## Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation Status
	Log Ref		Recommended	implement the	measure	implement	
			Measures & Main	measures?		the	
			Concern to Address			measures?	
Water Qua	ality (Constru	uction Phase)					
S4.3.10	D1	The contractor shall follow the procedures and requirements	Minimize dust impact at	Contractor	All construction	Construction	V
		given in the Air Pollution Control (Construction Dust)	the nearby sensitive		sites	stage	
		Regulation	receivers				
S4.3.10	D2	Mitigation measures in form of regular watering under a	Minimize dust impact at	Contractor	All construction	Construction	@
		good site practice should be adopted. Watering once per	the nearby sensitive		sites	stage	
		hour on exposed worksites and haul road should be	receivers				
		conducted to achieve dust removal efficiencies of 91.7%.					
		While the above watering frequencies are to be followed,					
		the extent of watering may vary depending on actual site					
		conditions but should be sufficient to maintain an					
		equivalent intensity of no less than 1.3 L/m <sup>2</sup> to achieve					
		the dust removal efficiency.					
S4.3.10	D3	Proper watering of exposed spoil should be undertaken	Minimize dust impact at the	Contractor	All construction	Construction	V
		throughout the construction phase:	nearby sensitive receivers		sites	stage	
		Any excavated or stockpile of dusty material should be					
		covered entirely by impervious sheeting or sprayed with					
		water to maintain the entire surface wet and then					
		removed or backfilled or reinstated where practicable					
		within 24 hours of the excavation or unloading;					

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			Concern to Address			measures?	
		Any dusty materials remaining after a stockpile is					
		removed should be wetted with water and cleared from					
		the surface of roads;					
		A stockpile of dusty material should not be extend beyond					
		the pedestrian barriers, fencing or traffic cones.					
		The load of dusty materials on a vehicle leaving a					
		construction site should be covered entirely by					
		impervious sheeting to ensure that the dusty materials do					
		not leak from the vehicle;					
		Where practicable, vehicle washing facilities with high					
		pressure water jet should be provided at every					
		discernible or designated vehicle exit point. The area					
		where vehicle washing takes place and the road section					
		between the washing facilities and the exit point should					
		be paved with concrete, bituminous materials or					
		hardcores;					
		When there are open excavation and reinstatement					
		works, hoarding of not less than 2.4m high should be					
		provided and properly maintained as far as practicable					
		along the site boundary with provision for public crossing;					
		Good site practice shall also be adopted by the					

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			Concern to Address			measures?	
		Contractor to ensure the conditions of the hoardings are					
		properly maintained throughout the construction period;					
		The portion of any road leading only to construction site					
		that is within 30m of a vehicle entrance or exit should be					
		kept clear of dusty materials;					
		Surfaces where any pneumatic or power-driven drilling,					
		cutting, polishing or other mechanical breaking operation					
		takes place should be sprayed with water or a dust					
		suppression chemical continuously;					
		Any area that involves demolition activities should be					
		sprayed with water or a dust suppression chemical					
		immediately prior to, during and immediately after the					
		activities so as to maintain the entire surface wet;					
		Where a scaffolding is erected around the perimeter of a					
		building under construction, effective dust screens,					
		sheeting or netting should be provided to enclose the					
		scaffolding from the ground floor level of the building, or					
		a canopy should be provided from the first floor level up					
		to the highest level of the scaffolding;					
		Any skip hoist for material transport should be totally					
		enclosed by impervious sheeting;					

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				Concern to Address			measures?	
		•	Every stock of more than 20 bags of cement or dry					
			pulverised fuel ash (PFA) should be covered entirely by					
			impervious sheeting or placed in an area sheltered on the					
			top and the 3 sides;					
		•	Cement or dry PFA delivered in bulk should be stored in					
			a closed silo fitted with an audible high level alarm which					
			is interlocked with the material filling line and no overfilling					
			is allowed;					
		•	Loading, unloading, transfer, handling or storage of bulk					
			cement or dry PFA should be carried out in a totally					
			enclosed system or facility, and any vent or exhaust					
			should be fitted with an effective fabric filter or equivalent					
			air pollution control system; and					
		•	Exposed earth should be properly treated by compaction,					
			turfing, hydroseeding, vegetation planting or sealing with					
			latex, vinyl, bitumen, shotcrete or other suitable surface					
			stabiliser within six months after the last construction					
			activity on the construction site or part of the construction					
			site where the exposed earth lies.					

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			Concern to Address			measures?	
S4.3.10	D5	Implement regular dust monitoring under EM&A programme	Monitoring of dust impact	Contractor	Selected	Construction	V
		during the construction stage.			representative	stage	
					dust monitoring		
					station		
Construction	on Noise (Airb	orne)					
S5.4.1	N1	Implement the following good site practices:	Control construction	Contractor	All	Constructi	V
		only well-maintained plant should be operated on-site	airborne noise		construction	on stage	
		and plant should be serviced regularly during the			sites		
		construction programme;					
		machines and plant (such as trucks, cranes) that may be					
		in intermittent use should be shut down between work					
		periods or should be throttled down to a minimum;					
		plant known to emit noise strongly in one direction, where					
		possible, be orientated so that the noise is directed away					
		from nearby NSRs;					
		silencers or mufflers on construction equipment should					
		be properly fitted and maintained during the construction					
		works;					
		mobile plant should be sited as far away from NSRs as					
		possible and practicable;					
		material stockpiles, mobile container site office and other					

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	Log Ref		Recommended	implement the	measure	implement	
			Measures & Main	measures?		the	
			Concern to Address			measures?	
		structures should be effectively utilised, where					
		practicable, to screen noise from on-site construction					
		activities.					
S5.4.1	N2	Install temporary hoarding located on the site boundaries	Reduce the construction	Contractor	All	Constructi	V
		between noisy construction activities and NSRs. The	noise levels at low-level		construction	on stage	
		conditions of the hoardings shall be properly maintained	zone of NSRs through		sites		
		throughout the construction period.	partial screening.				
S5.4.1	N3	Install movable noise barriers (typical design is wooden	Screen the noisy plant	Contractor	All	Constructi	N/A
		framed barrier with a small-cantilevered on a skid footing	items to be used at all		construction	on stage	
		with 25mm thick internal sound absorptive lining), acoustic	construction sites		sites where		
		mat or full enclosure, screen the noisy plants including air			practicable		
		compressors, generators and handheld breakers etc					
S5.4.1	N4	Use "Quiet plants"	Reduce the noise	Contractor	All	Constructi	V
			levels of plant items		construction	on stage	
					sites where		
					practicable		
S5.4.1	N5	Loading/unloading activities should be carried out inside the	Reduce the noise levels	Contractor	Mucking out	Constructi	V
		full enclosure of mucking out points	of loading/unloading		locations	on stage	
			activities				
S5.4.1	N6	Sequencing operation of construction plants where	Operate sequentially	Contractor	All	Constructi	V
		practicable.	within the same work site		construction	on stage	

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	Log Ref		Recommended	implement the	measure	implement	
			Measures & Main	measures?		the	
			Concern to Address			measures?	
			to reduce the construction		sites where		
			airborne noise		practicable		
S5.4.1	N7	Implement a noise monitoring under EM&A programme.	Monitor the construction	Contractor	Selected	Constructi	V
			noise levels at the		representative	on stage	
			selected representative		noise		
			locations		monitoring		
					station		
S5.5.2	N8	Install temporary noise barriers along the works area at	Reduce temporary PTI	Contractor	Kowloon City	Different	N/A
		temporary Kowloon City Ferry Pier Public Transport	noise		Ferry Pier	constructi	
		Interchange				on stages	

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	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
Water Qua	ality (Constru	uction Phase)					
S6.9.1.1	W1	In accordance with the Practice Note for Professional Persons	To minimize water quality	Contractor	All	Construction	@
		on Construction Site Drainage, Environmental Protection	impact from construction		construction	stage	
		Department, 1994 (ProPECC PN1/94), construction phase	site runoff and general		sites where		
		mitigation measures shall include the following:	construction activities		practicable		
		Construction Runoff					
		At the start of site establishment (including the barging)					
		facilities), perimeter cut-off drains to direct off-site water					
		around the site should be constructed with internal					
		drainage works and erosion and sedimentation control					
		facilities implemented. Channels (both temporary and					
		permanent drainage pipes and culverts), earth bunds or					
		sand bag barriers should be provided on site to direct					
		stormwater to silt removal facilities. The design of the					
		temporary on-site drainage system will be undertaken by					
		the contractor prior to the commencement of					
		construction.					
		The dikes or embankments for flood protection should be					
		implemented around the boundaries of earthwork areas.					
		Temporary ditches should be provided to facilitate the					
		runoff discharge into an appropriate watercourse,					

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	Log Ref			Recommended	implement the	measure	implement the	
				Measures & Main	measures?		measures?	
				Concern to Address				
			through a site/sediment trap. The sediment/silt traps					
			should be incorporated in the permanent drainage					
			channels to enhance deposition rates.					
		•	The design of efficient silt removal facilities should be					
			based on the guidelines in Appendix A1 of ProPECC PN					
			1/94, which states that the retention time for silt/sand					
			traps should be 5 minutes under maximum flow					
			conditions. Sizes may vary depending upon the flow rate,					
			but for a flow rate of 0.1 m3/s a sedimentation basin of					
			30m3 would be required and for a flow rate of 0.5 m3/s					
			the basin would be 150 m3. The detailed design of the					
			sand/silt traps shall be undertaken by the contractor prior					
			to the commencement of construction.					
		•	All exposed earth areas should be completed and					
			vegetated as soon as possible after earthworks have					
			been completed, or alternatively, within 14 days of the					
			cessation of earthworks where practicable. Exposed					
			slope surfaces should be covered by tarpaulin or other					
			means.					
		•	The overall slope of the site should be kept to a minimum					
			to reduce the erosive potential of surface water flows, and					

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	Log Ref			Recommended	implement the	measure	implement the	
				Measures & Main	measures?		measures?	
				Concern to Address				
			all traffic areas and access roads protected by coarse					
			stone ballast. An additional advantage accruing from the					
			use of crushed stone is the positive traction gained during					
			prolonged periods of inclement weather and the					
			reduction of surface sheet flows.					
		•	All drainage facilities and erosion and sediment control					
			structures should be regularly inspected and maintained					
			to ensure proper and efficient operation at all times and					
			particularly following rainstorms. Deposited silt and grit					
			should be removed regularly and disposed of by					
			spreading evenly over stable, vegetated areas.					
		•	Measures should be taken to 10unnelin the ingress of					
			site drainage into excavations. If the excavation of					
			trenches in wet periods is necessary, they should be dug					
			and backfilled in short sections wherever practicable.					
			Water pumped out from trenches or foundation					
			excavations should be discharged into storm drains via					
			silt removal facilities.					
		•	Open stockpiles of construction materials (for example,					
			aggregates, sand and fill material) of more than 50m <sup>3</sup>					
			should be covered with tarpaulin or similar fabric during					

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				Measures & Main	measures?		measures?	
				Concern to Address				
			rainstorms. Measures should be taken to prevent the					
			washing away of construction materials, soil, silt or debris					
			into any drainage system.					
		•	Manholes (including newly constructed ones) should					
			always be adequately covered and temporarily sealed so					
			as to prevent silt, construction materials or debris being					
			washed into the drainage system and storm runoff					
			being directed into foul sewers.					
		•	Precautions be taken at any time of year when rainstorms					
			are likely, actions to be taken when a rainstorm is					
			imminent or forecasted, and actions to be taken during or					
			after rainstorms are 11 unneling 11 in Appendix A2 of					
			ProPECC PN 1/94. Particular attention should be paid to					
			the control of silty surface runoff during storm events,					
			especially for areas located near steep slopes.					
		•	All vehicles and plant should be cleaned before leaving a					
			construction site to ensure no earth, mud, debris and the					
			like is deposited by them on roads. An adequately					
			designed and sited wheel washing facilities should be					
			provided at every construction site exit where practicable.					
			Wash-water should have sand and silt settled out and					

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	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
		removed at least on a weekly basis to ensure the					
		continued efficiency of the process. The section of					
		access road leading to, and exiting from, the wheel-wash					
		bay to the public road should be paved with sufficient					
		backfall toward the wheel-wash bay to prevent vehicle					
		tracking of soil and silty water to public roads and drains.					
		Oil interceptors should be provided in the drainage					
		system downstream of any oil/fuel pollution sources. The					
		oil interceptors should be emptied and cleaned regularly					
		to prevent the release of oil and grease into the storm					
		water drainage system after accidental spillage. A bypass					
		should be provided for the oil interceptors to prevent					
		flushing during heavy rain.					
		Construction solid waste, debris and rubbish on site					
		should be collected, handled and disposed of properly to					
		avoid water quality impacts.					
		All fuel tanks and storage areas should be provided with					
		locks and sited on sealed areas, within bunds of a					
		capacity equal to 110% of the storage capacity of the					
		largest tank to prevent spilled fuel oils from reaching					
		water sensitive receivers nearby.					

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	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
		Adopt best management practices					
		All the earth works involving should be cond	ducted				
		sequentially to limit the amount of construction	runoff				
		generated from exposed areas during the wet s	eason				
		(April to September) as far as practicable.					
S6.9.1.2	W2	Tunnelling Works and Underground Works	To minimize	Contractor	All tunneling	Construction	N/A
		Cut-&-cover 13 unneling work should be cond	ducted construction water		portion	stage	
		sequentially to limit the amount of construction	runoff quality impact from				
		generated from exposed areas during the wet s	eason tunneling works				
		(April to September) as far as practicable.					
		Uncontaminated discharge should pass th	rough				
		sedimentation tanks prior to off-site discharge					
		The wastewater with a high concentration of SS:	should				
		be treated (e.g. by sedimentation tanks with sur	ficient				
		retention time) before discharge. Oil interceptors	would				
		also be required to remove the oil, lubricants and	rease				
		from the wastewater.					
		Direct discharge of the bentonite slurry (as a result)	t of D-				
		wall and bored 13unneling construction) is not al	owed.				
		It should be reconditioned and reused wh	erever				
		practicable. Temporary storage locations (typic	ally a				

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			Measures & Main	measures?		measures?	
			Concern to Address				
		properly closed warehouse) should be provided on site					
		for any unused bentonite that needs to be transported					
		away after all the related construction activities are					
		completed. The requirements in ProPECC PN 1/94					
		should be adhered to in the handling and disposal of					
		bentonite slurries.					
S6.9.1.3	W3	Sewage Effluent	To minimize water	Contractor	All	Construction	V
		Portable chemical toilets and sewage holding tanks are	quality from sewage		construction	stage	
		recommended for handling the construction sewage	effluent		sites where		
		generated by the workforce. A licensed contractor should			practicable		
		be employed to provide appropriate and					
		adequate portable toilets and be responsible for					
		appropriate disposal and maintenance.					
S6.9.1.5	W4	Groundwater from Potential Contaminated Area:	To minimize	Contractor	Excavation	Construction	V
		No direct discharge of groundwater from contaminated	groundwater quality		areas where	stage	
		areas should be adopted.	impact from		contamination		
		A discharge license under the WPCO through the	contaminated area		is found.		
		Regional Office of EPD for groundwater discharge should					
		be applied. Prior to the excavation works within these					
		potentially contaminated areas, the groundwater quality					

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	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
		should be reviewed during the process of discharge					
		license application. The compliance to the Technical					
		Memorandum on Standards for Effluents Discharged into					
		Drainage on Sewerage Systems, Inland and Coastal					
		Waters (TM-DSS) and the existence of prohibited					
		substance should be confirmed. If the review results					
		indicated that the groundwater to be generated from the					
		excavation works would be contaminated, the					
		contaminated groundwater should be either properly					
		treated in compliance with the requirements of the TM-					
		DSS or properly recharged into the ground.					
		If wastewater treatment is deployed, the wastewater					
		treatment unit shall deploy suitable treatment process					
		(e.g. oil interceptor / activated carbon) to reduce the					
		pollution level to an acceptable standard and remove any					
		prohibited substances (e.g. TPH) to undetectable range.					
		All treated effluent from wastewater treatment plant shall					
		meet the requirements as stated in TM-DSS and should					
		be discharged into the foul sewers.					
		If groundwater recharging wells are deployed, recharging					
		wells should be installed as appropriate for recharging					

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			Concern to Address				
		the contaminated groundwater back into the ground. The					
		recharging wells should be selected at places where the					
		groundwater quality will not be affected by the recharge					
		operation as indicated in the Section 2.3 of TM-DSS. The					
		baseline groundwater quality shall be determined prior to					
		the selection of the recharge wells, and submit a working					
		plan (including the laboratory analytical results showing					
		the quality of groundwater at the proposed recharge					
		location(s) as well as the pollutant levels of groundwater					
		to be recharged) to EPD for agreement. Pollution levels					
		of groundwater to be recharged shall not be higher than					
		pollutant levels of ambient groundwater at the recharge					
		well. Prior to recharge, any prohibited substances such					
		as TPH products should be removed as necessary by					
		installing the petrol interceptor.					
S6.7.2.1	W5	Temporary Reclamation	To minimize water	Contractor	Temporary	Construction	N/A
		During temporary reclamation, regular litter / rubbish	quality impact from		Reclamation	stage	
		clearance and avoidance of illegal discharges within the	temporary				
		embayed marine water should be undertaken.	reclamation				
		During temporary reclamation, the perimeter silt curtain					
		should be deployed.					

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			Concern to Address				
S6.9.1.6	W6	Accidental spillage	To minimize water	Contractor	All	Construction	V
		In order to prevent accidental spillage of chemicals, the	quality impact from		construction	stage	
		following is recommended:	accidental spillage		sites where		
		All the tanks, containers, storage area should be bunded			practicable		
		and the locations should be locked as far as possible from					
		the sensitive watercourse and stormwater drains.					
		The Contractor should register as a chemical waste					
		producer if chemical wastes would be generated. Storage					
		of chemical waste arising from the construction activities					
		should be stored with suitable labels and warnings.					
		Disposal of chemical wastes should be conducted in					
		compliance with the requirements as stated in the Waste					
		disposal (Chemical Waste) (General) Regulation.					
S6.9.2.2	W7	Dredging Works	To minimize sediment	Contractor	Kai Tak	Dredging period	N/A
		The following good practice shall apply for the dredging	suspension during		Barging Point		
		works:	dredging		during dredging		
		• Install efficient silt curtains, i.e. at least 75% SS reduction,			works		
		at the point of seawall dredging to control the dispersion					
		of SS;					
		• Implement water quality monitoring to ensure effective					

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				Concern to Address				
			control of water pollution and recommend additional					
			mitigation measures required;					
		•	The decent speed of grabs should be controlled to					
			minimize the seabed impact and to reduce the volume of					
			over-dredging;					
		•	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 dredging rates by closed grab dredgers for					
			temporary marine channel outside pipepile wall shall be					
			less than 1,500 m <sup>3</sup> /day and 125 m <sup>3</sup> /hour (without					
			concurrent dredging with T2 in dry season only) or 750					
			m³/day and 62.5 m³/hour for other conditions					
			respectively.					
		•	Dredging works shall be only for the provision marine					
			channel. No dredging work is required for temporary					
			reclamation; and					
		•	The workfront of temporary reclamation shall be					
			surrounded by cofferdams and the associated excavation					
			and backfilling works for temporary reclamation shall					

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			Concern to Address				
		have no contact with seawater.					
S6.9.2.2	W8	While WSR 2 (Planned Kai Tak Cooling Water Intake). is	To minimize sediment	Contractor	Kai Tak	Dredging period	N/A
		a planned receiver, the project proponent shall liaise with	suspension during		Barging Point		
		the project proponent of District Cooling System (DCS)	dredging if the District		during dredging		
		for Kai Tak Development on the implementation	Cooling System for Kai		works		
		programme prior to wet season dredging. In case the	Tak Development would				
		DCS would be operated during the dredging period of	be operated in the same				
		CKR, additional silt screen to the cooling water intake	period				
		shall be provided to WSR 2. The following specific					
		mitigation measures shall apply for the dredging works:					
		In dry season, the dredging rate shall be less than					
		1500m <sup>3</sup> /day if no concurrent projects.					
		In all other scenario, the dredging rate shall be less than					
		750m³/day					
		Dredging works shall be only for the provision marine					
		channel. No dredging work is required for temporary					
		reclamation.					
		The workfront of temporary reclamation shall be					
		surrounded by cofferdams and the associated excavation					
		and backfilling works for temporary reclamation shall					
		have no contact with seawater.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation Status
	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
		In case the DCS would be operated during the dredging					
		period of CKR, silt screen shall be provided for WSR2.					
S6.9.2	W9	Handling of Dredged Sediment / Barging Operation	To minimize and mitigate	Contractor	All land- based	Construction	N/A
		• All barges should be fitted with tight bottom seals to	the water disturbance		site and	stage	
		prevent leakage of materials during transport;	during dredged sediment		proposed Kwai		
		Barges or hoppers should not be filled to a level that will	handling/barging		Chung barging		
		cause overflow of materials or polluted water during	operation		point		
		loading or transportation;					
		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;					
		and					
		Loading of barges and hoppers should be controlled to					
		prevent splashing of material into the surrounding water.					
		Mitigation measures for land-based activities as outlined					
		above should be applied to minimise water quality					
		impacts from site runoff and open stockpile spoils at the					
		proposed barging facilities where appropriate.					
S6.9	W10	Implement a marine water quality monitoring programme	Monitor marine water	Contractor	At identified	Prior to and	N/A
			quality prior to and during		monitoring	during dredging	

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation Status
	Log Ref		Recommended	implement the	measure	implement the	
			Measures & Main	measures?		measures?	
			Concern to Address				
			dredging period		location	period	

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
Waste Mar	nagement (C	Construction Waste)					
S7.4.1	WM1	On-site sorting of C&D material	Separation of unsuitable	Contractor	All	Construction	V
		Geological assessment should be carried out by	rock from ending up at		construction	stage	
		competent persons on site during excavation to identify	concrete batching plants		sites		
		materials which are not suitable to use as aggregate in	and be turned into				
		structural concrete (e.g. volcanic rock, Aplite dyke rock,	concrete for structural				
		etc). Volcanic rock and Aplite dyke rock should be	use				
		separated at the source sites as far as practicable and					
		stored at designated stockpile areas preventing them					
		from delivering to crushing facilities. The crushing plant					
		operator should also be reminded to set up measures to					
		prevent unsuitable rock from ended up at concrete					
		batching plants and be turned into concrete for structural					
		use. Details regarding control measures at source site					
		and crushing facilities should be submitted by the					
		Contractors for the Engineer to review and agree. In					
		addition, site records should also be kept for the types of					
		rock materials excavated and the traceability of delivery					
		will be ensured with the implementation of Trip Ticket					
		System and enforced by site supervisory staff as					
		stipulated under DEVB TC(W) No. 6/2010 for tracking of					

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	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		the correct delivery to the rock crushing facilities for					
		processing into aggregates. Alternative disposal option					
		for the reuse of volcanic rock and Aplite Dyke rock, etc					
		should also be explored.					
S7.5.1	WM2	Construction and Demolition Material	Good site practice to	Contractor	All	Construction	V
		Maintain temporary stockpiles and reuse excavated fill	minimize the waste		construction	stage	
		material for backfilling and reinstatement;	generation and recycle		sites		
		Carry out on-site sorting;	the C&D materials as far				
		Make provisions in the Contract documents to allow and	as practicable so as to				
		promote the use of recycled aggregates where	reduce the amount for				
		appropriate;	final disposal				
		Adopt 'Selective Demolition' technique to demolish the					
		existing structures and facilities with a view to recovering					
		broken concrete effectively for recycling purpose, where					
		possible;					
		Implement a trip-ticket system for each works contract to					
		ensure that the disposal of C&D materials are properly					
		documented and verified; and					
		Implement an enhanced Waste Management Plan similar					
		to ETWBTC (Works) No. 19/2005 - "Environmental					
		Management on Construction Sites" to encourage on-site					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		sorting of C&D materials and to minimize their generation					
		during the course of construction.					
S7.5.1	WM3	C&D Waste	Good site practice to	Contractor	All	Construction	٧
		Standard formwork or pre-fabrication should be used as	minimize the waste		construction	stage	
		far as practicable in order to minimise the arising of C&D	generation and recycle		sites		
		materials. The use of more durable formwork or plastic	the C&D materials as far				
		facing for the construction works should be considered.	as practicable so as to				
		Use of wooden hoardings should not be used, as in other	reduce the amount for				
		projects. Metal hoarding should be used to enhance the	final disposal				
		possibility of recycling. The purchasing of construction					
		materials will be carefully planned in order to avoid over					
		ordering and wastage.					
		The Contractor should recycle as much of the C&D					
		materials as possible on-site. Public fill and C&D waste					
		should be segregated and stored in different containers					
		or skips to enhance reuse or recycling of materials and					
		their proper disposal. Where practicable, concrete and					
		masonry can be crushed and used as fill. Steel					
		reinforcement bar can be used by scrap steel mills.					
		Different areas of the sites should be considered for such					
		segregation and storage.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
S7.5.1	WM5	Land-based and Marine-based Sediment	To control pollution	Contractor	Along CKR	Construction	N/A
		All construction plant and equipment shall be designed	due to marine		alignment	Stage	
		and maintained to minimize the risk of silt, sediments,	sediment				
		contaminants or other pollutants being released into the					
		water column or deposited in the locations other than					
		designated location;					
		All vessels shall be sized such that adequate draft is					
		maintained between vessels and the sea bed at all states					
		of the tide to ensure that undue turbidity is not generated					
		by turbulence from vessel movement or propeller wash;					
		Before moving the vessels which are used for					
		transporting dredged material, excess material shall be					
		cleaned from the decks and exposed fittings of vessels					
		and the excess materials shall never be dumped into the					
		sea except at the approved locations;					
		Adequate freeboard shall be maintained on barges to					
		ensure that decks are not washed by wave action.					
		The Contractors shall monitor all vessels transporting					
		material to ensure that no dumping outside the approved					
		location takes place. The Contractor shall keep and					
		produce logs and other records to demonstrate		_			

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		compliance and that journeys are consistent with					
		designated locations and copies of such records shall be					
		submitted to the engineers;					
		The Contractors shall comply with the conditions in the					
		dumping licence.					
		All bottom dumping vessels (Hopper barges) shall be					
		fitted with tight fittings seals to their bottom openings to					
		prevent leakage of material;					
		The material shall be placed into the disposal pit by					
		bottom dumping;					
		Contaminated marine mud shall be transported by spit					
		barge of not less than 750m3 capacity and capable of					
		rapid opening and discharge at the disposal site;					
		Discharge shall be undertaken rapidly and the hoppers					
		shall be closed immediately. Material adhering to the					
		sides of the hopper shall not be washed out of the hopper					
		and the hopper shall remain closed until the barge returns					
		to the disposal site.					
		For Type 3 special disposal treatment, sealing of					
		contaminant with geosynthetic containment before					
		dropping into designated mud pit would be a possible					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		arrangement. A geosynthetic containment method is a					
		method whereby the sediments are sealed in					
		geosynthetic containers and, the containers would be					
		dropped into the designated contaminated mud pit where					
		they would be covered by further mud disposal and later					
		by the mud pit capping at the disposal site, thereby					
		fulfilling the requirements for fully confined mud disposal.					
S7.5.1	WM6	Chemical Waste	Control the chemical	Contractor	All	Construction	V
		Chemical waste that is produced, as defined by Schedule	waste and ensure		construction	stage	
		1 of the Waste Disposal (Chemical Waste) (General)	proper storage,		sites		
		Regulation, should be handled in accordance with the	handling and disposal.				
		Code of Practice on the Packaging, Labelling and					
		Storage of Chemical Wastes.					
		Containers used for the storage of chemical wastes					
		should be suitable for the substance they are holding,					
		resistant to corrosion, maintained in a good condition,					
		and securely closed; have a capacity of less than 450					
		liters unless the specification has been approved by the					
		EPD; and display a label in English and Chinese in					
		accordance with instructions prescribed in Schedule 2 of					
		the regulation.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		The storage area for chemical wastes should be clearly					
		labelled and used solely for the storage of chemical					
		waste; enclosed on at least 3 sides; have an					
		impermeable floor and bunding of sufficient capacity to					
		accommodate 110% of the volume of the largest					
		container or 20 % of the total volume of waste stored in					
		that area, whichever is the greatest; have adequate					
		ventilation; covered to prevent rainfall entering; and					
		arranged so that incompatible materials are adequately					
		separated.					
		Disposal of chemical waste should be via a licensed					
		waste collector; be to a facility licensed to receive					
		chemical waste, such as the Chemical Waste Treatment					
		Centre which also offers a chemical waste collection					
		service and can supply the necessary storage containers;					
		or be to a reuser of the waste, under approval from the					
		EPD.					
S7.5.1	WM7	General Refuse	Minimize production of the	Contractor	All	Construction	V
		General refuse generated on-site should be stored in	general refuse and avoid		construction	stage	
		enclosed bins or compaction units separately from	odour, pest and litter		sites		
		construction and chemical wastes.	impacts				

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		A reputable waste collector should be employed by the					
		Contractor to remove general refuse from the site,					
		separately from construction and chemical wastes, on a					
		daily basis to minimize odour, pest and litter impacts.					
		Burning of refuse on construction sites is prohibited by					
		law.					
		Aluminium cans are often recovered from the waste					
		stream by individual collectors if they are segregated and					
		made easily accessible. Separate labelled bins for their					
		deposit should be provided if feasible.					
		Office wastes can be reduced through the recycling of					
		paper if volumes are large enough to warrant collection.					
		Participation in a local collection scheme should be					
		considered by the Contractor.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status			
	Log Ref		Recommended	implement	the measure	implement the				
			Measures & Main	the		measures?				
			Concern to Address	measures?						
Land Cont	Land Contamination									
S8.10,	LC1	Remaining SI Works	Investigation of the	Contractor	EBH1, EBH2	Prior to	V			

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
S8.12		The potential for land contamination issues at EBH1, EBH2,	potential land		and EBH3	commencement	
&		and EBH3 will be confirmed by site investigation after site	contamination issues at			of construction	
Appen		possession and utility diversion by the construction	EBH1, EBH2 and EBH3			works at the	
dix 8.4		contractor. Following the completion of the remaining SI	which cannot be			Kowloon City	
		works, the Project Proponent would prepare and submit a	completed at the EIA			Ferry Pier Public	
		Second Supplementary CAR/RAP to EPD to present the	stage due to			Transport	
		findings of the SI works and to recommend specific	underground utility and			Interchange	
		remediation measures, if required. Upon completion of the	site access constraints.			(PTI) (for EBH1	
		remediation works, if any, a Remediation Report (RR) would				& EBH2) and the	
		be prepared and submitted to EPD for agreement prior to				works area	
		commencement of the construction works.				adjacent to the	
						To Kwa Wan	
						Vehicle	
						Examination	
						Centre (for	
						EBH3)	

y Ref		Recommended  Measures & Main	implement	the measure	implement the	
sual		Measures & Main			-	
sual			the		measures?	
sual		Concern to Address	measures?			
/3	Good Site Management	Minimize visual impact	Contractor	Within	Construction	V
	Large temporary stockpiles of excavated material shall			Project Site	Phase	
	be covered with unobtrusive sheeting to prevent dust and					
	dirt spreading to adjacent landscape areas and					
	vegetation, and to create a neat and tidy visual					
	appearance.					
	Construction plant and building material shall be orderly					
	and carefully stored in order to create a neat and tidy					
	visual appearance.					
/4	Screen Hoarding	Minimize visual impact	Contractor	Within	Construction	V
	Decorative screen hoarding should be erected to screen			Project Site	Phase	
	the public from the construction area. It should be					
	designed to be compatible with the existing urban					
	context.					
/5	Lighting Control during Construction	Minimize visual impact	Contractor	Within	Construction	V
	All lighting in the construction site shall be carefully			Project Site	Phase	
	controlled to minimize light pollution and night-time glare					
	to nearby residencies and GIC. The contractor shall					
	consider other security measures, which shall minimize					
	the visual impacts.					
//4		Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.  Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.  Screen Hoarding  Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.  Lighting Control during Construction  All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The contractor shall consider other security measures, which shall minimize	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.  Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.  Screen Hoarding  Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.  Lighting Control during Construction  All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The contractor shall consider other security measures, which shall minimize the visual impacts.	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.  Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.  Screen Hoarding  Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.  Suggested to the construction area and tidy wisual impact and tidy visual appearance.  Lighting Control during Construction  All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The contractor shall consider other security measures, which shall minimize the visual impacts.	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.  Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.  Screen Hoarding  Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.  Minimize visual impact  Contractor  Within  Project Site  Minimize visual impact  Contractor  Within  Project Site  Tontractor  Within  Project Site  Contractor  Within  Project Site  Tontractor  Within  Project Site	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.  Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.  Screen Hoarding  Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.  Minimize visual impact  Contractor  Within  Construction  Project Site  Phase  Contractor  Within  Construction  Project Site  Phase  Minimize visual impact  Contractor  Within  Construction  Project Site  Phase  Contractor  Within  Construction  Project Site  Phase  Contractor  Within  Construction  Project Site  Phase

EIA Ref.	EM&A		Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref			Recommended	implement	the measure	implement the	
				Measures & Main	the		measures?	
				Concern to Address	measures?			
S10.10	LV6	•	Erosion Control	Minimize landscape impact	Contractor	Within	Construction	V
.1			The potential for soil erosion shall be reduced by			Project Site	Phase	
Table			minimizing the extent of vegetation disturbance on site					
10.11			and by providing a protective cover over newly exposed					
			soil.					
S10.10	LV7	•	Tree Protection & Preservation	Minimize landscape	Contractor	Within	Design and	V
.1			Carefully protected during construction. Tree protection	and visual impact		Project Site	Construction	
Table			measures will be detailed at the Tree Removal				Phase	
10.11			Application stage and plans submitted to the relevant					
			Government Department for approval in due course in					
			accordance with ETWB TC no. 3/2006.					
S10.10	LV9	•	Compensatory Planting	Minimize landscape	Contractor	Within	Construction	N/A
.1			For trees unavoidably affected by the Project that have to	and visual impact		Project Site	Phase	
Table			be removed, where practical transplantation will be			and		
10.11			chosen as the top priority method of removal but if this is			designated		
			not possible or practical compensatory planting will be			off-site		
			provided for trees unavoidably felled. All felled trees shall			locations		
			be compensated for by planting trees to the satisfaction					
			of relevant Government departments. Required numbers					
			and locations of compensatory trees shall be determined					
			and agreed separately with Government during the Tree					

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	Log Ref			Recommended	implement	the measure	implement the	
				Measures & Main	the		measures?	
				Concern to Address	measures?			
			Felling Application process under ETWBTC 3/2006.					
			Compensatory tree planting may be incorporated into					
			public open spaces and along roadside amenity areas					
			affected by the construction works and therefore be part					
			of the bigger wider planting plans. Onsite compensation					
			planting is preferred but if necessary, additional receptor					
			sites outside the Works Area shall be agreed separately					
			with Government during the Tree Felling Application					
			process.					
S10.10	LV10	•	Screen Planting	Minimize visual impact	Contractor	Within	Construction	N/A
.1			Tall screen/buffer trees, shrubs and climbers should be	and also enhance		Project Site	Phase	
Table			planted, in so far as is possible, to soften and screen	landscape.				
10.11			proposed structures such as roads and central strip,					
			vertical edges and buildings and to enhance streetscape					
			greening effect where appropriate. Indiscriminate use of					
			trees for screening must be avoided and the principle of					
			'right tree for the right place' must be followed. This detail					
			will be provided at the Detailed Design stage. This					
			measure may additionally form part of the compensatory					
			planting and will improve and create a pleasant					
			pedestrian environment.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
S10.10	LV11	● Green Roof	Minimize landscape	Contractor	Within	Construction	N/A
.1		Roof greening will be established on ventilation and	and visual impact		Project Site	Phase	
Table		administration buildings to reduce exposure to untreated					
10.11		concrete surfaces and particularly mitigate visual impact					
		to VSRs at high levels.					
S10.10	LV12	Reinstatement	Minimize landscape impact	Contractor	Within	Construction	N/A
.1		All works areas, excavated areas and disturbed areas for			Project Site	Phase	
Table		tunnel construction and temporary road diversion or any					
10.11		other proposed works shall be reinstated to former					
		conditions or better, with reasonable landscape treatment					
		and to the satisfaction of the relevant Government					
		departments. (Specific mitigation for disturbance to public					
		open space is detailed separately under LV14)					
S10.10	LV14	Landscape enhancement	Minimize landscape	Contractor	Along tunnel	Construction	N/A
.1		Implement a comprehensive landscape plan to maximize	and visual impact		alignment	phase	
Table		the greening opportunity and create a unique landscape					
10.11		for the project to blend in with the surrounding, including					
		in re- provisioned areas. In particular:					
		- landscape enhancement of re-provisioned Public					
		Transport Interchange;					

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	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
		- landscape deck on tunnel portals;					
		- viaduct planters for trailer planting;					
		- vertical greening of piers and walls with climbers or trailer					
		planting;					
		- roadside planting i.e. planting along central dividers and					
		on road islands e.g. in the middle of roundabouts.					
		(Roadside planting i.e. at the road edge and not in the					
		central divider or road island, and vertical greening may					
		be considered part of Screen Planting).					
		- Purpose-built maintenance access without temporary					
		traffic arrangement must be provided and detailed design					
		of landscape decks and planting, including details of					
		maintenance access locations, will be sent to					
		maintenance and management parties for endorsement					
		and ensures these mitigation measures are feasible.					

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	Log Ref			Recommended	implement	the measure	implement the	
				Measures & Main	the		measures?	
				Concern to Address	measures?			
Cultural He	eritage Impa	ct (C	Construction and Operational Phase)					
S11.4.4	CH1	•	The contractor should be alerted during the construction	To preserve any cultural	Contractor	During	During the	N/A
			on the possibility of locating archaeological remains and	heritage items which may		construction	construction	
			as a precautionary measure, AMO shall be informed	be removed and		works for cut	phase	
			immediately in case of discovery of antiquities or	damaged by the		and cover		
			supposed antiquities in the subject sites.	excavation.		tunnels		
S11.6	CH2	•	The dredging contractor should be alerted during the	To preserve any cultural	Contractor	During	During the	N/A
para 3			construction on the possibility of locating archaeological	heritage items which may		construction	construction	
			remains, such as cannon and AMO shall be informed	be removed and		of	phase	
			immediately in case of discovery of antiquities or	damaged by the		underwater		
			supposed antiquities in the subject areas.	dredging.		tunnel (north		
						of To Kwa		
						Wan		
						Typhoon		
						Shelter)		
S12.6.	CH8	•	A monitoring system for settlement, vibration and tilting	Protect the structure	Contractor	Kowloon City	During the	N/A
1,			will be determined and implemented pending	from damage from		Ferry Pier	construction	
Table			determination of the future grading. A monitoring	construction works		(CKR-13)	phase	
12.2			proposal will be submitted to AMO before					
			commencement of work if a historic building grade is					
			accorded.					
	Asia Ca			1			ı	

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
S12.6.	CH9	No mitigation is required at present. If the public pier is	To be determined	Contractor	Ma Tau Kok	During the	N/A
1,		granted Grade 1, Grade 2 or Grade 3 status, the			Public Pier	construction	
Table		mitigation will be revised to adhere to the requirements			(CKR-16)	phase	
12.2		for protective measures for Graded Historic Buildings					
S12.6.	CH10	A monitoring system for settlement, vibration and tilting	Protect the structure	Contractor	The Kowloon	During the	N/A
1,		will be determined and implemented pending	from damage from		City Vehicular	construction	
Table		determination of the future grading. A monitoring	construction works		Ferry Pier	phase	
12.2		proposal will be submitted to AMO before			(CKR-17)		
		commencement of work if a historic building grade is					
		accorded.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of	When to	Implementation Status
	Log Ref		Recommended	implement	the measure	implement the	
			Measures & Main	the		measures?	
			Concern to Address	measures?			
EM&A Pro	EM&A Project						
S13.2	EM1	An Independent Environmental Checker needs to be	Control EM&A	Highways	All	Construction	V
		employed as per the EM&A Manual.	Performance	Department	construction	stage	
					sites		
S13.2	EM2	1) An Environmental Team needs to be employed as per the	Perform environmental	Highways	All	Construction	V
-13.4		EM&A Manual.	monitoring & auditing	Department /	construction	stage	
		2) Prepare a systematic Environmental Management		Contractor	sites		
		Plan to ensure effective implementation of the mitigation					
		measures.					
		3) An environmental impact monitoring needs to be					
		implementing by the Environmental Team to ensure all					
		the requirements given in the EM&A Manual are fully					
		complied with.					

## Legends:

V = implemented;

X = not implemented;

@ = partially implemented;

N/A = not applicable