ENVIRONMENTAL MONITORING & AUDIT REPORT

Hip Hing - Ngo Kee Joint Venture

Hong Kong Convention and Exhibition Centre Expansion Project: Monthly Environmental Monitoring and Audit Report for May 2008

June 2008

Environmental Resources Management

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June 2008

Reference 0050690

For and on behalf of
Environmental Resources Management
-
Approved by: Dr Robin Kennish
Signed: Rollin Keereeth
Position: Director
Certified by: (Environmental Team Leader - Marcus Ip)
Date: /

This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.



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Our Ref: 3.16/014/2006/it

17 June 2008

Maunsell Consultants Asia Ltd Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, N.T., Hong Kong

Attn: Ms Vera Chan

Dear Sir/Madam,

Hong Kong Convention Center Expansion Project Monthly EM&A Report for May 2008 (Environmental Permit No. EP-239/2006/B)

With reference to the captioned document concerning the Monthly EM&A report for May 2008 received from ERM dated 16 June 2008, we are pleased to provide our verification for the document pursuant to condition 3 of the Environmental Permit (EP) No. EP-239/2006/B.

Yours faithfully, Nature & Technologies (HK) Limited

Ir Dr Gabriel C K Lam Managing Director

- cc: Hong Kong Trade Development Council (Attn: Mr. K. F. Chan)
 - Hip Hing Ngo Kee Joint Venture (Attn: Mr. Eric Lau & Mr. William Tam)
 - ERM (Attn: Mr. Marcus Ip)

	EXECUTIVE SUMMARY	Ι
1	INTRODUCTION	1
1.1	PURPOSE OF THE REPORT	1
1.2	STRUCTURE OF THE REPORT	1
2		2
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	SITE DESCRIPTION	4
2.3	CONSTRUCTION ACTIVITIES	4
2.4	PROJECT ORGANISATION	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING METHODOLOGY	6
3.1	AIR QUALITY MONITORING	6
3.2	WATER QUALITY MONITORING	9
4	IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION	
	REQUIREMENTS	10
5	MONITORING RESULTS	11
5.1	AIR QUALITY	11
5.2	WATER QUALITY	11
5.3	WASTE MANAGEMENT	11
6	ENVIRONMENTAL SITE AUDITING	12
6	ENVIRONMENTAL SITE AUDITING	12
7	ENVIRONMENTAL NON-CONFORMANCE	13
7.1	Summary of Environmental Exceedance	13
7.2	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	13
7.3	SUMMARY OF ENVIRONMENTAL COMPLAINT	13
7.4	SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION	13
8	FUTURE KEY ISSUES	14
8.1	Key Issues for the Coming Month	14
8.2	MONITORING SCHEDULE FOR THE COMING MONTHS	14
9	REVIEW OF THE EM&A DATA AND EIA PREDICTIONS	15
9.1	AIR QUALITY	15
9.2	WASTE MANAGEMENT	15
9.3	CONCLUSION OF REVIEW	16

10

LIST OF TABLES

Table 2.1	Summary of Construction Activities Undertaken during the
	Reporting Month
Table 2.2	Summary of Environmental Licensing, Notification and Permit
	Status
Table 3.1	Air Monitoring Stations
Table 3.2	TSP Monitoring Parameter and Frequency
Table 3.3	Action and Limit Levels for Air Quality
Table 3.4	TSP Monitoring Equipment
Table 5.1	Quantities of Waste Generated from the Project
Table 8.1	Construction Works to be Undertaken in the Coming Month
Table 9.1	Comparison of the HKAQO and Air Quality Monitoring
	Results
Table 9.2	Comparison of the Estimated and Actual Amount of Waste
	Generated

LIST OF ANNEXES

Annex A	Location of	Works Areas

- Annex B Location of Construction Activities during the Reporting Month
- Annex C Project Organization Chart and Contact Detail
- Annex D Locations of Air Quality Monitoring Stations
- Annex E Monitoring Schedule of the Reporting Month and Next Month
- Annex F Calibration Reports for HVSs
- Annex G 24-hour and 1-hour TSP Monitoring Results
- Annex H Event / Action Plans for Air Monitoring
- Annex I Summary of Implementation Status
- Annex J Waste Flow Table
- Annex K Construction Programme for Next Three Months

EXECUTIVE SUMMARY

The construction works for Hong Kong Convention and Exhibition Centre Expansion Project (EIAO Register No: AEIAR-100/2006) commenced on 1 August 2006. This is the twenty-second monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 31 May 2008 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting month

The major construction works undertaken during the reporting month included the installation of transfer truss, roof truss A, B, C, D and E assembly, the construction works of the transformer room, new pump house building work, HV cable room ground structure and superstructure, pump room underground structural works, floor structures, removal of glass wall and linkbridge corbel installation.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting month is listed below:

24-hour Total Suspended Particulates (TSP) monitoring	5 sets
1-hour TSP monitoring	15 sets
Environmental site auditing	4 times

Air Quality

Five sets of 24-hour and fifteen sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting month. There were no exceedances recorded during the reporting month.

Water Quality

Water quality monitoring at the designated monitoring stations (W3, W4 and W5) was not conducted during the reporting month subsequent to the completion of installation of marine piles on 23 April 2007. Additional water quality monitoring for the dry season was also completed on 14 December 2007. There will not be any water quality monitoring until the next dry season or the removal of temporary marine piles, whichever is earlier.

Construction Waste Management

A total of 35 tonnes of inert C&D materials and 99.5 tonnes of C&D wastes were generated during the reporting month. The C&D wastes and inert C&D materials generated from the Project were disposed of at SENT Landfill / Tseung Kwan O Area 137 Fill Bank and the public fill barging point at Quarry Bay respectively.

Environmental Site Auditing

Five weekly environmental site audits were carried out by the ET. Details of the audit findings and implementation status are presented in *Section 6*.

Environmental Non-conformance

No environmental non-compliance was identified during the reporting month.

No environmental complaint or summons was received during the reporting month.

Future Key Issues

Major works to be undertaken in the coming month are roof truss E assembly, HV cable room superstructure work (L1M – L2), pump room works, construction of floor structure (L3 & L5), removal of glass wall and linkbridge corbel installation.

Potential environmental impacts arising from the construction activities in the coming month are mainly associated with dust, site runoff, marine water quality and waste.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by Hip Hing – Ngo Kee Joint Venture as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for Hong Kong Convention and Exhibition Centre Expansion Project (the Project).

1.1 PURPOSE OF THE REPORT

This is the twenty-second EM&A report which summarises the impact monitoring results and audit findings of the EM&A programme during the reporting month from **1 May 2008** to **31 May 2008**.

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, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3 : Environmental Monitoring Requirement

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels and Event / Action Plans.

Section 4 : **Implementation Status on Environmental Mitigation Measures** summarises the implementation of environmental protection measures during the reporting month.

Section 5: Monitoring Results

summarises the monitoring results obtained in the reporting month.

Section 6 : **Environmental Site Auditing** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 7: Environmental Non-conformance

summarises any environmental exceedance, environmental complaints and environmental summons received within the reporting month.

Section 8: Future Key Issues

summarises the impact forecast and monitoring schedule for the next three months.

Section 9: Review of EM&A Data and EIA Predictions

compares and contrasts the EM&A data in the month with the EIA predictions and annotates with explanation for any discrepancies.

Section 10 : Conclusion

2.1 BACKGROUND

The Hong Kong Trade Development Council (HKTDC) is expanding its existing facilities to provide additional space for Hong Kong's leading trade fairs to be held at the Hong Kong Convention and Exhibition Centre (HKCEC). The Project is located in North Wan Chai and will occupy the aerial space between Phase I and Phase II of the HKCEC. The new Atrium Link Extension (ALE) will span across the water channel between Phase I and Phase II of the HKCEC to accommodate 3 main levels of Exhibition Hall Extensions. The level of the main roof of the Extension will be of similar height as that of the podium roof of the Phase I building. A northern row of permanent supporting columns will be located on land close to Expo Drive Central and similarly a southern row will land near to Convention Avenue. There will be no permanent intermediate columns in the waterway.

The major works activities for the ALE will comprise the following:

- Construction and demolition of the temporary footbridge;
- Demolition of the existing Atrium Link;
- Construction and demolition of a temporary working platform;
- Construction of foundations and pile caps for the ALE; and
- Construction of superstructure for the ALE.

The potential environmental impacts of the Project have been studied in the *"Hong Kong Convention and Exhibition Centre, Atrium Link Extension – Environmental Impact Assessment Report"* (EIAO Register No: AEIAR-100/2006). The EIA was approved on 21 April 2006 under the *Environmental Impact Assessment Ordinance* (EIAO). An Environmental Permit (EP-239/2006) for the works was granted on 12 May 2006. An application for variation of the Environmental Permit (EP-239/2006/A) was granted on 12 February 2007. An application for further variation of the Environmental Permit (EP-239/2006/A) was granted on 18 April 2008, and an amended Environmental Permit (EP-239/2006/B) was granted on 12 May 2008. Under the requirements of Condition 3.1 of Environmental Permit EP-239/2006/B, an EM&A programme as set out in the EM&A Manual and its supplement is required to be implemented.

The construction works commenced on 1 August 2006 and are scheduled to be completed by March 2009.

2.2 SITE DESCRIPTION

The works areas of the Project are illustrated in Annex A.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting month is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*.

Table 2.1Summary of Construction Activities Undertaken during the Reporting Month

Construction Activities Undertaken

- Transfer Truss Installation
- Roof Truss A Assembly
- Roof Truss B Assembly
- Roof Truss C Assembly
- Roof Truss D Assembly
- Roof Truss E Assembly
- Construction Works for Transformer Room
- New Pump House Builder Work
- HV Cable Room Ground Structure
- HV Cable Room Superstructure (L1 L1M and L1M L2)
- Pump Room underground Structural Works
- Floor Structure (L3 & L5)
- Removal of Glass Wall
- Linkbridge Corbel Installation

2.4 PROJECT ORGANISATION

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

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since August 2006 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-239/2006/B	Throughout the Contract	Environmental Permit (EP) EP-239/2006 granted originally on 12 May 2006. Since then the EP have been varied twice. The latest revised EP was issued on 12 May 2008
Notification of			Notification on 23 June
Construction Works			2006

ENVIRONMENTAL RESOURCES MANAGEMENT

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
under Air Pollution Control (Construction Dust) Regulation			
Discharge Licence under Water Pollution Control Ordinance	EP860/W10/XY0145	N/A	-
Chemical Waste Producer Registration	WPN5213-134-H3125- 01	N/A	Chemical waste types: spent paint, acid, alkaline, adhesive, diese fuel, lubricating oil and bitumen.
Valid Construction Noise Permit for area inside the Atrium Link	GW-RS0029-08	Valid from 31 January 2008 to 28 June 2008	
	GW-RS0086-08	Valid from 29 February to 30 June 2008	
	GW-RS0087-08	Valid from 29 February to 30 June 2008	
	GW-RS0228-08	Valid from 15 April to 14 October 2008	
	GW-RS0273-08	Valid from 1 May to 30 October 2008	
	GW-RS0343-08	Valid from 29 May 1 to 30 October 2008	

3 ENVIRONMENTAL MONITORING METHODOLOGY

3.1 AIR QUALITY MONITORING

3.1.1 Monitoring Location

In accordance with the EM&A Manual, 24-hour and 1-hour Total Suspended Particulates (TSP) levels were conducted at the monitoring stations listed in *Table 3.1.* Maps and photographs showing the monitoring stations are presented in *Annex D*.

Table 3.1Air Monitoring Stations

Monitoring Station	Description
AM1	Pedestrian Plaza
AM2	Renaissance Harbour View Hotel Hong Kong

3.1.2 Monitoring Parameters, Frequency and Programme

Air quality monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual (*Table 3.2*). The monitoring programme for this and next three months is shown in *Annex E*.

Table 3.2TSP Monitoring Parameter and Frequency

Parameter	Frequency
24-hour TSP	Once every 6 days
1-hour TSP	3 times every 6 days

3.1.3 Action and Limit Levels

The Action and Limit levels were established in accordance with the EM&A Manual and are presented in *Table 3.3*.

Table 3.3Action and Limit Levels for Air Quality

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
24-hour TSP	AM1	161	260
	AM2	168	260
1-hour TSP	AM1	327	500
	AM2	329	500

3.1.4 Monitoring Equipment

Continuous 24-hour and 1-hour TSP monitoring were performed using High Volume Samplers (HVS) with appropriate sampling inlets installed, located at the designated monitoring station. The performance specification of HVS complies with the standard method "*Determination of Suspended Particulate Matter in the Atmosphere (High Volume Method)*" as stipulated in *US EPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50 Appendix B).*

Table 3.4 summarises the equipment that was used in the 24-hour and 1-hour TSP monitoring.

Table 3.4TSP Monitoring Equipment

Monitoring Station	Equipment	Model (HVS, Calibration Kit)
AM1 (for 24-hr TSP)	HVS, Calibration Kit	GMW-9503, Tisch TE-5025 A
AM2 (for 24-hr TSP)	HVS, Calibration Kit	GMW-9795, Tisch TE-5025A
AM1 (for 1-hr TSP)	HVS, Calibration Kit	GMW-9864, Tisch TE-5025A
AM2 (for 1-hr TSP)	HVS, Calibration Kit	GMW-8115, Tisch TE-5025 A

3.1.5 Monitoring Methodology

Installation

The HVS's at AM1 and AM2 were placed at about 1.3 m above local ground level and about 4.3 m above local ground respectively. All of the HVS's were free-standing with no obstruction.

The following criteria were considered in the installation of the HVS's:

- horizontal platform with appropriate support to secure the samplers against gusty wind were provided at AM1 & AM2;
- a minimum of 2 m separation from walls, parapets and penthouses was required for rooftop samplers;
- no furnace or incinerator flues were nearby;
- airflow around the sampler was unrestricted; and
- permission was obtained to set up the samplers and to gain access to the monitoring stations.

Preparation of Filter Papers by ETS-Test Consultant Ltd

- glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected;
- all filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was 40%; and
- ETS-Test Consultant Ltd, a HOKLAS accredited laboratory, implements comprehensive quality assurance and quality control programmes.

Field Monitoring

- the power supply was checked to ensure that the HVS's were working properly;
- the filter holder and the area surrounding the filter were cleaned;

- the filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- the filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- the swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- then the shelter lid was closed and secured with the aluminium strip;
- the HVS's were warmed-up for about 5 minutes to establish runtemperature conditions;
- a new flowrate record sheet was set into the flow recorder;
- the flow rate of the HVS's was checked and adjust at around 0.6 -1.44 m³/min. The range specified in the EM&A Manual was between 0.6 1.7 m³/min;
- the programmable timer was set for a sampling period of 24 hours ± 1 hour, and the starting time, weather condition and the filter number were recorded;
- the initial elapsed time was recorded;
- at the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact;
- it was then placed in a clean plastic envelope and sealed;
- all monitoring information was recorded on a standard data sheet; and
- filters were sent to ETS-Test Consultant Ltd for analysis.

3.1.6 Maintenance and Calibration

The HVS's and their accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.

The flow rate of each HVS with mass flow controller were calibrated using an orifice calibrator. Initial calibration of the dust monitoring equipments were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVS's using Tisch TE-5025 A Calibration Kit. The calibration records for the HVS's are given in *Annex F*.

3.1.7 Event Action Plan

The Event / Action Plan (EAP) for air quality monitoring is presented in *Annex H*.

3.2 WATER QUALITY MONITORING

3.2.1 Water Quality Monitoring

In accordance with the EM&A Manual, the marine water quality monitoring should be conducted at three designated monitoring stations during the installation and removal of temporary marine piles. The installation of temporary marine piles was completed on 23 April 2007 and therefore water quality monitoring for marine pile installation works was not conducted during the reporting month.

3.2.2 Additional Water Quality Monitoring

As part of the Application for Variation of Environmental Permit (Application No. VEP-227/2007) submitted on 25 January 2007, the Permit Holder undertook additional water quality monitoring in the marine channel in connection with the installation of temporary marine piles.

The installation of temporary marine piles was completed on 23 April 2007 and four weeks of additional water quality monitoring was also completed on 21 May 2007 after the completion of marine piling works. In accordance with the additional water quality programme submitted to the EPD on 4 April 2007, four weeks of additional water quality monitoring during the dry season was undertaken and was completed on 14 December 2007. There will not be any water quality monitoring until the next dry season or the removal of temporary marine piles, whichever is earlier.

3.2.3 Event/Action Plan

The Event / Action Plan (EAP) for water quality monitoring is presented in *Annex J*.

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation and status of relevant required submissions under the EP are reported as part of the monthly EM&A report⁽¹⁾. Relevant submissions made on these measures and requirements during the reporting month are summarised in *Annex I*.

(1) The last Monthly EM&A Report for March 2008 was submitted to the EPD on 23 May 2008.

5.1 AIR QUALITY

The monitoring data at AM1 and AM2 were provided by ETS-Testconsult Ltd. Five sets of 24-hour and15 sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting month. The monitoring data for 24-hour TSP and 1-hour TSP together with wind data and graphical presentations are presented in *Annex G*. In addition, the monitoring results can also be found at the web-site (http://www.hkcecema.com/index.html).

Monitoring of air samples were carried out under both sunny and rainy conditions. The local impacts observed near the monitoring stations were mainly vehicle emissions along Convention Avenue and Fleming Road.

5.2 WATER QUALITY

Water quality monitoring for marine pile installation works was not conducted during the reporting month at the designated monitoring stations (W3, W4 and W5) subsequent to the completion of installation of marine piles on 23 April 2007.

5.3 WASTE MANAGEMENT

Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D wastes. Reference has been made on the Monthly Summary Waste Flow Table prepared by Hip Hing – Ngo Kee Joint Venture (*Annex J*). With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting quarter are summarised in *Table 5.1*. The C&D wastes and inert C&D materials generated from the Project were disposed of at SENT Landfill / Tseung Kwan O Area 137 Fill Bank and the public fill barging point at Quarry Bay respectively.

Table 5.1Quantities of Waste Generated from the Project

	Quantity		
Month / Year	C&D Materials (inert) (a)	C&D Materials (non-inert) ^{b)}	Chemical Waste
May 2008	35 tonnes	99.05 tonnes	0

Notes:

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. No inert C&D material was reused in this Project during the reporting period. Non-reused inert C&D materials were disposed of at the public fill barging point at Quarry Bay.

(b) C&D wastes include steel materials generated from demolition of footbridge, the existing Atrium Link and working platform, paper / cardboard packaging waste, chemical waste and other wastes such as general refuse. The C&D wastes other than general refuse were disposed of at SENT Landfill / Tseung Kwan O Area 137 temporary construction waste sorting facility.

ENVIRONMENTAL SITE AUDITING

6

Weekly site inspections were carried out by the ET. Four site inspections were conducted on 8, 14, 23 and 29 May 2008 respectively. There was no non-compliance event recorded in the reporting month.

The following reminders were given to the Contractor during the reporting month:

- On 14 May 2008, waste was observed to be piled up on the ground adjacent to the provided waste skip in the north-west corner of the Site. The Contractor was reminded to arrange *ad hoc* waste collections when waste volumes were higher than usual. The Contractor was also reminded to maintain sub-contractors' awareness on waste management practices and housekeeping.
- (ii) On 29 May 2008, the Contractor was reminded to arrange *ad hoc* waste collection in the marine channel and clear stagnant water pools on the marine platform after poor weather conditions.

Water Discharge Sampling

In accordance with the discharge licence issued under WPCO, water sampling should be conducted quarterly to ensure the quality of treated effluent at three designated discharge points complies with the requirements of discharge license. Two water samples at Discharge Point 2 and Discharge Point 3 were taken on 20 March 2008 with the results reported in the Monthly EM&A Report for March 2008. The next sampling is scheduled to be conducted in June 2008.

Landscape and Visual Monitoring

In accordance with *Section 6.7* of the EM&A Manual, bi-weekly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures are fully achieved. The monitoring has commenced since January 2007 and is conducted by Earthasia Limited. Landscape and visual mitigation measures were implemented by the Contractor and the implementation status is given in *Annex I*.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

No exceedance of the Action and Limit Levels of 24-hour and 1-hour TSP was recorded at monitoring stations during the reporting period.

7.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

7.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting month.

7.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

No summons or prosecution on environmental matters was received during the reporting month.

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be carried out for the coming monitoring period are summarised in *Table 8.1*.

Table 8.1Construction Works to be Undertaken in the Coming Month

Work to	be	taken

- Roof Truss E Assembly
- HV Cable Room Superstructure Work (L1M L2)
- Pump Room (G.L. 17/A1 to A)
- Floor Structure (L3 & L5)
- Removal of Glass Wall
- Linkbridge Corbel Installation

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

8.2 MONITORING SCHEDULE FOR THE COMING MONTHS

The tentative schedule of TSP monitoring for next month is presented in *Annex E*. The environmental monitoring will be conducted at the same monitoring locations as those for this reporting month.

The installation of temporary marine piles was completed on 23 April 2007 and four weeks of additional water quality monitoring was also completed on 21 May 2007 after the completion of marine piling works. Four weeks of additional water quality for the dry season commenced on 19 November 2007 and was completed on 14 December 2007. There will not be any water quality monitoring until the next dry season or the removal of temporary marine piles, whichever is earlier.

The construction programme for the next three months is presented in *Annex K*.

9.1 AIR QUALITY

9

Since the EIA only have qualitative assessment of dust impact during construction phase, the comparison was made between the monitoring results and the Hong Kong Air Quality Objectives (HKAQO) (*Table 9.1*).

Table 9.1Comparison of the HKAQO and Air Quality Monitoring Results

Monitoring Stations	Corresponding ASR in EIA	HKAQO, ug/m ³		Measured 24-hour TSP Monitoring Results, ug/m ^{3 (2)}	
		24 hour ⁽¹⁾	Average	Range	
AM1	AM8	260	65	23 - 145	
AM2	AM6	260	62	14 - 145	
Remarks [.]					

⁽¹⁾ Only 24-hour TSP monitoring results were compared as there is no maximum allowable concentration of 1 hour TSP in HKAQO.

⁽²⁾ Average and range of data were calculated for the period of monitoring between August 2006 and the reporting month.

The monitoring results show that the 24-hour TSP levels during the reporting month were well below the maximum allowable concentration stipulated in the HKAQO. Recommended mitigation measures in *Section 4.24* of EIA were implemented during the reporting month and were considered effective.

9.2 WASTE MANAGEMENT

The estimated amount of waste generated in this Project and the quantities of waste generated during the reporting month are presented in *Table 9.2*. Recommended mitigation measures in *Sections 6.35 to 6.41* of the EIA were implemented during the reporting month and regarded as effective.

Table 9.2Comparison of the Estimated and Actual Amount of Waste Generated

Type of Material	Estimated Amount of C&D Materials in EIA (inert & non- inert)	Actual Amount of C&D Materials Recorded ⁽¹⁾ (inert & non-inert)
Demolition of temporary	585 tonnes	0
footbridge		
Demolition of existing Atrium	4,680 tonnes	2,505.5 tonnes
Link		
Demolition of temporary	390 tonnes	0
working platform		
Construction of foundations and	20,000 tonnes	21,587.5 tonnes
pile caps		
General Refuse	Insignificant	1,149.4 tonnes
Chemical Waste	Small	288 Litres
Remark:		
(1) The actual amount of C&D Ma	aterials was recorded since the cor	nmencement of constructi
works.		

9.3 CONCLUSION OF REVIEW

The EIA predictions and the monitoring results during the reporting month have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment, and the monitoring results also indicated that the construction of the Project has not caused adverse impacts to the environment. Recommendations given in the EIA are also considered to be adequate and effective for minimising the environmental impacts.

CONCLUSION

The Environmental Monitoring and Audit (EM&A) Report presents the EM&A work undertaken during the period from 1 May to 31 May 2008 in accordance with EM&A Manual and the requirements under EP-239/2006/B.

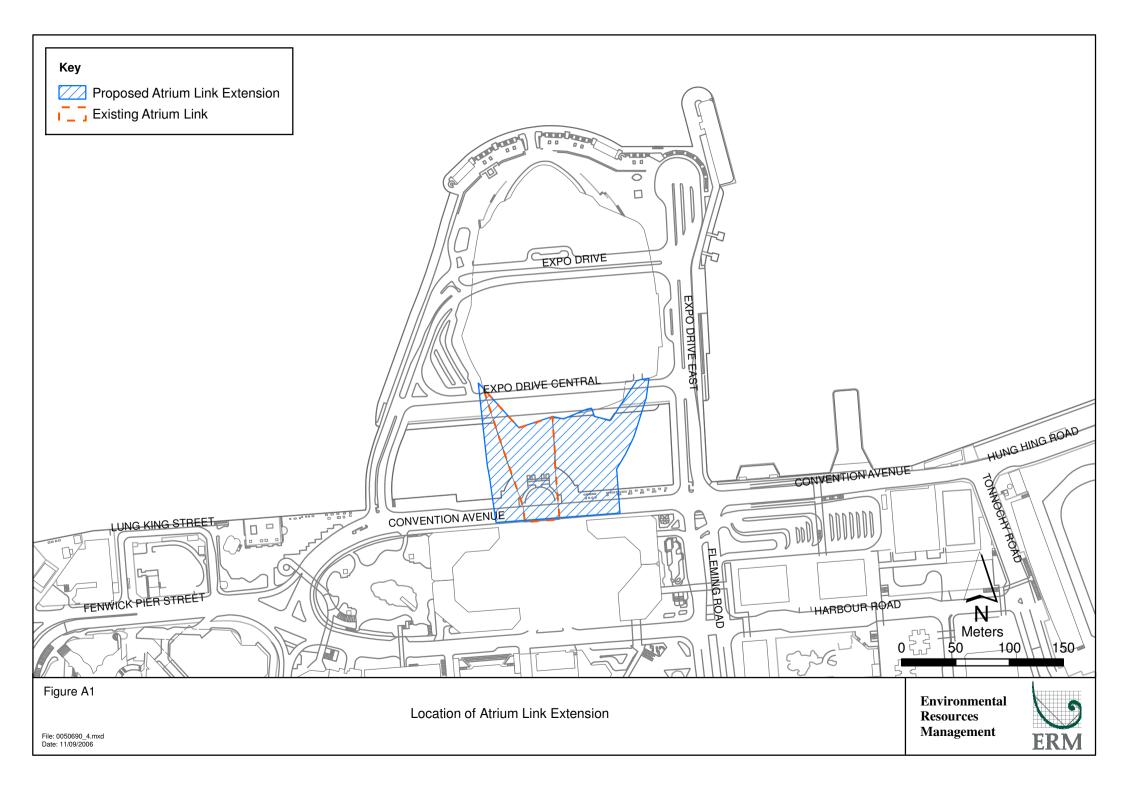
No exceedance of the Action and Limit Levels of 24-hour and 1-hour TSP was recorded at the monitoring stations during the reporting month.

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

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

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

Locations of Works Areas

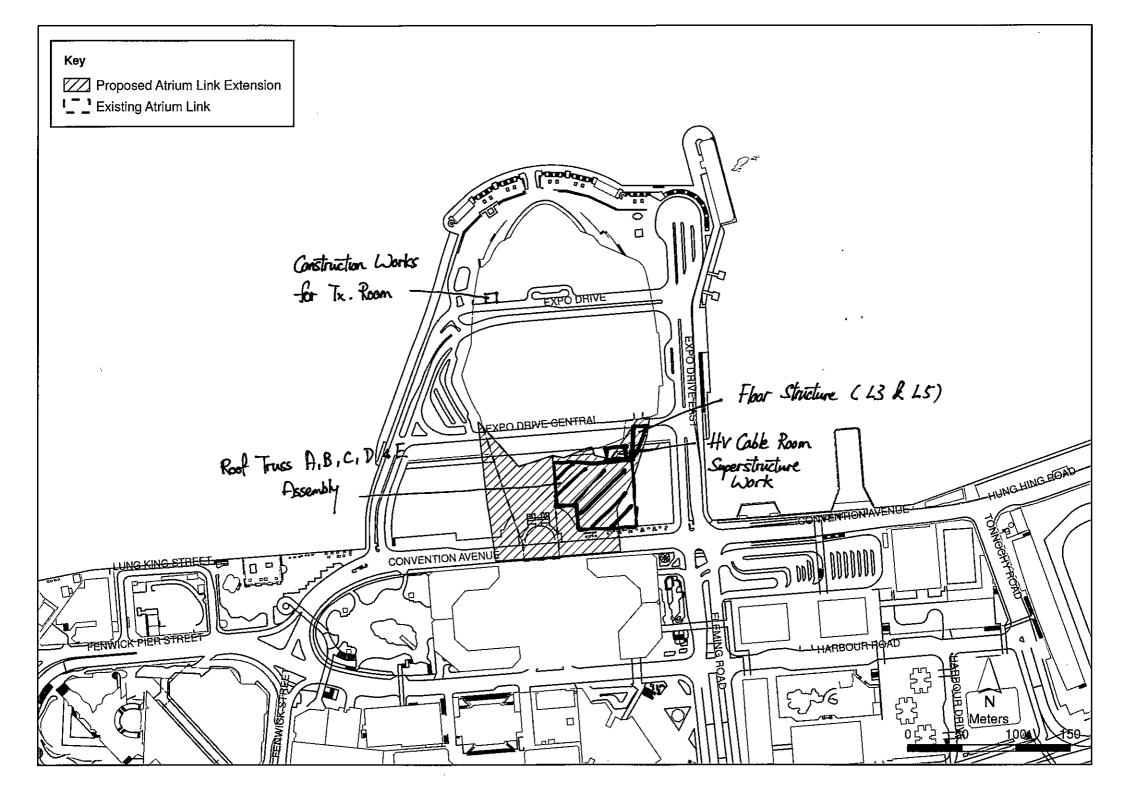


Annex B

Location of Construction Activities during the Reporting Month

Summary of Works for May 2008

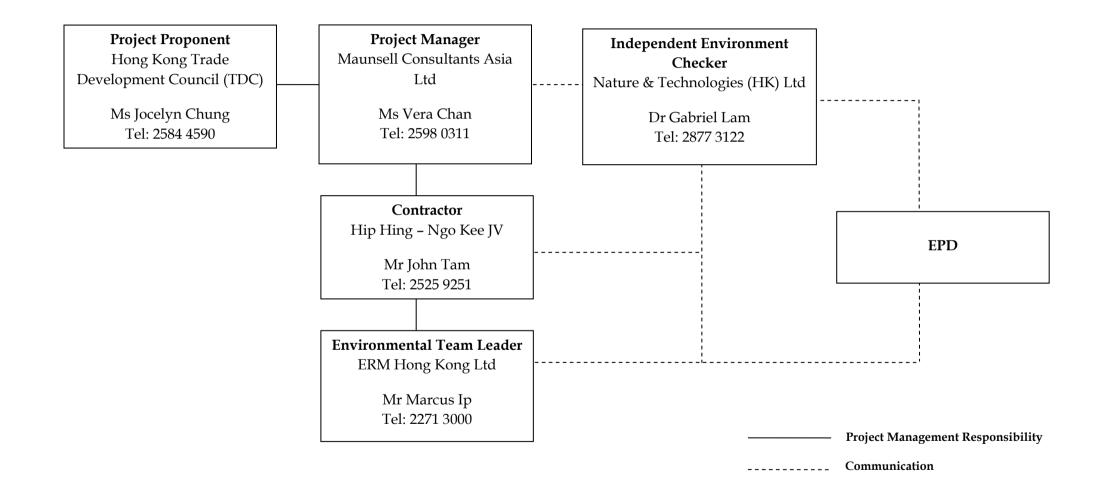
Description	Location	
Transfer Truss Installation	GridA-B/24	
Roof Truss A Assembly	Grid A	
Roof Truss B Assembly	Grid B	
Roof Truss C Assembly	Grid C	
Roof Truss D Assembly	Grid D	
Roof Truss E Assembly	Grid D-E	
Construction works for Transformer Room	L1, Phase II	
HV Cable Room Superstructure Work (L1- L1M)	Grid D-E.17	
HV Cable Room Superstructure Work (L1M-L2)	Grid D-E.17	
Floor Structure (L3 & L5)	Grid D-E/15-19	
Removal of Glass Wall	Façade Phase I	
Linkbridge Corbel Installation	Grid D-E/15-19	



Annex C

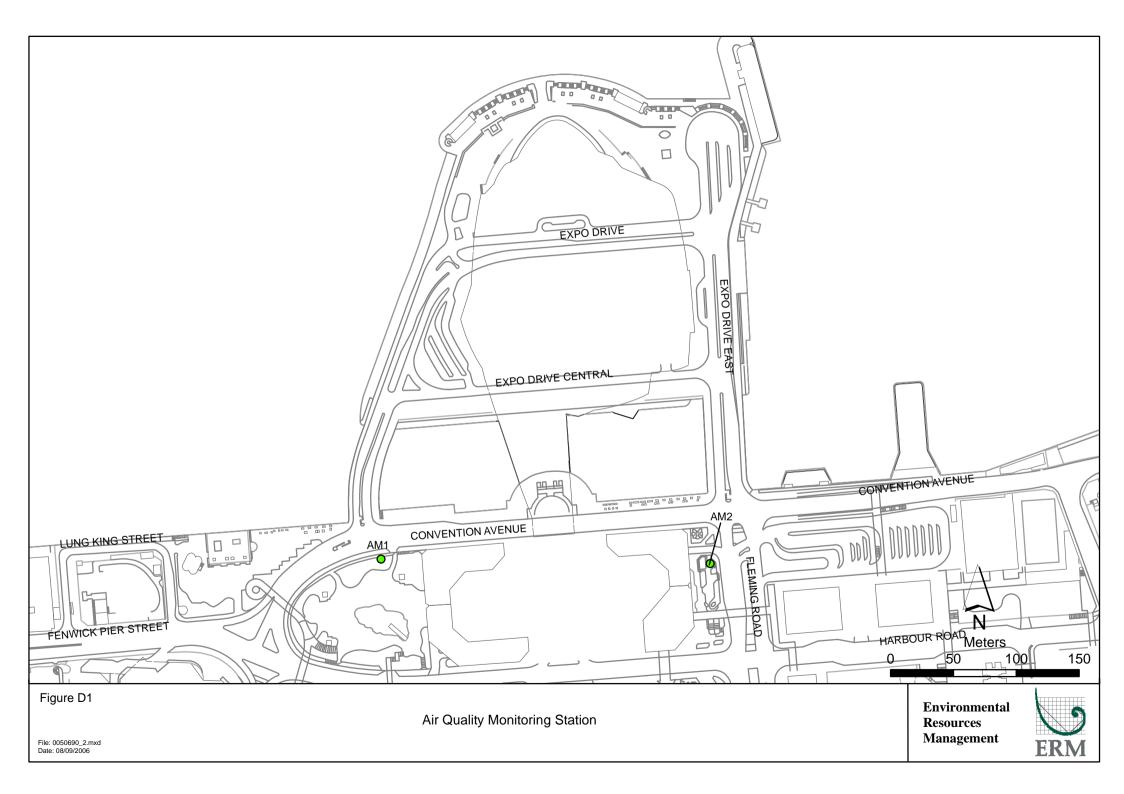
Project Organization Chart and Contact Detail

Project Organization (with contact details)



Annex D

Location of Air Quality Monitoring Stations





Air Quality Monitoring Station (AM1)



Air Quality Monitoring Station (AM2)

Annex E

Monitoring Schedule for the Reporting Month and Next Month

Hong Kong Convention and Exhibition Centre, Atrium Link Extension Air Quality Monitoring Schedule - May 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
					1 hr TSP	
4-May	5-May	6-May	7-May	8-May	9-May	10-May
	1 hr and 24 hr TSP		1 hr TSP		1 hr TSP	1 hr and 24 hr TSP
11-May	12-May	13-May	14-May	15-May	16-May	17-May
	1 hr TSP		1 hr TSP		1 hr and 24 hr TSP	
18-May	19-May	20-May	21-May	22-May	23-May	24-May
	1 hr TSP		1 hr TSP	1 hr and 24 hr TSP	1 hr TSP	
25-May	26-May	27-May	28-May	29-May	30-May	31-May
	1 hr TSP		1 hr and 24 hr TSP		1hr TSP	

Hong Kong Convention and Exhibition Centre, Atrium Link Extension Air Quality Monitoring Schedule - June 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
	1hr TSP	1hr and 24hr TSP	1hr TSP		1 hr TSP	
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
		1 hr, 24 hr TSP and NM	1hr TSP		1hr TSP	1 hr and 24 hr TSP
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
	1 hr TSP		1 hr TSP		1 hr and 24 hr TSP	
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
	1 hr TSP		1 hr TSP	1 hr and 24 hr TSP	1hr TSP	
29-Jun	30-Jun					
	1 hr TSP					

Annex F

Calibration Reports for HVSs



東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

 Tel
 : 2695 8318

 Fax
 : 2695 3944

 E-mail
 : etl@ets-testconsult.com

 Web site
 : www.ets-testconsult.com

TEST REPORT

Calibration Report

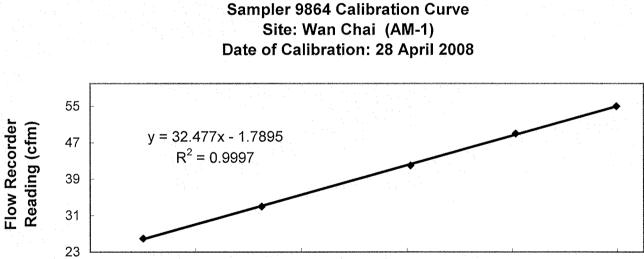
of

High Volume Air Sampler

Manufacturer	:	Graseby GMW	Date of Calibration	:	28 April 2008
Serial No.	:	9864 (ET/EA/003/19)	Calibration Due Date	:	27 June 2008
Method	:	Based on Operations Manual for the	5-point calibration using s	star	dard calibration kit
		manufactured by Tisch TE-5025 A			

Results

Flow recorder read	ding (cfm)	55	49	42	33	26
Qstd (Actual flow	rate, m³/min)	1.75	1.56	1.36	1.08	0.85
Pressure :	763.56 mm Hg		Temp. :	295	к	



Qstd (m³/min)

1.35

Acceptance Criteria :

Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies * / does not comply * with the specified requirements and is deemed acceptable */ unacceptable * for use.

1.15

0.95

Calibrated by :	Mak	Kei	War	
	MAK, K	(ei Wa	ai	
	(Senior	Tech	inician)	

0.75

Approved by :

CHOW, Hoi Tat

1.55

1.75

(Asst. Environmental Officer)



東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

 Tel
 : 2695 8318

 Fax
 : 2695 3944

 Web site
 : www.ets-testconsult.com

TEST REPORT

Calibration Report

of

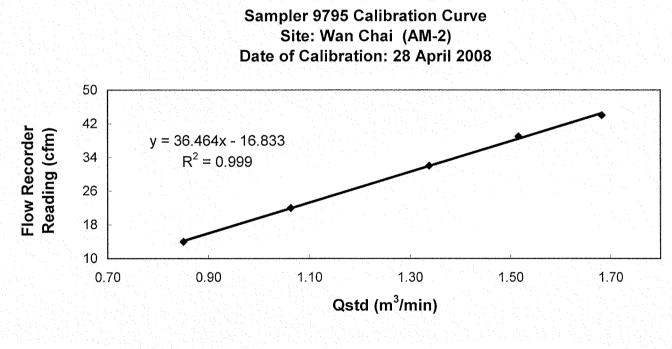
High Volume Air Sampler

Manufacturer	: Graseby GMW	Date of Calibration	:	28 April 2008
Serial No.	9795 (ET/EA/003/18)	Calibration Due Date	:	27 June 2008
Method	: Based on Operations Manual for t	he 5-point calibration using	stai	ndard calibration kit

: Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A

Results

Flow recorder reading (cfm)	44	39	32	22	14
 Qstd (Actual flow rate, m ³ /min) 1.68	1.52	1.34	1.06	0.85
Pressure : 763.	56 mm Hg	Temp. :	295	κ	



Acceptance Criteria :

Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies * / does not comply * with the specified requirements and is deemed acceptable */ unacceptable * for use.

Calibrated by : War

Mak, Kei Wai (Senior Technician)

Approved by

CHOW, Hoi Tat (Asst. Environmental Officer)

Annex G

24-hour and 1-hour TSP Monitoring Results

24-hour TSP Monitoring Results

Date	Filter W	eight (g)	Flow Rate	e (m ³ /min.)	Elapse	e Time	Sampling	Conc.	Weather	Ave. Air	Particulate	Av. flow	Total vol.
	Initial	Final	Initial	Final	Initial	Final	Time(hrs.)	(µg/m³)	Condition	Temp. (°C)	weight(g)	(m³/min)	(m ³)
05/5/08 - 06/5/08	2.8603	2.9409	1.0096	1.0096	13437.42	13461.42	24.0	55	Rainy	26	0.0806	1.0096	1453.82
10/5/08 - 11/5/08	2.7801	2.8755	1.0096	1.0096	13464.41	13488.41	24.0	66	Rainy	24	0.0954	1.0096	1453.82
16/5/08 - 17/5/08	2.8455	2.9956	1.0712	1.0712	13491.41	13515.42	24.0	97	Sunny	25	0.1501	1.0712	1543.17
22/5/08 - 23/5/08	2.8193	2.9085	1.0404	1.0404	13518.42	13541.30	22.9	62	Sunny	24	0.0892	1.0404	1428.26
28/5/08 - 29/5/08	2.7989	2.8888	1.4099	1.4099	13544.30	13568.30	24.0	44	Rainy	28	0.0899	1.4099	2030.26
							Min	44					
							Max	97					
							Average	65					

24-hour TSP Monitoring Results at Station AM1 (Nearby The Grand Hyatt)

24-hour TSP Monitoring Results at Station AM2 (Nearby Renaissance Harbour View Hotel)

Date	Filter W	eight (g)	Flow Rate	(m ³ /min.)	Elapse	e Time	Sampling	Conc.	Weather	Ave. Air	Particulate	Av. flow	Total vol.
	Initial	Final	Initial	Final	Initial	Final	Time(hrs.)	(µg/m ³)	Condition	Temp. (°C)	weight(g)	(m ³ /min)	(m ³)
05/5/08 - 06/5/08	2.8333	2.9318	1.3666	1.3666	11765.71	11789.70	24.0	50	Rainy	26	0.0985	1.3666	1967.08
10/5/08 - 11/5/08	2.8019	2.9087	1.3941	1.3941	11792.70	11816.70	24.0	53	Rainy	24	0.1068	1.3941	2007.50
16/5/08 - 17/5/08	2.8194	3.0093	1.4215	1.4215	11819.70	11843.70	24.0	93	Sunny	25	0.1899	1.4215	2046.96
22/5/08 - 23/5/08	2.8450	2.9663	1.3941	1.3941	11846.70	11870.70	24.0	60	Sunny	24	0.1213	1.3941	2007.50
28/5/08 - 29/5/08	2.8017	2.9065	1.3941	1.3941	11873.70	11897.70	24.0	52	Rainy	28	0.1048	1.3941	2007.50
							Min	50					
							Max	93					
							Average	62					

1-hour TSP Monitoring Results

1-hour TSP Monitoring Results at Station AM1 (Nearby The Grand Hyatt)

Date	Filter W	eight (g)	Flow Rate	(m ³ /min.)	Elapse	e Time	Sampling	Conc.	Weather	Ave. Air	Particulate	Av. flow	Total vol.
	Initial	Final	Initial	Final	Initial	Final	Time(hrs.)	(µg/m ³)	Condition	Temp. (°C)	weight(g)	(m ³ /min)	(m ³)
2-May-08	2.8446	2.8601	0.9788	0.9788	13435.42	13436.42	1.00	264	Rainy	24	0.0155	0.9788	58.73
5-May-08	2.8814	2.8942	0.9788	0.9788	13436.42	13437.42	1.00	218	Rainy	26	0.0128	0.9788	58.73
7-May-08	2.8080	2.8175	1.0404	1.0404	13461.42	13462.41	0.99	154	Sunny	24	0.0095	1.0404	61.80
9-May-08	2.7981	2.8114	1.0096	1.0096	13462.41	13463.41	1.00	220	Rainy	28	0.0133	1.0096	60.58
10-May-08	2.8644	2.8704	1.0096	1.0096	13463.41	13464.41	1.00	99	Rainy	24	0.0060	1.0096	60.58
13-May-08	2.8445	2.8526	1.0096	1.0096	13488.41	13489.41	1.00	134	Sunny	25	0.0081	1.0096	60.58
14-May-08	2.8407	2.8505	1.0096	1.0096	13489.41	13490.41	1.00	162	Sunny	24	0.0098	1.0096	60.58
16-May-08	2.7836	2.7944	1.0712	1.0712	13490.41	13491.41	1.00	168	Sunny	25	0.0108	1.0712	64.27
19-May-08	2.8051	2.8142	0.9788	0.9788	13515.42	13516.42	1.00	155	Rainy	23	0.0091	0.9788	58.73
21-May-08	2.7990	2.8069	0.9788	0.9788	13516.42	13517.42	1.00	135	Rainy	23	0.0079	0.9788	58.73
22-May-08	2.8493	2.8609	1.0404	1.0404	13517.42	13518.42	1.00	186	Sunny	24	0.0116	1.0404	62.42
23-May-08	2.8114	2.8195	1.0096	1.0096	13541.30	13542.30	1.00	134	Sunny	27	0.0081	1.0096	60.58
26-May-08	2.7904	2.7966	1.0096	1.0096	13542.30	13543.30	1.00	102	Rainy	27	0.0062	1.0096	60.58
28-May-08	2.8456	2.8517	1.0096	1.0096	13543.30	13544.30	1.00	101	Rainy	28	0.0061	1.0096	60.58
30-May-08	2.8721	2.8807	1.1944	1.1944	13568.30	13569.30	1.00	120	Rainy	27	0.0086	1.1944	71.66
							Min	99					
							Max	264					

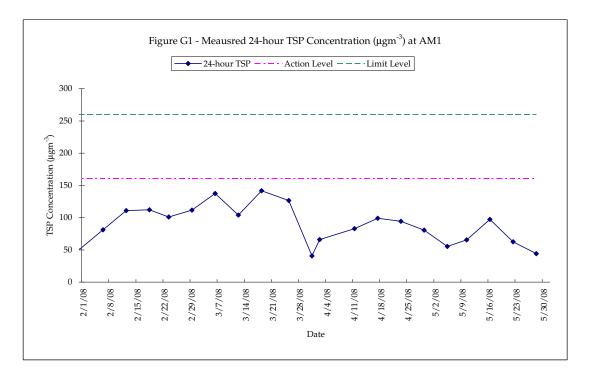
Max 264 Average 157

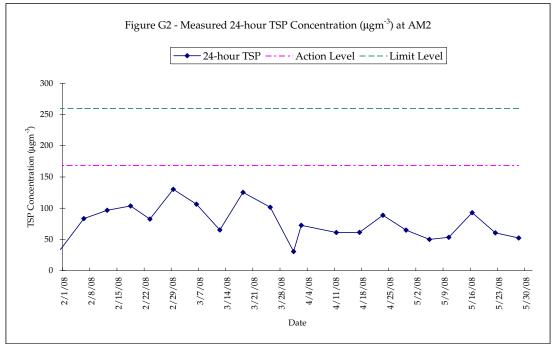
1-hour TSP Monitoring Results at Station AM2 (Nearby Renaissance Harbour View Hotel)

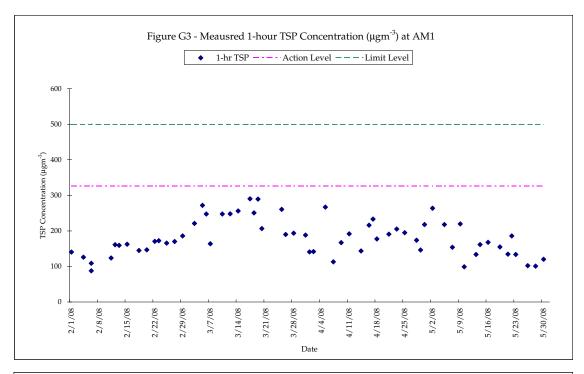
Date	Filter W	eight (g)	Flow Rate	(m ³ /min.)	Elapse	e Time	Sampling	Conc.	Weather	Ave. Air	Particulate	Av. flow	Total vol.
	Initial	Final	Initial	Final	Initial	Final	Time(hrs.)	(µg/m ³)	Condition	Temp. (°C)	weight(g)	(m ³ /min)	(m ³)
2-May-08	2.8434	2.8615	1.2844	1.2844	11763.71	11764.71	1.00	235	Rainy	24	0.0181	1.2844	77.06
5-May-08	2.7888	2.8027	1.3118	1.3118	11764.71	11765.71	1.00	177	Rainy	26	0.0139	1.3118	78.71
7-May-08	2.7810	2.7977	1.3118	1.3118	11789.70	11790.70	1.00	212	Sunny	24	0.0167	1.3118	78.71
9-May-08	2.7995	2.8106	1.3118	1.3118	11790.70	11791.70	1.00	141	Rainy	28	0.0111	1.3118	78.71
10-May-08	2.8919	2.8991	1.2844	1.2844	11791.70	11792.70	1.00	93	Rainy	24	0.0072	1.2844	77.06
13-May-08	2.8466	2.8563	1.3941	1.3941	11816.70	11817.70	1.00	116	Sunny	25	0.0097	1.3941	83.65
14-May-08	2.8352	2.8482	1.2844	1.2844	11817.70	11818.70	1.00	169	Sunny	24	0.0130	1.2844	77.06
16-May-08	2.8265	2.8380	1.3118	1.3118	11818.70	11819.70	1.00	146	Sunny	25	0.0115	1.3118	78.71
19-May-08	2.8171	2.8313	1.3118	1.3118	11843.70	11844.70	1.00	180	Rainy	23	0.0142	1.3118	78.71
21-May-08	2.8702	2.8812	1.3118	1.3118	11844.70	11845.70	1.00	140	Rainy	23	0.0110	1.3118	78.71
22-May-08	2.7903	2.8062	1.2844	1.2844	11845.70	11846.70	1.00	206	Sunny	24	0.0159	1.2844	77.06
23-May-08	2.7998	2.8130	1.4215	1.4215	11870.70	11871.70	1.00	155	Sunny	27	0.0132	1.4215	85.29
26-May-08	2.8076	2.8174	1.3941	1.3941	11871.70	11872.70	1.00	117	Rainy	27	0.0098	1.3941	83.65
28-May-08	2.8365	2.8460	1.3666	1.3666	11872.70	11873.70	1.00	116	Rainy	28	0.0095	1.3666	82.00
30-May-08	2.8188	2.8294	1.3941	1.3941	11897.70	11898.70	1.00	127	Rainy	27	0.0106	1.3941	83.65
							Min	93					
							Max	235					
							Average	155					

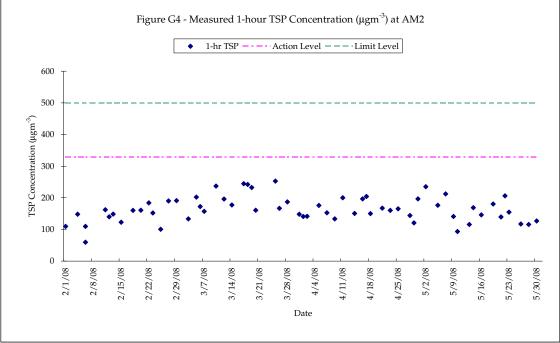
Meteorological Data Extracted from Kin	g's Park Stations of the Hon	g Kong Observatory
	0	

			ĸ	ing's Park Statio	n	
Date	Weather	Average Air Temperature (℃)	Average Relative Humiditiy (%)	Total Rainfall (mm)	Wind Direction (Degree)	Average Wind Speed (km/h)
2-May-08	Rainy	24	90	2.5	100	11.0
5-May-08	Rainy	26	87	1.0	100	17.6
7-May-08	Sunny	24	86	0.0	280	6.5
9-May-08	Rainy	28	82	4.0	20	9.2
10-May-08	Rainy	24	73	0.5	110	7.3
13-May-08	Sunny	25	58	0.0	100	12.6
14-May-08	Sunny	24	70	0.0	110	9.3
16-May-08	Sunny	25	64	0.0	100	6.5
19-May-08	Rainy	23	89	26.5	90	12.5
21-May-08	Rainy	23	89	1.5	100	11.9
22-May-08	Sunny	24	93	0.0	90	5.0
23-May-08	Sunny	27	85	0.0	270	6.6
26-May-08	Rainy	27	88	0.5	210	9.6
28-May-08	Rainy	28	84	59.5	270	7.3
30-May-08	Rainy	27	91	1.0	100	7.7









Annex H

Event Action Plans for Air Quality Monitoring

Event Action				
Action Level	ET	Contractor	ER	IEC
Exceedance for one sample	 Identify source Notify IEC, ER and Contractor within 1 working day after receiving the laboratory results. Conduct additional monitoring to investigate the causes. Report the investigation results and if exceedance is due to contractor's construction works to the IEC, ER and Contractor. Increase monitoring frequency to once per 2 days for 24-hour TSP and daily for 1-hour TSP until exceedance stops if exceedances are considered related to contractor's construction works and report the results to IEC, ER and Contractor within 1 working day after receiving the laboratory results. 	 Take immediate action to avoid further exceedance and rectify any unacceptable practice. Submit air mitigation proposal to IEC and ER for agreement within 3 working days if ET indicated that exceedance is related to the construction works Implement agreed proposal within a time scale agreed with ER and IEC. 	 Confirm receipt of notification of failure in writing. Notify Contractor. Require Contractor to submit air mitigation proposal. Ensure remedial measures are properly implemented. 	 Review monitoring data and investigation report submitted by ET. Review Contractor's air mitigation proposal and advise the ER accordingly. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.
	 Identify source Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results Conduct additional monitoring to investigate the causes. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. Increase monitoring frequency to daily for 24- hour TSP and 1-hour TSP if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. If exceedances continue after 1-week monitoring events, request ER to arrange meeting with ER, IEC and contractor to discuss remedial actions. 	 Take immediate action to avoid further exceedance and rectify any unacceptable practice In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works Implement agreed proposal within a time scale agreed with ER and IEC. Amend working methods if appropriate. 	 Confirm receipt of notification of failure in writing. Notify Contractor. Require Contractor to submit air mitigation proposal. Ensure remedial measures are properly implemented. 	 Review monitoring data and investigation report submitted by ET. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. Review Contractor's air mitigation proposal and advise the ER accordingly. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.

Event		Action		
Limit Level	ET	Contractor	ER	IEC
Exceedance for one sample	 Identify source Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results Conduct additional monitoring to investigate the causes. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. Increase monitoring frequency to daily if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. 	 Take immediate action to avoid further exceedance and rectify any unacceptable practice In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works Implement agreed proposal within a time scale agreed with ER and IEC. Amend working methods if appropriate. 	mitigation proposal.	 Review monitoring data and investigation report submitted by ET. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. Review Contractor's air mitigation proposal and advise the ER accordingly. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.
Exceedance for two or more consecutive samples	 Identify source Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results Conduct additional monitoring to investigate the causes. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. Increase monitoring frequency to daily if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. If exceedances continue after 2 consecutive monitoring events, request ER to arrange meeting with IEC and contractor to discuss remedial actions. 	 Take immediate action to avoid further exceedance and rectify any unacceptable practice In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works Implement agreed proposal within a time scale agreed with ER and IEC. Amend working methods and proposal if appropriate. Stop relevant portion(s) of works as required by ER, ET and IEC 	 Confirm receipt of notification of failure in writing. Notify Contractor. Require Contractor to submit air mitigation proposal. Ensure remedial measures are properly implemented. If exceedances continue arrange meeting with Contractor, IEC and ET and to consider what portion(s) of works should be further mitigated or have to stop. 	 Review monitoring data and investigation report submitted by ET. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. Review Contractor's air mitigation proposal and advise the ER accordingly. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.

Annex I

Summary of Implementation Status

Annex I - Summary of Environmental Protection / Mitigation Activities

Environmental Permit No. EP-239/2006/B

EP Condition	Submission	Action Required by the Permit Holder	Implementation Status
Ref			
	litigating Water Quality Impact		
2.4	Method statement on silt screens for seawater intakes (including design and maintenance requirements)	2 weeks before commencement of marine pile installation works	Method statement was submitted to the EPD on 21/6/06. Method statement (Revision A) was submitted to the EPD on 29/9/06. Method statement (Revision B) and supplementary information was submitted to the EPD on 23/5/07 and 18/6/07 respectively.
2.5	Method statement on silt curtain system for marine piling works (including design and maintenance requirements)	2 weeks before commencement of marine pile installation works	Method statement was submitted to the EPD on 15/9/06.
2.8	Design drawings specifying pile dimension and layout	2 weeks before commencement of marine pile installation works	Marine pile layout (final stage) was submitted to the EPD on 15/2/07.
			Revised marine pile layout (final stage) was submitted to the EPD on $26/3/07$.
Measures for N	litigating Air Quality Impact		
2.9	Design drawings of ventilation facility for fresh air intakes (req'd only before operation of Project)	2 weeks before commencement of installation of ventilation facility	
Measures for N	litigating Landscape and Visual Impact		
2.10	Implementation programme for landscape and visual mitigation measures (for both construction and operational phases of Project)	Within 6 months after commencement of construction of Project	Implementation programme (CM01, CM04 and CM05) was submitted to the EPD on 8/12/06.
2.10	Details of each landscape and visual mitigation measures package (incl plans)	2 weeks before implementation of a particular mitigation package	Proposal on protection and transplantation of existing trees was submitted to the EPD on 8/12/06. Proposal for CM03 was submitted to the EPD on 8/12/06. Proposal for CM01, CM04 and CM05 was submitted to the EPD on 15/12/06. CM01 Rev 1 was submitted to the EPD on 22/1/07. Proposal CM02 was submitted to the EPD on 13/3/07. Proposal for OM01 was submitted to the EPD on 15/11/07.
3.2	Baseline Monitoring Report	One week before the commencement of construction	

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
Construction Pl Air Quality	 The Air Pollution Control (Construction Dust) Regulation shall be implemented and good site practices shall be incorporated in the contract clauses to minimize construction dust impact. A number of practical measures are listed below: skip hoist for material transport should be totally enclosed by impervious sheeting; every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site; 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; 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; 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; all dusty materials wet; the height from which excavated materials dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading; 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; and instigation of an environmental monitoring auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 	Work site / during construction	

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact Operational Ph			
Air Quality	Some fresh air intakes of the Hong Kong Convention and Exhibition Centre Phase I, Renaissance Harbour View Hotel and Grand Hyatt Hotel (ASRs A4, A5 and A6) should be re-diverted to the new air vent shaft provided for Atrium Link Extension where fresh air intake located at +55.8mPD.	Location of ASRs A4, A5 & A6 / Design & Operation Stage (Long-term and Interim Scenario)	Measures not required until commencement of operational phase
Air Quality	Monitoring of NO ₂ concentration underneath the Atrium Link Extension should be conducted.	Underneath the deckover / The first six months upon completion of the ALE.	Measures not required until commencement of operational phase
Construction P	hase		
Noise	 Good Site Practice: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program; mobile plant, if any, should be sited as far from NSRs as possible; machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from onsite construction activities; Environmental audit shall be carried out to ensure that appropriate noise control measures would be properly implemented. 	Construction work areas / Construction period	

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
Operational I			
Noise	 The following noise reduction measures should be considered as far as practicable during detailed design: choose quieter plant such as those which have been effectively silenced; include noise levels specification when ordering new plant; locate fixed plant away from any NSRs as far as practicable; locate fixed plant in plant rooms with thick walls or specially designed enclosure; locate noisy machines in basement or a completely separate building; and develop and implement a regularly scheduled plant maintenance programme in order to maintain controlled level of noise. 	Plant Room / Design and Operation Stage	Relevant design and plant procurement procedures to commence at a later stage
Construction	Phase	1	
Water Quality	There should be no permanent structure in the water channel.	At the ALE sea channel / during operational phase	\bigvee
Water Quality	No dredging and no reclamation should be carried out for the Project.	At work sites / during construction phase	\checkmark
Water Quality	The marine pile layout as shown in Figure 3 of the Environmental Permit should be adopted. No more than approximately 80 numbers of temporary marine piles should be installed in the ALE sea channel during the construction phase. The dimension of each temporary marine pile should be 800mm nominal diameter. These piles should be driven into position and internal space should not be excavated, i.e. left as soil. No dredging or soil / sediment excavation should be carried out. Marine piles would be removed by reverse driving.	At work sites / during construction phase	
Water Quality	Two layers of silt curtain should be installed around each of the marine piling and pile extraction locations. The proposed silt curtain should be extended to seabed with sinker blocks and regularly inspected and maintained to ensure it is serviceable.	At marine work sites and nearby seawater intakes / during marine piling and marine pile extraction	The installation of temporary marine piles was completed on 23 April 2007.

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	All marine works should be carried out in a controlled manner such that release of sediments into the marine environment would be minimized. All wastewater generated from the piling activities should be collected and be treated before controlled discharge. Spoil should also be properly collected for proper disposal.		
Water Quality	In view of the close vicinity of the seawater intakes to the work site, silt screens are recommended to be deployed at the seawater intakes shown in Figure 5.2 of the EIA report during the whole construction period. Silt screens to be provided at seawater intakes should be regularly checked and maintained to ensure that they are serviceable. Refuse collection vessel should be mobilized on a need basis to collect any floating refuse lost from/ trapped at the work site during the construction period.	At seawater intakes / during the whole construction period	The installation of temporary marine piles was completed on 23 April 2007. Silt screens were removed as requested by the intake owners. Silt screens will be reinstalled at seawater intakes prior to the removal of marine piles.
Water Quality	Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary to intercept storm runoff from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. 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. 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. Minimum distances of 100 m should be maintained between the discharge points of construction site runoff and the nearby saltwater intakes.	Works areas / construction period	

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Water Quality	There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site 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. 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. It is anticipated that only a small quantity of wastewater would be generated from the works areas. Any effluent discharge from the construction activities should be diverted away from the sea channel so as to avoid adverse water quality impact. Construction works should be programmed to minimize excavation works in rainy seasons (April to September). If excavation in soil could not be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.	Works areas / construction period	
Water Quality	 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. Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is 	Works areas / construction period	\checkmark

Environmental Protection Measures Type of Location/ Timing Status Impact necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. 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. 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. Water Good site practices should be adopted to remove rubbish and Works areas / construction period $\sqrt{}$ litter from construction sites so as to prevent the rubbish and Ouality litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis. Under normal circumstances, groundwater pumped out of wells, Water Works areas / construction period $\sqrt{}$ Quality etc. for the lowering of ground water level in basement or foundation construction should be discharged into storm drains after the removal of silt in silt removal facilities. Water Water used in ground boring and drilling or rock / soil anchoring Works areas / construction period $\sqrt{}$ should as far as practicable be re-circulated after sedimentation. Quality When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. Wastewater generated from the washing down of mixing trucks Water Works areas / construction period $\sqrt{}$ and drum mixers and similar equipment should whenever Quality practicable be recycled. The discharge of wastewater should be

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on- line standby pump of adequate capacity and with automatic alternating devices.		
	Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.		
Water Quality	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.	Works areas / construction period	\checkmark
	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.		
Water Quality	Bentonite slurries used in diaphragm wall and bore-pile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Works areas / construction period	N
	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.		

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable.Surplus unpolluted water could be discharged into storm drains.Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The 	Works areas / construction period	
Water Quality	 Effluent discharges from building construction and other construction site activities are subject to WPCO control. Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains. Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as 	Works areas / construction period	
Water Quality	necessary. Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters.	Works areas / construction period	No acidic wastewater will be generated.

Type of Location/ Timing Environmental Protection Measures Status Impact Wastewater collected from canteen kitchens, including that from Works areas / construction period Water $\sqrt{}$ Ouality basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow. Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptors with peak storm bypass. Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance. Water It is recommended to provide sufficient chemical toilets in the Works areas / construction period $\sqrt{}$ Quality works areas. The toilet facilities should be more than 30 m from the seafront or any watercourse. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment. Regular environmental audit on the construction site can provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. Water Contractor must register as a chemical waste producer if Works areas / construction period $\sqrt{}$ chemical wastes would be produced from the construction Quality activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. Any service shop and maintenance facilities should be located on Works areas / construction period Water $\sqrt{}$

Impact Quality hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. 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 chemical wastes. General requirements are given as follows: suitable containers should be used to hold the chemical • wastes to avoid leakage or spillage during storage, handling and transport; chemical waste containers should be suitably labelled, to • notify and warn the personnel who are handling the wastes, to avoid accidents: and storage area should be selected at a safe location on site and • adequate space should be allocated to the storage area. To minimize the potential water quality impacts from the Water Works areas / construction period $\sqrt{}$ Quality construction works located at or near the storm system or seafront, the following mitigation measures should be adopted: the use of less or smaller construction plants may be specified to reduce the disturbance to the seabed; temporary sewerage system should be designed to prevent • wastewater from entering the storm system and sea; temporary storage of materials (e.g. equipment, filling • materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works; stockpiling of construction materials and dusty materials ٠ should be covered and located away from any water courses; construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into

Location/ Timing

Status

Summary of Mitigation Measures Implementation Schedule

Environmental Protection Measures

Type of

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact	 the nearby water receivers; construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable; mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff; construction effluent, site run-off and sewage should be properly collected and/or treated; proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/sea; and supervisory staff should be assigned to station on site to closely supervise and monitor the works. 	Works areas / construction period	
Quality	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. The contractor should submit detailed monitoring programme to EPD for approval before commencement of the construction activities.	works areas / construction period	
Water Quality	Monitoring of the water quality at the seawater intakes inside the ALE sea channel should be conducted.	ALE sea channel / Before construction period and during installation and removal of temporary marine piles.	\checkmark
Water Quality	All barges should be fitted with tight seals to their bottom opening to prevent leakage of materials. The decks of all vessels should be kept tidy and free of oil or other substances that might be accidentally or otherwise washed overboard. Loading of barges should be controlled to prevent splashing of materials to the surrounding environment and barges should under no circumstances be filled to a level which would cause overflowing of material or sediment laden water during loading and	Works areas / construction period	No barge will be required for the project.

Type of Location/ Timing Environmental Protection Measures Status Impact transportation. All barges should maintain adequate clearance between vessels and the seabed at all states of the tide and should operate at a reduced speeds to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. Connection of sewage generated from the ALE will be connected Project site / design and construction Relevant works have yet to be Water to the existing public sewer. For handling, treatment and commenced / completed Quality period disposal of other operational stage effluent, the practices outlined in ProPECC PN 5/93 should be adopted where applicable. Consensus from DSD should be sought on technical details of the drainage and sewerage proposals. Construction Phase Waste Recommendations for good site practices during the construction Work site / during the construction period V activities include: 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; training of site personnel in proper waste management and chemical handling procedures; provision of sufficient waste disposal points and regular collection of waste; appropriate measures to minimize windblown litter and dust • during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Waste reduction is best achieved at the planning and design Work site / during the construction period Waste $\sqrt{}$ stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: sorting of demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (ie soil, broken concrete, metal, etc);

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact	 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; 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; proper storage and site practices to minimize the potential for damage to contamination of construction materials; and plan and stock construction materials carefully to minimize amount of waste. 		
Waste	General Refuse 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	 Construction and Demolition Material In order to minimize the impact resulting from collection and transportation of C&D material for off-site disposal, the C&D material from the following construction activities should be reused and recycled as far as possible to reduce the net amount of C&D material generated from the Project; a Waste Management Plan should be prepared in accordance with ETWB TCW No. 19/2005; a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed; in order to monitor the disposal of C&D and solid wastes at 	Work site / during the construction period	

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	 public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included. One may make reference to ETWB TCW No.31/2004 for details; the large amount of C&D waste generated is mainly due to the piling works of large diameter piles' excavation at the sea front site. If however marine sediment is found during pile excavation, the handling and disposal of such wastes will be managed in accordance with the requirements of the DASO and the current ETWB Tech. Circular no. 34/2002. 		
Waste	Chemical Wastes	Work site / during the construction period	\checkmark
	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 <i>Code of Practice on the Packaging, Labelling and Storage of</i> <i>Chemical Wastes</i> . 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 explosives, 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 at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. For this Project, the amount of chemical wastes produced would be small.		
<i>Operational F</i> Waste	Phase General Refuse	Work site / during the construction period	Measures not required until
music	Similar to the existing situation, the main waste type generated during the operation stage of the Project will be general refuse generated by the public and staff. These include waste paper, food wrappings and beverage containers. The disposal of future		commencement of operational phase

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	waste arisings generated at the HKCEC would follow the existing handling and disposal arrangement. Provided proper arrangements are made with licensed contractors to collect the generated waste, adverse waste-related impact is not anticipated during the operation stage. It is expected that there will be a 5-7% increase ratio in the future operations.		
Construction Ph	lase		
Landscape & Visual	Due consideration of appearance and view to 'hide' the construction through careful use of: (a) hoarding design; (b) temporary partition walls; (c) screen for hotels; and (d) temporary footbridge.	Entire works area and adjacent hotels	
Landscape & Visual	Due consideration to protect existing trees.	Entire works area	\checkmark
Landscape & Visual	Due consideration of visual impact from construction activities: (a) construction workers access to reach construction areas without passing through hotels and existing HKCEC; and (b) construction light.	Entire works area	N
Operational Pha	se		
Landscape & Visual	Sensitive soft and hard landscape design for exposed rooftop garden and shady covered area underneath the Atrium Link Extension. Maximize greening opportunity via various in-situ planting and potted planting to achieve 30% of the roof area as planting area for the project.	Roof top and area underneath the Atrium Link Extension	Mitigation measures to be implemented during operational phase
Landscape & Visual	Sensitive building architecture to visually reduce the bulkiness of the building structure, to visually break down the scale of the facades, and to create rooftops for greening opportunities.	Building of the Atrium Link Extension	Mitigation measures to be implemented during operational phase

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Landscape & Visual	Appearance and view considerations: (a) avoid industrial feel of building service elements; (b) interior visual screens for lower levels of the hotels; (c) consider relocation of facilities of interior spaces of hotels; and (d) careful lighting design at roofs and for building façade to avoid night-time glare.	Entire proposed works and adjacent hotels	Mitigation measures to be implemented during operational phase
Landscape & Visual	Transplanting of trees to adjacent locations.	Convention Avenue	Mitigation measures to be implemented during operational phase
Landscape & Visual	Reinstatement of existing waterfront public footpaths along Convention Avenue and the existing open spaces near Fenwick Street.	Convention Avenue and Fenwick Street	Mitigation measures to be implemented during operational phase

Remark:

- $\sqrt{}$ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Hip Hing Ngo Kee JV
- Δ Deficiency of Mitigation Measures but rectified by Hip Hing Ngo Kee JV

Annex J

Waste Flow Table

HKCEC – Expansion Project

Name of Project Proponent: HKTDC **Project Commencement Date: 1 Aug 2006 Construction Completion Date: March 2009**

Monthly Summary Waste Flow Table for Year 2008

Year	Actu	ual Quantities of i	inert C&D M	laterials (in 10	³ Kg) ⁽¹⁾⁽²⁾				Actual Qua	ntities of C&D	Wastes (in 10	3 Kg) ⁽⁴⁾			
	Total Quantity	Broken	Reused in the	Reused in other	Disposed as	Demolition	Stee n of existing	l Materials	1 of existing		ardboard		al Waste	General	Other
	Generated	Concrete ⁽³⁾	Contract	Projects	Public Fill		m Link		platform	раск	aging	(.	L)	refuse	waste (6)
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal
January	495	0	0	0	495	10 (5)	0	0	0	0.2	0.04	0	0	30	122
February	539	0	0	0	539	20 (5)	0	0	0	0.5	0.02	0	0	33.4	20
March	485	0	0	0	485	5	0	0	0	0.5	0.02	0	0	20.0	59
April	545	0	0	0	545	1	0	0	0	0.5	0.02	0	0	25.0	80
May	35	0	0	0	35	0	0	0	0	1.0	0.05	0	0	28.0	70
June															
July															
August															
Sep															
October															
November															
December															
Total	2099	0	0	0	2099	36 (5)	0	0	0	1.17	0.15	0	0	136.4	351

⁽¹⁾ Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. ⁽²⁾ Inert C&D material mainly generated from demolition of atrium link. Note:

⁽³⁾ Broken concrete fro recycling into aggregates.

⁽⁴⁾ C&D wastes include steel materials generated from demolition, paper / cardboard packaging waste, chemical waste and other wastes such as general refuse. Wastes other than general refuse will be disposed of at Tsueng Kwan O Area 137 temporary construction waste sorting facility.

⁽⁵⁾ Waste from demolition of steel structure at existing Atrium Link of HKCEC (Phase 2).

⁽⁶⁾ Wastes include materials associated with additional and alternation (A&A) works of HKCEC (e.g. demolition of E&M equipment and finishing materials, bamboo scaffolding) and piling works.

Annex K

Construction Programme for Next Three Months

		3 Month Rollin	•	Expans	ion and Exhibitio sion Project Master Program		ting on 27 May 08	3				:
ID	Task Name	n <u>a na secondan e seconda de secondan e</u> del secondante de secondante de secondante de secondante de secondante de se	% Comple	Actual Start	Actual Finish	Baseline Start 1	Baseline Finish 1	Feb Mar	Apr	May	Jun Ju	ıl Au
1	PROJECT WIDE		42%	Fri 26/5/06	NA	Fri 26/5/06	Fri 12/6/09			27/5/0		
2	Critical Dates		42%	Fri 26/5/06	NA	Fri 26/5/06	Fri 12/6/09					
3	Project Milestones		99%	Fri 26/5/06	NA	Fri 26/5/06	Fri 12/6/09					
155	Design Submission & Approval (Perma	nent Works)	96%	Thu 25/5/06	NA	Thu 25/5/06	Mon 24/12/07	electros en el conserver en el				
234	Architectural Design	<u>.</u>	97%	Sat 26/8/06	NA	Thu 17/8/06	Mon 24/12/07			V		
240	Fire curtain / Shutter and Smol	ke curtain schedule	100%	Mon 28/8/06	Wed 21/11/07	Mon 28/8/06	Sat 21/7/07					
249	DDR for Fire curtain / Shutte	er and Smoke curtain schedule	100%	Wed 21/11/07	Wed 21/11/07	Sat 21/7/07	Sat 21/7/07					
259	Amendment for AST 1&2,	5&6	99%	Tue 15/5/07	NA	NA	NA					
261	Design Check by Desig		100%	Mon 24/9/07	Mon 24/12/07	NA	NA					
262	DDR by PM		97%	Fri 28/12/07	NA	NA	NA					
264	Amendment for AST 7 & 8		99%	Mon 14/5/07	NA	NA	NA					
266	Design Check by Desig	in Checker	100%	Thu 11/10/07	Thu 27/12/07	NA	NA					
267	DDR by PM		97%	Fri 28/12/07	NA	NA	NA					
287	Foyer Floors and Wall at Level	2,5 and 7	99%	Wed 30/5/07	NA	Thu 17/8/06	Wed 18/7/07					
289	Design Check by Design Cl	iecker	100%	Tue 14/8/07	Mon 26/11/07	Fri 17/8/07	Thu 30/8/07					
290	RIP/DDR by PM		95%	Tue 27/11/07	NA	Thu 31/8/06	Thu 14/9/06					
292	Feature Wall at Level 2 Foyer		100%	Fri 13/7/07	Thu 14/2/08	Fri 13/7/07	Fri 14/9/07					
296	RIP/DDR for Feature Wall a	t Level 2 Foyer	100%	Thu 14/2/08	Thu 14/2/08	Fri 14/9/07	Fri 14/9/07	•				
297	Lift Lobbies at Level 2,3,5,6,7 a	and 7M	100%	Thu 28/6/07	Thu 27/3/08	Thu 28/6/07	Fri 14/9/07					
301	RIP/DDR by PM		100%	Mon 28/1/08	Thu 27/3/08	Fri 31/8/07	Fri 14/9/07					
302	RIP/DDR for Lift Lobbies at	Level 2,3,5,6,7 and 7M	100%	Thu 27/3/08	Thu 27/3/08	Fri 14/9/07	Fri 14/9/07		\$			
303	Foyer Floor and Walls at Level	3 and 6, Interior of Dressing Rm	99%	Fri 27/7/07	NA	Fri 27/7/07	Fri 28/9/07	I				
305	Design Check by Design Cl	necker	100%	Mon 10/9/07	Wed 16/1/08	Fri 31/8/07	Thu 13/9/07					
306	RIP/DDR by PM		90%	Thu 17/1/08	NA	Fri 14/9/07	Fri 28/9/07	_				
308	Internal Aluminium Cladding		99%	Thu 7/6/07	NA	Thu 7/6/07	Thu 13/9/07					
310	Design Check by Design Cl	necker	100%	Tue 14/8/07	Sat 2/2/08	Tue 14/8/07	Wed 29/8/07					
311	RIP/DDR by PM		85%	Mon 4/2/08	NA	Thu 30/8/07	Thu 13/9/07					
313	Foyer reflected ceiling plan		100%	Thu 31/5/07	Tue 11/3/08	Thu 31/5/07	Thu 13/9/07					
316	RIP by PM		100%	Thu 11/10/07	Tue 11/3/08	Fri 31/8/07	Thu 13/9/07					
317	RIP for Foyer reflected ceilin	ng plan	100%	Tue 11/3/08	Tue 11/3/08	Thu 13/9/07	Thu 13/9/07	•	\ \			
324	Remaining Washrooms		100%	Fri 27/7/07	Tue 29/1/08	Fri 27/7/07	Fri 28/9/07		\backslash			
328	RIP/DDR for Remaining Wa	ishrooms	100%		Tue 29/1/08	Fri 28/9/07		•		.		
329	Exhibition Halls / Service Court	nters and Organiser's Offices	97%	Fri 29/9/06	NA	Fri 29/9/06				u		
340	Exhibition Halls		100%	Wed 30/5/07	Thu 24/4/08	Wed 30/5/07	Wed 15/8/07	teeneer alle same	/ · V			
Project: Date: 27	3 Month Rolling Programme based on revised 7/5/2008	Task <u>Excessionsectors</u> Critical Task	Milestone Summary				SCHEDENIESE Georgester	Baseline 1	[[[]]]			

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D Test Nome N Correl Actual Start Month Test Month		3 Month Rolli	Hong ng Programme ba	Expans	ion and Exhibitic sion Project Master Program		iting on 27 May 0	3			-
200 DDR for plant 1005 8.81 (1719) Thm 244003 Weis 15007 <				A - tural Olivert	Ashed Taish	Regeline Stort 1	Baseline Finish 1	Eab Mag	LAnc	1 Marie	 Jul Aug
340 DDR for Exhibition India 10005 The 244068 The 244068 The 244068 Vest 18807 Vest 18807 350 Fourd Concression Area 10055 The 144007 The 148007 Sat 15007 Sat 15007 361 DDR for Food Concression Area 10055 Fri 244040 Fri 244040 Fri 244040 Fri 244040 Sat 15007 The 13007 Sat 15007 The 13007 Sat 15007 The 13007 Sat 15007 The 13007 Sat 15007 The 14007 The 14007 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Wed 15/8/07</td> <td>7/5/08</td> <td></td> <td></td> <td></td>							Wed 15/8/07	7/5/08			
BB Food Concession Area 1905/L Thu 14/007/L PH 24/000/L Thu 14/007/L Set 19007 B4 RW for Food Concession Area 1005/L Food S1/060 Mon 11/060 Thu 14/007/L Set 19007 B55 Door ebetedual (Int. 84011) and acountis doors) 1005/L Food S1/060 Mon 11/060 Set 19007 Set 19007 B56 Door ebetedual (Int. 84011) and acountis doors) 1005/L Ket 164/02 Set 19000 Thu 14/07/T		-	i		i		1		· 4	b	
No. No. No. Status No. No. Status No. No. Status No. No. Status No. No. <td></td> <td></td> <td></td> <td></td> <td>Fri 25/4/08</td> <td>Thu 14/6/07</td> <td>Sat 15/9/07</td> <td></td> <td></td> <td>IJ</td> <td></td>					Fri 25/4/08	Thu 14/6/07	Sat 15/9/07			IJ	
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Maintenance access system - Gandola + BMU för% Wed 4/100s Thu 24/408 Wed 4/100s Wed 4/100s <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>		-				1					
1 Immediate beside grant burker tarm 1000 Wed 16/1/08 Thu 244/08 Thu 2807 Wed 158/07 366 DDR kyr Maintenace access system - Catvalis 96% Wed 16/8/07 NA Wed 158/07 Wed 158/07 368 Maintenace access system - Catvalis 96% Wed 16/8/07 NA Wed 16/8/07 Thu 24/08 368 Balago Checker 100% Thu 21/807 Wed 16/8/07 Thu 98/07 369 Glass Balastrad-Motel Ralling 100% Thu 21/807 Wed 18/07 Thu 98/07 369 Glass Balastrad-Motel Ralling 100% Thu 22/007 NA Thu 22/1008 Wed 18/07 360 Glass Balastrad-Motel Ralling 100% Wed 30/1/8 Wed 18/07 Thu 98/07 371 DDR for Class Balastrad-Motel Ralling 100% Wed 30/1/8 Wed 18/07 Thu 98/07 424 Signage & Electronic Sign (Permanent) 67% Tue 26/607 NA The 28/07 Sat 19/07 425 Dealgo Check by Dealgo Checker 25% Frid 28/08 NA Wed 18/07 Thu 19/02 426 Dealgo Check by Dealgo Checker 61%					i		1			a v	
And DOR for Maintenance access system 7 Gondola 100% Thu 244/05 Thu 244/05 Wed 15/807 NA Wed 15/807 Thu 8/807 586 Maintenance access system - Catwalks 95% Wed 15/807 NA Wed 15/807 Thu 8/807 588 Design Check ty Design Checker 100% Thu 21/807 Thu 28/070 Thu 28/070 Thu 28/070 589 RIP/DDR by PM 60% Thu 22/0007 NA Thu 28/070 Wed 18/07 Thu 9/807 580 Glass Balustrade/Metal Railing 100% Thu 26/070 NA Thu 28/0706 Wed 18/07 571 Design Check by Design Checker 25% F7 202/08 NA Wed 18/07 Thu 16/807 583 Landscape Morks 81% Mon 16/1006 NA Mon 16/1006 Mon 24/1207 583 Landscape Master Plan Detail Design Preparation & Submission 100% Mol 12/1207 Fri 11/1207 The 25/807 Sat 17/207 584 Design Check by Design Checker 100% Sat 12/108 F1 22/088 Thu 2/1807 Mon 10/107		_			:	1				7	
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Construction Construction<		-	ļ		1	1	1				
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Construction Construction<		-									
101 DUN to Classing (Permanent) 67% Tue 26/6/07 NA Tue 26/6/07 Sat 1/9/07 128 Design Check by Design Checker 25% Fri 25/3/08 NA Wed 1/6/07 Thu 16/8/07 139 Landscape Works 81% Mon 16/10/06 NA Mon 24/12/07 Sat 1/9/07 144 Landscape Marker Plan Detail Design Preparation & Submission 100% Mon 12/11/07 Tue 25/9/07 Sat 1/9/07 146 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Mon 13/1/07 Sat 15/107 154 Design Checker 100% Wed 12/12/07 Fri 11/1/08 Tue 27/1/07 Mon 13/1/07 155 DDR for Landscape marker plan by PM 5% Sat 12/1/08 Fri 2/5/08 Tue 11/12/07 Mon 24/12/07 156 DDR for Landscape by PM 100% Sat 12/1/08 Fri 2/5/08 Tue 11/1/2/07 Mon 24/12/07 156 DDR for Landscape Nachal Works (Tx. Rm; Lift Machine rmetc) 100% The 4/4/07 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 167 State 8 Metal Works (Tx. Rm; Lift Machine rmetc) 100% Tue 4/3/08 Fri]	l	ţ	÷ .					
1/24 Signage & Electronic Sign (Permanent) 0.7 % Tote 20007 Cite 10007 Sat 17/1007 Sat 17/12007			1		1			AND IN COMPANY OF THE OWNER OF THE OWNER OF			
Landscape Works B1% Mon 16/10/06 NA Mon 16/10/06 NA Mon 24/12/07 Fill Set 17/11/07 145 Landscape Master Plan Detail Design Preparation & Submission 100% Mon 12/11/07 Tue 11/12/07 Tue 25/91/07 Set 17/11/07 146 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Mon 19/11/07 Sat 17/11/07 154 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Tue 27/11/07 Mon 10/12/07 155 DDR for Landscapie waster plan by PM 100% Sat 12/1/08 Fri 2/5/08 Tue 11/12/07 Mon 24/12/07 156 DDR for Landscaping Plan 100% Fri 2/5/08 Fri 2/5/08 Mon 24/12/07 Mon 24/12/07 166 Miscellanous Details 95% Fri 6/4/07 NA Fri 6/4/07 Sat 15/9/07 Mon 24/12/07 170 RIP/DDR for Steel & Metal Works (Tx. Rm.; Lift Machine metc) 100% Sat 8/3/08 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 Managemeentation 171 RIP/DDR for Steel & Metal Works			Į –		-	•	1		and the second second second	9	
Construction of the construction of				i	·	i	1		ोह्ल्ल		
Landscopp mixed reside by Design Checker Long Wed 12/12/07 Fri 11/1/08 Mon 19/11/07 Sat 1/12/07 1446 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Mon 19/11/07 Sat 15/12/07 154 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Tue 27/11/07 Mon 10/12/07 155 DDR for Landscape by PM 100% Sat 12/1/08 Fri 2/5/08 Tue 11/12/07 Mon 24/12/07 166 Miscellanous Details 95% Fri 6/4/07 NA Fri 6/4/07 Sat 15/9/07 167 Steel & Metal Works (Tx. Rm.; Lift Machine rmetc) 100% Thu 14/6/07 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works (Tx. Rm.; Lift Machine rmetc) 100% Sat 8/3/08 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works 100% Wed 23/4/08 Sat 15/9/07 Sat 15/9/07 Fri 31/8/07 Sat 15/9/07 Fri 31/8/07 Sat 15/9/07 Fri 31/8/07 Sat 15/9/07 Fri 31/8/07 Sat 15/9/07 Fri 3	39			1	-	1 .	1				
Inc. Design Check by Design Checker 95% Sat 12/1/08 NA Mon 3/12/07 Sat 15/12/07 154 Design Check by Design Checker 100% Wed 12/12/07 Fri 11/1/08 Tue 27/11/07 Mon 10/12/07 155 DDR for Landscape by PM 100% Sat 12/1/08 Fri 2/5/08 Tue 11/12/07 Mon 2/12/07 166 Miscellanous Details 95% Fri 6/4/07 NA Fri 6/4/07 Sat 15/9/07 167 Steel & Metal Works (Tx. Rm.; Lift Machine metc) 100% Fri 11/6/07 Wed 23/4/08 Thu 14/6/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works by PM 100% Sat 8/3/08 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works by PM 100% Sat 8/3/08 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works 100% Wed 23/4/08 Sat 15/9/07 Sat 15/9/07 Sat 15/9/07 167 RiP/DDR for Steel & Metal Works 100% Wed 23/4/08 Sat 15/9/07 Sat 15/9/07 Sat 15/9/07 167 Carpark, Driveway/loading and unloading areas 100% Wed 1	145	Landscape Master Plan Detail Design Preparation & Submission	1		1	1					
Hr Defection <	146	Design Check by Design Checker	i		1		1				
State State <td< td=""><td>147</td><td>DDR for landscape master plan by PM</td><td>95%</td><td>Sat 12/1/08</td><td>ŧ</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	147	DDR for landscape master plan by PM	95%	Sat 12/1/08	ŧ						
1000 Fri 2/5/08 Fri 2/5/08 Mon 24/12/07 Mon 24/12/07 Mon 24/12/07 456 DDR for Landscaping Plan 100% Fri 2/5/08 Fri 6/4/07 NA Fri 6/4/07 Sat 15/9/07 466 Miscellanous Details 95% Fri 6/4/07 NA Fri 6/4/07 Sat 15/9/07 467 Steel & Metal Works (Tx. Rm.; Lift Machine metc) 100% Thu 14/6/07 Wed 23/4/08 Thu 14/6/07 Sat 15/9/07 470 RIP/DDR for Steel & Metal Works by PM 100% Sat 8/3/08 Wed 23/4/08 Fri 31/8/07 Sat 15/9/07 471 RIP/DDR for Steel & Metal Works 100% Wed 23/4/08 Wed 23/4/08 Sat 15/9/07 Sat 15/9/07 477 Carpark, Driveway/loading and unloading areas 100% Thu 14/6/07 Tue 4/3/08 Thu 14/6/07 Sat 15/9/07 480 RIP/DDR for Carpark, Driveway/loading and unloading areas by PM 100% Wed 16/1/08 Tue 4/3/08 Fri 31/8/07 Sat 15/9/07 480 RIP/DDR for Carpark, Driveway/loading and unloading areas by PM 100% Wed 16/1/08 Tue 4/3/08 Fri 31/8/07 Sat 15/9/07 480 RIP/DDR for Carpark, Driveway/l	154	Design Check by Design Checker	100%	Wed 12/12/07		1	1				
Definition Definition <td>155</td> <td>DDR for Landscape by PM</td> <td>100%</td> <td>Sat 12/1/08</td> <td>Fri 2/5/08</td> <td>Tue 11/12/07</td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	155	DDR for Landscape by PM	100%	Sat 12/1/08	Fri 2/5/08	Tue 11/12/07	1				
Information Details The state of the	156	DDR for Landscaping Plan	100%	Fri 2/5/08	Fri 2/5/08	Mon 24/12/07	Mon 24/12/07			*	
All Control of the c	166	Miscellanous Details	95%	Fri 6/4/07	NA	Fri 6/4/07	Sat 15/9/07	and a construction of the second s		P	
Indication Indication <td>167</td> <td>Steel & Metal Works (Tx. Rm.; Lift Machine rmetc)</td> <td>100%</td> <td>Thu 14/6/07</td> <td>Wed 23/4/08</td> <td>Thu 14/6/07</td> <td>Sat 15/9/07</td> <td></td> <td></td> <td>P</td> <td></td>	167	Steel & Metal Works (Tx. Rm.; Lift Machine rmetc)	100%	Thu 14/6/07	Wed 23/4/08	Thu 14/6/07	Sat 15/9/07			P	
The state The state The state The state The state	170	RIP/DDR for Steel & Metal Works by PM	100%	Sat 8/3/08	Wed 23/4/08	Fri 31/8/07	Sat 15/9/07			t	
The company, privating and unloading and unloading areas by PM tool Wed 16/1/08 Tue 4/3/08 Fri 31/8/07 480 RIP/DDR for Carpark, Driveway/loading and unloading areas by PM 100% Wed 16/1/08 Tue 4/3/08 Fri 31/8/07 cject.3 Month Rolling Programme based on revised Task EXERCISE STATESTIC Milestone External Tasks	471	RIP/DDR for Steel & Metal Works	100%	Wed 23/4/08	Wed 23/4/08	Sat 15/9/07	Sat 15/9/07	T		>	
roject 3 Month Rolling Programme based on revised	477	Carpark, Driveway/loading and unloading areas	100%	Thu 14/6/07	Tue 4/3/08	Thu 14/6/07	Sat 15/9/07				
oject 3 Month Rolling Programme based on revised	480	RIP/DDR for Carpark, Driveway/loading and unloading areas by PM	100%	Wed 16/1/08	Tue 4/3/08	Fri 31/8/07	Sat 15/9/07				
Unical task	ojecta	3 Month Rolling Programme based on revised	~			<u></u>		Baseline 1			
Progress Split Group By Summary			Palit	•••••	Grou	-					

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	3 Month Rolling Prog	-	Expans	on and Exhibition ion Project Master Program		iting on 27 May (18			•			
ID	Task Name	% Comple	Actual Start	Actual Finish		Baseline Finish 1	Feb	Mar	Арг	May	Jun	Jul	Aug
481	RIP/DDR for Carpark, Driveway/loading and unloading areas	100%	Tue 4/3/08	Tue 4/3/08	Sat 15/9/07	Sat 15/9/07		27/5/08	times.				
182	Expansion Joint and wall expansion details for Ph I & II	95%	Fri 6/4/07	NA	Fri 6/4/07	Fri 14/9/07			V				
187	Detailed Design Preparation	100%	Thu 9/8/07	Tue 26/2/08	Thu 9/8/07	Mon 20/8/07							
88	Design Check by Design Checker	85%	Wed 27/2/08	NA	Tue 21/8/07	Wed 29/8/07		E Market					
515	Structural Design	92%	Fri 26/5/06	NA	Fri 26/5/06	Thu 27/9/07							
501	Stage 3 A&A Works Modification of Existing Atrium Link Structure	100%	Fri 17/11/06	Fri 22/2/08	Fri 17/11/06	Sat 22/9/07	and the second se						
504	Resubmission to IDC for Review	100%	Wed 24/10/07	Thu 31/1/08	NA	NA							
505	RIP/DDR Submission by PM	100%	Fri 1/2/08	Fri 22/2/08	• Thu 2/8/07	Sat 22/9/07		i.	•	•	·		
506	RIP/DDR for Structural Plan	100%	Fri 22/2/08	Fri 22/2/08	Sat 22/9/07	Sat 22/9/07	∢	>					
516	Strengthening works of steel truss between Grid A&B at L2	100%	Tue 9/1/07	Fri 22/2/08	Tue 9/1/07	Fri 20/7/07							
520	DDR for Strengthening works	100%	Fri 22/2/08	Fri 22/2/08	Fri 20/7/07	Fri 20/7/07	•	>					
641	External façade Design (Structural)	100%	Mon 29/1/07	Fri 15/2/08	Mon 29/1/07	Tue 28/8/07							
649	Resubmit to IDC	100%	Tue 6/11/07	Thu 31/1/08	NA	NA							
650	Resubmit to PM	100%	Fri 1/2/08	Fri 15/2/08	NA	NA							
551	DDR for External façade Design	100%	Fri 15/2/08	Fri 15/2/08	Tue 28/8/07	Tue 28/8/07							
552	BS Design	98%	Thu 1/6/06	NA	Thu 1/6/06	Wed 19/12/07			essone sources	9			
553	BS-HVAC	100%	Fri 14/7/06	Mon 7/1/08	Fri 14/7/06	Wed 19/9/07				•			
665	Details Design Review	100%	Tue 5/9/06	Mon 7/1/08	Тце 5/9/06	Wed 19/9/07	·						
671	HVAC Layout	100%	Wed 30/5/07	Mon 7/1/08	Wed 30/5/07	Wed 19/9/07	-						
575	DDR for HVAC	100%	Mon 7/1/08	Mon 7/1/08	Wed 19/9/07	Wed 19/9/07							
576	BS - Electrical	100%	Fri 21/7/06	Wed 6/2/08	Fri 21/7/06	Wed 26/9/07							
677	Electrical loading calculation & Generator Sizing, Schematic design of elect	100%	Fri 21/7/06	Wed 6/2/08	Fri 21/7/06	Wed 26/9/07	Ň						
385	DDR for Electrical loading calculation & Generator Sizing, Schematic design	100%	Wed 6/2/08	Wed 6/2/08	Wed 26/9/07	Wed 26/9/07	•						
		100%	Fri 21/7/06	Thu 31/1/08	Fri 21/7/06	Mon 27/8/07							
595	Lighting Installation		Thu 31/1/08	Thu 31/1/08	Mon 27/8/07	Mon 27/8/07	r						
703	DDR for Lightning Installation	100%				Thu 27/9/07							
723	BS - Fire Services	100%	Wed 14/6/06	Tue 13/11/07	Wed 14/6/06		1						
735	Details Design Review	100%	Fri 3/11/06	Tue 13/11/07	Fri 3/11/06	Thu 27/9/07	-						
741	Stage 2	100%	Thu 14/6/07	Tue 13/11/07	Thu 14/6/07	Thu 27/9/07							
745	DDR for Fire Services	100%	Tue 13/11/07	Tue 13/11/07	Thu 27/9/07	Thu 27/9/07	_						
746	BS - Plumbing and Drainage	100%	Fri 2/6/06	Fri 7/12/07	Fri 2/6/06	Tue 28/8/07							
747	Reivew In Principle	100%	Fri 2/6/06	Mon 27/11/06	Fri 2/6/06	1							
821	BS - Diversion	92%	Thu 1/6/06	NA	Thu 1/6/06	Wed 19/12/07				\mathbf{v}			
347	BS Diversion Plan for Pedestrain Tunnel (Phase 2)	99%	Fri 5/10/07	NA	Sat 25/8/07	Sat 3/11/07				<u> </u>			
	ect:3 Month Rolling Programme based on revised 27/5/2008 Task EXERCISESENCE Mile Critical Task Sun Progress EXERCISESENCE		+ 1 1 3 5 1 J 1	Proje			Base	line 1			I		

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		3 Month Rolling Prog		Expans	on and Exhibitio ion Project Master Program		ting on 27 May 0	ł				
a	Task Name	an daha Manapatèn di Kalendari dan Kalendari dan Kalendari dan Kalendari dan Kalendari dan Kalendari dan Kalend Manapatén Kalendari dan Kale	% Compl-	Actual Start	Actual Finish	Baseline Start 1	Baseline Finish 1	Feb Mar	Apr	May	Jun Ju	ıl Aug
850		on by PM (resubmission req.)	100%	Wed 12/3/08	Fri 28/3/08	Thu 18/10/07	Sat 3/11/07	01	27 27	/5/08	1	
851	Resubmit for RIP/DDR		0%	NA	NA	NA	NA					
873	BS Diversion Plan for A&	A works at Phase II	100%	Mon 24/9/07	Wed 20/2/08	Mon 24/9/07	Wed 19/12/07				·	
883	BS Design for Additional	Slab at Level 5 & 7 at Phase II	100%	Fri 15/6/07	Mon 28/1/08	Fri 15/6/07	Mon 10/9/07					
887	RIP/DDR for Additiona	I Slab at Level 5 & 7 at Phase II	100%	Mon 28/1/08	Mon 28/1/08	Mon 10/9/07	Mon 10/9/07					
936	Curtain Wall / Cladding		39%	Fri 20/4/07	NA	Fri 20/4/07	Fri 21/3/08			ana propiosi en		Hatilta para Atlanta.
938	Shop Drawing Submission & Ap	proval	75%	Thu 20/9/07	NA	Sat 4/8/07	Wed 3/10/07					
939	Visual and Performance Mock U	p Test	80%	Wed 21/11/07	ŃA	Thu 4/10/07	Mon 3/12/07					
940	Production & Delivery of Steel P	ost & frames (transom + mullion), Aluminium compon	10%	Mon 7/4/08	NA	Tue 4/12/07	Fri 21/3/08	IIIIIIIIIIIII				
941	Production & Delivery of Inserts	& Anchors	5%	Mon 5/5/08	NA	Thu 4/10/07	Tue 22/1/08				human	mmm
944	M & E Long - Lead Items		. 35%	Sat 16/6/07	NA	Sat 16/6/07	Mon 15/9/08		ensis di territori	1999 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993		
945	HVAC Equipment Procurement		80%	Wed 15/8/07	NA	Fri 21/9/07	Sat 14/6/08					
946	Electrical Equipment		85%	Thu 1/11/07	NA	Thu 27/9/07			PARTY AND A SUCCESSION OF THE PARTY AND A	12-8034 - 3P.976 - 27.997 - 58940		,
947	Lift & Escalator Procurement & I	Delivery	80%	Mon 7/1/08	NA	Sat 3/11/07	Wed 14/5/08					
952	Bearing for Steel Truss		98%	Thu 12/10/06	NA	Thu 12/10/06	Wed 5/9/07					
954	Bearing Procument and Delivery	1	95%	Fri 20/10/06	NA	Fri 20/10/06	Wed 5/9/07					
986	CSWD / CBWD	~~~	56%	Fri 14/9/07	NA	Wed 15/8/07	Sat 27/9/08			STORE STORE STORE		
987	CSW/CBW Submission/Comment/Re	e-submit/Approval	68%	Fri 14/9/07	NA	Wed 15/8/07	Mon 18/8/08			मननरोष		
989	Shop Drawing Submission/Comment	/Re-submit/Approval	40%	Mon 29/10/07	NA	Wed 26/9/07	Sat 27/9/08			MMM	<u>daammin nin nin nin nin nin nin nin nin nin</u>	
990	Site Works		31%	Mon 19/6/06	NA	Mon 19/6/06	Fri 12/6/09					
1016	A & A Works to Existing HKCEC Phase	1 and 2	65%	Wed 26/7/06	NA	Wed 26/7/06	Fri 10/10/08			tona and the spectrum of the		ana na kata na Na kata na kata n
1020	HK CEC Phase 1 - New Atrium	Link Connection	26%	Mon 30/4/07	NA	Mon 30/4/07	Fri 10/10/08			1993 (1993) 1993 (1993)	i internet de la constanti I	
1025	Modification Works for Exte	mal Façade (level +10.40 to 51.80)	10%	Fri 9/5/08	NA	Tue 15/1/08	Thu 21/2/08				122222	
1054	HKCEC Phase 2 - New Additio	nal Slab At L5 & L7	98%	Thu 1/11/07	NA	Fri 16/11/07	Fri 11/4/08			_		
1060	New Builders' & Finishing V	Vorks	100%	Sat 22/12/07	Fri 29/2/08	Fri 1/2/08	Fri 11/4/08					
1061	E&M works		100%	Sat 22/12/07	Fri 29/2/08	Fri 1/2/08	Mon 24/3/08		III			
1072	Demolition of Existing Artrium Link	un de la	92%	Wed 14/3/07	NA	Wed 14/3/07	Wed 28/5/08					
1078	Demolition of Existing Atrium Link		90%	Wed 14/3/07	NA	Wed 14/3/07	Wed 28/5/08	n an		and the second second		
1087	Install Replacement Truss (RF to	b L2) and Remove L7/L5 Slab & secondary beam	85%	Fri 29/6/07	NA	Fri 29/6/07	Mon 20/8/07					
1090	Remove Top Portion of Existing	Eastern Façade Truss	100%	Fri 7/9/07	Sat 29/9/07	Tue 4/9/07	Wed 19/9/07					
1091	Removal of remaining Existing B	astem & Western Façade Truss	0%	NA	NA	Wed 23/4/08	Wed 28/5/08				퍼 .	<u></u>
1092	New Atrium Link Extension		25%	Tue 27/6/06	NA	Tue 27/6/06	Fri 12/6/09					
1170	Substructure Construction - G	rīde 16 & 17 (Minipile locations)	94%	Mon 5/11/07	NA	Sat 6/10/07	Wed 31/10/07		V			
Project3 Date: 27	3 Month Rolling Programme based on revised //5/2008		estone nmary it	1.1.1.1.1.1	Strategic Proje	mal Tasks E ect Summary E up By Summary I		Baseline 1				

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		3 Mon	Hong th Rolling Programme ba	Expans	ion and Exhibitio sion Project Master Program		ting on 27 May (08					
ID	Task Name		% Comple	Actual Start	Actual Finish	Baseline Start 1	Baseline Finish 1		Apr	May	Jun	Jul	Aug
1171	Pile Cap Construction (G	rid A1-A/16-17)	78%	Sat 24/11/07	NA	Sat 6/10/07	Wed 31/10/07				1		
1172	Pile Cap Construction	/Tie Beams / Ground Slab	78%	Sat 24/11/07	NA	Sat 6/10/07	Wed 31/10/07						
1173	Pile Cap Construction (G	rid D-E/16-17)	100%	Mon 5/11/07	Wed 19/3/08	Sat 6/10/07	Wed 31/10/07		\bigtriangledown				
1174	Pile Cap Construction	/Tie Beams / Ground Slab	100%	Mon 5/11/07	Wed 19/3/08	Sat 6/10/07	Wed 31/10/07	Province Revenue Andreas					
1175	Superstructure		53%	Thu 30/11/06	NA	Thu 30/11/06	Thu 25/9/08	onananining shaka chui		i altri i den de la composición de la c			
1176	Columns to Steel Truss - Grid	17	100%	Mon 4/12/06	Mon 28/1/08	Mon 4/12/06	Tue 4/12/07	1					
1180	Column E/17		100%	Fri 5/10/07	Mon 28/1/08	Thu 8/11/07	Tue 4/12/07	•					
1182	Bearing Installation at	Column E/17	100%	Mon 28/1/08	Mon 28/1/08	Sat 1/12/07	Tue 4/12/07						
1192	Column D/17		100%	Fri 18/5/07	Wed 23/1/08	Fri 18/5/07	Sat 8/9/07						
1194	Bearing Installation at	Column D/17	100%	Wed 23/1/08	Wed 23/1/08	Wed 5/9/07	Sat 8/9/07						
1195	Columns to Steel Truss - Grid	24	100%	Thu 14/12/06	Wed 23/1/08	Thu 14/12/06	Sat 8/9/07						
1209	Columns D/24		100%	Wed 16/5/07	Wed 23/1/08	Wed 16/5/07	Sat 8/9/07						
1211	Bearing Installation at	Column D/24	100%	Wed 23/1/08	Wed 23/1/08	Wed 5/9/07	Sat 8/9/07						
1212	Additional Columns E/17a, E/1	7/b & connecting R.C Structures at	L1M 95%	Tue 4/12/07	NA	Thu 1/11/07	Sat 12/4/08	State of the State					
1213	Ground Beams/Slab	······································	100%	Tue 4/12/07	Wed 19/3/08	Tue 18/3/08	Tue 25/3/08		Ē				
1214	L1M columns & floor struct	ures	85%	Thu 20/3/08	NA	Fri 28/3/08	Sat 12/4/08						
1215	Construction of Column E/1	7a	100% ;	Thu 20/3/08	Wed 9/4/08	Thu 1/11/07	Mon 31/12/07	-					
1216	Construction of Column E/1	7b	100%	Thu 20/3/08	Mon 7/4/08	Thu 1/11/07	Mon 31/12/07						
1217	Steel Roof Trusses and Super	structure	40%	Thu 30/11/06	NA	Thu 30/11/06	Thu 25/9/08						
1280	Temporary Works for Slid	ling & Heavy Lifting	72%	Sat 8/9/07	NA	Sat 8/9/07	Wed 19/12/07						
1281	Heavy Lifting & Sliding	System Installation	100%	Sat 8/9/07	Sun 6/1/08	Sat 8/9/07	Mon 22/10/07						
1283	Transfer Truss for Grid 24	#А-В	81%	Fri 14/9/07	NA	Fri 14/9/07	Mon 17/12/07	and the second se	an traitean an taon an				
1284	Delivery of Materials		100%	Fri 14/9/07	Tue 18/9/07	Fri 14/9/07	Wed 26/9/07	1 \		•.			
1285	Assembly Steel Trans	fer Truss on Column A1a/24 & Ba/24	100%	Mon 17/9/07	Wed 31/10/07	Mon 17/9/07	Mon 5/11/07						
1286	Connection of Roof Tr	uss A	70%	Sun 4/5/08	NA	Tue 11/12/07	Mon 17/12/07			Im			
1287	Connection to Roof Tr	uss B	0%	NA	NA	Tue 11/12/07	Mon 17/12/07						
1288	Roof Truss A		70%	Sun 14/10/07	NA	Wed 10/10/07	Wed 20/2/08						
1292	Lifting Up to Grid C Hig	gh Level	100%	Mon 7/1/08	Tue 8/1/08	Thu 15/11/07	Sat 17/11/07	-		v			
1293	Sliding to Permanent F	-	100%	Tue 22/1/08	Wed 20/2/08	Mon 19/11/07	Mon 10/12/07	an ensurements					
1294		Load Transfer / Bracing for Roof Trus	SSA&B 85%	Thu 21/2/08	NA	Tue 11/12/07	Wed 16/1/08						
1297	Roof Truss B		72%	Wed 14/11/07	NA	Wed 10/10/07	Wed 20/2/08		96-2 1				
1301	Lifting Up to Grid D Hig	gh Level	100%	Mon 7/1/08	Tue 8/1/08	Thu 15/11/07	Sat 17/11/07	•		v			
1302	Launch Truss B to Gri	-	100%	Мол 21/1/08	Sat 2/2/08	Mon 19/11/07	Fri 7/12/07	-					
1303	Launch to Permanent		100%		Wed 20/2/08	Sat 8/12/07	Mon 10/12/07						
	3 Month Rolling Programme based on revised 7/5/2008	Task ERRER	-		Proje	ct Summary		Baseline 1			οφι αίατη το το τ ογ		
		Progress	Split	*******	Grou	p By Summary							

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		3 Month Rolling Progra		Expans	on and Exhibitio ion Project Master Program		ting on 27 May 08	8						
т а	Task Name		% Comple	Actual Start	Actual Finish		Baseline Finish 1	Feb	Mar	Apr	May	Jun	Jul	Aug
1304	Installation of Capital / Load Transfer / Bracing for Ro	of Truss A & B	75%	Thu 21/2/08	NA	Tue 11/12/07	Wed 16/1/08	3	27/5/08		-			
1306	Roof Truss C		76%	Thu 20/12/07	NA	Wed 14/11/07	Thu 13/3/08	24-1202/06/03						
1308	Assembly of Steel Roof Truss C on Site		100%	Fri 25/1/08	Tue 1/4/08	Mon 19/11/07	Mon 14/1/08			and the second se				
1309	Lifting of Roof Truss C to Permanent Level		100%	Wed 9/4/08	Wed 9/4/08	Tue 15/1/08	Tue 22/1/08			I				
1310	Installation of Capitals / load transfer & Bracing for Ro	of Truss C & D	80%	Wed 16/4/08	NA	Fri 25/1/08	Thu 7/2/08	11		Ref.C				
1312	Roof Truss D		79%	Mon 4/2/08	NA	Wed 14/11/07	Thu 13/3/08	V			1			
1313	Delivery of Materials		100%	Mon 4/2/08	Tue 1/4/08	Wed 14/11/07	Sat 24/11/07	100000000000000000000000000000000000000		191				
1314	Assembly of Steel Roof Truss D on Site		100%	Thu 14/2/08	Fri 18/4/08	Mon 19/11/07	Thu 17/1/08	2010						
1315	Lifting of Roof Truss D to Permanent Level		100%	Mon 28/4/08	Wed 30/4/08	Fri 18/1/08	Thu 24/1/08				EI			
1316	Installation of Capitals / load transfer & Bracing for Ro	of Truss C & D	80%	Fri 2/5/08	NA	Fri 25/1/08	Thu 7/2/08							
1318	Panel Truss E		90%	Wed 9/4/08	NA	Mon 21/1/08	Tue 25/3/08							
1319	Assembly of Steel Panel Truss E with Back Span		90%	Wed 9/4/08	NA	Mon 21/1/08	Tue 25/3/08			344.37%				
1320	Steel Structure for Existing Façade to Grid B	ļ	8%	Tue 4/9/07	NA	Tue 4/9/07	Wed 2/7/08	and a second			an batan sa		SELECTION OF THE OWNER	
1321	Strengthening Works,Removal of Replacement T	บรร	22%	Tue 4/9/07	NA	Tue 4/9/07	Wed 28/5/08				and Constant States			
1323	Strengthening of Bottom Chord of Existing East	Truss at L2	90%	Fri 18/4/08	NA	Fri 14/3/08	Tue 8/4/08			<u>1</u> .,				
1326	Hanger Columns and Main Truss () Erection		5%	Fri 9/5/08	NA	Tue 29/1/08	Mon 24/3/08						\mathbf{A}	
1327	Hanger Columns Installation to Level 2 & Truss /	Along Grid A & B	5%	Fri 9/5/08	NA	Tue 29/1/08	Mon 24/3/08						2	
1328	Level 2 +14.40 (Existing Façade to Grid A)		22%	Tue 8/1/08	NA	Sat 19/4/08	Wed 2/7/08				isa) (-satsi puls-seisi s	in the second second	and the second	552872.000
1329	Remove Existing Slab and Install L2 Main Truss	for Level 2	50%	Tue 8/1/08	NA	Sat 19/4/08	Tue 27/5/08					.		. <u></u>
1367	Steel Structure for Grid B to D		0%	NA	NA	Fri 8/2/08	Mon 7/7/08				<u> </u>			
1368	Hanger Columns and Main Truss Erection		0%	NA	NA	Fri 8/2/08	Wed 2/4/08							
1369	Hanger Columns and Main Truss Erection from	Roof to Level 2 at Grid	0%	NA	NA	Fri 8/2/08	Wed 2/4/08						/////	
1370	Hanger Columns and Main Truss Erection from	Roof to Level 2 at Grid	0%	NA	NA	Fri 8/2/08	Wed 2/4/08		1111111		4	******	22	
1398	Steel Structure for Grid D to E		5%	Sat 12/4/08	NA	Wed 5/3/08	Thu 31/7/08							
1399	Transfer Trusses Installation at Level 6 (Grid E/15-19)	100%	Wed 23/4/08	Fri 2/5/08	Fri 18/4/08	Wed 30/4/08			먹		V		
1400	Hanger Columns and Main Beam Erection from Leve	7 to Level 2 (GL D-E/	45%	Thu 22/5/08	NA	Fri 2/5/08	Thu 15/5/08							
1410	Level 3 +22.90		4%	Sat 12/4/08	NA	Mon 7/4/08	Thu 22/5/08			Contraction of the local division of the loc		in the second		-V
1411	Main Floor Trusses for Level 3		10%	Sat 12/4/08	NA	Mon 7/4/08	Tue 15/4/08			The second secon			3	
1412	Secondary Floor Trusses for Level 3		10%	Mon 30/6/08	NA	Wed 16/4/08	Thu 24/4/08			FT		+		
1420	Level 5 +29.40		4%	Wed 14/5/08	NA	Wed 14/5/08	Fri 27/6/08					anazalizati kaluta het		and the second
1421	Main Floor Trusses for Level 5		10%	Wed 14/5/08	NA	Wed 14/5/08	Wed 21/5/08				聖			
1422	Secondary Floor Trusses for Level 5		10%	Wed 14/5/08	NA	Thu 22/5/08	Fri 30/5/08				l r			
1599	Building Services Installation		12%	Thu 8/3/07	NA	Thu 8/3/07	Fri 5/6/09		an as a river to		les frend tokation			- 444 (C 14) (C 14)
1609	Transformer Installation at Phase 2 (For sea water pump ro	om)	100%	Fri 28/12/07	Tue 29/1/08	Mon 3/12/07	Tue 22/1/08							
Project:3 M Date: 27/5		Miles			Proje	ect Summary		Baseli	ne 1		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	од Маранто, то се — — — — — — — — — — — — — — — — — —	2 ⁴¹	

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			3 Month Rolling	-	Expans	ion and Exhibitic sion Project Master Program		ating on 27 May (08						
ID	Task Name			% Compl-	Actual Start	Actual Finish	Baseline Start 1	Baseline Finish 1	Feh	Mar	Арг	May	Jun	Jul	A
1610	Transformer Delivery & Ins	tallation (by HEC)		100%	Fri 28/12/07	Wed 2/1/08	Mon 3/12/07	Mon 10/12/07		27/5/08	114	Tindy		1001	
1611	Electrical Cable Installation	by HKE		100%	Sat 29/12/07	Wed 2/1/08	Mon 10/12/07	Thu 20/12/07	1						
1612	Engerisation			100%	Wed 2/1/08	Tue 22/1/08	Wed 2/1/08	Tue 22/1/08	-						
1613	Power On			100%	Tue 29/1/08	Tue 29/1/08	Tue 22/1/08	Tue 22/1/08							
1626	Transformer Installation at Lev	vel 1 Phase 2		68%	Fri 1/6/07	NA	Fri 1/6/07	Mon 14/7/08							No.
1632	A&A Works for Transforme	r room		100%	Mon 15/10/07	Sat 5/4/08	Wed 1/8/07	Fri 30/11/07	173330333984		10002324				
1633	Buider's Works for Transfor	rmer room		100%	Mon 7/4/08	Tue 20/5/08	Sat 1/12/07	Thu 7/2/08			Description of	297777 (ASSA CONSIDER TO A T			
1747	Heating / Ventilation and Air-C	condition Installation	···· ·	20%	Thu 8/3/07	NA	Thu 8/3/07	Mon 2/3/09							
1748	Sea Water System (at Pha	ise II)		100%	Mon 5/11/07	Mon 7/4/08	Mon 15/10/07	Mon 5/5/08							
1749	Plinth & Builders works	S		100%	Mon 5/11/07	Sat 29/3/08	Mon 15/10/07	[·] Mon 31/12/07	-						
1750	Electrical Installation			100%	Sat 15/12/07	Mon 28/1/08	Wed 7/11/07	Mon 31/12/07	$ \rangle$						
1751	Fire Service Installation	n		100%	Thu 24/1/08	Wed 6/2/08	Tue 4/12/07	Mon 31/12/07	100						
1752	Upgrade the Phase 2 s	sea water pumps		100%	Tue 1/1/08	Mon 7/4/08	Sat 1/12/07	Mon 28/4/08							
1753	Electrochlorinator Syst	lem Installation		100%	Mon 28/1/08	Mon 7/4/08	Fri 1/2/08	1	The second se	STATE SHITTER DEFENSION	ないものないである。				
1754	Electrical & control Inst	tallation		100%	Tue 15/1/08	Mon 7/4/08	Thu 29/11/07	Fri 28/3/08							
1755	Overall System Testin	g & Commissioning and Ha	ndover	100%	Wed 2/4/08	Mon 7/4/08	Tue 29/4/08	Mon 5/5/08	1 \		312				
1756	Chiller Plant Room Install	ation	·	8%	Sat 26/1/08	NA	NA	NA						te de la deserve	
1757	HVAC - Chiller Plant l	Room Works		9%	Wed 30/1/08	NA	NA	÷	ſ	NE CONTRACTOR O			and the second s		
1758	Pipework Prepara	ation / Diversion before Tee-	off Works	100%	Wed 30/1/08	Wed 6/2/08	NA	1			\backslash				
1759	Heat Pump Disco	nnection / Dismantling work	S	100%	Thu 31/1/08	Tue 5/2/08	NA	NA							
1760	Pipe Tee-off Work			100%	Wed 6/2/08	Fri 7/3/08	NA	1	EXCENSION			\backslash			
1761	Chiller,Pump & Al	HU Hoisting & Delivery		80%	Wed 30/4/08	NA	NA	1	1			èn -	-		
1762	Chiller Installation	I		15%	Thu 1/5/08	NA	NA	NA				1			
1760 1761	Pipe Tee-off Work Chiller,Pump & Al	k HU Hoisting & Delivery	S	100%	Wed 6/2/08 Wed 30/4/08	Fri 7/3/08	NA NA	NA NA				1			
Project3 Date: 27,	Month Rolling Programme based on revised 5/2008	Critical Task		Milestone Summary Split		Proje	ct Summary		Baseli	ne 1	01111	<u></u>	-		
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