

Annex A. Environmental Mitigation Implementation Schedule

Annex A Environmental Mitigation Implementation Schedule

Annex A1 Project Implementation Schedule for Construction Phase

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
Water Quality							
3.8	2.9	Use of Silt Screens Silt Screens shall be installed at the flushing water intakes WSRs WSD1, WSD8, WSD9 and EMSD1 to minimise the effect of potential increase in SS levels at the seawater intakes.	Minimize the effect of potential increase in SS levels at the seawater intakes	Contractor	WSRs WSD1, WSD8, WSD9 and EMSD1	Construction Phase	Water Quality Objectives of Sea Water for Flushing Supply (at intake point)
3.8	2.9	Use of Silt Screens To minimize the potential SS impact from dredging, deployment of silt curtains around the grab dredgers is recommended (please refer to Figure 1.2e for the schematic design); and Before commencement of dredging works, the holder of the Environmental Permit shall submit detailed proposal of the design and arrangement of the frame type silt curtain to EPD for approval.	Minimize the release of suspended soil from the dredging area	Contractor	Construction Work Sites	Construction Phase	EIAO-TM and Water Quality Objectives (WQO)
3.10	2.9	Water Quality Monitoring Program Water quality monitoring shall be carried out in accordance with Section 2 of the Environmental Monitoring and Audit (EM&A) Manual. Event and Action Plan (EAP) for water quality shall be followed in case of any exceedance in action and limit level.	Perform water quality monitoring at sensitive receivers during construction phase	Environmental Team (ET)	Monitoring locations as stated in Table 2.1 of the EM&A Manual	Construction Phase	EIAO-TM and Water Quality Objectives (WQO) and WSD Water Quality Objectives of Sea Water for Flushing Supply (at intake point)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
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3.8 – Dredging Operation

Minimize potential adverse effect as a result of dredging activities

Contractor

Construction Work Sites

Construction Phase

EIAO-TM and Water Quality Objectives (WQO)

Adverse impact to water quality can be mitigated through administrative control:

Only two types of dredgers will be allowed for this Project: (a) grab dredger with closed grab, and (b) cutter suction dredger;

The speed of any construction vessels shall not exceed 10 knots when passing through the Project Site Boundary as shown in **Figure 1.1** attached to this Manual

The allowed maximum number of grab dredgers or cutter suction dredger operating simultaneously within the Project area shall follow the requirement listed in the below table (**Figure 1.2f and 1.2g** show working zones for different scenarios);

Locations Scenario	Rambler Channel (A)*	Stonecutter Island (B)*	Northern Fairway (C)*	Western Fairway (D)*	Western Fairway (E)*
1	One GD		One GD	One GD	
2	One GD		One GD		One GD
3			One GD	One GD	One GD
4	One GD	One GD		One GD	
5	One GD	One GD	One GD		
6	One CSD		One GD		One GD

Either one cutter suction dredger or one grab dredger shall be working in Zone 2 (including subzones) of the Container Basin (**Figure 1.2h** attached to this manual) at any time;

Maximum dredging rate shall be 4000 m³ in-situ volume per day per grab dredger and 700 m³ per 30 minutes in any given hour per cutter suction dredger (8400 m³ in-situ volume based on 12-hour operation per day);

The dredging pump of cutter suction dredger shall be operated during cutting to reduce the sediment loss to water body;

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		Project dredging works within Zone 1 to 6 (including sub-zones) of the Container Basin (Figure 1.2h attached to this manual) shall not be carried out at the same time with Terminal Operator's maintenance dredging activities;					
		CSD is only to be deployed for the removal of harder material during daytime only (07:00 to 19:00) in Zone 2 (including subzones) of the Container Basin (Figure 1.2h attached to this manual);					
		In case of rainstorm warning in effect during dredging works, the dredged material on barge shall be covered properly before transportation to disposal site;					
		In case of exceedance of SS and NH ₃ -N at the Tsing Yi WSD flushing intake due to dredging operation is evidenced, the Contractor shall propose mitigation measures not limited to reducing dredging rate. If exceedance persists, the Contractor shall propose not to undertake dredging operation in close proximity to the Tsing Yi flushing water intake during flood tide. The Contractor shall liaise with the ETL, IEC, ER, EPD and WSD for the proposed mitigation measures; and					
		if further mitigation measures are required due to continuous exceedance of SS and NH ₃ -N, consideration shall then be given to dredge only on the state of the tide which would avoid migration of SS towards the WSD and EMSD intakes;					
		Dredging sub-zone Z2B where high NH ₃ -N in sediment is found (Figure 1.1 and 1.2h refers) shall be isolated with dredging works to be carried out towards the end of construction programme.					
		Administrative control in terms of dredging rate adjustment in controlling the release of contaminants shall be employed as mitigation measures					

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		Field trials shall be carried out to propose the most effective dredging process and rate to control the release of ammoniacal nitrogen and UIA into the water column and achieve compliance at the WSD1 seawater intake (NH ₃ -N) and at the beaches for UIA. Capital dredging works in dredging sub-zone Z2B (Figure 1.2h refers) should not therefore be carried out until the proposed method and rate are confirmed.					
		Detailed dredging plan shall be prepared providing details of individual dredging subzones and dredging rate taking into account of the field trial results.					
3.8	–	Other Good Site Practices for Dredging	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	EIAO-TM and Water Quality Objectives (WQO)
		Other good site practices that should be undertaken during dredging includes:					
		All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;					
		The speed of all Contractor's vessels should be controlled within the works area to prevent propeller wash from stirring up the seabed sediments;					
		All barges / dredgers used should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;					
		Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and					

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		No overflow of dredged mud should be allowed. Barges or hopper should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.					
Waste Management							
4.5	3.3	<p>Good Site Practices</p> <p>Adverse impacts relating to waste management such as odour, noise and wastewater discharge are not expected to arise, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include:</p> <p>Obtain the profile of different sediment categories and careful planning of sediment removal;</p> <p>Strictly follow various mitigation measures for protecting water quality as described in water quality section;</p> <p>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</p> <p>Training of site personnel in proper waste management and chemical handling procedures;</p> <p>Provision of sufficient waste disposal points and regular collection of waste;</p> <p>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting sediment material is not anticipated; and</p> <p>Use well maintained PME on site</p>	Minimize potential adverse effect arising from the handling of dredged material	Contractor	Construction Work Sites (General)	Construction Phase	<p>Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Wastes) (General) Regulation</p> <p>(Cap 354) and ETWBTC No. 15/2003, Waste Management on Construction Site</p>

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
4.5	3.3	General Refuse General refuse should be stored in enclosed bins. A reputable waste collector should be employed by the contractor to remove general refuse from the site.	Minimize the adverse effect arising from the handling of site general refuse	Contractor	Construction Work Sites (General)	Construction Phase	Waste Disposal Ordinance
4.5	3.3	Chemical Waste If chemical wastes are produced at the construction site, the Contractor shall be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals should be stored separately. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Minimize the adverse effect arising from the handling of site chemical waste	Contractor	Construction Work Sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal (Chemical Waste) (General) Regulation
4.5	3.3	Marine Dredged Sediment During transportation and disposal of the dredged marine sediments for Type 1 and Type 2 disposal (ETWB TCW no. 34/2002 refers), the following measures shall be taken to minimise potential impacts on water quality:	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality	Contractor	Construction Work Sites	Construction Phase	ETWB TCW No. 34/2002

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		Bottom opening of barges will be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and dredgers before the vessel is moved;					
		Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the EPD;					
		Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation;					
		Sediment Quality Report shall be prepared and submit to EPD under DASO;					
		If disposal of Type 3 sediment is identified, agreement with EPD shall be reached regarding the treatment of sediment before disposal;					
		Project works shall not be carried out before obtaining confirmation from MFC on disposal option; and					
		Follow strictly all conditions stipulated in the dumping permit.					
Marine Ecology							
5.7	4.1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to marine ecology due to dredging operation.	Review and assess the potential adverse effect on marine ecology	Contractor	Construction Work Sites	Construction Phase	EIAO-TM and Water Quality Objectives (WQO)
Fisheries							
6.7	5.1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to fisheries due to dredging operation.	Review and assess the potential adverse effect on fisheries	Contractor	Construction Work Sites	Construction Phase	EIAO-TM and Water Quality Objectives (WQO)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
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Hazard to Life

7.8.2	6.2	<p>The following mitigation measures are recommended to further reduce the risks as low as reasonably practicable:</p> <p>Sound communication channel shall be established with the oil companies, Marine Department, and Fire Services Department for effective notification and emergency evacuation in case of accidents; and</p> <p>Proper safety and emergency training shall be given to the relevant operation staff at the dredging site. Emergency plans and procedures should be prepared and drills should be performed periodically.</p>		Contractor	Construction Work Sites (General)	Construction Phase	EIAO-TM
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Landscape Visual and Glare

8.9, Table 8-3 & 8-6	7.2	<p>Lighting for Dredging Activities – proper site practice for works lighting shall carefully consider the following to avoid light pollution and glare to the surroundings:</p> <p>Visa shields to the lights of dredgers shall be provided;</p> <p>The light source shall not point directly to any VSRs; and</p> <p>Lights shall be switched off if they are not in use.</p>	Minimize landscape and visual impacts during construction phase	Contractor	Construction activities' areas	Throughout design, construction phase	EIAO-TM
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EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
Cultural Heritage							
9.5	8	<p>Monitoring Brief</p> <p>A monitoring brief shall be conducted during the dredging. It shall only be required during dredging at the locations of the 20 unidentified sonar contacts and masked areas and does not need to cover all of the dredging activities. Dredging staff should be briefed about the possibility of locating archaeological objects and a marine archaeologist shall be available to monitor the dredged spoil and provide advice. If material indicative of archaeological remains is retrieved, the AMO should be contacted as soon as possible.</p>	Minimize potential marine archaeological impact during dredging activities	Contractor	Locations of the 20 unidentified sonar contacts and masked areas	During Construction works	EIAO-TM & Antiquities and Monuments Ordinance
Noise							
10.8	9	<p>Good Site Practices</p> <p>Good site practice listed below shall be adopted by all the Contractors as far as practicable:</p> <p>Only well-maintained plant shall be operated on-site and plant should be serviced regularly during the construction program;</p> <p>Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum;</p> <p>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby NSRs; and</p> <p>If dredging is to be carried out during restricted hours, work locations close to NSRs shall be avoided</p>	Control and minimize the generation of undue noise nuisance	Contractor	Construction Work Sites (Along the alignment of dredging)	Construction Phase	PN 2/93 Noise from Construction Activities & EIAO

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Construction Dust							
11.7	10	Dust Control Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during the construction period.	Good site practice to control dust and odour impact to the nearby sensitive receivers	Contractor	Construction Work Sites (General)	Construction Phase	Air Pollution Control (Construction Dust) Regulation
		Odour To minimize potential odour emissions, if dredged sediment is anticipated to be placed on barge for more than a day the load shall be properly covered as far as practicable to minimise the exposed area and potential odour; and If dredged sediment is found to be malodorous it shall be removed from site as soon as possible within one hour after the barge being filled up.		Contractor	Construction Work Sites (General)	Construction Phase	EIAO-TM
EM&A Programme							
12.1		Implementation of EM&A Programme The EM&A Programme shall be implemented accordingly in accordance with the EM&A Manual's recommendations; Any change to EM&A Programme shall be initiated by ETL and agreed with IEC, EPD or AFCD; and The Project Proponent shall consider the setting up of Environmental Project Office (ENPO) or liaise with the Project Proponent of other concurrent projects in implementing EM&A programme.	Perform Environmental Monitoring and Auditing during construction phase	Project Proponent, ET and IEC	Construction Work Sites, other monitoring locations as specified in EM&A Manual	Construction Phase	EIAO-TM

Annex A2 Project Implementation Schedule for Operation Phase

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures		*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
Water Quality							
3.8	2.9	Use of Silt Screens Silt Screens shall be installed at the flushing water intakes WSRs WSD1 and EMSD1. Silt curtain (please refer to Figure 1.2e for the schematic design) around the grab dredgers is to be installed during maintenance dredging. Subject to the review of environmental performance of dredging operation, the deployment of silt curtain may be suspended if supporting evidence is obtained through the operation phase water quality monitoring and audit programme.	Minimize the effect of potential increase in SS levels at the seawater intakes	Port Works Division (PWD)	WSRs WSD1, and EMSD1	Operation Phase	Water Quality Objectives of Sea Water for Flushing Supply (at intake point) EIAO-TM and Water Quality Objectives (WQO)
3.8	2.9	Water Quality Monitoring Program Water quality monitoring shall be carried out in accordance with Section 2 of the Environmental Monitoring and Audit (EM&A) Manual; and EPD and AFCD shall be notified of the detailed arrangement of water quality monitoring program for maintenance dredging prior to maintenance dredging and water quality monitoring programme. Event and Action Plan (EAP) for water quality shall be followed in case of any exceedance in action and limit level.	Perform water quality monitoring at sensitive receivers during operation phase	PWD, Operation Phase Environmental Team (ET)	Monitoring locations as stated in Table 2.1 of the EM&A Manual	Operation Phase	EIAO-TM and Water Quality Objectives (WQO) and WSD Water Quality Objectives of Sea Water for Flushing Supply (at intake point)
3.8	-	Dredging Operation Adverse impact to water quality can be mitigated through administrative control:	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Operation Phase	EIAO-TM and Water Quality Objectives (WQO)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		Only grab dredger with close grab will be allowed with a maximum rate of 4,000 m ³ /day (in-situ volume);				
		No overlapping of maintenance dredging for this Project and any of the maintenance dredging works to be carried out by the container terminal operators;				
		No overflow of dredged materials or polluted water during loading or transportation; and				
		To minimize the potential SS impact from dredging, deployment of silt curtains around the grab dredgers is recommended (please refer to Figure 1.2e for the schematic design). Subject to the review of environmental performance of the dredging operations, the deployment of silt curtains may be suspended if supporting evidence is obtained through the operation phase water quality monitoring and audit programme.				
		In the event that there is an exceedance of SS at the WSD intakes other than WSD1 then further mitigation measures shall be considered including the use of silt curtains or a reduction in the dredging rate;				
3.8	-	Other Good Site Practices for Dredging	Contractor	Construction Work Sites	Operation Phase	EIAO-TM and Water Quality Objectives (WQO)
		Other good site practices that should be undertaken during dredging includes:				
		All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;				

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		The speed of all Contractor's vessels should be controlled within the works area to prevent propeller wash from stirring up the seabed sediments;				
		All barges / dredgers used should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;				
		Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and				
		Barges or hopper should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.				
Waste Management						
4.5	3.3	Good Site Practices Adverse impacts relating to waste management such as odour, noise and wastewater discharge are not expected to arise, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include:	Minimize potential adverse effect arising from the handling dredged material	Contractor	Construction Work Sites (General)	Operation Phase Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Wastes) (General) Regulation

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		<p>Obtain the profile of different sediment categories and careful planning of sediment removal;</p> <p>Strictly follow various mitigation measures for protecting water quality as described in water quality section above;</p> <p>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</p> <p>Training of site personnel in proper waste management and chemical handling procedures;</p> <p>Provision of sufficient waste disposal points and regular collection of waste;</p> <p>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting sediment material is not anticipated; and</p> <p>Use well maintained PME on site</p>				<p>(Cap 354) and ETWBTC No. 15/2003, Waste Management on Construction Site</p>
4.5	3.3	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins. A reputable waste collector should be employed by the contractor to remove general refuse from the site.</p>	Contractor	Construction Work Sites (General)	Operation Phase	Waste Disposal Ordinance

Consultancy Agreement No. CE 63/2008
 Providing Sufficient Water Depth for Kwai Tsing Container Basin
 and its Approach Channel
 Environmental Monitoring and Audit Manual



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4.5	3.3	<p>Chemical Waste</p> <p>If chemical wastes are produced at the construction site, the Contractor shall be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals should be stored separately. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p>	Contractor	Construction Work Sites	Operation Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal (Chemical Waste) (General) Regulation
4.5	3.3	<p>Marine Dredged Sediment</p> <p>During transportation and disposal of the dredged marine sediments for Type 1 and Type 2 disposal (ETWB TCW no. 34/2002 refers), the following measures shall be taken to minimise potential impacts on water quality:</p> <p>Excess material shall be cleaned from the decks and exposed fittings of barges and dredgers before the vessel is moved;</p> <p>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the EPD;</p>	Contractor	Construction Work Sites	Operation Phase	ETWB TCW No. 34/2002

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	
		If disposal of Type 3 sediment is identified, agreement with EPD shall be reached regarding the treatment of sediment before disposal;					
		Dredging shall not be carried out before obtaining confirmation from MFC on disposal option; and					
		Follow strictly all conditions stipulated in the dumping permit.					
Marine Ecology							
5.7	4.1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to marine ecology due to dredging operation.	Review and assess the potential adverse effect on marine ecology	PWD, Contractor	Construction Work Sites	Operation Phase	EIAO-TM and Water Quality Objectives (WQO)
Fisheries							
6.7	5.1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to fisheries due to dredging operation.	Review and assess the potential adverse effect on fisheries	PWD, Contractor	Construction Work Sites	Operation Phase	EIAO-TM and Water Quality Objectives (WQO)
Landscape Visual and Glare							
8.9, Table 8-3 & 8-6	7.2	Lighting for Dredging Activities – proper site practice for works lighting shall carefully consider the following to avoid light pollution and glare to the surroundings: Visa Shields to the lights of dredgers shall be provided; The light source shall not point directly to any VSRs; and Lights shall be switched off if they are not in use.	Minimize landscape and visual impacts during operation phase	Contractor	Construction activities' areas	Operation Phase	EIAO-TM

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Noise						
10.8	9	<p>Good Site Practices</p> <p>Control and minimize the generation of undue noise nuisance</p> <p>Good site practice listed below shall be adopted by all the Contractors as far as practicable:</p> <p>Only well-maintained plant shall be operated on-site and plant should be serviced regularly during the construction program;</p> <p>Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum;</p> <p>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby NSRs; and</p> <p>If dredging is to be carried out during restricted hours, work locations close to NSRs shall be avoided</p>	Contractor	Construction Work Sites (Along the alignment of dredging)	Operation Phase	PN 2/93 Noise from Construction Activities & EIAO
Construction Dust						
11.7	10	<p>Dust Control</p> <p>Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during the construction period.</p>	Contractor	Construction Work Sites (General)	Operation Phase	Air Pollution Control (Construction Dust) Regulation

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	*Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	
		<p>Odour</p> <p>To minimize potential odour emissions, if dredged sediment is anticipated to be placed on barge for more than a day the load shall be properly covered as far as practicable to minimise the exposed area and potential odour; and</p> <p>If dredged sediment is found to be malodorous it shall be removed from site as soon as possible within one hour after the barge being filled up.</p>	Contractor	Construction Work Sites (General)	Operation Phase	EIAO-TM	
EM&A Programme							
12.1		<p>Implementation of EM&A Programme</p> <p>The EM&A Programme shall be implemented accordingly in accordance with the EM&A Manual's recommendations; and</p> <p>Any change to EM&A Programme shall be initiated by ETL and agreed with EPD or AFCD.</p>	Perform Environmental Monitoring and Auditing during operation phase	PWD, Operation Phase ET	Construction Work Sites, other monitoring locations as specified in EM&A Manual	Operation Phase	EIAO-TM