



## Installation of the Proposed 132kV Cable Circuit Connecting with Ting Lai Road Substation and Pak Shek Kok Substation

### *Twenty-first Monthly Audit Report*

21 August 2012

#### **Environmental Resources Management**

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CLP Power Hong Kong Limited

**Installation of the Proposed 132kV Cable Circuit Connecting with Ting  
Lai Road Substation and Pak Shek Kok Substation**

21 August 2012

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For and on behalf of  
ERM-Hong Kong, Limited

Approved by:



Dr Robin Kennish

Position: Director

Date: 21 August 2012

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## EXECUTIVE SUMMARY

The construction works for the Proposed 132kV Cable Circuit Connecting with Ting Lai Road Substation and Pak Shek Kok Substation commenced on 3 November 2010. This is the twenty-first monthly Site Audit Report presenting the EM&A works carried out during the period from 1 July to 31 July 2012.

### Summary of construction works undertaken during reporting period

The major construction works undertaken during the reporting month include road surface breaking and excavation, cable duct laying, no-dig pit construction at Tai Po Kau outlet, backfilling and reinstatement.

### Environmental Monitoring and Implementation Status of Environmental Protection Requirements

Monitoring for air, noise, water quality, waste management and cultural heritage is not required. The Contractor has implemented the mitigation measures recommended in the PP and environmental requirements stated in the EP, where applicable.

### Environmental Site Auditing

The monthly joint environmental site audit was carried out by the representatives of the Contractors and Independent Checker. Details of the audit findings are presented in *Section 5*.

### Environmental Non-compliance

No non-compliance event was recorded during the reporting period.

No environmental complaint and summons was received in this reporting period.

### Future Key Issues

Works to be undertaken in the next reporting month mainly include backfilling and reinstatement.

Potential environmental impacts arising from the construction activities in the next reporting period are expected to be associated with dust, site runoff and waste management.

ERM-Hong Kong, Limited (ERM) was appointed by CLP Power Limited (CLP) as the Independent Checker to audit the implementation of all mitigation measures recommended in the Project Profile (PP) (Register No. PP-417/2010) for the Proposed 132kV Cable Circuit Connecting with Ting Lai Road Substation and Pak Shek Kok Substation (the Project).

### **1.1 PURPOSE OF THE REPORT**

This is the twenty-first Monthly Audit Report which summarises the audit findings for the period from **1 July 2012** to **31 July 2012**.

### **1.2 STRUCTURE OF THE REPORT**

The structure of the report is as follows:

Section 1 : **Introduction**

Details the scope and structure of the report.

Section 2 : **Project Information**

Summarises background and scope of the Project, site description, construction programme, the construction works undertaken during the reporting period and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : **Environmental Monitoring**

Summarises the monitoring programmes as recommended in the PP and the monitoring undertaken during the reporting period.

Section 4 : **Implementation Status on Environmental Mitigation Measures**

Summarises the implementation of environmental protection measures during the reporting period.

Section 5 : **Environmental Site Audit**

Summarises the audit findings of the monthly site inspection undertaken during the reporting period.

Section 6 : **Environmental Non-conformance**

Summarises any environmental complaints and environmental summons received within the reporting period

Section 7 : **Future Key Issues**

Summarises the key construction activities and monitoring to be undertaken for the next reporting period.

Section 8 : **Conclusions**

## 2 PROJECT INFORMATION

### 2.1 BACKGROUND

A new 132kV cable circuit connecting Ting Lai Road Substation and Pak Shek Kok Substation will be established in order to meet the increasing electricity demand and to strengthen the electricity capacity in the Tai Po and Pak Shek Kok areas. The proposed 132kV cable circuit will be installed in eleven sections (S1 – S11) along the existing footpaths, cycle tracks and carriageways running alongside Tolo Highway (see *Annex A* for project location). The total alignment length is approximately 5km.

The whole alignment will be laid by trenching method (and will make use of existing ducts if available) except for the two no-dig cable duct crossings at Lam Tsuen River Channel and underneath the Tai Po Kau outlet within the Conservation Area. Construction activities will involve:

- Site preparation and clearance
- Road surface breaking (where applicable) and excavation
- Cable duct/cable installation
- No-dig pit construction and pipe jacking
- Backfilling and reinstatement

The potential environmental impacts of the Project have been presented in the PP “*The Proposed 132kV Cable Circuit Connecting with Ting Lai Road Substation and Pak Shek Kok Substation*” (Register No. PP-417/2010), and an Environmental Permit (EP-398/2010) (EP) for the Project was granted on 21 September 2010. Under the requirements of Condition 2.2 of the EP, the implementation of all mitigation measures recommended in the PP shall be audited by an independent checker.

The construction works of the Project commenced on 3 November 2010 <sup>(1)</sup> and were scheduled to be completed by mid 2012. An updated construction programme is shown in *Annex B*.

### 2.2 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken during this reporting period is shown in *Table 2.1*.

(1) It should be noted that the commencement date refers to all sections except Section 8 within the Conservation Area. Construction works within the Conservation Area commenced since January 2011.

**Table 2.1 Summary of Construction Activities Undertaken during the Reporting Period**

Construction Activities Undertaken
<ul style="list-style-type: none"> <li>Backfilling and Reinstatement (CA Zone).</li> </ul>

**2.3 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS**

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

**Table 2.2 Summary of Current Environmental Licensing, Notification and Permit Status**

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-398/2010	Throughout the construction and operation of the Project	Permit granted on 21 September 2010
Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation	309988	--	--
Waste Disposal Chits	RE01011	--	--
Effluent Discharge Licence	WT00006441-2010	4 May 2010 - 30 Apr 2015 <sup>(1)</sup>	Discharge of industrial trade effluent into communal storm water drain for Lam Tsuen River cable duct crossing of the Project
Chemical Waste Producer Registration	--	N/A	Chemical waste types: spent paint, acid, alkaline, adhesive, diesel fuel, lubricating oil and bitumen.
Construction Noise Permit	GW-RN0293-12	3 July 2012 -2 Dec 2012	Permits granted on using of water pump for 00:00-24:00 hrs on general holidays (including Sundays), 00:00-07:00 hrs and 19:00-24:00 hrs on any day not being a general holiday for Lam Tsuen River cable duct crossing of the Project

Note: (1) The Effluent Discharge Licence also applies to other projects in the same region.



### 3 *ENVIRONMENTAL MONITORING*

#### 3.1 *AIR, NOISE AND WATER QUALITY*

Monitoring for air, noise and water quality is not required for the Project. The mitigation measures recommended in the PP have been implemented by the Contractor and checked during the site inspection.

#### 3.2 *ECOLOGY*

Ecological monitoring is not required for the Project. The mitigation measures recommended in the PP have been implemented by the Contractor and checked during the site inspection.

#### 3.3 *WASTE MANAGEMENT*

Waste from the site formation works included mainly inert construction and demolition (C&D) materials and non-inert C&D wastes. The mitigation measures recommended in the PP have been implemented by the Contractor and checked during the site inspection.

#### 3.4 *CULTURAL HERITAGE*

Monitoring for cultural heritage is not required for the Project.

## **IMPLEMENTATION STATUS OF ENVIRONMENTAL PROTECTION REQUIREMENTS**

The Contractor has implemented the environmental mitigation measures recommended in the PP and the requirements stated in the EP, where applicable. The implementation status of environmental protection and pollution control/mitigation measures is summarised in *Annex C*. Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

**Table 4.1** *Status of Required Submission*

<b>EP Condition</b>	<b>Approval of Submission</b>	<b>Approval Date</b>
Condition 2.4	Approval of Revised Landscape Plan for Construction Works within the Conservation Area	16 February 2011

Monthly site inspection was carried out by the representatives of the Contractors and the Independent Checker. During the reporting period, site inspection was conducted on 20 July 2011.

This month's inspection focused on Section 8 as the construction works in all the other ten sections have been completed. In general the works were being conducted according to good construction site practice with no non-compliance recorded during the audit.

**6 ENVIRONMENTAL NON-CONFORMANCE**

**6.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE**

No non-compliance event was recorded during the reporting period.

**6.2 SUMMARY OF ENVIRONMENTAL COMPLAINT**

No complaint was received during the reporting period.

**6.3 SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION**

No summons was received during the reporting period.

7 *FUTURE KEY ISSUES*

7.1 *KEY ISSUES FOR THE NEXT REPORTING MONTH*

Works to be taken for the next reporting month are summarised in *Table 7.1*.

*Table 7.1 Construction Works To Be Taken For the Next Reporting Month*

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**Work to be taken**

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- Backfilling and Reinstatement
- 

Potential environmental impacts arising from the above construction activities are mainly associated with dust, site runoff and waste management.

7.2 *MONITORING SCHEDULE FOR THE NEXT REPORTING MONTH*

Site inspection will be undertaken in accordance with the EP condition.

**CONCLUSIONS**

The Audit Report presents the EM&A works undertaken during the period from 1 July 2011 to 31 July 2011 in accordance with the recommendations of the PP and the requirements of the EP (no. EP-398/2010).

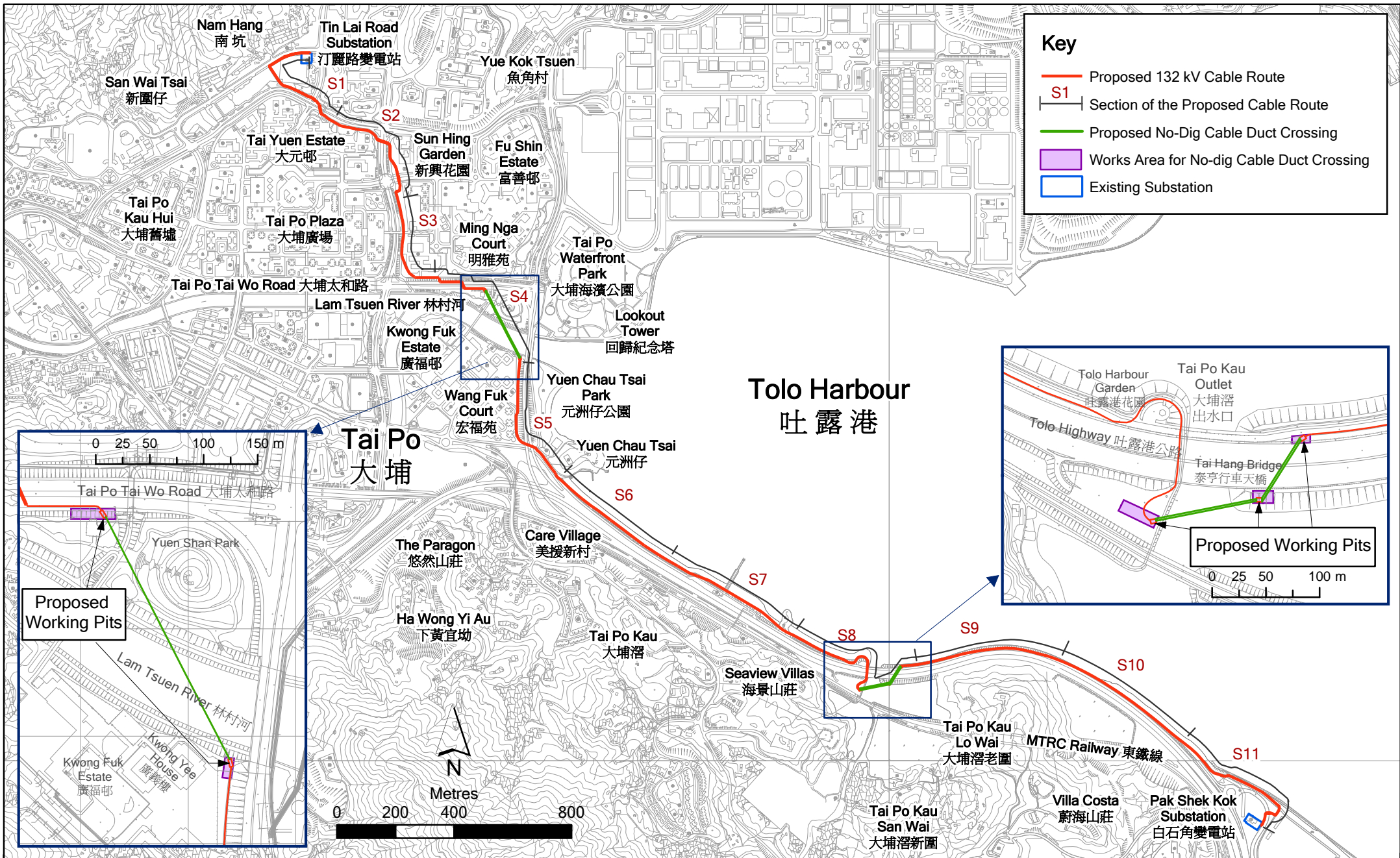
No non-compliance event was recorded during the reporting period.

There was no complaint and summons/prosecution received during the reporting period.

The Independent Checker will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Annex A

## Project Location



Annex A

Installation of the Proposed 132 kV Cable Circuit Connecting with  
Tin Lai Road Substation and Pak Shek Kok Substation

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Date: 29/11/2010

Environmental  
Resources  
Management





Annex B

## Updated Construction Programme

**Annex B**  
**Updated Construction Programme**

Item	Activity Description	2012	2012
		June	July
<b>Section 1</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 2</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Reinstatement		
<b>Section 3</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 4</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	No-Dig Pit Construction		
6	Pipe Jacking		
7	Backfilling & Reinstatement		
<b>Section 5</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 6</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 7</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 8</b>			
1	Site Preparation & Clearance		
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	No-Dig Pit Construction (CA Zone)		
6	Pipe Jacking (CA Zone)		
7	Backfilling & Reinstatement		
<b>Section 9</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 10</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		
<b>Section 11</b>			
1	Site Preparation & Clearance	<i>Works Completed</i>	
2	Road Surface Breaking and Excavation		
3	Duct Laying		
4	Cable Laying		
5	Backfilling & Reinstatement		

Annex C

## Implementation Status of Environmental Protection/ Mitigation Measures

### Annex C Implementation Status of Environmental Protection/ Mitigation Measures

Environmental Protection Measures	Location	Implementation Agent	Implementation Status
<b>Construction Air Quality</b>			
The areas for temporary stockpiling of excavated materials should be provided with enclosed shelters.	Stockpile zone	Contractor	√
Stockpile of dusty material outside the cavern and the stockpile zone shelters should be covered entirely with impervious sheeting or sprayed with water or a dust suppression chemical to keep the entire surface wet.	Work areas	Contractor	√
Skip hoist for material transport should be totally enclosed by impervious sheeting.	Work areas	Contractor	N/A
Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.	Work areas	Contractor	N/A
The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	Work areas	Contractor	N/A
Where a site boundary adjoins a road, streets or other accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit.	Work areas	Contractor	√
Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides.	Work areas	Contractor	N/A
All dusty materials should be sheltered, covered entirely or sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	Work areas	Contractor	√
The height from which excavated materials dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	Work areas	Contractor	N/A
The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	Work areas	Contractor	N/A
Diesel-powered equipment should be properly maintained to control gaseous emissions.	Work areas	Contractor	√
Regular watering should be provided to the unpaved haul road and dusty material.	All unpaved haul roads, bulldozed material, exposed site areas	Contractor	√
Excavation / earth moving operation should be sprayed with water.	Work areas	Contractor	√
<b>Construction Noise</b>			

Remarks:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable

<b>Environmental Protection Measures</b>	<b>Location</b>	<b>Implementation Agent</b>	<b>Implementation Status</b>
Idling PME should be switched off.	Work areas	Contractor	√
Noisy PME should be placed inside the cavern or sited as far away from the NSRs as practicable.	Work areas	Contractor	√
Quiet PME should be used as far as practicable.	Work areas	Contractor	√
Stored materials and temporary structures, if applicable, should be sited in practical locations to screen NSRs from noisy on-site construction activities.	Work areas	Contractor	√
Work sequences should be scheduled to avoid the simultaneous use of noisy PME in close proximity to NSRs.	Work areas	Contractor	√
All plant and equipment to be used on the construction site shall be properly maintained in good operating condition.	All areas	Contractor	√
<b>Construction Water Quality</b>			
Discharge license for discharge of effluent from the construction site should be applied under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS.	-	Contractor	√
Provide proper sewage treatment and disposal facilities in the form of chemical toilets for site staff and workers.	Work areas	Contractor	√
Open stockpiles of construction material on the work site should be covered with tarpaulin or similar fabric during rainstorms.	Work areas	Contractor	√
Treatment facility (e.g. WetSep) should be provided on site to treat all tunneling groundwater.	Work areas	Contractor	√
All runoff should be properly collected and treated prior to discharge to the stormwater drain.	Work areas	Contractor	√
Peripheral interceptor drains around the site boundary should be provided to segregate surface runoff.	Site boundary	Contractor	√
Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	Work areas	Contractor	√
Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Work areas	Contractor	√

Remarks:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable

<b>Environmental Protection Measures</b>	<b>Location</b>	<b>Implementation Agent</b>	<b>Implementation Status</b>
Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Work areas	Contractor	√
Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Work areas	Contractor	N/A
Water used in ground boring and drilling or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Work areas	Contractor	√
A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Wheel washing bay	Contractor	N/A
No-dig pipe jacking method shall be used for construction of the underwater cable duct within the Conservation Area to avoid water quality impact	Section 8 within Conservation Area	Contractor	√
<b>Construction Waste</b>			
Contractor should register as a chemical waste producer if chemical wastes would be produced from the construction activities.	-	Contractor	√
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.	Work areas	Contractor	√
The Contractor shall use a licensed collector to transport and dispose of the chemical wastes in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work areas	Contractor	√
Training to site personnel in proper waste management and chemical handling procedures should be provided.	Work areas	Contractor	√
Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors should be conducted.	Work areas	Contractor	√

Remarks:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable

Environmental Protection Measures	Location	Implementation Agent	Implementation Status
Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers should be implemented.	Work areas	Contractor	√
Sufficient waste disposal points and regular collection of waste should be provided.	Work areas	Contractor	√
Sorting of demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (ie soil, broken concrete, metal, etc) should be implemented.	All areas	Contractor	√
Different types of waste should be segregate and stored in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	Work areas	Contractor	√
Encourage collection of aluminum cans by individual collectors by providing separate labeled bins to enable this waste to be segregated from other general refuse generated by the work force.	Work areas	Contractor	N/A
Proper storage and site practices should be implemented to minimize the potential for damage to contamination of construction materials.	Work areas	Contractor	√
Construction materials should be carefully planned and stocked to minimize amount of waste generated and avoid unnecessary generation of waste.	Work areas	Contractor	√
General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work areas	Contractor	√
<b>Ecology</b>			
Compensatory planting should be provided for the removal of 17 immature trees of exotic/invasive species within the Conservation Area.	Section 8 within the Conservation Area	Contractor	To be implemented
A warning sign showing the name and the photo of the plant species of conservation interest, Green Ailanthus, should be established at the artificial shore to the east of the Tai Hang Bridge during the construction phase to avoid damage to the plant.	Section 8 within the Conservation Area	Contractor	√
Avoid any damage and disturbance, particularly those caused by filling and illegal dumping to the surrounding natural habitats and especially those within the Conservation Area	Work areas	Contractor	<>
Regularly check the Site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas particularly the Conservation Area	Work areas	Contractor	√

Remarks:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable

Environmental Protection Measures	Location	Implementation Agent	Implementation Status
Open fires within the site boundary during construction must be prohibited and prevented. Temporary fire fighting equipment should be provided	Work areas	Contractor	√
Temporary work sites/disturbed areas should be reinstated immediately after completion of the construction works	Work areas	Contractor	√ (for completed route sections)
No-dig pipe jacking method shall be used for construction of the underwater cable duct within the Conservation Area to avoid ecological impact	Section 8 within the Conservation Area	Contractor	√

Remarks:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable