leader		IEC	S	OR		Contractor
Action level being exceeded by one sampling day	1.	Repeat in situ measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working methods.	1.	Confirm receipt of notification of non-compliance in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;
	2.	Identify source(s) of impact;			2.	Notify Contractor.	2.	Rectify unacceptable practice;
	3.	Inform IEC, contractor and SOR;					3.	Amend working methods if appropriate.
	4.	Check monitoring data, all plant, equipment and Contractor's working methods.						··FI
Action level being exceeded by two or more consecutive sampling days	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Discuss with IEC on the proposed mitigation measures;	1.	Inform the Supervising Officer and confirm notification of the non-
	2.	Identify source(s) of impact;	2	D: :1 FE 1.0	•	T to the st		compliance in writing;
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;	2.	Ensure mitigation measures are properly implemented;	2.	Rectify unacceptable practice;
	4.	Check monitoring data, all plant, equipment and Contractor's working methods;	3.	Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly;	3.	Assess the effectiveness of the implemented mitigation measures.	3.	Check all plant and equipment and consider changes of working methods;
	5.	Discuss mitigation measures with IEC,					4.	Submit proposal of additional
		SOR and Contractor;	4.	Supervise the implementation of mitigation measures.				mitigation measures to SOR within 3 working days of
	6.	Ensure mitigation measures are implemented;		mugutori measures.				notification and discuss with ET, IEC and SOR;
	7.	Increase the monitoring frequency to daily until no exceedance of Action level;					5.	Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Confirm receipt of notification of failure in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;

Event	ΕT	Leader		IEC S	SC	OR		Contractor
	2.	Identify source(s) of impact;		2.	2.	Discuss with IEC, ET and		
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;		Contractor on the proposed mitigation measures;	2.	Rectify unacceptable practice;
	4.	Check monitoring data, all plant, equipment and Contractor's working methods;	3.	Review the proposed mitigation 3. measures submitted by Contractor and advise the SOR	3.	Request Contractor to review the working methods.	3.	Check all plant and equipment and consider changes of working methods;
	5.	Discuss mitigation measures with IEC, SOR and Contractor;		accordingly.			4.	Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;		Discuss with IEC, ET and Contractor on the proposed mitigation	1.	Take immediate action to avoid further exceedance;
sampling days	2.	Identify source(s) of impact;				measures;	2.	Submit proposal of mitigation
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;		Request Contractor to critically review the working methods;		measures to SOR within 3 working days of notification and discuss with ET, IEC and
	4.	equipment and Contractor's working	3.	Review the Contractor's mitigation measures whenever		3. Make agreement on the mitigation measures to be		SOR;
		methods;		necessary to assure their effectiveness and advise the		implemented; 4.	3.	Implement the agreed mitigation measures;
	5.	Discuss mitigation measures with IEC, SOR and Contractor;		SOR accordingly;		5. Ensure mitigation measures are properly implemented;	4.	Resubmit proposals of
		,	4.	Supervise the implementation		6.		mitigation measures if
	6.	Ensure mitigation measures are implemented;		of mitigation measures.		7. Consider and instruct, if necessary, the Contractor to slow down or to stop all		problem still not under control;
	7.	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;				or part of the construction activities until no exceedance of Limit level.	5.	As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Appendix K4 Implementation of Event-Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	SC	OR	Contractor
Action Level	1. Repeat statistical data analysis to confirm findings;	1. Check monitoring data submitted by ET and Contractor;	l 1.	Discuss monitoring with the IEC and any other measures	1. Inform the SOR and confirm notification of the non-
	2. Review all available and relevant data, including raw data and statistical analysis results of other	Discuss monitoring results and		proposed by the ET;	compliance in writing;
	parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;	findings with the ET and the Contractor.	2.	If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be	2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR;
	3. Identify source(s) of impact;			implemented.	3. Implement the agreed measures.
	4. Inform the IEC, SOR and Contractor;				
	5. Check monitoring data.				
	Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.				

	EC	SOR	Contractor
parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 7. 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	by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 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; Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.		 Inform the ER/SOR and confirm notification of the non- compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Appendix K5 Event and Action Plan on Dolphin Acoustic Behaviour

EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Action Level				
With the numerical values presented in <i>Table 5.7</i> of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> of <i>Baseline Monitoring Report</i>), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered	 Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring with the ET and the Contractor; 	 Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; Make agreement on measures to be implemented. 	 Inform the SO and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO; Implement the agreed measures.

EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Limit Level With the numerical values presented in Table 5.7 of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower	Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor;	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Discuss with the ET and
or higher than that recorded in the baseline monitoring (see Table 5.8 of <i>Baseline Monitoring Report</i>), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered	 Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor. 	3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly.	the ET; 2. Make agreement on measures to be implemented.	the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures.

Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, SO - Supervising Office, DEP - Director of Environmental Protection