#### **Event and Action Plan for Air Quality (Dust)**

	ACTION						
EVENT	ET	IEC	ER	CONTRACTOR			
Action level being exceeded by one sampling	<ol> <li>Identify source, investigate the causes of complaint and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>			
Action level being exceeded by two or more consecutive sampling	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>			

	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
	8. If exceedance stops, cease additional monitoring.					
Limit level being exceeded by one sampling	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform Contractor ,IEC, ER, and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>		
Limit level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> </ol>		

		ACTION					
EVENT		ET	IEC		ER	CONTRACTOR	
	5.	Carry out analysis of Contractor's	3. Supervise the implementation of	4.	Ensure remedial measures	4. Resubmit proposals if problem still	
		working procedures to determine	remedial measures.		properly implemented;	not under control;	
		possible mitigation to be		5.	If exceedance continues, consider	5. Stop the relevant portion of works	
		implemented;			what portion of the work is	as determined by the ER until the	
	6.	Arrange meeting with IEC and			responsible and instruct the	exceedance is abated.	
		ER to discuss the remedial actions			Contractor to stop that portion of		
		to be taken;			work until the exceedance is		
	7.	Assess effectiveness of			abated.		
		Contractor's remedial actions and					
		keep IEC, EPD and ER informed					
		of the results;					
	8.	If exceedance stops, cease					
		additional monitoring.					

### Event and Action Plan for Construction Noise

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

EVENT	ACTION			
	ЕТ	IEC	ER	CONTRACTOR
	7. Assess effectiveness of Contractor's			
	remedial actions and keep IEC, EPD			
	and ER informed of the results;			
	8. If exceedance stops, cease additional			
	monitoring.			

## Event and Action Plan for Marine Water Quality

		Ac	tion	
Event	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day at water sensitive receiver(s)	<ul> <li>Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate;</li> <li>If exceedance is found to be caused by the reclamation activities, repeat <i>in-situ</i> measurement to confirm findings;</li> <li>Inform IEC and contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>If exceedance occurs at WSD salt water intake, inform WSD;</li> <li>Discuss mitigation measures with IEC and Contractor;</li> <li>Repeat measurement on next day of</li> </ul>	<ul> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ul>	<ul> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Make agreement on the mitigation proposal.</li> </ul>	<ul> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Amend working methods if appropriate;</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and ER;</li> <li>Implement the agree mitigation measures.</li> </ul>
	exceedance.			
Action level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC on the proposed	• Inform the Engineer and confirm
exceeded by two or	comparing the results with those collected at the control stations as	the mitigation measures;	<ul><li>mitigation measures;</li><li>Make agreement on the mitigation</li></ul>	notification of the non-compliance in writing;
more consecutive	appropriate;		proposal;	• Rectify unacceptable practice;

		Act	tion	
Event	ET	IEC	ER	CONTRACTOR
sampling days at	• If exceedance is found to be caused	Review proposal on mitigation	• Assess the effectiveness of the	• Check all plant and equipment and
water sensitive	by the reclamation activities, repeat	measures submitted by Contractor	implemented mitigation measures.	consider changes of working
receiver(s)	in-situ measurement to confirm	and advise the ER accordingly;		methods;
	findings;	• Assess the effectiveness of the		• Discuss with ET, IEC and ER and
	• Inform IEC and contractor;	implemented mitigation measures.		propose mitigation measures to IEC
	• Check monitoring data, all plant,			and ER within 3 working days;
	equipment and Contractor's working			• Implement the agreed mitigation
	methods;			measures.
	• Discuss mitigation measures with			
	IEC and Contractor;			
	• Ensure mitigation measures are			
	implemented;			
	• Prepare to increase the monitoring			
	frequency to daily;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD;			
	• Repeat measurement on next day of			
	exceedance.			
Limit level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC, ET and	• Inform the ER and confirm
exceeded by one	comparing the results with those	the mitigation measures;	Contractor on the proposed	notification of the non-compliance in
sampling day at	collected at the control stations as	Review proposal on mitigation	mitigation measures;	writing;
water sensitive	appropriate;	measures submitted by Contractor	Request Contractor to critically	• Rectify unacceptable practice;
receiver(s)		and advise the ER accordingly;	review the working methods;	

		Act	tion	
Event	ET	IEC	ER	CONTRACTOR
	• If exceedance is found to be caused	• Assess the effectiveness of the	• Make agreement on the mitigation	• Check all plant and equipment and
	by the reclamation activities,	implemented mitigation measures.	measures to be implemented;	consider changes of working
	repeat in-situ measurement to		• Assess the effectiveness of the	methods;
	confirm findings;		implemented mitigation measures.	• Discuss with ET, IEC and ER and
	• Inform IEC, contractor, AFCD and			submit proposal of mitigation
	EPD			measures to IEC and ER within 3
	• Check monitoring data, all plant,			working days of notification;
	equipment and Contractor's working			• Implement the agreed mitigation
	methods;			measures.
	• 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;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD.			
Limit level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IC(E), ET and	• Inform the ER and confirm
exceeded by two	comparing the results with those	the mitigation measures;	Contractor on the proposed	notification of the non-compliance in
or more	collected at the control stations as	Review proposal on mitigation	mitigation measures;	writing;
consecutive	appropriate;	measures submitted by Contractor	• Request Contractor to critically	• Rectify unacceptable practice;
sampling days at		and advise the ER accordingly;	review the working methods;	

		Ac	tion	
Event	ET	IEC	ER	CONTRACTOR
water sensitive	• If exceedance is found to be caused	Assess the effectiveness of the	• Make agreement on the mitigation	• Check all plant and equipment and
receiver(s)	by the reclamation activities, repeat	implemented mitigation measures.	measures to be implemented;	consider changes of working
	in-situ measurement to confirm		• Assess the effectiveness of the	methods;
	findings;		implemented mitigation measures;	• Discuss with ET, IC(E) and ER and
	• Inform IC(E), AFCD, contractor		• Consider and instruct, if necessary,	submit proposal of mitigation
	and EPD;		the Contractor to slow down or to	measures to IC(E) and ER within 3
	• Check monitoring data, all plant,		stop all or part of the marine work	working days of notification;
	equipment and Contractor's working		until no exceedance of Limit level.	• Implement the agreed mitigation
	methods;			measures;
	• Discuss mitigation measures with			• As directed by the Engineer, to
	IC(E), ER and Contractor;			slow down or to stop all or part of
	• Ensure mitigation measures are			the construction activities.
	implemented;			
	• Increase the monitoring frequency			
	to daily until no exceedance of Limit			
	level for two consecutive days;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD.			

#### Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action
Oxygen	<19%	• Ventilate to restore oxygen to >19%
	<18%	Stop works
		• Evacuate personnel/prohibit entry
		• Increase ventilation to restore oxygen to >19%
Methane	>10% LEL (i.e.	Prohibit hot works
	> 0.5% by	• Ventilate to restore methane to <10% LEL
	volume)	
	>20% LEL (i.e.	Stop works
	>1% by	• Evacuate personnel / prohibit entry
	volume)	• Increase ventilation to restore methane to <10%
		LEL
Carbon	>0.5%	• Ventilate to restore carbon dioxide to < 0.5%
Dioxide	>1.5%	Stop works
		• Evacuate personnel / prohibit entry
		• Increase ventilation to restore carbon dioxide to <
		0.5%

Event	Action			
	ET Leader	IEC	ER	Contractor
Action	1. Check monitoring data;	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm
Level		and the Contractor;	monitoring	notification of the non-compliance
Exceedance	2. Inform the IEC, ER and		requirements and any other	in writing;
	Contractor of the findings;	2. Review proposals for additional	measures proposed by the ET;	
		Monitoring and any other		2. Discuss with the ET and the IEC
	3. Increase the monitoring to at	measures submitted by the	2. Make agreement on the	and propose measures to the IEC
	least once a month to confirm	Contractor and advise the ER	measures to be implemented.	and the ER;
	findings;	accordingly.		
				3. Implement the agreed measures.
	4. Propose mitigation			
	measures for consideration			
Limit Level	Undertake Steps 1-4 as in the	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm
Exceedance	Action Level Exceedance. If	and the Contractor;	monitoring	notification of the non-compliance
	further exceedance of Limit Level,		requirements and any other	in writing;
	suspend construction works until	2. Review proposals for additional	measures proposed by the ET;	
	an effective solution is identified.	Monitoring and any other		2. Discuss with the ET and the IEC
		measures submitted by the	2. Make agreement on the	and propose measures to the IEC
		Contractor and advise the ER	measures to be implemented.	and the ER;
		accordingly.	-	
				3. Implement the agreed measures.

# **Event and Action Plan for Coral Post-Translocation Monitoring**

## Mitigation Measures for Vibration Monitoring

Level	Contingency Action			
Alert Level	• The Engineer shall be informed immediately.			
	• The Contractor shall submit an investigation report to describe works being undertaken. To review the instrument responses and to study the cause of undue response.			
	• The Contractor shall review and increase the instrumentation monitoring and reporting frequency, if applicable.			
	• The Contractor shall submit a detailed plan of action describing the measures to be taken should the concerned instrument reach the action level to the Engineer for approval.			
Alarm Level	The Engineer shall be informed immediately.			
	• The active construction works may require to be suspended subject to the Engineer's review of monitoring data.			
	• The Contractor shall immediately implement the measures as defined in the detailed plan of action to prevent further ground movement and groundwater drawdown etc.			
	• The Contractor shall prepare a detailed investigation report to study the cause of the exceedance			
	• The Contractor shall propose a contingency plan for the Engineer's approval in the event that alarm value is reached or exceeded			
	• The Contractor shall develop an emergency plan for the Engineer's approval in the event the applied contingency measures cannot control the situation.			
	• The Contractor shall meet the Engineer to discuss the instrument response and review the effectiveness of the implemented measures.			
	• The Contractor shall carry out design review of the works			

Action Level	•	Consideration shall be given to suspend all active construction works and the Engineer shall be informed immediately
	•	The Contractor shall immediately implement the measures defined in the contingency plan
	•	The Contractor shall implement the measures defined in the emergency plan in the event that the applied contingency measures are found inadequate
	•	The Contractor shall provide a complete report to examine the construction method and review the response of the instruments with full history of the monitoring data and construction activities and necessary design update
	•	To resume the suspended activities, the Contractor shall demonstrate to the Engineer's satisfaction that it is safe to do so with approval from the Engineer.