

ATAL-Degrémont-China State Joint Venture

Contract No. DC/2008/03  
Design, Build and Operate Pillar  
Point Sewage Treatment Works:  
*Fifty-seventh Monthly EM&A Report*

August 2015

**Environmental Resources Management**

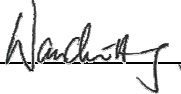

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Contract No. DC/2008/03  
Design, Build and Operate Pillar  
Point Sewage Treatment Works:  
*Fifty-seventh Monthly EM&A Report*

August 2015

Reference 0119806

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by:	
	(Environmental Team Leader – Winnie Ko)
Date:	12 August 2015

Your Ref:  
Our Ref: 60017423/C/jkcy15081201

**By Hand & By Fax (2833 9162)**

Drainage Services Department  
Sewage Services Branch  
Harbour Area Treatment Scheme Division  
5/F., Western Magistracy,  
2A Pok Fu Lam Road,  
Hong Kong.

Attn: Mr. Edwin Lau (T: 2159 3409)

12 August 2015

Dear Sir,

**Contract No. DC/2008/03**  
**Design, Build and Operate**  
**Pillar Point Sewage Treatment Works**

**Monthly EM&A Report for July 2015**

Reference is made to Environmental Team (ET)'s draft of the Monthly EM&A Report for July 2015 provided by email dated 11 and 12 August 2015. We have no further comment.

We hereby verify the said Monthly EM&A Report as having complied with the requirement as set out in the EM&A Manual in accordance with the condition 3.6 of Environmental Permit No. EP-321/2008/B.

Should you have any queries, please feel free to contact the undersigned at 3922 9393.

Yours faithfully,

For and on behalf of  
AECOM Asia Co. Ltd.



Y T Tang  
Independent Environmental Checker

c.c. AECOM – Mr. C Y Hung  
ERM – Ms. Winnie Ko  
ATAL–Degremont–China State JV – Mr. C.Y. Fong

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## EXECUTIVE SUMMARY

The construction works of *DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project)* commenced on 13 November 2010. This is the 57<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 31 July 2015 in accordance with the EM&A Manual.

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC on 3 July 2015. Air quality monitoring, weekly environmental site audits and landscape and visual monitoring were not required in July 2015.

### Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes). In total, 6.39 tonnes of inert C&D material were generated from the Project, of which 0 tonnes were reused in this Contract and the remaining 6.39 tonnes were disposed as public fill. 0.00 kg of metals, 0.00 kg of papers/ cardboard packing and 0.00 kg of plastics were sent to recyclers for recycling during the reporting period.

### Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

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

No environmental complaint and summon/prosecution was received in this reporting period.

### Future Key Issues

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC in 3 July 2015. No air quality monitoring, weekly environmental site audits and landscape and visual monitoring would be required in the next reporting month.

# 1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by ATAL – Degrémont – China State Joint Venture (ADC-JV) (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project)*.

## 1.1 PURPOSE OF THE REPORT

This is the 57<sup>th</sup> EM&A report which summarises the monitoring results and audit findings for the EM&A programme during the reporting period from 1 to 31 July 2015.

## 1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

### Section 1: **Introduction**

It details the scope and structure of the report.

### Section 2: **Project Information**

It summarises the background and scope of the Project, site description, project organization, construction programme, construction works undertaken and status of the Environmental Permits (EP)/licences over the construction phase of the Project.

### Section 3: **Environmental Monitoring Requirements**

It summarises the environmental monitoring requirements including monitoring parameters, programmes, methodologies, frequency, locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the approved EIA report, EP and relevant environmental requirements stated in the Contract Specification.

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

It summarises the implementation of environmental protection measures during the reporting period.

### Section 5: **Monitoring Results**

It summarises the monitoring results obtained in the reporting period.

### Section 6: **Waste Management**

It summarises the quantity of public fill and construction waste generated in the reporting period

Section 7: **Environmental Site Inspection**

It summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 8: **Environmental Non-conformance**

It summarises any exceedance of environmental performance standard, environmental complaints and summons received within the reporting period.

Section 9: **Further Key Issues**

It summarises the impact forecast and monitoring schedule for the next reporting month.

Section 10: **Review of the EM&A Data and Predictions**

It compares the monitoring data and waste quantity against the predictions in the approved Project EIA report.

Section 11: **Conclusions**



## 2 PROJECT INFORMATION

### 2.1 BACKGROUND

The existing Pillar Point Sewage Treatment Works (PPSTW) is located to the north of the Tuen Mun River Trade Terminal and is abutting the Lung Mun Road in the north. It is a preliminary treatment works with screening and grit removal processes and the treated effluent is discharged to the sea (North Western Water Control Zone) via a twin submarine outfall. The *Review of the Tuen Mun and Tsing Yi Sewerage Master Plan* (RTMTYSMP), commissioned in February 1999, recommended that the sewage treatment capacity be expanded and the plant be upgraded to chemically enhanced primary treatment (CEPT) with disinfection. This is to cater for the projected ultimate population and planned developments in the Tuen Mun area, and to improve the effluent quality reducing pollution loadings to the receiving waters.

The upgrading of the PPSTW comprises the following works:

- expanding the treatment capacity of the existing PPSTW to cope with the increased peak wet-weather sewage flow in Tuen Mun area;
- upgrading the sewage treatment level of the existing PPSTW to incorporate chemical treatment with disinfection at minimum removal rates of 70%, 55% and 99.9% of suspended solids (SS), biochemical oxygen demand (BOD) and *E.coli*, respectively;
- upgrading the existing septic waste reception facilities at PPSTW; and
- providing and upgrading ancillary facilities including the administration building, workshop, laboratory, odour control facilities, sludge handling and dewatering facilities, access roads and minor landscaping works within the STW for the operation and maintenance of the upgraded STW.

The potential environmental impacts of the Project have been studied in the “*Upgrading of Pillar Point Sewage Treatment Works*” (EIAO Register No: AEIAR-145/2008). The EIA was approved on 10 June 2008 under the *Environmental Impact Assessment Ordinance* (EIAO) and an Environmental Permit (EP-321/2008) for the works was granted on 17 November 2008. A variation of an Environmental Permit was granted on 30 May 2014 (EP-321/2008/B). Under the requirements of Condition 3.1 of EP-321/2008/B, an EM&A programme as set out in the EM&A Manual is required to be implemented.

The construction works commenced on 13 November 2010 and are scheduled for completion by August 2015.

### 2.2 GENERAL SITE DESCRIPTION

The open area adjacent to the existing PPSTW has been designated for the upgrading works. The layout of the upgrading works is illustrated in *Annex*

A.

### 2.3 CONSTRUCTION ACTIVITIES

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC in 3 July 2015. Minor construction activities for correcting minor defects undertaken in the reporting period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*. The construction programme of the Project is presented in *Annex L*.

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

Construction Activities Undertaken
<ul style="list-style-type: none"> <li>Finishing works at the Administration Building, Sludge Dewatering Building, PTW, CEPT, UV Building, Septic Waste Reception Station, Reuse Water Pump Room, Deodourisation Unit Portion B, Chemical Building, Electrical buildings No.1, No.3, No.4, Payment Flow Meter Chamber, Sludge Skip Storage Building, Existing Solid Handling Building, Weighbridge and Existing Outfall Pumping Station;</li> <li>Outstanding E&amp;M works at Deodorisation Unit Portion A and Existing PTW;</li> <li>Lamp pole cable duct installation at overall site; and</li> <li>Defect works at Administration Building (cable lying installation work for earth bonding), PTW (defect rectification work) and Existing Outfall Pumping Station (installation work of defoam system).</li> </ul>

### 2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organisation chart and contact details are shown in *Annex C*.

### 2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

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

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

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-321/2008/B	Throughout the Contract	Permit granted on 30 May 2014
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation	Ref No. 308136	Throughout the Contract	-
Water Discharge License	WT00017778-2013	22 November 2013 - 31 October 2015	Wastewater discharge licence was issued by EPD on 22 November 2013.

<b>Permit/ Licences/ Notification</b>	<b>Reference</b>	<b>Validity Period</b>	<b>Remarks</b>
Construction Noise Permit	GW-RW0076-15	4 March 2015 – 3 August 2015	-
Chemical Waste Producer Registration	5213-421-A2620-01	Throughout the Contract	Licence approved on 28 October 2010

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC on 3 July 2015. Air quality monitoring, weekly environmental site audits and landscape and visual monitoring were not required in July 2015.

***IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS***

The Contractor has implemented environmental mitigation measures and requirements as stated in the approved EIA Report, EM&A Manual and EP. The implementation status of the measures during the reporting period is summarised in Annex I.

Major construction works had been completed in June 2015 and only minor defects are being undertaken. As mentioned in Section 3, no air quality monitoring was carried out in July 2015.

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (see *Annex J*). With reference to the relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 6.1*.

**Table 6.1** *Quantities of Waste Generated from the Project*

Month / Year	Quantity			
	Total Inert C&D Materials Generated <sup>(a)</sup>	C&D Materials Recycled <sup>(c)</sup>	C&D Waste Disposed of at Landfill <sup>(d)</sup>	Chemical Waste
July 2015	6.39 tonnes	0.00 kg	10.79 tonnes	0 L

**Notes:**

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 6.39 tonnes of inert C&D waste were generated from the Project, of which 0.00 tonnes were reused in this Contract and the remaining 6.39 tonnes were disposed as public fill. The detailed waste flow is presented in *Annex J*.
- (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (c) 0.00 kg of metals, 0.00 kg of papers/ cardboard packing and 0.00 kg of plastics were sent to recyclers for recycling during the reporting period.
- (d) Construction wastes other than metals, paper/ cardboard packaging, plastics and chemicals were disposed of at WENT Landfill by subcontractors.

## **7 ENVIRONMENTAL INSPECTIONS**

### **7.1 WEEKLY SITE AUDITS**

Major construction works had been completed in June 2015 and only minor defects are being undertaken. As mentioned in *Section 3*, no weekly site audits were carried out in July 2015.

### **7.2 LANDSCAPE AND VISUAL MONITORING**

Major construction works had been completed in June 2015 and only minor defects are being undertaken. As mentioned in *Section 3*, no landscape and monitoring was carried out in July 2015.



## 8 ENVIRONMENTAL NON-CONFORMANCE

### 8.1.1 *Summary of Monitoring Exceedance*

As mentioned in Section 3, no air quality monitoring was carried out in July 2015.

### 8.1.2 *Summary of Environmental Non-Compliance*

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

### 8.1.3 *Summary of Environmental Complaint*

No complaint was received during the reporting period. The cumulative environmental complaint log is shown in *Annex K*.

### 8.1.4 *Summary of Environmental Summon and Successful Prosecution*

No summon was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

9 ***FUTURE KEY ISSUES***

9.1 ***KEY ISSUES FOR THE COMING MONTH***

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC in 3 July 2015.

9.2 ***MONITORING SCHEDULE FOR THE NEXT REPORTING PERIOD***

No TSP monitoring was scheduled as the suspension of the environmental site inspection and dust monitoring has been proposed for IEC agreement following completion of main construction works for the Project in 3 July 2015.

9.3 ***CONSTRUCTION PROGRAMME FOR THE NEXT THREE MONTHS***

The most up-to-date construction programme for the Project is presented in *Annex L*.

## 10.1 AIR QUALITY

Major construction works had been completed in June 2015 and only minor defects are being undertaken. As mentioned in *Section 3*, no air quality monitoring was carried out in July 2015.

## 10.2 WASTE MANAGEMENT

The estimated amount of waste generated from the Project and the cumulative quantities of waste generated up to this reporting month are presented in *Table 10.1*. The amount of inert C&D material sent to public fills is higher than the estimated amount in the EIA. With reference to the C&D Material Assessment (Contractor's General Submission (CSF) No.: DC200803/CSF/SAF/060026/A), the difference in quantities is mainly due to the differences in excavation depths and the excavation methods in the Contract Works and that assumed in the Reference Design. Recommended mitigation measures in *Sections 7.5.1.1 to 7.5.1.9* of the EIA will continue to be implemented during the construction stage.

**Table 10.1** *Quantity of Amount of C&D Materials, General Wastes and Chemical Wastes Actually Generated and Estimated in the EIA and C&D Material Assessment*

Type of Material	Estimated Amount of Public Fill and Construction Waste in the EIA (inert & non-inert)	Estimated Amount of Public Fill and Construction Waste in C&D Material Assessment (CSF No.: DC200803/CSF/SAF/060026/A) <sup>(c)</sup>	Accumulated Actual Amount of Public Fill and Construction Waste Recorded <sup>(a)</sup> <sup>(b)</sup> (inert & non-inert)
Amount of C&D Materials Arising	61,489.00 m <sup>3</sup>	77,600.00 m <sup>3</sup>	136,314.99 m <sup>3</sup>
Amount of C&D Materials Reused on other site	-	-	3,163.89 m <sup>3</sup>
Amount of C&D Materials Reused on site	14,926.00 m <sup>3</sup>	18,000.00 m <sup>3</sup>	24,358.89 m <sup>3</sup>
Amount of C&D Materials Sent to Fill Banks	46,563.00 m <sup>3</sup>	59,600.00 m <sup>3</sup>	108,792.24 m <sup>3</sup>
General Refuse Small	-	-	2,307.59 tonnes
Chemical Waste Small	-	-	810.00 L

Type of Material	Estimated Amount of Public Fill and Construction Waste in the EIA (inert & non-inert)	Estimated Amount of Public Fill and Construction Waste in C&D Material Assessment (CSF No.: DC200803/CSF/SAF/060026/A) <sup>(c)</sup>	Accumulated Actual Amount of Public Fill and Construction Waste Recorded <sup>(a) (b)</sup> (inert & non-inert)
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**Notes:**

- (a) The actual amount of C&D Materials has been recorded since the commencement of construction works.
- (b) The density of soil and rock (bulked) is 1.8 tonnes/m<sup>3</sup>.
- (c) The estimated amount of C&D material generated from the Contract Works was revised in the C&D Material Assessment and submitted to the SO on 9 September 2010 (CSF No.: DC200803/CSF/SAF/060026/A) because of the new plant & facility layout.

**10.3**

***CONCLUSION OF THE REVIEW***

The EIA predictions and monitoring results since the commencement of the construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment, and monitoring results have also confirmed that so far. Mitigation measures recommended in the EP, EIA and EM&A Manual will continue to be implemented throughout the construction phase of the Project.

This EM&A Report presents the EM&A programme undertaken during the reporting period from 1 to 31 July 2015 in accordance with EM&A Manual and requirements of EP (EP-321/2008/B).

Major construction works had been completed in June 2015 and only minor defects are being undertaken. A letter notifying the completion of main works and proposing the suspension of the environmental site inspection and dust monitoring was sent to IEC in 3 July 2015.

No air quality monitoring was carried out in July 2015. As such, no monitoring exceedance was recorded.

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

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

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all the necessary mitigation measures in the coming periods.

Annex A

## Location of Project

**PROPOSED FACILITIES AND BUILDINGS**

**SECTION 1 INLET PUMPING STATION AND PRELIMINARY TREATMENT WORKS**

- ① INLET CHAMBER
- ② COARSE SCREENS AND INLET PUMPING STATION
- ③ FINE SCREEN CHANNELS
- ④ GRIT CHAMBERS
- ⑤ INLET FLOWMETER CHAMBER
- ⑥ PTW MCC ROOM

- ⑦ BLOWER ROOM
- ⑧ SCREENING SKIP HOUSE
- ⑨ ODOR DUCT SUPPORTING BRIDGE
- ⑩ SEPTIC WASTE RECEPTION STATION
- ⑪ WEIGHBRIDGE
- ⑫ ELECTRICAL BUILDING 1

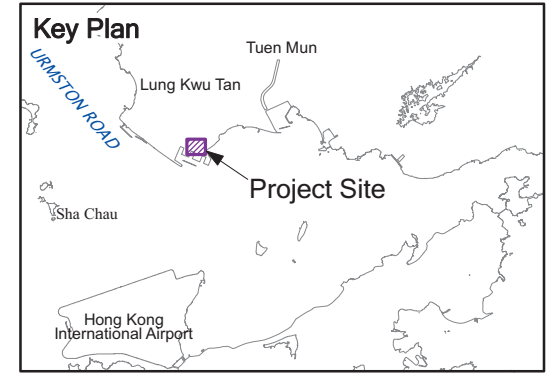
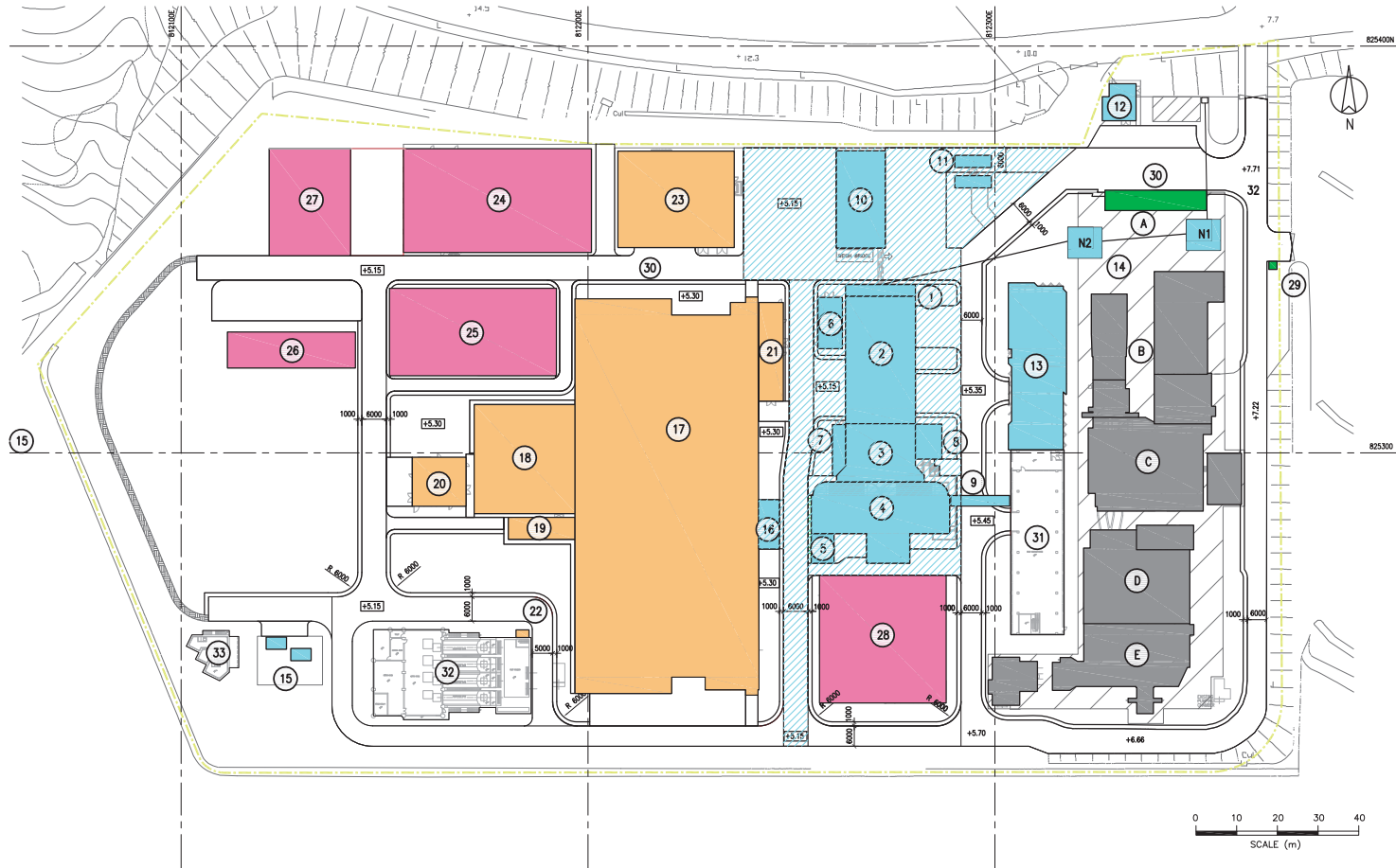
- ⑬ ADMINISTRATION BUILDING
- ⑭ INLET CHAMBERS
- ⑮ PAYMENT FLOWMETER CHAMBER
- ⑯ CEPT INLET CHAMBER

**SECTION 2 CEPT TANKS UV DISINFECTION**

- ⑰ CEPT TANKS
- ⑱ UV DISINFECTION CHANNELS
- ⑲ REUSE WATER PUMP ROOM
- ⑳ ELECTRICAL BUILDING 3
- ㉑ ELECTRICAL BUILDING 2
- ㉒ OUTFALL PUMPING STATION CONNECTION CHAMBER
- ㉓ CHEMICAL BUILDING

**SECTION 3 SLUDGE TREATMENT & HANDLING AND ODOUR CONTROL**

- ㉔ SLUDGE DEMATERING BUILDING
- ㉕ DEODORISATION UNITS (B)
- ㉖ SLUDGE SKIP STORAGE BUILDING
- ㉗ SLUDGE SKIP LOADING AREA
- ㉘ DEODORISATION UNITS (A)



**SECTION 4 EXISTING BUILDINGS TO BE DEMOLISHED**

- Ⓐ ADMINISTRATION BUILDING
- Ⓑ INLET SCREW PUMPING STATION AND MOTOR HOUSE
- Ⓒ COARSE SCREENS
- Ⓓ BLOWER HOUSE AND GRIT CHANNELS
- Ⓔ FINE SCREEN CHANNELS AND FLOWMETER CHAMBER

**SECTION 5 EXTERNAL WORKS**

- ⑳ GATE HOUSE
- ㉑ CAR PARK

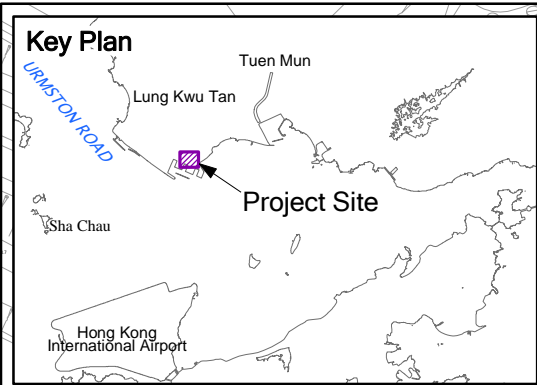
**EXISTING BUILDING TO BE RETAINED**

- ㉒ EXISTING SOLID HANDLING BUILDING
- ㉓ EXISTING OUTFALL PUMPING STATION
- ㉔ EXISTING TERMINAL MANHOLE

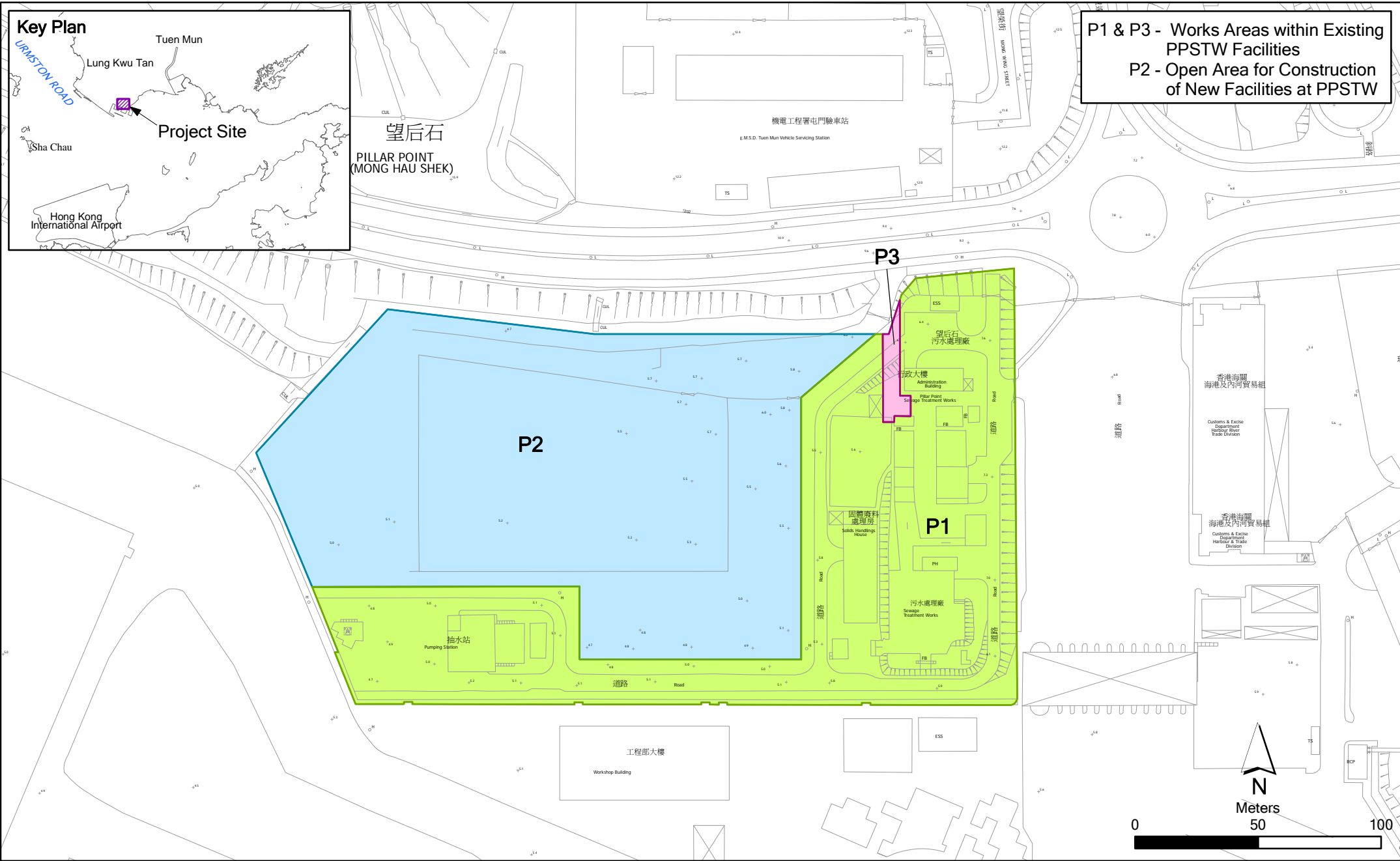
Annex B

## Works Location





**P1 & P3 - Works Areas within Existing PPSTW Facilities**  
**P2 - Open Area for Construction of New Facilities at PPSTW**



Annex B

Location of Works Areas

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Date: 15/12/2010

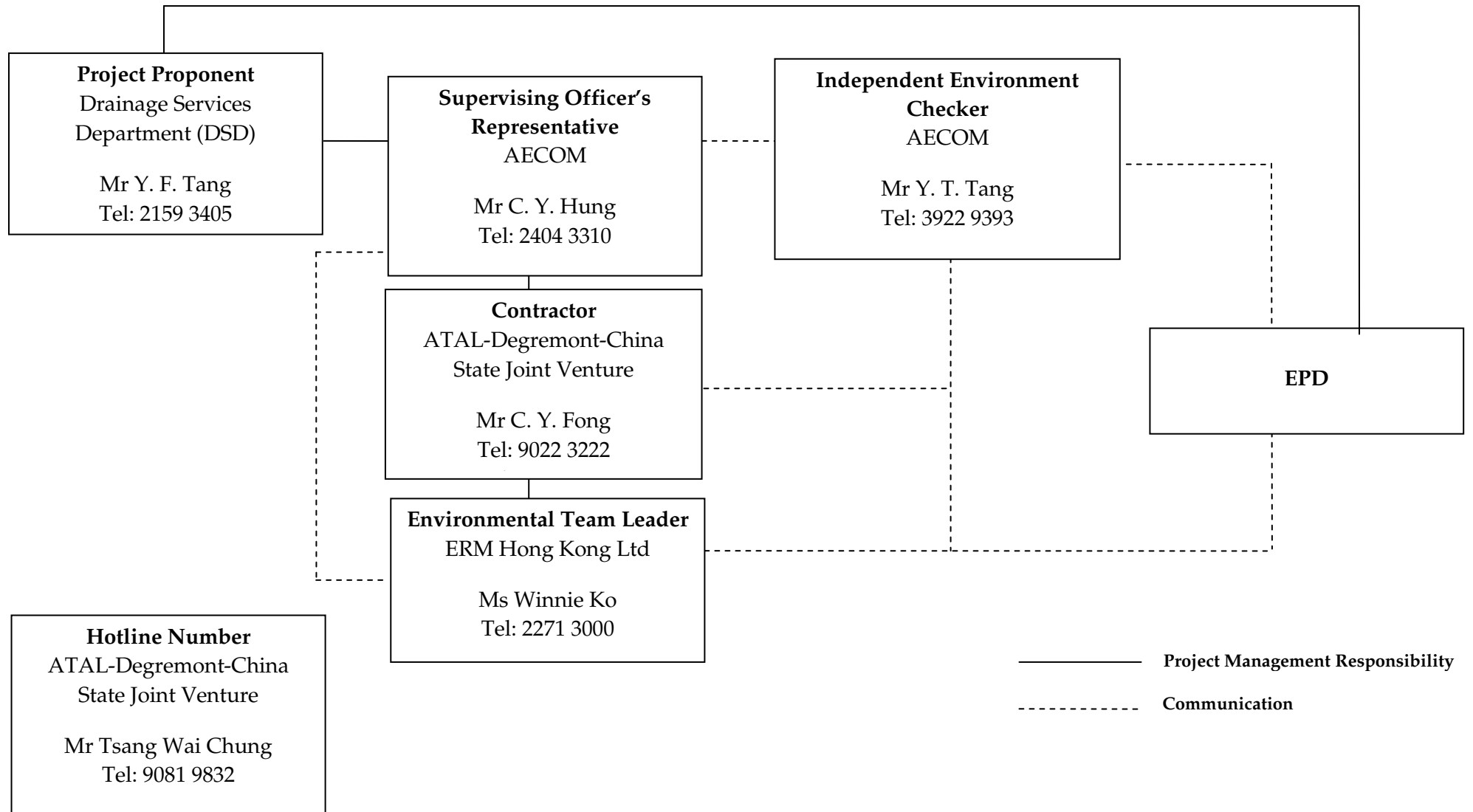
Environmental  
Resources  
Management



Annex C

## Project Organization Chart with Contact Details

Project Organization During Construction Phase (with contact details)



Annex D

(not used)

Annex E

(not used)

Annex F

(not used)

Annex G

(not used)

Annex H

(not used)



Annex I

## Implementation Schedule of Mitigation Measures

**Annex I Summary of Mitigation Measures Implementation Schedule**

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
<i>Summary of Environmental Mitigation Measures in the EIA and EM&amp;A Manual</i>			
<i>Construction Phase</i>			
Air Quality	Dust mitigation measures stipulated in <i>the Air Pollution Control (Construction Dust) Regulation</i> shall be incorporated to control Post emission. Notice shall be given to authority prior to commencing of work.	Work sites / during construction period	Notice of works commencement was submitted to EPD on 3 August 2010.
Water Quality	The practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. It is recommended to install perimeter channels in the works areas to intercept runoff as site boundary prior to the commencement of any earthwork. To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided. Drainage channels are also required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance can ensure the normal operation of these facilities throughout the construction period. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Work site/During the construction period	√
Water Quality	There is a need to apply to EPD for a discharge license under the WPCO for discharging effluent from the construction site. The discharge quality is required to 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. Reuse and recycling of the treated effluent can minimize water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Work site/During the construction period	√ Discharge licence was awarded by EPD on 7 December 2010.
Water Quality	The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons. This prevents soil erosion from	Work site/During the construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimize dust emission. In areas where a large amount of exposed soil exists, earth bunds or sand bags should be provided. Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of materials should be placed at locations away from any stream course so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work. It is suggested that haul roads should be paved with concrete and the temporary access roads protected using crushed stone or gravel, wherever practicable. Wheel washing facilities should be provided at all site exists to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.</p>		
Water Quality	<p>Good sites practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.</p>	Work site/During the construction period	√
Water Quality	<p>The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed water collector should be deployed to clean the chemical toilets on a regular basis. The construction workers can also make use of the existing toilet facilities within the PPSTW as necessary.</p>	Work site/During the construction period	√
Water Quality	<p>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. Regular environmental audit on the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.</p>	Work site/During the construction period	√
Waste Management	<p>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</p>	Work site/During the construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	should be observed and complied with for control of chemical wastes.		
Waste Management	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and stumps 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.	Work site/During the construction period	√
Waste Management	<p>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with the chemical wastes. General requirements are given as follows:</p> <ul style="list-style-type: none"> <li>• Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>• Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>• Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>	Work site/During the construction period	√
Waste Management	<p><i>Good Site Practices</i> Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>• Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site</li> <li>• Training of site personnel in proper waste management and chemical handling procedures</li> <li>• Provision of sufficient waste disposal points and regular collection of waste</li> <li>• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by</li> </ul>	Work site/During the construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	transporting wastes in enclosed containers <ul style="list-style-type: none"> <li>• Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> <li>• Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Facility.</li> </ul>		
Waste Management	<i>Waste Reduction Measures</i> Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: <ul style="list-style-type: none"> <li>• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>• Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force</li> <li>• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> <li>• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	Work site / During planning & design stage, and construction stage	√
Waste Management	<i>General Refuse</i> 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 site / During the construction period	√
Waste Management	<i>Construction and Demolition Material</i> In order to minimise the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated	Work site / During design stage & construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>material generated from site formation works for the proposed new facilities and units at the STW should be reused on-site as far as practicable. The surplus excavated material should be disposed of at the designated public fill reception facility, as agreed with the Secretary of the Public Fill Committee, for other beneficial uses.</p>		
Waste Management	<p>Mitigation measures and good site practices should be followed to control potential environmental impact from handling and transportation of C&amp;D material. The mitigation measures include:</p> <ul style="list-style-type: none"> <li>• Where it is unavoidable to have transient stockpiles of C&amp;D material pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.</li> <li>• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.</li> <li>• Skip hoist for material transport should be totally enclosed by impervious sheeting.</li> <li>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site</li> <li>• 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.</li> <li>• 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.</li> <li>• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.</li> <li>• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.</li> </ul>	Work site / During design stage & construction period	√
Waste Management	<p>When disposing C&amp;D material at a public filling facility, it shall be noted that the material shall only consist of earth, building debris and broken rock and concrete. The material shall be free from marine mud, household refuse, plastic, metals, industrial and chemical waste, animal</p>	Work site/ During design stage & construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor. In order to monitor the disposal of the surplus C&amp;D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work with reference to the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" as attached in Appendix 7-1. An Independent Environmental Checker should be responsible for auditing the results of the system.</p>		
Waste Management	<p><i>Chemical Waste</i></p> <p>If chemical wastes are 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. 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 chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p>	Work site / During the construction period	√
Landscape & Visual	<p><u>Temporary Tree Nurseries</u></p> <p>Temporary tree nurseries may be set up for the transplanted tree and proposed trees at an early stage to allow small trees to grow during the construction periods. By the time when planting area becomes available, trees mature and increase in trunk &amp; spread size. They will require minimal pruning and suffer much less damage during transplanting when comparing the travel distance from an on-site nursery to an off-site nursery.</p> <p>Besides, these trees may also be positioned as visual mitigation during</p>	Work site/ During design stage & construction period	√. A tree nursery has been set up off-site near the site office.

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	the construction period.		
Landscape & Visual	<p><u>No-intrusion Zone</u></p> <p>To maximise protection to existing trees and ground vegetation, construction contracts may designate “No-intrusion Zone” to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should close monitor and restrict the site working staff not to enter the “no-intrusion zone”, even for non-direct construction activities and storage of equipment.</p>	Work site/During design stage & construction period	√
Landscape & Visual	<p><u>Hoarding</u></p> <p>Hoarding or boundary fencing for construction shall be considered. It should be sensitively designed, subtle, camouflaged and more ‘permeable’ so that they fit into the existing environment when looking from outside.</p>	Work site/During design stage & construction period	√
Landscape & Visual	<p><u>Dust and Erosion Control for Exposed Soil</u></p> <p>Excavation works and demolition of existing building blocks and which will be highly visible form surrounding areas should be well planned and with precautions to suppress dust. Exposed soil shall be covered or ‘camouflaged’ and watered often. Areas that are expected to be left with bare soil for a long period of time after excavation shall be properly covered with suitable protective fabric. Silt and erosion shall be controlled by ground barriers around the slope cutting area..</p>	Work site/During design stage & construction period	√
Landscape & Visual	<p><u>Existing Tree Record Inventory</u></p> <p>All retained trees should be record photographically at the commencement of the Contract, and carefully protected during the construction period. Detailed tree protection specification shall be allowed and included in the Contract Specification, which specifying the tree protection requirement, submission and approval system, and the tree monitoring system.</p>	Work site/During design stage & construction period	√



Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Landscape & Visual	<p><u>Construction Light</u></p> <p>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 residences and GIC users. The Contractor shall consider other security measures which shall minimize the visual impacts.</p>	Work site / During design stage & construction period	√
Landscape & Visual	<p><u>Tree Transplanting</u></p> <p>Apart from the 18 numbers of "<i>Leucaena leucocephala</i>", which are proposed to be felled in accordance with ETWB TCW No. 3/2006, all the affected trees shall be transplanted. Where practicable, trees shall be directly transplanted to permanent on-site locations. The location of the transplanted tree is shown in <b>Figure 8.9.1</b>.</p>	Work site / During design stage & construction period	√.
Landscape & Visual	<p><u>Tree Compensation Ratio</u></p> <p>The total number of compensatory trees planted in the project area shall not be less than 1:1 ratios by new trees. Required numbers and locations of compensatory trees shall be determined and agreed with Government during the tree felling application process under ETWCTC 3/2006. Compensatory trees shall be at least heavy standard size to create "immediate" greening effect. 81 numbers of "<i>Cassia surattensis</i>" will be provided as the additional compensatory planting for loss of greenery in the area due to removal of the affected trees. The location of the additional compensatory planting is shown in <b>Figure 8.9.1</b>.</p>	Work site / During design stage & construction period	N/A
Landscape & Visual	<p><u>Re-use of Existing Soil and Advance formation of Planting Area</u></p> <p>Existing topsoil shall be re-used where possible for new planting areas within the project. Advance formation of planting area and early implementation of the plating works can minimize adverse impact on trees. The construction program shall consider using the soil removed from one phase for backfilling another. Suitable storage ground, gathering ground and mixing ground may be set up on-site as necessary.</p>	Work site / During design stage & construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Landscape & Visual	<p><u>Establishment Period</u></p> <p>12 month establishment period for the soft landscape works will be allowed in the main contract. Most construction contracts in Hong Kong require the Contractor to carry out routine horticultural operations, including watering, pruning, weeding, pest control, replacement of dead plants etc. to ensure healthy establishment of new planting during a 12 month establishment period. This period also serves as a kind of warranty / guarantee on the quality of the plants supplied and installed by the Contractor. Monthly monitoring during the first year of establishment period is recommended.</p>	Work site/During operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	<p><u>Re-instatement of excavated Area</u></p> <p>All excavated area and disturbed area for utilities diversion, temporary road diversion, and pipeline works will be reinstated to former conditions, subject to applicable Government Standards.</p>	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	<p><u>Appearance and Greening for the proposed structures</u></p> <p>Compatible design, construction materials and surface finishes of the proposed structure should match with the nearby existing external appearance of PPSTW buildings for achieving visual uniformity. Finishing materials shall have due consideration to form, basic color, color/ tone variation, micro-and macro-texture, and reflectivity/ light absorbance to avoid glare. Planting, such as turf, low groundcovers and climbers, may also be planted on top of these elements to provide greening and aesthetic effect.</p>	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
<i>Summary of Key Environmental Mitigation Measures in Contract Requirements</i>			
Air Quality	Only Ultra-low-sulphur diesel (ULSD) should be used for all diesel-operated plants and equipments on site	Work sites / during construction period	√
Air Quality and Noise	Plants and equipments of good operation conditions should be used on site.	Work sites / during construction period	√
Noise	No diesel hammers should be used for piling works	Work sites / during construction period	√
Noise	Construction Noise Permits (CNP) should be applied for works conducted outside non-restricted hours.	Work sites / during construction period	√
Noise	Quiet construction equipments and the quietest practicable working	Work sites / during construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	methodologies should be adopted for works whenever feasible. Noise labels should be provided for air compressors. Hoods and cover panels of generators and air compressors should be closed during operation. Noise labels should be provided for air compressors and hand-held percussive breakers.		
Waste Management	Temporary works construction on site should minimize the use of timber to reduce the quantity of C&D waste generated during works period.	Work sites / during construction period	√
Landscape and Visual	Retained or to-be-transplanted trees on site should be properly protected from physical damages and soil compacts with temporary fencing or hessian armouring whenever feasible.	Work sites / during construction period	√

Remark:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- Δ Deficiency of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- N/A Not Applicable in Reporting Period

Annex J

## Waste Flow Table

**Contract No. : DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works  
Monthly Summary Waste Flow Table**

Month	Actual Quantities of Inert C&D Materials Generated (see Note 13)					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated (see Note 13)				
	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
Nov 2010	2,248.00	0.00	0.00	55.00	2248.00	60.00	100.00	0.00	0.00	18.05 (see Note 4)
Dec 2010	11,314.00 (see Note 4)	0.00	0.00	225.00	11314.00	100.00	120.00	20.00	0.00	28.40 (see Note 4)
Jan 2011	58,383.00 (see Note 4)	0.00	0.00	3,000.00	58,382.90	250.00	280.00	60.00	0.00	4.59 (see Note 4)
<b>Sub-total</b>	<b>71,945.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3280.00</b>	<b>71944.90</b>	<b>410.00</b>	<b>500.00</b>	<b>80.00</b>	<b>0.00</b>	<b>51.04</b>
Feb 2011	12,855.00	0.00	0.00	1,050.00	12,854.70	100.00	150.00	50.00	0.00	2.43 (see Note 4)
Mar 2011	22,859.00	0.00	0.00	1,500.00	22,858.70	150.00	180.00	55.00	0.00	9.02
Apr 2011	8,547.00 (see Note 7)	0.00	5,684.00(see Note 5, 7)	550.00	2,863.30	50.00	30.00	15.00	0.00	5.78
<b>Sub-total</b>	<b>44,261.00</b>	<b>0.00</b>	<b>5684.00</b>	<b>3100.00</b>	<b>38576.70</b>	<b>300.00</b>	<b>360.00</b>	<b>120.00</b>	<b>0.00</b>	<b>17.23</b>
May 2011	6,293.00 (see Note 7)	0.00	11.00 (see Note 5, 7)	425.00	6,282.00 (see Note 7)	45.00	25.00	10.00	360.00 (see Note 7)	8.83
Jun 2011	4,587.00 (see Note 7)	0.00	0.00 (see Note 7)	313.00	4,586.00 (see Note 7)	40.00	30.00	15.00	0.00	7.10
Jul 2011	523.00	0.00	0.00	25.00	522.90	15.00	5.00	10.00	0.00	7.20
<b>Sub-total</b>	<b>11,403.00</b>	<b>0.00</b>	<b>11.00</b>	<b>763.00</b>	<b>11391.50</b>	<b>100.00</b>	<b>60.00</b>	<b>32.00</b>	<b>360.00</b>	<b>23.13</b>
Aug 2011	571.00 (see Note 11)	0.00	0.00	50.00	571.00 (see Note 11)	0.00	0.00	15.00	450.00 (see Note 8)	6.12
Sept 2011	235.00	0.00	0.00	25.00	235	20.00	0.00	0.00	0.00	12.15 (see Note 9)
Oct 2011	5,705.00 (see Note 10)	0.00	0.00	650.00	5,705.00 (see Note 10)	100.00	0.00	0.00	0.00	2.98
<b>Sub-total</b>	<b>6,511.00</b>	<b>0.00</b>	<b>0.00</b>	<b>725.00</b>	<b>6511.00</b>	<b>120.00</b>	<b>0.00</b>	<b>15.00</b>	<b>450.00</b>	<b>21.25</b>
Nov 2011	6,294.00	0.00	0.00	775.00	6,294.00	50.00	0.00	0.00	0.00	44.84
Dec 2011	3,011.00	0.00	0.00	263.00	3,011.00	20.00	0.00	0.00	0.00	17.14
Jan 2012	349.00	64.00	0.00	25.00	284.60	20.00	150.00	0.00	0.00	49.01

Month	Actual Quantities of Inert C&D Materials Generated (see Note 13)					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated (see Note 13)				
	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
Sub-total	9,654.00	64.00	0.00	1063.00	9589.60	90.00	150.00	0.00	0.00	110.99
Feb 2012	3,371.00	30.00	0.00	2,810.00	3,341.00	150.00	0.00	0.00	0.00	48.72
Mar 2012	6,460.00	3,000.00	0.00	625.00	3,459.70	30.00	0.00	0.00	0.00	41.10
Apr 2012	3,774.00	3,000.00	0.00	250.00	774.40	40.00	0.00	0.00	0.00	40.01
Sub-total	13,605.00	6,030.00	0.00	3685.00	7575.10	220.00	0.00	0.00	0.00	129.83
May 2012	7,936.00	5,600.00	0.00	750.00	2,336.20	40.00	0.00	10.00	0.00	75.19
Jun 2012	13,091.00	7,500.00	0.00	875.00	5,590.80	40.00	35.50	8.00	0.00	66.74
Jul 2012	11,972.00	8,600.00	0.00	825.00	3,372.50	40.00	36.40	5.00	0.00	100.50
Sub-total	32,999.00	21,700.00	0.00	2450.00	11299.50	120.00	70.90	23.00	0.00	242.43
Aug 2012	11,660.00	11,000.00	0.00	950.00	659.80	30.00	10.00	6.00	0.00	78.77
Sept 2012	3,055.00	1,500.00	0.00	920.00	1,555.38	30.00	40.00	5.00	0.00	118.80
Oct 2012	2,657.00	200.00	0.00	500.00	2,457.01	30.00	59.40	8.00	0.00	124.04
Sub-total	17,372.00	12,700.00	0.00	2370.00	4672.19	90.00	109.40	19.00	0.00	321.61
Nov 2012	2,691.00	250.00	0.00	750.00	2,441.01	50.00	25.00	10.00	0.00	128.08
Dec 2012	4,319.00	400.00	0.00	200.00	3,919.13	60.00	20.00	15.00	0.00	165.28
Jan 2013	4,442.00	100.00	0.00	200.00	4,341.56	200.00	40.00	20.00	0.00	111.23
Sub-total	11,452.00	750.00	0.00	1150.00	10701.70	310.00	85.00	45.00	0.00	404.59
Feb 2013	1,286.00	85.00	0.00	50.00	1,201.23	<b>180.00</b>	35.00	16.00	0.00	99.44
Mar 2013	900.00	900.00	0.00	120.00	0.00	120.00	45.00	10.00	0.00	97.43
Apr 2013	680.00	680.00	0.00	300.00	0.00	22.00	50.00	15.00	0.00	80.21
Sub-total	2866.00	1665.00	0.00	470.00	1201.23	322.00	130.00	41.00	0.00	277.08
May 2013	1443.37	100.00	0.00	1020.00	1343.37	40.00	43.00	9.00	0.00	46.88 (see Note 16)

Month	Actual Quantities of Inert C&D Materials Generated (see Note 13)					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated (see Note 13)				
	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
June 2013	1993.06	50.00	0.00	850.00	1943.06	100.00	60.00	5.00	0.00	53.89
July 2013	1246.64	100.00	0.00	1100.00	1146.64	100.00	60.00	10.00	0.00	71.15
Sub-total	4683.07	250.00	0.00	2970.00	4433.07	240.00	163.00	24.00	0.00	171.92
August 2013	873.73	120.00	0.00	700.00	753.73	50.00	60.00	8.00	0.00	63.95
September 2013	748.43	50.00	0.00	650.00	698.43	40.00	60.00	5.00	0.00	41.28
October 2013	1701.99	45.00	0.00	1500.00	1656.99	20.00	60.00	5.00	0.00	34.79
Sub-total	3324.15	215.00	0.00	2850.00	3109.15	110.00	180.00	18.00	0.00	140.02
November 2013	1602.35	60.00	0.00	1490.00	1542.35	18.00	60.00	50.00	0.00	36.44
December 2013	1357.16	80.00	0.00	1100.00	1277.16	35.00	60.00	50.00	0.00	16.84
January 2014	714.34	20.00	0.00	690.00	694.34	16.00	60.00	97.00	0.00	27.82
Sub-total	3,673.85	160.00	0.00	3,280.00	3,513.85	69.00	180.00	197.00	0.00	81.10
February 2014	944.11	20.00	0.00	900.00	924.11	50.00	60.00	1120.00	0.00	7.66
March 2014	1200.95	50.00	0.00	1100.00	1150.95	40.00	50.00	5.00	0.00	19.78
April 2014	1803.58	50.00	0.00	1700.00	1753.58	40.00	30.00	5.00	0.00	12.13
Sub-total	3948.64	120.00	0.00	3700.00	3828.64	130.00	140.00	1130.00	0.00	39.57
May 2014	576.53	50.00	0.00	500.00	526.53	40.00	30.00	5.00	0.00	14.07
June 2014	707.48	30.00	0.00	640.00	677.48	30.00	20.00	0.00	0.00	11.65
July 2014	675.82	20.00	0.00	640.00	655.82	20.00	10.00	0.00	0.00	25.28
Sub-total	1959.83	100.00	0.00	1780.00	1859.83	90.00	60.00	5.00	0.00	51.00
August 2014	758.68	10.00	0.00	740.00	748.68	10.00	5.00	0.00	0.00	14.77

Month	Actual Quantities of Inert C&D Materials Generated (see Note 13)					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated (see Note 13)				
	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
September 2014	1171.44	20.00	0.00	1145.00	1151.44	20.00	10.00	0.00	0.00	15.71
October 2014	448.84	20.00	0.00	415.00	428.84	20.00	5.00	0.00	0.00	8.32
Sub-total	2378.96	50.00	0.00	2300.00	2328.96	50.00	20.00	0.00	0.00	38.8
November 2014	768.33	10.00	0.00	740.00	758.33	10.00	5.00	0.00	0.00	30.89
December 2014	766.77	10.00	0.00	740.00	756.77	5.00	3.00	0.00	0.00	17.94
January 2015	575.41	10.00	0.00	550.00	545.41	3.00	3.00	0.00	0.00	12.23
Sub-total	2110.51	30.00	0.00	2030.00	2060.51	18.00	11.00	0.00	0.00	61.06
February 2015	374.73	5.00	0.00	360.00	369.73	2.00	2.00	0.00	0.00	15.68
March 2015	678.52	5.00	0.00	665.00	673.52	1.00	2.00	0.00	0.00	40.00
April 2015	30.89	1.00	0.00	28.00	29.89	1.00	1.00	0.00	0.00	31.45
Sub-total	1084.14	11.00	0.00	1053.00	1073.14	4.00	5.00	0.00	0.00	87.13
May 2015	113.26	1.00	0.00	111.00	112.26	1.00	1.00	0.00	0.00	15.70
June 2015	17.01	0.00	0.00	15.00	17.01	0.00	0.00	0.00	0.00	11.32
July 2015	6.39	0.00	0.00	6.00	6.39	0.00	0.00	0.00	0.00	10.79
Sub-total	136.66	1.00	0.00	132.00	135.66	1.00	1.00	0.00	0.00	37.81
Total	245367	43846	5695	39151	195826	2794	2225	1752	810	2308

- Notes:
- (1) Metal and paper/cardboard packaging were collected by recycler for recycling.
  - (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
  - (3) General refuse was disposed of at WENT by subcontractors.
  - (4) The waste flow data for November and December 2010, January and February 2011 was updated in March 2011 based on SOR's comments and has been confirmed by the Contractor.
  - (5) The inert C&D materials were reused in the Contract No. EP/SP/58/08 at Tuen Mun Tsang Tsui.
  - (6) Chemical waste was collected through the licensed chemical waste collector, Dunwell Ind. (Holdings) Ltd, with the waste collection licence number 7111-757-



W0015-WC.

- (7) The waste flow data for April, May and June 2011 was updated in August 2011 based on SOR's comments and has been confirmed by the Contractor.
- (8) The waste flow data of chemical waste for August 2011 was updated in October 2011 based on Contractor's revised waste flow summary.
- (9) The waste flow data of general refuse for September 2011 was updated in November 2011 based on Contractor's revised waste flow summary.
- (10) The waste flow data of C&D material for October 2011 was updated in December 2011 based on Contractor's revised waste flow summary.
- (11) The waste flow data of C&D material for August 2011 was updated in January 2012 based on SOR's comments and has been confirmed by the Contractor.
- (12) The waste flow data of metal and paper/cardboard packaging for June 2011 was revised in August 2012.
- (13) The quantity of inert and non-inert C&D material generated from May 2012 to December and imported fill material was updated by the Contractor on 6 November 2012.
- (14) The quantity of Rocks & Broken Concrete from November 2010 to November 2012 was updated by the Contractor on 12 December 2012.
- (15) The quantity of C&D material reused in this Contract in Oct, Nov and Dec 2012 were updated by the Contractor on 5 January 2013.
- (16) The quantity of general refuse in this Contract for May 2013 was updated by the Contractor in June 2013.

Annex K

Environmental Complaint,  
Environmental Summons  
and Persecution Log

*Annex K Cumulative Complaint and Summons/Prosecutions Log*

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
November 2010	0	0
December 2010	0	0
January 2011	0	0
February 2011	0	0
March 2011	0	0
April 2011	0	0
May 2011	0	0
June 2011	0	0
July 2011	0	0
August 2011	0	0
September 2011	0	0
October 2011	0	0
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	0	0

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
April 2012	0	0
May 2012	0	0
June 2012	0	0
July 2012	0	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	0	0
December 2012	0	0
January 2013	0	0
February 2013	0	0
March 2013	0	0
April 2013	0	0
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
December 2013	0	0
January 2014	0	0
February 2014	0	0
March 2014	0	0
April 2014	0	0
May 2014	0	0
June 2014	0	0
July 2014	0	0
August 2014	0	0
September 2014	0	0
October 2014	0	0
November 2014	0	0
December 2014	0	0
January 2015	0	0
February 2015	0	0
March 2015	0	0
April 2015	0	0
May 2015	0	0
June 2015	0	0

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
July 2015	0	0
<b>Overall Total</b>	<b>0</b>	<b>0</b>

Annex L

## Construction Programme of the Project

Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2014					
									OCT	NOV	DEC	2015		
										JAN	FEB			
Design and Design Checking of Permanent Works														
Submission and Consent														
Submission and Approval														
DPD030395	DDA3: Hydraulic Design- Final Package & Approv	100	01OCT2013	26JAN2015	01OCT2013	17MAY2014	01OCT2013							
DPD063175	DDA6: HAZOP Report- SO rew. Final Package	28	31DEC2011	26JAN2015	31DEC2011	17MAY2014	31DEC2011							
DPD071397	DDA7A: P&ID Final Package Appr / No comment	120	19JUN2012	06JAN2015	19JUN2012	17MAY2014	19JUN2012							
DPD072397	DDA7B: Ctrl Philosophy Final Pack. Apr/No Com.	120	17AUG2014	16JAN2015	17AUG2014	17MAY2014	17AUG2014							
DPD073397	DDA7C-G: SCADA sys Final Pack. Apr/No Com.	120	29FEB2012	26JAN2015	29FEB2012	17MAY2014	29FEB2012							
DPD077197	DDA8A: Pump sys Final Pack. Apr/No Com.	120	19JUN2012	17DEC2014	19JUN2012	17MAY2014	19JUN2012							
DPD077397	DDA8B: Odour Duct Final Pack. Apr/No Com.	120	30SEP2014	25FEB2015	30SEP2014	17MAY2014	30SEP2014							
DPD077797	DDA8C: Pipe/Duct Supp. Final Pack. Apr/No Com.	120	05OCT2012	27DEC2014	05OCT2012	17MAY2014	05OCT2012							
DPD081197	DDA9A-D: Elect. sys dgn Final Pack. Apr/No Com.	120	17JUN2014	26JAN2015	17JUN2014	17MAY2014	17JUN2014							
DPD081597	DDA9E: UPS Final Pack. Apr/No Com.	120	01AUG2014	25FEB2015	01AUG2014	17MAY2014	01AUG2014							
DPD081797	DDA9F: E&L sys Final Pack. Apr/No Com.	120	31AUG2014	05FEB2015	31AUG2014	17MAY2014	31AUG2014							
DPD084197	DDA9J: Hazardous Zone Final Pack. Apr/No Com.	120	12AUG2012	26JAN2015	12AUG2012	17MAY2014	12AUG2012							
DPD084595	DDA9L Elect Typ.Drg Final Pack. Subm.	60	17MAY2014	12DEC2014	17MAY2014	17JAN2014	17MAY2014							
DPD084597	DDA9L Elect Typ.Drg Final Pack. Apr/No Com.	120	13DEC2014	11APR2015	18JAN2014	17MAY2014								
DPD085297	DDA10F BS Ins dwg Final Pack. Apr/No Com.	120	17NOV2014	07MAR2015	17NOV2014	17MAY2014	17NOV2014							
DPD090900	Remaining Works: Approve of Other DDA submission	0		02DEC2014		17MAY2014								
DPD093100	E&M CMS Subm (Mechanical ) Approval	150	01JUN2013	07MAR2015	01JUN2013	17MAY2014	01JUN2013							
DPD093300	E&M CMS Subm (SCADA) Approval	150	01JUN2013	25FEB2015	01JUN2013	17MAY2014	01JUN2013							
DPD093400	E&M CMS Subm (Control & Instr.) Approval	150	01JUN2013	25FEB2015	01JUN2013	17MAY2014	01JUN2013							
DPD093500	E&M CMS Subm (BS-MVAC) Approval	150	01JUN2013	07MAR2015	01JUN2013	17MAY2014	01JUN2013							
DPD093600	E&M CMS Subm (BS-FS) Approval	150	01JUN2013	15FEB2015	01JUN2013	17MAY2014	01JUN2013							
DPD093800	E&M CMS Subm (BS-P&D.) Approval	150	01JUN2013	15FEB2015	01JUN2013	17MAY2014	01JUN2013							
DPD104100	PTW: DDA13EFGH Civil Final Pack. Subm.	120	31JAN2012	26JAN2015	31JAN2012	17MAY2014	31JAN2012							
DPD104500	PTW: DDA13ABCD E&M Final Pack. Subm.	120	02JAN2012	27DEC2014	02JAN2012	17MAY2014	02JAN2012							
DPD154100	Septic: DDA14EFGH Civil Final Pack. Subm.	120	31MAY2012	15FEB2015	31MAY2012	17MAY2014	31MAY2012							
DPD154500	Septic: DDA14ABCD E&M Final Pack. Subm.	120	06AUG2012	27DEC2014	06AUG2012	17MAY2014	06AUG2012							
DPD176100	WB & Acc: DDA27EF Civil Final Pack. Subm.	90	27NOV2012	15FEB2015	27NOV2012	17MAY2014	27NOV2012							
DPD176500	WB & Acc: DDA27AD E&M Final Pack. Subm.	60	18NOV2014	27DEC2014	18NOV2014	17JAN2014	18NOV2014							
DPD176600	WB & Acc: DDA27AD E&M Final Pack. Apr/No Com.	120	28DEC2014	26APR2015	18JAN2014	17MAY2014								
DPD214100	CEPT: DDA15EFGH Civil Final Pack. Subm.	120	06APR2012	25FEB2015	06APR2012	17MAY2014	06APR2012							
DPD214500	CEPT: DDA15ABCD E&M Final Pack. Subm.	120	30MAR2012	27DEC2014	30MAR2012	17MAY2014	30MAR2012							
DPD314100	UV: DDA17EFGH Civil Final Pack. Subm.	120	11JAN2012	16JAN2015	11JAN2012	17JAN2014	11JAN2012							
DPD314200	UV: DDA17EFGH Civil Final Pack. Apr/No Com.	120	17JAN2015	16MAY2015	18JAN2014	17MAY2014								

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Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2014					2015		
									OCT	NOV	DEC	JAN	FEB	MAR		
DPD918200	Mis: DDA28EF Civil Final Pack. Apr/No Com.	120	12JAN2015	11MAY2015	18JAN2014	17MAY2014										
DPD918300	Lands: DDA26 Civil Final Pack. Subm.	120	27NOV2014	17JAN2015	27NOV2014	17JAN2014	27NOV2014									
DPD918400	Lands: DDA26EF Civil Final Pack. Apr/No Com.	120	18JAN2015	17MAY2015	18JAN2014	17MAY2014										
DPD923751	Mis: DDA 28I Road & Ext. Lighting - Rtoc x2	28	11JAN2012	02DEC2014	11JAN2012	17MAY2014	11JAN2012									
DPD929100	Mis: DDA28 E&M Final Pack subm	180	17MAY2014	27DEC2014	17MAY2014	17JAN2014	17MAY2014									
DPD929200	Mis: DDA28 E&M Final Pack. Apr/No Com.	120	28DEC2014	26APR2015	18JAN2014	17MAY2014										
DPD929300	CLP: DDA29 Civil Final Pack. Subm.	60	17MAY2014	17DEC2014	17MAY2014	17JAN2014	17MAY2014									
DPD929400	CLP: DDA29 Civil Final Pack. Apr/No Com.	120	18DEC2014	16APR2015	18JAN2014	17MAY2014										
DPD929500	CLP: DDA29 E&M Final Pack. Subm.	60	17MAY2014	07DEC2014	17MAY2014	17JAN2014	17MAY2014									
DPD929600	CLP: DDA29 E&M Final Pack. Apr/No Com.	120	08DEC2014	06APR2015	18JAN2014	17MAY2014										
DPD999910	Dummy: End of Design Stage	1	28NOV2014	28NOV2014	17MAY2014	17MAY2014										
<b>Civil and Structural Works</b>																
<b>Chemically Enhanced Primary Treatment System</b>																
<b>Building and Structures</b>																
CCC15660B	CEPT: MCC Gravel on roof	6	21JUL2014	02DEC2014	21JUL2014	17MAY2014	21JUL2014									
<b>Septic Waste Collection Facilities</b>																
<b>Building and Structures</b>																
CCC170740B	Septic: FRP frame for louver	1	28NOV2014	28NOV2014	28NOV2014	28NOV2014										
CCC170900B	Septic: Insulation board on roof	1	28NOV2014	28NOV2014	28NOV2014	28NOV2014										
CCC170910B	Septic: Cement sand screeding on roof	2	28NOV2014	28NOV2014	28NOV2014	28NOV2014										
<b>Auxiliary Building</b>																
<b>Building and Structures</b>																
CCC970105	Gate House: Commencement of Construction	0	28NOV2014		18MAY2014											
CCC970160	Gate House: ABWF Works	20	27SEP2014	16DEC2014	27SEP2014	28FEB2014	27SEP2014									
<b>Landscaping Works</b>																
<b>Miscellaneous Works</b>																
CMT995350	Landscape Preparation Works	30	22MAY2014	28NOV2014	22MAY2014	20APR2013	22MAY2014									
CMT995360	Planting Works	7	01DEC2014	09DEC2014	22APR2013	29APR2013										
CMT995370	Establishment Works	365	31DEC2014	30DEC2015	18MAY2013	17MAY2014										
CMT995390	Tree Transplantation	8	28NOV2014	09DEC2014	09MAY2014	17MAY2014										
CMT995410	Irrigation System	8	01DEC2014	10DEC2014	09MAY2014	17MAY2014										
CMT995510	Landscape Softworks (East Area)	120	22MAY2014	16FEB2015	22MAY2014	17MAY2014	22MAY2014									
CMT995750	Landscape Preparation PTW Area	4	18DEC2014	23DEC2014	08MAY2013	11MAY2013										
CMT995760	Planting Works	7	24DEC2014	05JAN2015	13MAY2013	21MAY2013										
CMT995770	Establishment Works	365	31DEC2014	30DEC2015	18MAY2013	17MAY2014										
CMT995810	Irrigation System	8	24DEC2014	06JAN2015	06MAR2014	14MAR2014										

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Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2014					2015		
									OCT	NOV	DEC	JAN	FEB			
CMT995910	Landscape Softworks (ex PTW Area)	120	15JUL2014	02MAR2015	15JUL2014	17MAY2014	15JUL2014									
<b>Refurbishment and Renewal Works</b>																
<b>Miscellaneous Works</b>																
CCM000110	Refurbishment of Existing Buildings / Structures	150	10FEB2014	03MAR2015	10FEB2014	03MAR2014	10FEB2014									
<b>External Works</b>																
<b>Miscellaneous Works</b>																
CWM101088	Flowmeter: Arrange bypass pipe A	15	22SEP2014	18DEC2014	22SEP2014	18MAR2014	22SEP2014									
CWM101090	Flowmeter: Const. Weir A at Extg Outfall Manhole	6	19DEC2014	26DEC2014	18APR2014	25APR2014										
CWM101109	Flowmeter: Arrange bypass pipe B	20	19DEC2014	15JAN2015	19MAR2014	17APR2014										
CWM101110	Flowmeter: Const. Weir B at Extg Outfall Manhole	6	16JAN2015	23JAN2015	18APR2014	25APR2014										
CWM101120	Flowmeter: Backfill	12	26JUN2014	11DEC2014	26JUN2014	16MAY2014	26JUN2014									
CWM101500	Boundary Wall: Provision of New U-channel	60	23JAN2014	19JAN2015	23JAN2014	17MAY2014	23JAN2014									
CWM101600	Construction of Sitewide Roadworks	60	28NOV2013	26DEC2014	28NOV2013	24MAR2014	28NOV2013									
CWM101685	Formation of Access M006 0+50 to 0+110	15	19SEP2014	04DEC2014	19SEP2014	06MAR2014	19SEP2014									
CWM101688	Construction of Access M006 0+50 to 0+110	15	05DEC2014	26DEC2014	07MAR2014	24MAR2014										
CWM101689	Construction of Access M001	30	31MAY2014	26DEC2014	31MAY2014	17MAY2014	31MAY2014									
CWM101800	Installation of Sitewide Drainage	380	02JUN2012	26JAN2015	02JUN2012	23APR2014	02JUN2012									
CWM103310	Backfill Extg PTW Area	75	15JUL2014	17DEC2014	15JUL2014	07MAY2013	15JUL2014									
CWM103410	Modification of ex inlet Chamber	45	28NOV2014	11JAN2015	03APR2014	17MAY2014										
CWM200620E	Manhole N1 remaining works	60	17SEP2014	26JAN2015	17SEP2014	17MAY2014	17SEP2014									
CWM215110E	Stockpile Area: Storm Drain bet S19 /CP20 to S20	51	23JAN2014	28NOV2014	23JAN2014	17MAY2014	23JAN2014									
CWM215120E	Stockpile Area: Storm Drain bet S20 to S21	30	16FEB2014	07DEC2014	16FEB2014	17MAY2014	16FEB2014									
CWM216020E	Access M004: Storm Drain bet R2 to R1	24	14FEB2014	28NOV2014	14FEB2014	26APR2014	14FEB2014									
CWM216030E	Access M004: Storm Drain bet R1 to S3	28	28NOV2014	25DEC2014	20APR2014	17MAY2014										
CWM216120E	Access M003: Storm Drain bet S2A to CP2A / CP2B	25	14FEB2014	28NOV2014	14FEB2014	17MAY2014	14FEB2014									
CWM216130E	Access M003: Storm Drain bet S2A to CP2E / CP2D	25	26FEB2014	29NOV2014	26FEB2014	17MAY2014	26FEB2014									
CWM217000E	U channel	125	12OCT2013	12DEC2014	12OCT2013	17MAY2014	12OCT2013									
CWM225205E	LV Cable Ducts East of Extg PTW after demolish	30	28NOV2014	27DEC2014	28MAR2014	26APR2014										
CWM226300E	ELV Cable Ducts around stockpile area	24	21DEC2013	17DEC2014	21DEC2013	24MAR2014	21DEC2013									
CWM229020	BW: ChC0+00 to ChC0+122.4 Type B	30	21FEB2014	11DEC2014	21FEB2014	09APR2014	21FEB2014									
CWM229200	BW: Main Gate at ChC0 / ChB0 Type B	7	27FEB2014	11DEC2014	27FEB2014	09APR2014	27FEB2014									
CWM229450	BW: ChD0+200 to ChD0+407.89 Type B	30	27FEB2014	11DEC2014	27FEB2014	09APR2014	27FEB2014									
CXT995340	Construction of Car Park	28	18DEC2014	28JAN2015	10APR2014	17MAY2014										
CXT995425	Weighbridge at Egress	40	23SEP2014	17DEC2014	23SEP2014	13MAR2014	23SEP2014									
CXT995430	Remaining Roadwork at Access M001 and M003	18	15SEP2014	30DEC2014	15SEP2014	24MAR2014	15SEP2014									
<b>Statutory Works</b>																

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- ◆ Finish milestone point



Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2014					2015		
									OCT	NOV	DEC	JAN	FEB			
EMW953020	Outdoor: Boundary Wall CCTV Test & Commissioning	7	24FEB2015	04MAR2015	25APR2014	03MAY2014										
Testing and Commissioning																
DOU A																
Building and Structures																
EMT715100	DOU A: Performance Test	7	28NOV2014	04DEC2014	11MAY2014	17MAY2014										
DOU B																
Building and Structures																
EMT725100	DOU B: Performance Test	7	28NOV2014	04DEC2014	11MAY2014	17MAY2014										

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