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**Appendix A**

**Environmental Mitigation Implementation  
Schedule (EMIS)**

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Appendix A - Environmental Mitigation Implementation Schedule (EMIS)

EIA* Ref.	EM&A Log	Environmental Protection Measures*	Location/Duration of measures/	Implementation Agent	Implementation				Relevant Legislation & Guidelines
					Des	C	O	Dec	
<b>Air Quality</b>									
3.7	A1	Good housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A2	Store cement in shelter with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A3	Cement 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	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A4	Loading, unloading, transfer, handling or storage of bulk cement 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	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A5	Dusty materials (e.g. debris) should be wetted by misting / water-spraying before any loading, unloading, transfer or transport operation	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A6	Any skip hoist for material transport should be fully enclosed by impervious sheeting	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A7	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	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A8	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 to maintain the entire surface wet	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A9	Excavation area should be minimized as far as possible	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A10	Stockpile of dusty materials should not be extended beyond the pedestrian barriers, fencing or traffic cones	Whole construction site	Contractor		✓			EIAO-TM, APCO

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3.7	A11	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, backfilled or reinstated where practicable within 24 hours of the excavation or unloading	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A12	Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A13	Properly fitted side and tail boards are necessary for any vehicle with open load area	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A14	While transporting materials that potentially create dust (e.g. debris), materials should not be loaded higher than side and tail boards, and should be fully covered by tarpaulin or similar materials which extent at least 300 mm over the edges of the side and tail boards to prevent leakage.	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A15	Limit the maximum vehicle speed within the site to 10km/hr	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A16	Haulage and delivery vehicles should be confined to designated roads	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A17	Every main haul road should either be: 1.) paved with concrete and kept clear of dusty materials, or 2.) sprayed or watered to maintain the entire road surface wet	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A18	All on-site unpaved roads should be compacted and kept free of loose materials as possible	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A19	Provide vehicle washing (e.g. wheel washing bay & high pressure water jet where practicable) at every vehicle exit point for cleaning vehicle body and wheels	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A20	The vehicle washing area and the road between washing area and site exit should be paved with concrete, bituminous or other hardcores	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A21	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	Whole construction site	Contractor		✓			EIAO-TM, APCO

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3.7	A22	Dusty materials on every vehicle's body and wheels should be removed in washing area before leaving the site	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A23	Regular maintenance of all plant equipment	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A24	Throttle down or switch off unused machines or machine in intermittent use	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A25	If the site is adjacent to area where accessible to the public (e.g. road and service lane etc.), hoarding of not less than 2.4 m high from ground level should be erected along the adjoining the entire length of that portion of the site boundary, except for a site entrance or exit. The hoarding should be well maintained throughout the construction period.	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A26	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	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A27	Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete 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	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A28	Carry out air quality monitoring throughout the construction period	Selected representative monitoring stations	Contractor		✓			EIAO-TM
3.7	A29	Carry out weekly site inspection to audit the implementation of mitigation measures	Whole construction site	Contractor		✓			EIAO-TM, APCO
3.7	A30	Regular watering once per hour on exposed worksites and haul road with an equivalent intensity of not less than 1.3L/m <sup>3</sup> to achieve 91.7% dust removal efficiency.	Whole construction site	Contractor		✓			EIAO-TM, APCO

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3.8	A31	Locate air intake point of hotel outside the exceedance zone of air pollutant NO <sub>2</sub> (at least 5m above ground).	Parking spaces of MPSC	Future operator			✓		EIAO-TM, APCO
3.8	A32	Adopt the lower limits of parking provisions for retail area, office and hotel in the HKPSG as far as practicable to discourage use of cars. The car parking for coaches, goods vehicles and working/services/emergency vehicles should be less than 300.	Parking spaces of MPSC	Project Proponent/ Contractor	✓				EIAO-TM, APCO, HKPSG
3.8	A33	Provision of electrical vehicle (EV) charging facilities in at least one-third of the car parking spaces for private cars. Provision of EV charging enabling facilities in all car parking spaces provided for private cars.	Parking spaces of MPSC	Project Proponent/ Contractor/ Future operator	✓	✓	✓		EIAO-TM, APCO
3.8	A34	The entry of heavy goods vehicles should avoid peak hours, weekdays from 7 am to 10 am and from 4 pm to 7 pm, except for major events (i.e. more than 20,000 persons).	Parking spaces of MPSC	Future operator			✓		EIAO-TM, APCO
3.8	A35	Give priority to EV to use the car parking spaces as far as practicable.	Parking spaces of MPSC	Future operator			✓		EIAO-TM, APCO
3.8	A36	Electric vehicles (EV) should be used under normal operation for vehicles such as electric saloon cars/coaches, if the operator provides transport services for the staff and/or guests.	Vehicles managed by operator of MPSC	Future operator			✓		EIAO-TM, APCO
<b>Hazard to Life</b>									
No mitigation measure is required									
<b>Noise</b>									
5.9	N1	Adopt good site practice, such as throttle down or switch off equipment unused or intermittently used between works	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N2	Regular maintenance of equipment to prevent noise emission due to impair	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N3	Position mobile noisy equipment in locations away from NSRs and point the noise sources to directions away from NSRs	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N4	Use silencer or muffler for equipment	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N5	Make good use structures for noise screening	Whole construction site	Contractor		✓			NCO, EIAO-TM

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5.9	N6	Use Quality Powered Mechanical Equipment (QPME) and quiet equipment which produces lower noise level	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N7	Erect movable noise barrier of 3m height to shed large plant equipment (e.g. breaker, backhoe & mobile crane) or hand-held items (e.g. poker, wood saw, power rammer & compactor) near low-rise NSR. Where necessary, special design (e.g. with noise absorbing material or bend top) should be adopted. The barrier's length should be at least five times greater than its height, and the minimum surface density is 10 kg/m <sup>2</sup> . Alternatively, acoustic shed, enclosure or silencer (for generator, air compressor and concrete pump) or acoustic mat (for piling) can be adopted.	Whole construction site	Contractor		✓			NCO, EIAO-TM
5.9	N8	Carry out regular site inspection to audit the implementation of mitigation measures	Whole construction site	Contractor		✓			EIAO-TM
5.9	N9	Carry out noise monitoring throughout the construction period	Selected representative monitoring stations	Contractor		✓			EIAO-TM
5.7	N10	No organized events should be held concurrently in the Main Stadium and the Public Sports Ground.	Main Stadium/ Public Sports Ground	Future operator			✓		
5.6.1- 5.6.4 and 5.9	N11	<p><u>Operational Fixed Noise from Main Stadium</u></p> <ul style="list-style-type: none"> <li>- The structure of the stadium shall be soundproofing and complete. The entrances of the stadium shall have special acoustic design (e.g. double acoustic door) such that the soundproofing performance of the structure is not compromised.</li> <li>- There should be no air-gap between the base structure of the stadium and the fixed roof to avoid noise leakage. A retractable roof, which forms part of the design of the Main Stadium, will be closed when needed. Rubber bearing or other devices with similar function shall be used to avoid the noise leakage between the fixed roof and the retractable roof.</li> <li>- A distributed public address system shall be adopted with the loudspeakers directed towards spectator stand.</li> <li>- Acoustic panels shall be attached underneath the fixed roof of the main stadium.</li> </ul>	Main Stadium	Project Proponent	✓				NCO, EIAO-TM, Noise Control Guideline for Music, Singing and Instrument Performing Activities

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5.9	N12	<u>Operational Fixed Noise from Public Sports Ground</u> - A cover shall be built over the spectator stand. - Sound absorption panels shall be attached underneath the entire cover.	Public Sports Ground	Project Proponent	✓				NCO, EIAO-TM
5.9	N13	<u>Operation Noise from Fixed Plants</u> - Partial enclosures and silencers should be installed at the building services and ventilation systems.	Building services and ventilation systems	Project Proponent	✓				NCO, EIAO-TM
5.9	N14	<u>Crowd Noise from Dispersion</u> - Crowd management measures should be adopted for major events (i.e. more than 20,000 persons) which finish at or later than 2230 hours. - Crowd shall be managed and confined to pre-determined routes, which lead the crowd towards the future Kai Tak Station & To Kwa Wan Station. For the crowd moving toward the Kai Tak Station, people will be directed to leave through or along the ISCB. For the dispersal routes toward To Kwa Wan Station, the exit from the Project site is designed near the Sung Wong Toi Park. - The operator should arrange staff members to marshal the dispersion of crowds in an orderly manner from the Main Stadium all the way to the future Kai Tak Station & To Kwa Wan Station. Placards should be used to advise attendees of the events to keep the noise down. No loudspeakers should be used. If any attendees are found to raise the voice or make any noise beyond control even after verbal advice by the marshalling staff, the Police should be called in to restore the situation.	Main Stadium and pre-determined routes which lead the crowd towards the future Kai Tak Station & To Kwa Wan Station	Future operator			✓		NCO, EIAO-TM

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5.11	N15	Operational Noise Monitoring - The operator should appoint an appropriate person to monitor the noise situation during the activities. - The organiser should provide a manned complaint hotline to respond to complaints from nearby NSRs immediately. - Real time noise monitoring at selected locations shall be conducted for any music event held in the Main Stadium during daytime or evening time periods for the first 3 years of operation. After the 3-year monitoring period, a review of the findings of the monitoring will be conducted to determine whether further monitoring will be required. The corresponding actions shall follow the Event and Action Plan in the EM&A Manual.	Main Stadium/ Public Sports Ground	Future operator/ Project Proponent			✓		EIAO-TM
5.9	N/A	<u>Planned NSRs (TPN12, TPN13)</u> Planning applications are required for developments on CDA sites and are subject to Town Planning Board approval. The future developers of the CDA sites would need to carry out an Environmental Assessment (EA) to support the planning application. The EA would include the required mitigation measures so that all noise sensitive receivers at the sites would not be exposed to road traffic noise levels above the respective criterion.	The CDA sites facing Sung Wong Toi Road	Applicants of the Planning Application	✓				HKPSG
5.9	N/A	<u>Planned NSRs (TPN14)</u> The Housing Department would carry out an environmental assessment study (EAS) for the proposed development at the detailed design stage. The EAS would include the required mitigation measures so that all residential flats at the site would not be exposed to road traffic noise levels above the 70 dB(A) criterion.	The planned Housing Site facing Sung Wong Toi Road	The Housing Department	✓				HKPSG
<b>Water Quality</b>									
6.7	WQ1	Practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.	Whole construction site	Contractor		✓			WPCO, EIAO-TM



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6.7	WQ2	Install perimeter channels in the works areas to intercept runoff from boundary prior to the commencement of any earthwork	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ3	To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ4	Drainage channels are required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance to ensure the normal operation of these facilities throughout the construction period.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ5	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ6	Minimum distances of 100 m should be maintained between the discharge points of construction site runoff and the existing WSD saltwater intake and EMSD cooling water intake.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ7	<p>The following good site measures should be adopted for the use of the existing barging facilities being operated by the MTR SCL Project:</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material.</li> <li>- Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> <li>- Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water.</li> <li>- Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.</li> </ul>	Whole construction site	Contractor		✓			WPCO, EIAO-TM

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6.7	WQ8	The runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ9	Reuse and recycling of the treated effluent from construction site runoff.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ10	Weekly site audit should be carried out to check the implementation status of the recommended water quality impact mitigation measures throughout construction period.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ11	The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ12	Any exposed soil surfaces should be properly protected to minimise dust emission.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ13	In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ14	Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ15	The stockpiles of materials should be placed at locations away from any stream courses so as to avoid releasing materials into the water bodies.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ16	Final surfaces of earthworks should be compacted and protected by permanent work.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ17	Haul roads should be paved with concrete and the temporary access roads protected using crushed stone or gravel, wherever practicable.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ18	Wheel washing facilities should be provided at all site exits to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ19	Good site practices should be adopted to keep the site dry and tidy, such as clean the rubbish and litter on the construction sites.	Whole construction site	Contractor		✓			WPCO, EIAO-TM

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6.7	WQ20	Adequate temporary site drainage and pumping should be provided, if necessary.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ21	Provide sufficient temporary toilets in the works areas. The toilet facilities should be more than 30 m from any watercourse. A licensed waste collector should be deployed to clean the temporary toilets on a regular basis.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ22	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ23	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ24	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ25	Clean the construction sites on a regular basis.	Whole construction site	Contractor		✓			WPCO, EIAO-TM
6.7	WQ26	Oil interceptor in car parking area shall be designed and constructed according to Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers, APP-46 (PNAP 124)	Car parking Area	Project Proponent	✓	✓	✓		WPCO, EIAO-TM, PNAP 124
6.7	WQ27	The chemicals/fuels to be stored on site will be limited to small essential quantities at any one time. Any chemicals that may be carried away by water shall be contained in specific containers and cabinets under shelter and protected from weather. Any liquid chemical or fuel shall be contained in hard standing bunded area. The operator shall ensure that only staff trained in the use and handling the specific chemicals for specific tasks are allowed to handle the relevant chemicals.	Whole site	Future operator			✓		WPCO, EIAO-TM

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6.7	WQ28	Good practice should be adopted to clean the rubbish and litter on the sites so as to prevent rubbish and litter from spreading from the site area. It is recommended to clean the Project Site on a regular basis. Management guidelines shall be provided to the management team practically to separate and remove solids from discharging stormwater system.	Whole Project site	Future operator			✓		WPCO, EIAO-TM
6.7	WQ29	For use artificial turf, subject to design and operation considerations, practically no mitigation measures are required. The duration of the natural turf on the pitch should be minimized in case of using occasional natural turf during major events and no pesticides and fertilizers should be used during the period under normal circumstances. Intercept the surface water from the turf that may contain residual fertilizers and pesticides for reuse or treatment if usage of fertilizers and pesticides is needed.	Area with Turf	Future Operator			✓		WPCO, EIAO-TM
6.7	WQ30	The future management of the MPSC should follow Pesticide Ordinance (Cap 133), Pesticide Regulations (Cap 133A), A Guide to Labeling of Pesticides, and Safety Guidelines for Storage of Pesticides issued by AFCD and the LCSD horticultural guidelines on use of turf management and consult AFCD on pesticides used.	Area with Natural Turf	Future operator			✓		Pesticide Ordinance (Cap 133), Pesticide Regulations (Cap 133A), A Guide to Labeling of Pesticides, and Safety Guidelines for Storage of Pesticides issued by AFCD and the LCSD horticultural guidelines on use of turf management
6.7	WQ31	Application of chemicals, if necessary, will be confined to the approved list and the dosage as well as the frequency and intensity should be well justified according to genuine operational needs.	Area with Natural Turf	Future operator			✓		WPCO, EIAO-TM
6.7	WQ32	The dosage of pesticides and fertilizers shall be controlled to limit any residual dosage to less than 10%.	Area with Natural Turf	Future operator			✓		WPCO, EIAO-TM

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6.7	WQ33	Provide two sequential storage tanks to contain surface water with residual fertilizers and pesticides and third holding tank for incidental rainstorm	Area with Natural Turf	Project Proponent, Contractor, Future operator	✓	✓	✓		WPCO, EIAO-TM
6.7	WQ34	A Stormwater Re-use Management Plan is recommended for the operator including: 1) Healthy use of fertilizers and pesticides, and safe operation of the chemical disposal. 2) Operation and maintenance of water storage/holding tanks. 3) Frequency of testing and sampling, and appropriate testing parameters. 4) Alert levels and action limit levels. 5) Emergency measures.	Area with Natural Turf	Future operator			✓		WPCO, EIAO-TM
6.7	WQ35	The storage and holding tanks shall be emptied prior to application of fertilizers and pesticides. In general, the intercepted surface water may be recycled by irrigation into the football pitch.	Area with Natural Turf	Future operator			✓		WPCO, EIAO-TM
6.11	WQ36	Encourage recycling of stormwater for irrigation and flushing	Sewerage and Stormwater System	Future operator			✓		WPCO, EIAO-TM
6.11	WQ37	Cleansing detergents shall not be used for washing the spectator seats.	Spectator Seats	Future operator			✓		WPCO, EIAO-TM
<b>Sewerage and Sewage Treatment Implications</b>									
7.2	SS1	Implementation of Sewer No. 1 and Sewer No.2 as proposed in Sections 7.2.2 - 7.2.3 of the EIA Report	As per Figure 7-2-2 of EIA Report	Contractor		✓			EIAO-TM
<b>Waste Management</b>									
8.5	WM1	Inert C&D materials (or public fills) will be used to form the ramps and other filling area as far as civil engineering design permits.	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM
8.5	WM2	Prepare a Construction and Demolition Material Management Plan (C&DMMP) to encourage C&D material recycling and waste minimization and submit the Plan to the Public Fill Committee for approval.	Whole construction site	Contractor	✓				Waste Disposal Ordinance, EIAO-TM
8.5	WM3	The contractor should formulate waste management measures on waste minimization, storage, handling and disposal in a Waste Management Plan as part of Environmental Management Plan.	Whole construction site	Contractor		✓			Environment, Transport and Works Bureau Technical Circular (Works) No. 19/2005

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8.5	WM4	Adopt good site practice as follows:	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM, Practice Note for Registered Contractors No. 17
		- Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures							
		- Provide sufficient waste collection points and regular removal							
		- Cover waste materials with tarpaulin or in enclosure during transportation							
		- Maintain drainage systems, sumps and oil interceptors							
- Sort out chemical waste for proper handling and treatment onsite or offsite									
8.5	WM5	Adopt waste reduction measures as follows:	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM, Practice Note for Registered Contractors No. 17
		- Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans.) Remove waste from the Site for sorting once generated if no suitable space can be identified.							
		- Allocate area for proper storage of construction materials to prevent contamination							
		- Minimize wastage through careful planning and avoiding over-purchase of construction materials							
8.5	WM6	Store waste materials properly as follows:	Whole construction site	Contractor		✓			ProPECC PN 1/94, EIAO-TM, Practice Note for Registered Contractors No. 17
		- Avoid contamination by proper handling and storing waste							
		- Prevent erosion by covering waste							
		- Apply water spray on excavated materials							
		- Maintain and clean storage area regularly							
- Sort and stockpile different materials at designated location to enhance reuse									

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					Des	C	O	Dec	
8.5	WM7	Apply for relevant waste disposal permits in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), Dumping at Sea Ordinance (Cap. 466).	Whole construction site	Contractor		✓			Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), Dumping at Sea Ordinance (Cap. 466), EIAO-TM
8.5	WM8	Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM
8.5	WM9	Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, Waste Disposal Ordinance, EIAO-TM
8.5	WM10	Reduce water content in wet spoil generated from piling work by mixing with dry materials. Only dispose treated spoil with less than 25% dry density to Public Fill Reception Facilities	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM
8.5	WM11	Dispose dry waste or waste with less than 70% water content by weight to landfill	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM

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8.5	WM12	<p>Follow the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</i> as follows:</p> <ul style="list-style-type: none"> <li>- Store chemical wastes with suitable containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport</li> <li>- Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation</li> <li>- The container capacity should be smaller than 450 litres unless agreed by the EPD</li> </ul>	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
8.5	WM13	<p>Comply with the requirement of the chemical storage area:</p> <ul style="list-style-type: none"> <li>- Store only chemical waste and label clearly the chemical characters of the waste</li> <li>- Have at least 3 sides enclosed and protected from rainfall with cover</li> <li>- Provide sufficient ventilation</li> <li>- Have impermeable floor and has bunds to contain 110% of the capacity of the largest container or 20% of the total volume of the stored waste in the area, whichever is larger</li> <li>- Adequately spaced incompatible materials</li> </ul>	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
8.5	WM14	Transfer used lubricants, waste oils and other chemicals to oil recycling companies, if possible, and empty oil drums for reuse or refill. No direct or indirect discharge is permitted	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
8.5	WM15	Hire licensed chemical waste disposal contractors for waste collection and removal. Dispose chemical waste at the approved Chemical Waste Treatment Centre at Tsing Yi or other licensed facility	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
8.5	WM16	Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away	Whole construction site	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM



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8.5	WM17	The hauling of C&D materials shall follow established environmental mitigation measures as stated in Practice Note for Registered Contractors No. 17 “Control of Environmental Nuisance from Construction Sites” issued by the Buildings Department	Whole construction site	Contractor		✓			Practice Note for Registered Contractors No. 17 “Control of Environmental Nuisance from Construction Sites”, BD
8.5	WM18	Provide recycling bins for sorting out recyclables for collection by recycling companies. Non-recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance.	Whole construction site	Contractor		✓			Waste Disposal Ordinance, EIAO-TM
8.5	WM19	Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling	Whole construction site	Contractor		✓			EIAO-TM
8.5	WM20	Bentonite slurry which will not be reused shall be disposed of from the Site as soon as possible. Residual used dewatered bentonite slurry should be disposed to a public filling area and liquid bentonite slurry if mixed with inert fill material should be disposed to a public filling area.	Whole construction site	Contractor		✓			EIAO-TM

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8.5	WM21	If chemical wastes were to be produced at the construction site, the Contractor would 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.	Whole construction site	Contractor			✓		Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal (Chemical Waste) (General) Regulation
		Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.							
		Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the waste such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.							
		The Contractor shall use a licensed collector to transport the chemical wastes.							
		The licensed collector shall deliver the waste to the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation							
8.5	WM22	Carry out weekly site inspection to check the implementation status of the recommended waste management measures.	Whole Construction site	Contractor			✓		Waste Disposal Ordinance, EIAO-TM
8.5	WM23	Minimize unnecessary waste generation by means of promotion materials, such as wider use of information technology and announcements	Whole Project Site	Future operator				✓	Waste Disposal Ordinance, EIAO-TM
8.5	WM24	Encourage spectators to bring along personal containers for food and drinks	Whole Project Site	Future operator				✓	Waste Disposal Ordinance, EIAO-TM
8.5	WM25	Sufficient recycling containers will be provided at suitable locations to encourage recycling of such waste aluminium cans, plastics and waste paper.	Whole Project Site	Future operator				✓	Waste Disposal Ordinance, EIAO-TM
8.5	WM26	Adequate solid waste storage facilities shall be provided	Whole Project Site	Future operator				✓	Waste Disposal Ordinance, EIAO-TM, PNAP No.98
<b>Land Contamination</b>									
No mitigation measure is required									

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<b>Ecology</b>									
10.11	E1	Erection of hoarding, fencing or provision of clear demarcation of work zone	Whole construction site	Contractor		✓			EIAO-TM
10.11	E2	Designate areas for placement of equipment, building materials and wastes away from drainage channels	Whole construction site	Contractor		✓			EIAO-TM
10.11	E3	Carry out weekly site inspection to check the implementation status and the effectiveness of the proposed mitigation measures	Whole construction site	Contractor		✓			EIAO-TM
<b>Landscape and Visual</b>									
Table 11-22	LV1	Construction Lighting Control - All security floodlights for construction sites should be equipped with adjustable shields, frosted diffusers and reflective covers, and be controlled to minimize light pollution and night-time glare to the visual sensitive receivers (VSRs).	Whole construction site	Contractor		✓			BS EN 12464-2:2007
Table 11-22	LV2	Temporary Landscape Treatments - Including vertical greening, pot planting and application of green roofing to site offices, Hydroseeding of site formation areas and short term greening of site boundaries and land not immediately developed.	Whole construction site	Contractor		✓			EIAO-TM
Table 11-22	LV3	Decoration of Hoarding - Erection of screen hoardings should be designed appropriately to be compatible with the existing urban context, either brightly and imaginatively or with visually unobtrusive design and colours where more appropriate.	Whole construction site	Contractor		✓			EIAO-TM
11.9.47	LV4	All security floodlights for construction sites shall be equipped with adjustable shield, frosted diffusers and reflective covers, and be carefully controlled to minimize light pollution and night-time glare to nearby receivers	Whole construction site	Contractor		✓			EIAO-TM
11.4.3	LV5	Site inspection should be undertaken once every two weeks.	Whole construction site	Contractor		✓			EIAO-TM
Table 11-23	LV6	Greening of Walkways, Ramps and Decks - Greening shall be incorporated into at-grade areas and as raised planting areas on pedestrian walkways, ramps and decks.	Landscape deck and connections to surrounding footpath network	Project Proponent/ Future operator	✓		✓		Greening Guidelines, GLTMS of DEVB

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Table 11-23	LV7	Green Roofs and Vertical Greening - Green roofs and vertical greening should be provided to all built structures where feasible and opportunities should be maximised for incorporation on covered walkways and shade structures.	External walls and roofs of built structures	Project Proponent/ Future operator	✓		✓		DEVB TC No.3/2012 – Site Coverage of Greenery for Government Building Projects
Table 11-23	LV8	Compensatory Tree Planting - A new parkland area is created in the project development to be used for the implementation of compensatory tree planting to offset the net loss of key landscape resources. It is recommended that 340 trees be planted in this regard and a compensatory tree planting proposal outlining the locations of tree compensation will be submitted separately in seeking relevant government department’s approval in accordance with DEVB TC No.7/2015.	Designated planting areas	Project Proponent/ Contractor	✓	✓			DEVB TC No.7/2015
Table 11-23	LV9	Responsive Building Design - All above ground structures, including, stadia, hotel and ancillary buildings, shall be sensitively designed in a manner that responds to the existing and planned urban context in terms of scale, height and bulk (visual weight) as well as use of appropriate building materials and colour to create a cohesive visual mass. Subdued tones should be considered for the colour palette with non-reflective finishes to reduce glare effect.	All structures	Project Proponent	✓				EIAO-TM
Table 11-23	LV10	Integration of Development Boundaries - The project boundaries shall be without fences or barriers, providing seamless physical and visual integration with the surrounding public spaces. Careful consistency of levels and materials shall create and indefinite development edge, integrating the development into the future Song Wong Toi Park, the Station Square Open Space Corridor and the Metro Park.	Project boundaries	Project Proponent/ Future operator	✓		✓		EIAO-TM
Table 11-23	LV11	Integration with Dining Cove and Waterfront Promenade - Careful design consideration of the interface of the raised stadium deck at 13MPD with that of the Waterfront Promenade at 5MPD shall be undertaken. Visual articulation and physical penetration of the development at promenade level shall be created by avoiding a continuous boundary wall. Furthermore integrated design of the adjacent proposed retail development shall ensure visual cohesion and an improved character setting.	Promenade interface and Hotel	Project Proponent/ Future operator	✓		✓		EIAO-TM

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Table 11-23	LV12	Light Penetration Under Deck - The landscape deck shall be cut back and light wells incorporated to maximise natural light penetration to at-grade covered areas under the deck, to allow for enhanced visual amenity, improved utilisation of ground space and significant incorporation of both horizontal and vertical greening at ground level.	Landscape deck	Project Proponent	✓				EIAO-TM
Table 11-23	LV13	Urban Park - Incorporation of a new park within the development area shall facilitate the visual corridors outlined by the urban design framework to create an urban light well, protecting longer views and providing visual amenity to nearby receivers. The park shall maximise tree and shrub planting with emphasis on incorporating native species and integrate facilities primarily for the regular use of adjacent residential communities.	Designated area	Project Proponent/ Future operator	✓		✓		Greening Guidelines, GLTMS of DEVB
Table 11-23	LV14	Bespoke Amenity Area Lighting - Development of a bespoke project amenity area lighting scheme shall be incorporated that minimises general area light pollution, provides thematic lighting, responds to user demand intensity and minimises pavement obstruction and visual clutter. The following shall be practically considered: • mounting height and direction of fixtures to avoid sensitive receivers; • reflectance so as to avoid glare effect; • incorporation of low level down lighting integrated onto building facades, walls and structures; • utilising area movement sensors; • programming of operation for minimised utilisation.	Site wide	Project Proponent/ Future operator	✓		✓		EIAO-TM

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11.9.42	LV15	<p>Responsive Lighting Design and Disposition</p> <ul style="list-style-type: none"> <li>- Carry out the external landscape lighting design with reference to (1) Lighting Guide 4: Sports Lighting, Chartered Institution of Building Services Engineers; (2) BS EN 12193:2007 Light and Lighting-Sports Lighting, British Standards Institution and (3) Guidance Notes for the Reduction of Obtrusive Light, The Institution of Lighting Professionals as recommended in the Building Services Branch Circular No. 10 of 2011 by Architectural Services Department</li> <li>- Design Considerations for Outdoor Sports Venues Lighting and other applicable relevant international standards.</li> <li>- Select luminaries and fittings type to minimise direct view of the light source (from the sides) and restrict side dispersion.</li> <li>- Adopt a strategy to use lamp posts of lower height and with less interval spacing to reduce the lighting output from each lamp while maintaining the minimum luminance requirement for the open space.</li> <li>- Lowering of the lighting output (i.e. luminous flux)</li> <li>- All proposed hard structures should be sensitively designed in a manner that responds to the existing and planned landscape context, and minimizes potential adverse glare impacts.</li> <li>- The structural design should seek to reduce the apparent visual mass through the use of natural materials such as wooden frame and semi-transparent panels.</li> <li>- subdued tones should be considered for the colour palette with non-reflective finishes</li> <li>- Reduce the direct sight of the luminaries from the observers, e.g. through planting of trees within the MPSC.</li> </ul>	Site wide	Project Proponent/ Future operator	✓		✓		EIAO-TM
Table 11-23	LV16	<p>Submit detailed landscape proposals and details of architectural design, chromatic treatment and lighting, for all above ground structures, including pedestrian links, stadium connections and ancillary buildings to Planning Department for review to demonstrate that they would be sensibly designed in a manner that responds to the existing urban context and minimize any residual landscape and visual impact.</p>	Site wide	Project Proponent/ Future operator	✓		✓		EIAO-TM

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11.11.5	LV17	Site inspection should be undertaken once every two months during the 12 month establishment period.	Site wide	Project Proponent/ Future operator			✓		EIAO-TM
<b>Cultural Heritage</b>									
No mitigation measure is required									

\* All recommendations and requirements resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project.

\*\* Des=Design; C=Construction; O=Operation; Dec=Decommissioning