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 2007

June 2007

Environmental Resources Management

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Monthly Environmental Monitoring and Audit Report for May 2007

June 2007

Reference 0050690

For and on behalf of				
Environmental Resources Management				
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Approved by: Steve Duckworth				
h ~ 1 M				
Signed: Keys Duchwall				
Position: Deputy Managing Director				
Certified by:				
(Environmental Team Leader - Marcus Ip)				
D. (2007 /				
Date: 20 June 2007 /				

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.

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Our Ref: 3.16/014/2006/it

21 June 2007

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 2007 (Environmental Permit No. EP-239/2006/A)

With reference to the captioned document concerning the Monthly EM&A report for May 2007 received from ERM dated 18 June 2007 and subsequent submission on 20 June 2007, we are pleased to provide our verification for the document pursuant to condition 3 of the Environmental Permit (EP) No. EP-239/2006/A.

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

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 tenth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 May 2007 to 31 May 2007 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Period

The major construction works undertaken during the reporting period included the construction of permanent mini-piles at the north shore, construction of pile caps at BP4, BP5, D/17 and E/17, construction of RC columns at Grid C/17 and Grid Ba/24, modification of the existing Atrium Link for the new RC columns at Grid A/17, and B/17, preparation work for the demolition of existing Atrium Link at Grid A/17 – 25, erection of A1 Truss at Grid A1 and construction of the pedestrian tunnel.

Environmental Monitoring and Audit Progress

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

24-hour Total Suspended Particulates (TSP) monitoring5 sets1-hour TSP monitoring14 setsAdditional water quality monitoring9 setsEnvironmental site auditing4 times

Air Quality

Five sets of 24-hour and fourteen sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting period. No exceedance was recorded during the reporting month.

Water Quality

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

Additional water quality monitoring was completed on 21 May 2007. Nine sets of water quality measurements for dissolved oxygen, turbidity, suspended solids and total inorganic nitrogen were carried out at the designated monitoring stations C1, C2 and M1 during the reporting month. An exceedance of Limit Level of TIN was recorded during the reporting month. Investigations indicated that the exceedance was likely due to natural fluctuation or related to works of other projects being conducted in the vicinity rather than the works of the Project.

Construction Waste Management

The major construction activities undertaken in the reporting month were demolition of existing Atrium Link, land-based piling works and marine piling works. A total of 275.5 tonnes of inert C&D materials (including 0.5 tonne of materials reused in this Project) and 209 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

Four 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 period.

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

Future Key Issues

Major works to be undertaken in the coming month are foundation works, erection of A1 truss and demolition of the existing Atrium Link.

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

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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 tenth EM&A report which summarises the impact monitoring results and audit findings of the EM&A programme during the reporting period from 1 May 2007 to 31 May 2007.

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 period.

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 period.

Section 5 : **Monitoring Results**

summarises the monitoring results obtained in the reporting period.

Section 6: Environmental Site Auditing

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

Section 7: Environmental Non-conformance

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

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 PROJECT INFORMATION

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 the 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 was made on 25 January 2007, an amended Environmental Permit (EP-239/2006/A) was granted on 12 February 2007. Under the requirements of Condition 3.1 of Environmental Permit EP-239/2006/A, 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 period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*.

Table 2.1 Summary of Construction Activities Undertaken during the Reporting Month

Construction Activities Undertaken

- Construction of permanent mini-piles at north shore
- Construction of pile cap at BP4, BP5, D/17 and E/17
- Construction of RC column at Grid C/17 and Grid Ba/24
- Modification of existing Atrium Link for new RC column at Grid A/17, and B/17
- Preparation work for demolition of existing Atrium Link at Grid A/17 25
- Erection of A1 Truss at Grid A1
- Construction of pedestrian tunnel

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/	Reference	Validity Period	Remarks
Notification			
Environmental Permit	EP-239/2006/A	Throughout the Contract	Environmental Permit (EP) EP-239/2006 granted originally on 12 May 2006 but superseded by revised EP issued on 12 February 2007
Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation			Notification on 23 June 2006
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, diesel fuel, lubricating oil and bitumen.

Permit/ Licenses/	Reference	Validity Period	Remarks
Notification		•	
Valid Construction	GW-RS0026-07	Valid from 21	
Noise Permit for area		January 2007 to 14	
inside the Atrium		July 2007	
Link			
	PP-RS0043-06	Valid from 15	
		January 2007 to 14	
		July 2007	
	GW-RS0829-06	Valid from 3	
		January 2007 to 2	
		June 2007	
	GW-RS0245-07	Valid from 26	
		April 2007 to 30	
		June 2007	
	GW-RS0163-07	Valid from 10	
		March 2007 to 30	
		September 2007	

3

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 3.1 Air 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 3.2 TSP 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 3.3 Action and Limit Levels for Air Quality

Parameter	Air Monitoring	Action Level, µg/m³	Limit Level, µg/m³
	Station		
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 3.4 TSP 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 \pm 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 \pm 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 J*.

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 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 to conduct additional water quality monitoring in the marine channel in connection with the installation of temporary marine piles, in addition to the water quality monitoring at the three designated stations discussed above. The additional water quality monitoring programme, Supplement to EM&A Manual, was submitted to the EPD on 4 April 2007 and was approved on 9 May 2007.

The installation of temporary marine piles was completed on 23 April 2007. According to the additional water quality programme, four weeks of additional water quality monitoring will be conducted immediately after the completion of the installation of the temporary marine piles. Following the above requirement, the additional water quality monitoring was completed on 21 May 2007. The following section describes the details of the additional water quality monitoring programme.

Monitoring Locations

Two control stations and an impact monitoring station were selected for the collection of data on water quality within and outside the marine channel. The locations of the control stations and the impact monitoring station are presented in *Table 3.5* and *Annex D*.

Table 3.5 Monitoring Stations for Additional Water Quality Monitoring Programme

Station	Location	Monitoring Water Depth	Easting	Northing
C1(1)	Adjoins Expo Drive	Surface, middle and bottom	835645	815900
$C2^{(2)}$	Adjoins Expo Drive East	Surface, middle and bottom	836014	815926
M1 ⁽³⁾	Approximately at the centre of the marine channel	Surface, middle and bottom	835852	815907

Station	Location	Monitoring Water Depth	Easting	Northing
D 1				

Remark:

- (1) C1 has been assigned the upstream station during mid-ebb tide with reference to the flow pattern within and in the vicinity of the marine channel.
- (2) C2 has been assigned the upstream station during mid-flood tide with reference to the flow pattern within and in the vicinity of the marine channel.
- (3) Taking into account the foreseeable difficulty in accessing the exact centre of the marine channel, monitoring station M1 was chosen to be the same location as W3 under the current monitoring programme but outside the silt screen.

Monitoring Schedule and Requirement

The additional water quality monitoring was conducted in accordance with *Table 3.6* during the installation of temporary marine piles at the proposed monitoring stations listed in *Table 3.5*. The monitoring programme for the following month is shown in *Annex E*.

Table 3.6 also summarises the monitoring frequency and water quality parameters adopted for the reporting month. Duplicate in-situ measurements and water samples for testing suspended solids (SS), and one water sample for testing total inorganic nitrogen (TIN) were taken for each sampling event.

Table 3.6 Additional Water Quality Monitoring Frequency and Parameters

Activity	Monitoring Frequency	Monitoring Parameters
During the installation of	Three days per week at mid-	Dissolved Oxygen (DO),
temporary marine piles	flood and mid-ebb tides	Turbidity, Suspended Solid
		(SS), Total Inorganic Nitrogen
		(TIN)
Four-week monitoring	Three days per week at mid-	Dissolved Oxygen (DO),
immediately after the	flood and mid-ebb tides	Turbidity, Suspended Solid
completion of the installation		(SS), Total Inorganic Nitrogen
of the temporary marine piles		(TIN)
Four-week monitoring during	Three days per week at mid-	Dissolved Oxygen (DO),
the dry season after the	flood and mid-ebb tides	Turbidity, Suspended Solid
completion of the installation		(SS), Total Inorganic Nitrogen
of the temporary marine piles		(TIN)

Measurements were taken at three water depths, namely 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth sample was omitted. Where the water depth was less than 3 m, monitoring was undertaken only at mid-depth.

Reference was made to the predicted tides at Quarry Bay, which is the tidal station nearest to the Project Site, published on the web site of Hong Kong Observatory (http://www.hko.gov.hk/tide/eQUBtide.htm). Where midebb or mid-flood tides occurred beyond the normal working hours (in the middle of the night or early morning), the water quality monitoring was conducted during the working hours, during which the potential water quality impacts from disturbed sediments are expected to be highest, to ensure that these potential water quality impacts are captured.

Dissolved oxygen and temperature measuring equipment

The portable and weatherproof dissolved oxygen (DO) measuring meter (YSI Model 95) was used in the impact monitoring.

The DO measuring meter has a membrane electrode with automatic temperature compensation complete with a 50-feet cable. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring station.

Turbidity Measurement Instrument

The turbidity measurements were carried out on split water sample collected from the same depths of SS samples. A portable and weatherproof turbidity-measuring meter (HACH 2100P) was used in the impact monitoring. It has a photoelectric sensor capable of measuring turbidity between 0-1000 NTU. Response of the sensor was checked with certified standard turbidity solutions before the start of measurement.

Water Depth Detector

A portable, battery-operated echo sounder (Speedtech instrument SM-5A) was used for the determination of water depth at each designated monitoring station.

Location of the Monitoring Sites

A hand-held GPS (MLR SP24) and together with a suitably scaled map was used for locating the water quality monitoring stations.

Calibration of Equipment

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout the water quality monitoring. The calibration records for the monitoring instruments are given in *Annex H*.

Laboratory Measurement / Analysis

Water samples for laboratory analyses for SS and TIN under the additional water quality monitoring programme were collected by means of a transparent PVC cylinder (Kahlsico Water Sampler), packed in ice (cooled to 4°C without being frozen) and delivered to the laboratory as soon as possible after collection. The laboratory analyses were conducted within 24 hours after the collection of the water samples by ETS-Testconsult Ltd (HOKLAS accredited laboratory) in accordance with the analytical methods presented in *Table 3.7*. The Quality Assurance/Quality Control (QA/QC) procedures were followed as per HOKLAS requirements.

Table 3.7 Analytical Methods for Water Quality Parameters Monitored

Water Quality Parameter	Analytical Method	Detection Limit
Suspended Solids (SS)	APHA(1) 2540D or HOKLAS-	1 mgL ⁻¹
	accredited method	
Total Inorganic Nitrogen (TIN)	$APHA^{(1)} 4500 - NO_3^- F \& NH_3 G or$	0.1 mgL ⁻¹
	HOKLAS-accredited method	
Remark:		
(1) American Public Health Ass	sociation (APHA) Standard Methods for t	the Examination of Water

Action and Limit Levels

and Wastewater, 19th edition

The Action and Limit levels were established in accordance with the Supplement to EM&A Manual and are presented in *Table 3.8*.

Table 3.8 Action and Limit Levels for Additional Water Quality Monitoring

Parameter	Tide	Action	Level	Limit I	evel
Dissolved	Mid-Ebb	3.26		3.23	_
Oxygen $^{(1)(2)}$ (DO)	Mid-Flood	3.25		3.14	
in mgL-1					
Suspended	Mid-Ebb	9.00	or 120 % of	10.00	or 130 % of
Solids(1)(3) (SS) in	Mid-Flood	8.18	upstream control	8.40	upstream control
${\sf mgL}^{-1}$			station's SS at		station's SS at the
			the same tide of		same tide of the
			the same day		same day
Turbidity ⁽¹⁾⁽³⁾	Mid-Ebb	5.32	or 120 % of	6.19	or 130 % of
(Tby) in NTU	Mid-Flood	4.76	upstream control	5.79	upstream control
			station's Tby at		station's Tby at the
			the same tide of		same tide of the
			the same day		same day
Total Inorganic	Mid-Ebb	0.43(5)	or 120 % of	$0.45^{(5)}$	or 130 % of
Nitrogen(1)(4) (TIN)			upstream control		upstream control
in mg ${ m L}^{ ext{-}1}$	Mid-Flood	0.49	station's TIN at	0.51	station's TIN at
			the same tide of		the same tide of
			the same day		the same day

Remarks:

- (1) Action and Limit Levels are established from the baseline water quality monitoring results obtained between 6 June and 5 July 2006 before the commencement of marine works.
- (2) For DO, non-compliance of the water quality criterion occurs when the monitoring result is lower than the limits.
- (3) For turbidity, SS and TIN, non-compliance of the water quality criterion occurs when the monitoring result is higher than the limits.
- (4) Action and Limit Levels are established from the water quality monitoring results obtained between 26 and 28 December 2006 for the monitoring locations WC1 and WC2 located within the marine channel.
- (5) Given that the calculated 95th and 99th percentiles of monitoring data obtained between 26 and 28 December 2006 are the same (ie 0.44 mgL⁻¹), and therefore 0.43 and 0.45 mgL⁻¹ will be adopted as the Action and Limit Levels respectively for midebb tide to allow a clear distinction between Action and Limit Levels.

3.2.3 Event / Action Plan

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

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

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 period are summarised in *Annex K*.

⁽¹⁾ The last Monthly EM&A Report for April 2007 was submitted to the EPD on 15 May 2007.

MONITORING RESULTS

5.1 AIR QUALITY

5

The monitoring data at AM1 and AM2 were provided by ETS-Testconsult Ltd. Five sets of 24-hour and fourteen sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting period. 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).

The weather condition during the monitoring period was rainy. 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 was not conducted at the designated monitoring stations (W3, W4 and W5) subsequent to the completion of installation of marine piles on 23 April 2007.

Four weeks of additional water quality monitoring was undertaken after the completion of installation of marine piles and was completed on 21 May 2007. Nine sets of water quality measurements were carried out at the designated monitoring stations C1, C2 and M1 during the reporting month.

The monitoring data and graphical presentations are summarised in *Annex I*. The monitoring results can also be found at the web-site (http://www.hkcecema.com/index.html).

An exceedance of TIN level at the monitoring station M1 was recorded during the reporting month and was summarised in *Table 5.1*. Notification of Exceedance with detailed investigation report was issued to IEC and EPD immediately when the exceedance was identified.

Table 5.1 Summary of Record of Exceedanace recorded during the Reporting Month

Station	Record of Exceedance
M1	Exceedance of Action Level of TIN on 9 May 2007

Exceedance of Limit Level of TIN was recorded on 9 May 2007. During the time of monitoring, general earth work was being conducted in the vicinity of Station M1. No liquid effluent was observed to be discharged from the Site to the water channel, and the measured TIN level of the water sample taken on 11 May 2007 at Station M1 during mid-ebb tide was 0.33 mgL⁻¹, which

complied with the Action Level. It is considered that the exceedance was likely due to natural fluctuation rather than Project works.

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 L*). 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 5.2*. 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 5.2 Quantities of Waste Generated from the Project

	Quantity		
Month / Year	C&D Materials (inert) (a)	C&D Materials (non-inert) b)	Chemical Waste
May 2007	275.5 tonnes	209 tonnes	0
		(10 tonnes of steel materials	
		were collected and recycled)	

Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. 0.5 tonne of inert C&D materials was reused either in this Project. 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. No steel materials were collected during the reporting month and the C&D wastes other than general refuse were disposed of at SENT Landfill / Tseung Kwan O Area 137 temporary construction waste sorting facility.

6 ENVIRONMENTAL SITE AUDITING

Weekly site inspections were carried out by the ET. Four site inspections were conducted on 4, 11, 17 and 25 May 2007. There was no non-compliance event recorded in the reporting month.

Environmental issues observed during the site audits were related to the site tidiness and handling of wheel-washing water. Major findings and recommendations are summarised as follows:

- (i) The Contractor is recommended to adopt proper measures at the site entrance near Ba/24 to ensure that water generated from wheel-washing should be collected, properly treated and disposed of. The Contractor should ensure that no untreated water to be discharged to Convention Avenue or the stormwater drain near BP3. Corrective action was taken by the Contractor in the reporting period.
- (ii) Tyre tracks were found on the public road outside Gate 3. The Contractor is recommended to clean the tracks ASAP. The Contractor is also reminded that all vehicles should be properly cleaned (including the wheels and the vehicle body) before leaving the site. Corrective action was taken by the Contractor in the reporting period.
- (iii) Several cans of paint thinner were observed to be stored in an open area without any containment. The Contractor is recommended to store flammable liquids in a proper manner. Corrective action was taken by the Contractor in the reporting period.
- (iv) The Contractor is recommended to provide sand bags around the gullies (located at the southern site) to prevent soil/rubbish from entering the storm drain. Corrective action was taken by the Contractor in the reporting period.
- (v) The Contractor is recommended to remove the refuse and construction wastes left in the vicinity of the ventilation plant for the temporary pedestrian tunnel. Corrective action was taken by the Contractor in the reporting period.

Water Discharge Sampling

In accordance with the discharge licence issued under WPCO, water sampling should be conducted at least quarterly to ensure the quality of treated effluent at three designated discharge points complies with the requirements of discharge license. The last water quality sampling was conducted on 13 April 2007 and reported in the last monthly report. The next sampling is scheduled to be conducted in June 2007.

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 with the implementation status is given in *Annex K*.

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.

An exceedance of the Limit Level of water quality parameter was recorded at monitoring station during the reporting period. Details of the exceedance are summarised in *Table 5.1*.

7.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

7.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

7.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

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

8 FUTURE KEY ISSUES

8.1 KEY ISSUES FOR THE COMING MONTH

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

Table 8.1 Construction Works to be Undertaken in the Coming Month

Work to be taken

- Construction of permanent mini-piles at Grid C/17 at north shore
- Construction of RC column at Grid A/17, B/17, C/17, D/17, Grid C/24 and D/24
- Modification of existing Atrium Link for new RC column at Grid A/17, and B/17
- Preparation work for demolition of existing Atrium Link at L3-L6 at Grid A/17 25
- Demolition of L6 ground slab of existing Atrium Link at Grid A/17 25
- Erection of A1 Truss at Grid A1

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 the next months 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 will be conducted within the next dry season (ie November 2007 to March 2008) and the exact monitoring period will be determined in October 2007.

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

9

9.1 AIR QUALITY

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 9.1 Comparison 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	83	34 – 145
AM2	AM6	260	77	29 - 145

Remarks:

The monitoring results show that the 24-hour TSP levels during the reporting period 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 period and were considered effective.

9.2 WATER QUALITY

The hydrodynamic modelling assessment undertaken in the approved EIA Report was targeted at assessing the potential effects of the marine works on the flushing capacity of the water channel during the construction phase and no prediction was made on the change in water quality, hence no comparison can be made with the monitoring results.

9.3 WASTE MANAGEMENT

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

⁽¹⁾ Only 24 hours 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.

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

Estimated Amount of C&D Materials in EIA (inert & non-inert)	Actual Amount of C&D Materials Recorded ⁽¹⁾ (inert & non-inert)
585 tonnes	0
4,680 tonnes	315 tonnes
390 tonnes	0
20,000 tonnes	11,950.5 tonnes
Insignificant	588 tonnes
Small	288 Litres
	Materials in EIA (inert & non-inert) 585 tonnes 4,680 tonnes 390 tonnes 20,000 tonnes Insignificant

Remark:

9.4 **CONCLUSION OF REVIEW**

The EIA predictions and the monitoring results during the reporting period 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.

⁽¹⁾ The actual amount of C&D Materials was recorded since the commencement of construction works.

10 CONCLUSION

The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 May to 31 May 2007 in accordance with EM&A Manual and the requirements under EP-239/2006/A.

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.

An exceedance of Limit Level of TIN was recorded during the reporting month. Results of investigation indicated that the exceedance was likely due to natural fluctuation or related to other project works rather than Project works.

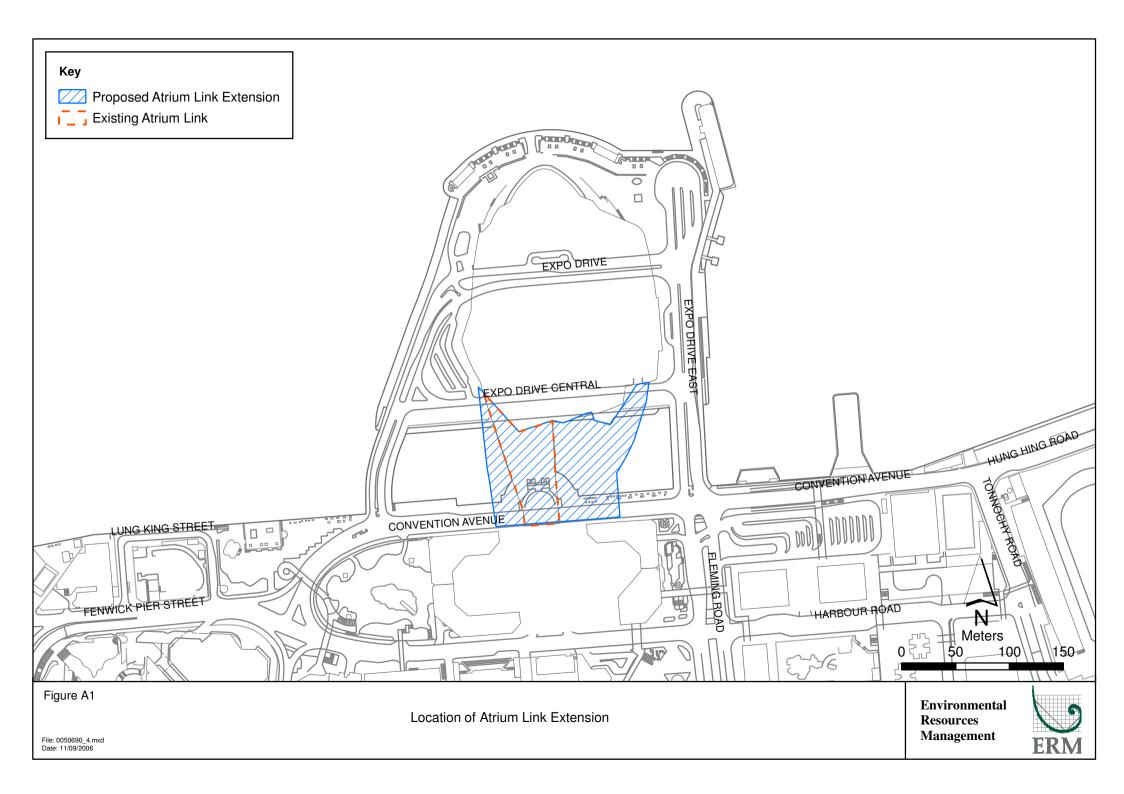
No non-compliance event was recorded during the reporting month.

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

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

Annex A

Locations of Works Areas

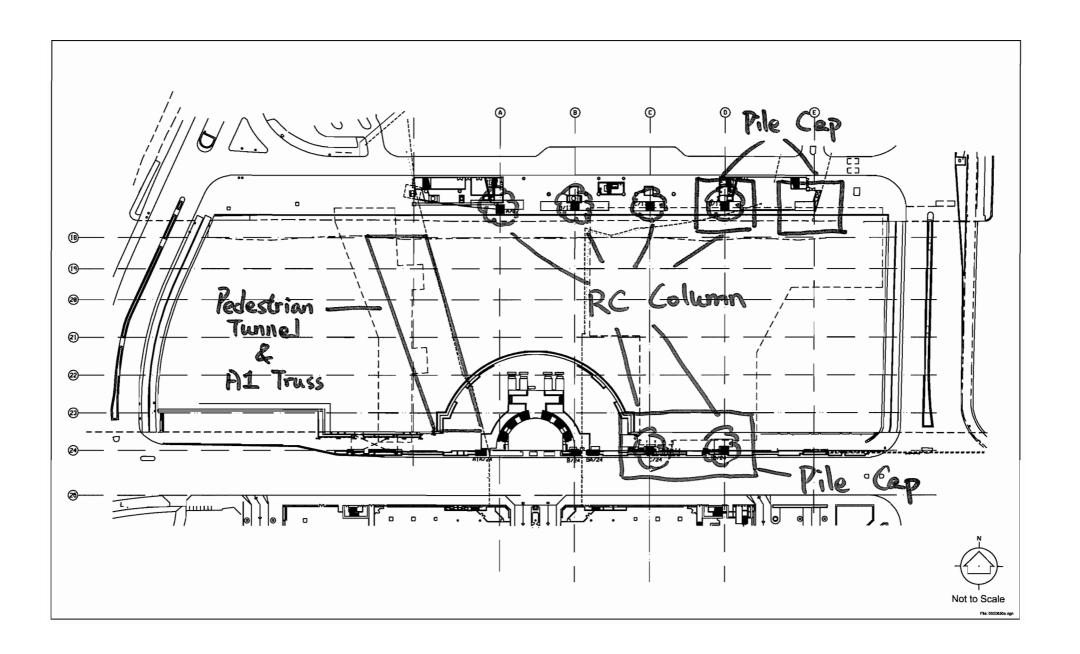


Annex B

Location of Construction Activities during the Reporting Month

Summary of Works for May 2007

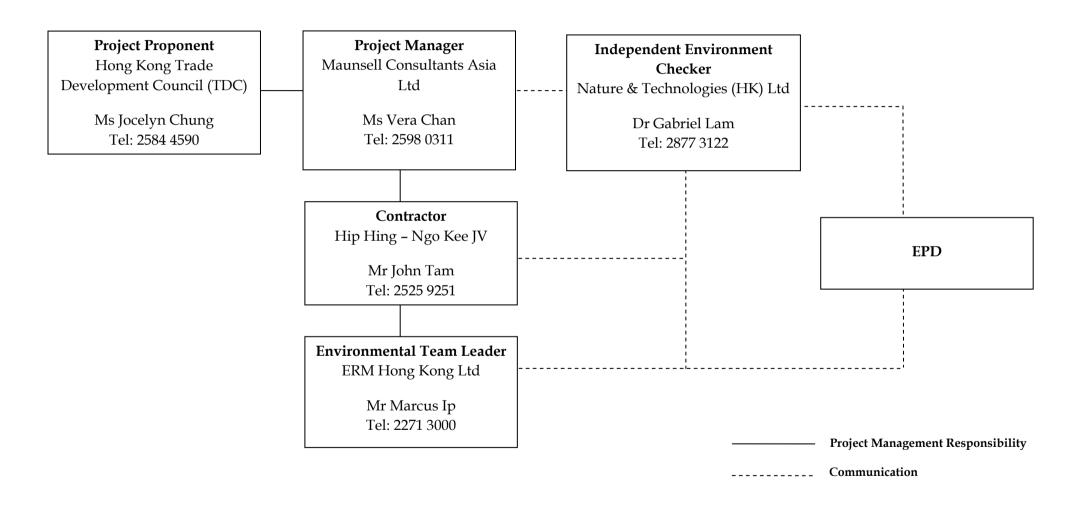
Description	Location
Construction of pile cap	BP4, BP5, D/17 & E/17
Construction of RC column	A/17, B/17, C/17, D/17, C/24, D/24
Erection of A1 truss	Grid A1
Construction of pedestrian tunnel	Zone 1-5



Annex C

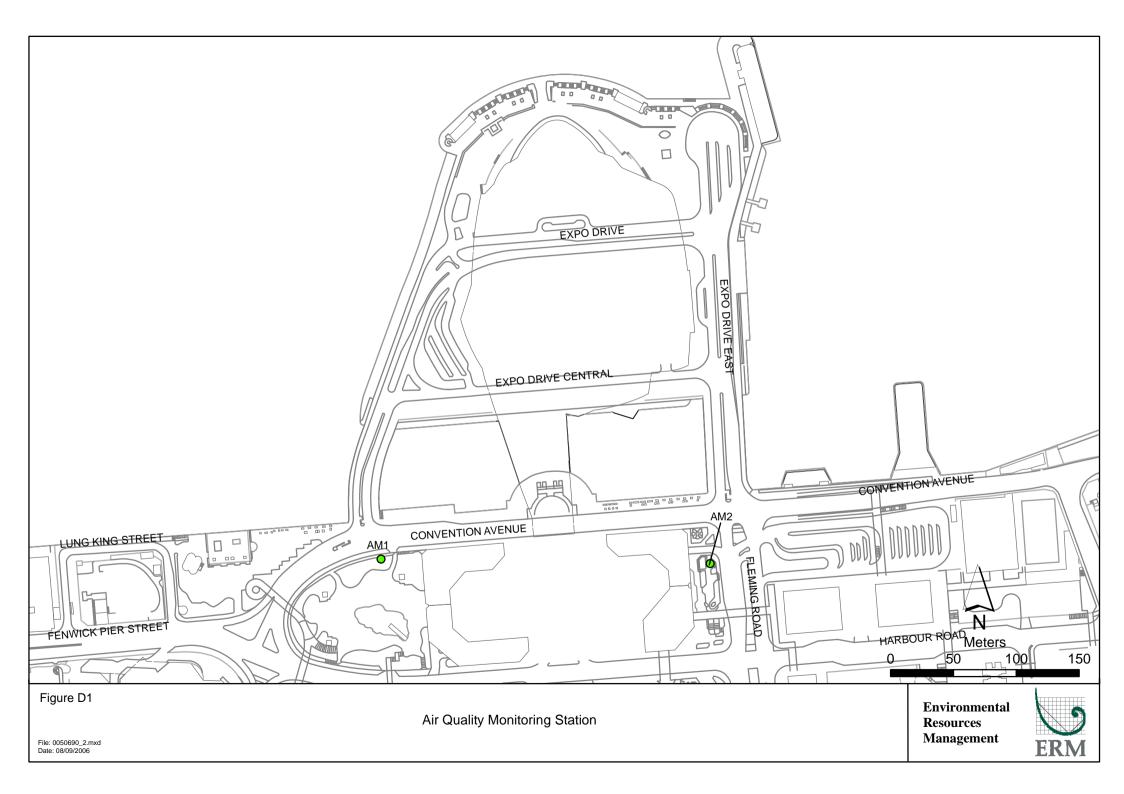
Project Organisation

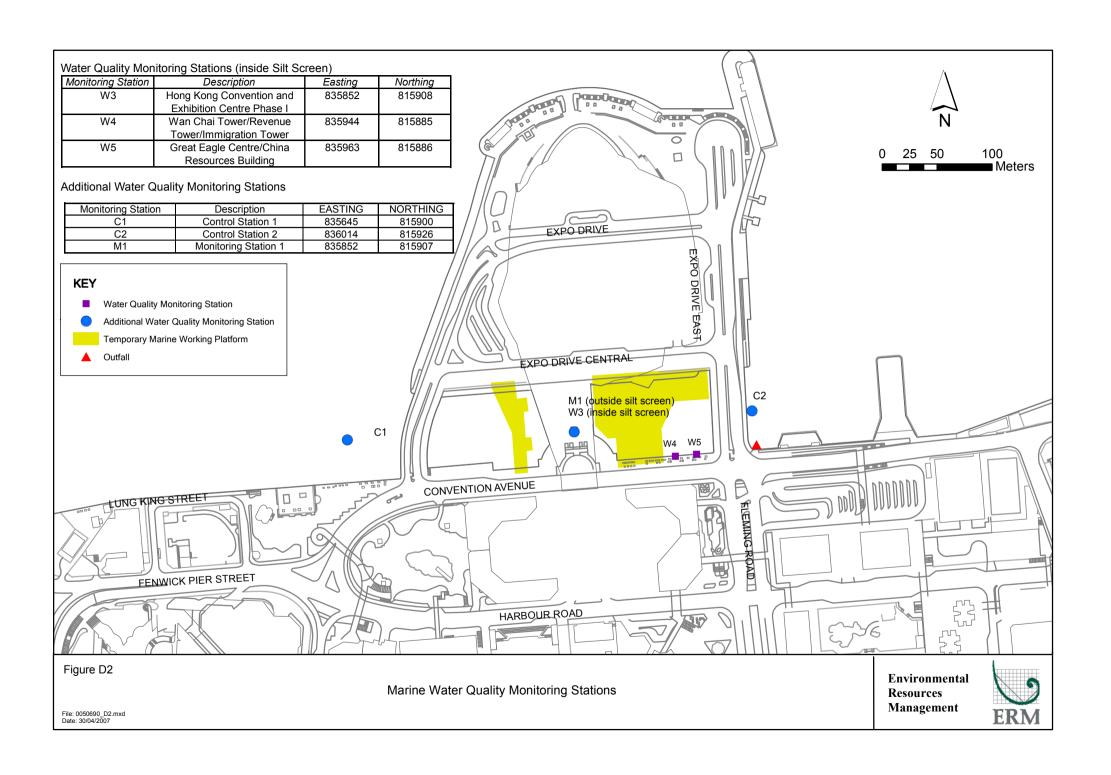
Project Organization (with contact details)



Annex D

Locations of Air and Water Quality Monitoring Stations



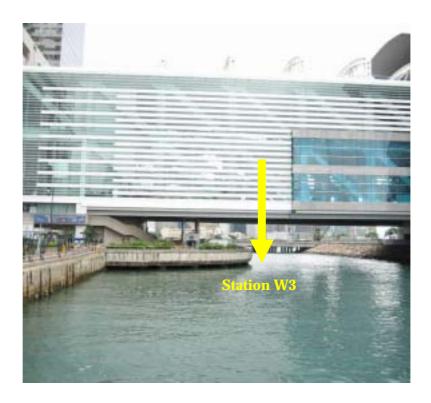




Air Quality Monitoring Station (AM1)



Air Quality Monitoring Station (AM2)



Water Quality Monitoring Location – Station W3



Water Quality Monitoring Location – Stations W4 and W5 $\,$



Additional Water Quality Monitoring Location – Station C1



Additional Water Quality Monitoring Location - Station C2



Additional Water Quality Monitoring Location – Station M1

Annex E

Monitoring Schedule for the Reporting Period and Next Month

Hong Kong Convention and Exhibition Centre, Atrium Link Extension Air Quality Monitoring Schedule - May 2007

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

Hong Kong Convention and Exhibition Centre, Atrium Link Extension Air Quality Monitoring Schedule - June 2007

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

Hong Kong Convention and Exhibition Centre, Atrium Link Extension Water Quality Monitoring Schedule - May 2007

Sunday	Monday	Tuesday	Wedneso	day	Thursday	Fri	iday	Saturday
		01-May		02-May	03-May		04-May	05-May
				1:17		Proposed	07:30(flood)	
			Proposed 18	:30(flood)		Mid-ebb	13:07	
06-May		08-May		09-May	10-May		11-May	12-May
	Mid-flood 07:20			:30(flood)		Proposed	07:56 (ebb)	
	Mid-ebb 14:57		Mid-ebb 17	':10		Mid-flood	12:23	
						No mid-ebb		
13-May	14-May	15-May		16-May	17-May		18-May	19-May
13-iviay	Mid-ebb 10:27	15-iviay		:49		Proposed	07:30(flood)	19-iviay
	Mid-flood 16:33			3:29		Mid-ebb	13:20	
	Wiid-1100d 10.00		1 1000300 10	.20		Wild-CDD	13.20	
20-May	21-May	22-May		23-May	24-May		25-May	26-May
	Mid-flood 07:54						•	
	Mid-ebb 15:58							
27-May	28-May	29-May		30-May	31-May			

Annex F

Calibration Reports for HVS



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

ΩĒ

High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

27 April 2007

Serial No.

9864 (ET/EA/003/19)

Calibration Due Date

26 June 2007

Method

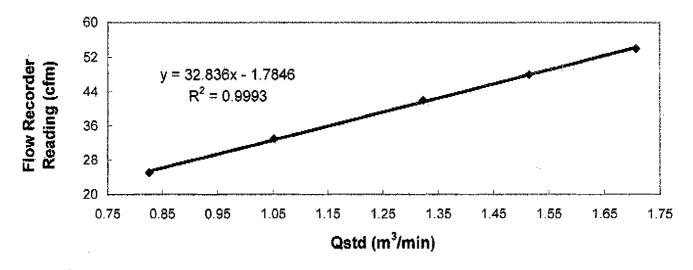
: Based on Operations Manual for the 5-point calibration using standard calibration kit

manufactured by Tisch TE-5025 A

Results

Flow recorder read	ding (cfm)	54	48	42	33	25
Qstd (Actual flow	rate, m³/min)	1.71	1.52	1.32	1.05	0.83
Pressure :	764.31 mm Hg		Temp.:	302	K	7,1

Sampler 9864 Calibration Curve Site: Wan Chai (AM-1) Date of Calibration: 27 April 2007



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:

Kenneth CHIU

(Asst. Technician)

Approved by

I. T. CHOW

(Asst. Environmental Officer)



東業徳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

High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

27 April 2007

Serial No.

9795 (ET / EA / 003 / 18)

Calibration Due Date

26 June 2007

Method

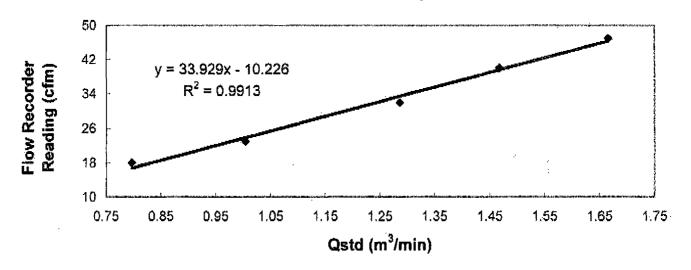
Based on Operations Manual for the 5-point calibration using standard calibration kit

manufactured by Tisch TE-5025 A

Results

Flow recorder rea	ding (cfm)	47	40	32	23	18
Ostd (Actual flow	/ rate, m³/mîn)	1.67	1.47	1.29	1.00	0.80
Pressure:	764.31 mm Hg		Temp.:	301	К	

Sampler 9795 Calibration Curve Site: Wan Chai (AM-2) Date of Calibration: 27 April 2007



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 :

Kenneth CHIU

(Asst. Technician)

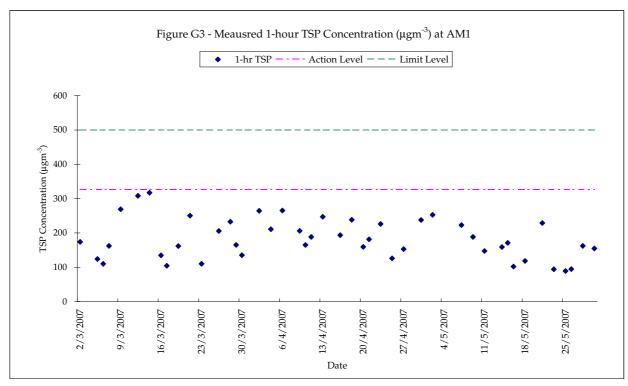
Approved by

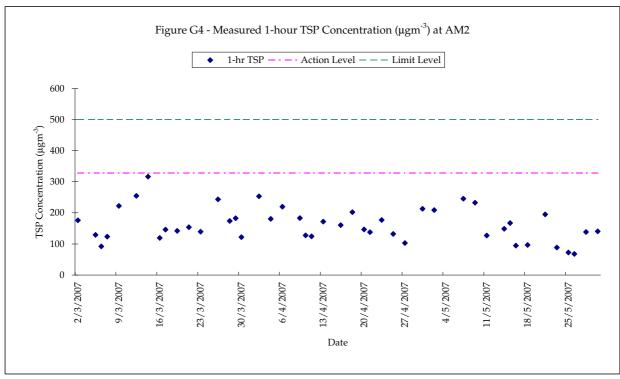
I. T. CHOW

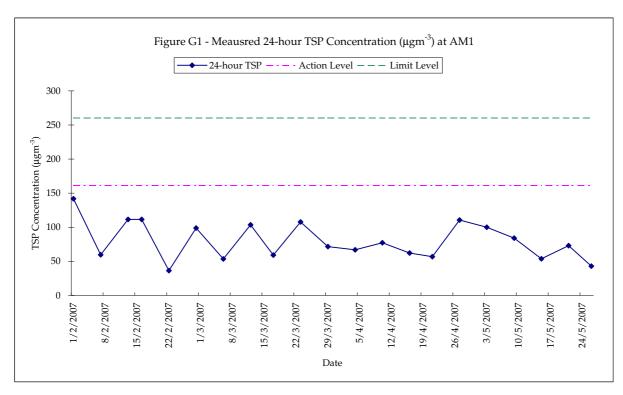
(Asst. Environmental Officer)

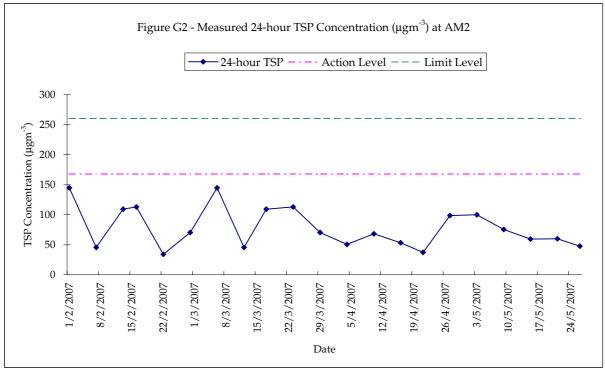
Annex G

24-hour and 1-hour TSP Monitoring Results









24-hour TSP Monitoring Results

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

Date	Filter W	/eight (g)	Flow Rate	(m³/min.)	Elaps	se 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)	(m³/min)	(m ³)
3-May-07	2.8275	3.0108	1.27	1.27	11640.5	11664.5	24.0	100	Rainy	24.2	0.1833	1.27	1832.4
9-May-07	2.8918	3.0491	1.30	1.30	11667.5	11691.5	24.0	84	Rainy	25.7	0.1573	1.30	1873.4
15-May-07	2.7922	2.8980	1.36	1.36	11694.5	11718.5	24.0	54	Rainy	26.5	0.1058	1.36	1964.0
21-May-07	2.8171	2.9444	1.21	1.21	11721.5	11745.5	24.0	73	Rainy	23.1	0.1273	1.21	1744.7
26-May-07	2.8117	2.8906	1.27	1.27	11748.5	11772.5	24.0	43	Rainy	29.8	0.0789	1.27	1832.4
							N 4:	40					

 Min
 43

 Max
 100

 Average
 71

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

Date	Filter W	/eight (g)	Flow Rate	(m³/min.)	Elaps	se 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)	(m³/min)	(m ³)
3-May-07	2.8275	3.0108	1.27	1.27	11640.5	11664.5	24.0	100	Rainy	24.2	0.1833	1.27	1832.4
9-May-07	2.8976	3.0361	1.27	1.27	10093.0	10117.0	24.0	75	Rainy	25.7	0.1385	1.27	1834.6
15-May-07	2.7900	2.8990	1.27	1.27	10120.0	10144.0	24.0	59	Rainy	26.5	0.1090	1.27	1834.6
21-May-07	2.7997	2.9100	1.27	1.27	10147.0	10171.0	24.0	60	Rainy	23.1	0.1103	1.27	1834.6
26-May-07	2.8298	2.9193	1.30	1.30	10174.0	10198.0	24.0	48	Rainy	29.8	0.0895	1.30	1877.0

Min 48 Max 100 Average 69

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.)	Elaps	se Time	Sampling	Conc.	Weather	Ave. Air	Particulate		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-07	2.8411	2.8567	1.03	1.03	11638.5	11639.5	1.0	253	Rainy	25.8	0.0156	1.03	61.7
7-May-07	2.9132	2.9294	1.21	1.21	11665.5	11666.5	1.0	223	Rainy	26.7	0.0162	1.21	72.7
9-May-07	2.8806	2.8943	1.21	1.21	11666.5	11667.5	1.0	188	Rainy	25.7	0.0137	1.21	72.7
11-May-07	2.8928	2.9027	1.12	1.12	11691.5	11692.5	1.0	147	Rainy	25.3	0.0099	1.12	67.2
14-May-07	2.8983	2.9087	1.09	1.09	11692.5	11693.5	1.0	159	Rainy	26.3	0.0104	1.09	65.4
15-May-07	2.9000	2.9115	1.12	1.12	11693.5	11694.5	1.0	171	Rainy	26.5	0.0115	1.12	67.2
16-May-07	2.8051	2.8129	1.27	1.27	11718.5	11719.5	1.0	102	Rainy	27.5	0.0078	1.27	76.4
18-May-07	2.8118	2.8204	1.21	1.21	11719.5	11720.5	1.0	118	Rainy	27.7	0.0086	1.21	72.7
21-May-07	2.8318	2.8472	1.12	1.12	11720.5	11721.5	1.0	229	Rainy	23.1	0.0154	1.12	67.2
23-May-07	2.8073	2.8138	1.15	1.15	11745.5	11746.5	1.0	94	Rainy	27.6	0.0065	1.15	69.0
25-May-07	2.8219	2.8279	1.12	1.12	11746.5	11747.5	1.0	89	Rainy	29.6	0.0060	1.12	67.2
26-May-07	2.8016	2.8078	1.09	1.09	11747.5	11748.5	1.0	95	Rainy	29.8	0.0062	1.09	65.4
28-May-07	2.8188	2.8306	1.21	1.21	11772.5	11773.5	1.0	162	Rainy	27.5	0.0118	1.21	72.7
30-May-07	2.8483	2.8587	1.12	1.12	11773.5	11774.5	1.0	155	Rainy	29.3	0.0104	1.12	67.2

 Min
 89

 Max
 253

 Average
 156

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

Date	Filter W	eight (g)	Flow Rate	(m ³ /min.)	Elaps	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-07	2.8214	2.8370	1.24	1.24	10064.0	10065.0	1.0	209	Rainy	25.8	0.0156	1.24	74.7
7-May-07	2.8696	2.8888	1.30	1.30	10091.0	10092.0	1.0	245	Rainy	26.7	0.0192	1.30	78.2
9-May-07	2.8581	2.8734	1.10	1.10	10092.0	10093.0	1.0	232	Rainy	25.7	0.0153	1.10	65.8
11-May-07	2.9007	2.9111	1.36	1.36	10117.0	10118.0	1.0	127	Rainy	25.3	0.0104	1.36	81.7
14-May-07	2.8993	2.9112	1.33	1.33	10118.0	10119.0	1.0	149	Rainy	26.3	0.0119	1.33	80.0
15-May-07	2.8876	2.8995	1.19	1.19	10119.0	10120.0	1.0	167	Rainy	26.5	0.0119	1.19	71.1
16-May-07	2.8003	2.8077	1.30	1.30	10144.0	10145.0	1.0	95	Rainy	27.5	0.0074	1.30	78.2
18-May-07	2.7997	2.8066	1.19	1.19	10145.0	10146.0	1.0	97	Rainy	27.7	0.0069	1.19	71.1
21-May-07	2.8208	2.8350	1.22	1.22	10146.0	10147.0	1.0	195	Rainy	23.1	0.0142	1.22	72.9
23-May-07	2.7887	2.7950	1.19	1.19	10171.0	10172.0	1.0	89	Rainy	27.6	0.0063	1.19	71.1
25-May-07	2.8108	2.8161	1.22	1.22	10172.0	10173.0	1.0	73	Rainy	29.6	0.0053	1.22	72.9
26-May-07	2.7982	2.8040	1.42	1.42	10173.0	10174.0	1.0	68	Rainy	29.8	0.0058	1.42	85.3
28-May-07	2.7906	2.8007	1.22	1.22	10198.0	10199.0	1.0	139	Rainy	27.5	0.0101	1.22	72.9
30-May-07	2.8161	2.8261	1.19	1.19	10199.0	10200.0	1.0	141	Rainy	29.3	0.0100	1.19	71.1

 Min
 68

 Max
 245

 Average
 145

Meteorological Data Extracted from King's Park Stations of the Hong Kong Observatory

			Kin	g's Park Station		
Date	Weather	Average Air Temperature (℃)	Average Wind Speed (km/h)	Average Relative Humiditiy (%)	Total Rainfall (mm)	Wind Direction
2-May-07	Rainy	25.8	17.0	84.0	8.5	Е
3-May-07	Rainy	24.2	17.0	84.0	8.0	E
7-May-07	Rainy	26.7	16.0	82.0	5.7	E
9-May-07	Rainy	25.7	17.0	83.0	9.3	E
11-May-07	Rainy	25.3	18.0	84.0	11.8	E
14-May-07	Rainy	26.3	19.0	83.0	9.3	E
15-May-07	Rainy	26.5	20.0	82.0	9.2	E
16-May-07	Rainy	27.5	21.0	82.0	7.7	E
18-May-07	Rainy	27.7	23.0	87.0	12.3	E
21-May-07	Rainy	23.1	21.0	83.0	12.5	E
23-May-07	Rainy	27.6	19.0	83.0	7.6	E
25-May-07	Rainy	29.6	20.0	83.0	8.2	Е
26-May-07	Rainy	29.8	20.0	83.0	11.9	Е
28-May-07	Rainy	27.5	20.0	83.0	14.3	Е
30-May-07	Rainy	29.3	20.0	83.0	14.4	E

Annex H

Calibration Certificates of Water Monitoring Equipment



H 04071 1 18 /07
Victory - 31-9/4-19-9-19-19-19-19-19-19-19-19-19-19-19-1
ce (%) of DC
ontent
9
<u>}</u>
<u> </u>

,
-
ce (%) of DC
ontent
59
3-3

C'EP/012/W



* 101	Internal Ca	libration Rep	ort of Turbidir	neter						
Equipmen Model No	nt Ref. No. : <u>47 / E A</u> o. : <u>4A C</u>	Manufacturer : Serial No. :	040100031856							
Date of C	Calibration :	Calibration Due :	20/8/07.							
Data	<i>f.</i> /	\$3. o								
	0 - 10 NTU Gelex Vial	10 - 100 NTU Gelex Vial	100 - 1000 NTU Gelex Vial							
	£.6≯	¥.\$.¥	7.4.3							
deemed a	The equipment complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. * Delete as appropriate									
Calibrated by : Approved by :										



Form E/EN/L/06/Issue 7 (1/1) [05/05]

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided by client

Client Ref. No.

-- E70122 HK

Source

--- HKCEC, wan Chai

Sample Type

--- Sea water

Date Sampled

--- 2115 107

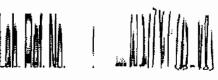
No. of Sample Description

Drying oven used

Test Method

Herovery of Check = $\frac{(v)}{(v)} \times v \circ = (v) \cdot 9 = 0$





W. I. No.

Date Received - 21/5/07

Date Tested - 22/5/07

In-house Method TPE/006/W

_ , , , , , , , , , , , , , , , , , , ,					1				
TSS standard used			J ₂₇₃						
Lab. Ref. No.			ا¢7بد (13)	(Dup)	(14)	(15)	(16)	(17)	(18)
Client sample ID	Blank	Check Std	C1F-S	C1F-S	C1F- SD	C1F-M	C1F- MD	C1F-B	C1F- BD
Foil Bowl No.	B2	C2	13	D2	14	15	16	17	18
Mass of Filter	1303.4	1328.0	1301.2	13-14.6	(34.5	1302.3	1332.3	1323-9	1309
+ Foil Bowl (mg) (B)	1303.3 1330170	1327-9	1301.1 131617	4301.10			1332.0		1309.1
Vol. of Sample (mL)	500	500	200	200	400	400	400	400	400

Ref. No. ET / 0502 / 002

+ Foil Bowl	1303.4	1381.2	1303.5	478.9	1330.2	1307.3	1337.3	130.1	H15.5	1332.2
+ S. S. (mg) (A)										
Total Suspended Solids (mg/L) *	0.2-	107	12	12	12	13	13	16	16	/2
Chloride Check (✓)	\	/	/		/	/	/		/	
Expanded uncertainty, Uexp										

* Total Suspende	d Solids (mo/i)	= (A - B	\/Vol. of S	Sample use	d x 1000

Acceptance criteria

Mass of Filter

: 1. Blank: ≤ 0.5mg/L Yes / No

(19)C2F-S 19

१३४७ -

400

Difference between duplicates: < 10%

Yes 🖊 Νo Yes |

No

Check Sample:

120- (%)

Yes 🖊 Na

PQL

5.0mg/L (Seawater / Drinking water / Wastewater)

Recovery of spike sample: 80% to 120%

Remark

: st.o mg Silica Gel H was added to 500ml distilled water as check. (102.0

mg/L)

Tested By

: 7/___

З.

Checked By :

TPE/006/W



Form E/EN/L/06/Issue 7 (1/1) [05/05]

Page 4 of 8

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided b	y client				Laborat	ory Info	rmatio	ū		
Client :					Lab. Ref.	No.	;			
Client Ref. No. :				,	W. I. No.		:			
Source :					Date Rec	eived	:			
Sample Type ;					Date Test	ted	:			
Date Sampled :					Test Meth	od	: In-	nouse Meth	od TRE in	nean
No. of Sample :							- 111-3	MUSE MEH	00 11 2/0	<i>00,</i> 11
Description :							, ,			
Description .				Reco	very of S	pik <i>e</i> = -	25.5	×100/ = 98	8/2	
			Ref. No.				73.3	ı	,	
Drying oven used		ET,	/ 0502 /	002						
TSS standard used			J 273							
Lab. Ref. No.	Wayyy	("			1	l	<u> </u>			
Client sample ID	(20) C2F-	(21) C2F-M	(22) C2F-	(23) C2F-B	(24) C2F-	(spike) C2F-		-		
Foil Bowl No.	20	21	MD 22	23	8D 24	S2				
Mass of Filter	(318.7									
+ Foil Bowl (mg) (B)					1331.0	(321.6				
· · · · · · · · · · · · · · · · · · ·	1318 - 6	1721,5	1331.2	702.1	854.7	1321.4				-,,, , **
Vol. of Sample (mL)	400	400	400	400	200	200				
Mass of Filter	323.6	1326.7	1336.5	1307.0	(338,3	1328.7				
+ Foil Bowl	1323-4			1768.9						
+ S. S. (mg) (A)										
Total Suspended Solids (mg/L) *	1>		13	16		4				
Chloride Check (✓)		13	15	(0)	16					
Expanded uncertainty, Uexp			· · ·							
* Total Suspended Solids (mg/L)	= (A-B)/	Vol. of S	ample use	d x 1000		***************************************	114 114			
	nk ; ≤ 0.5n	ng/L						Yes 🗌	Νp	
criteria : 2. Diff	erence be	tween d	uplicates	: < 10%				Yes	No	
•	covery of s		-)%			Yes 7	No	
	eck Sample	-				6)		Yes 🗍	No	
PQL : 5.0mg/L	(Seawater	/ Drinki	ng water	/ Waster	water)	<u> </u>				I
_	Silica Gel l		_		•	s spike (×5~1	~ m	g/L)	
, 2 %			. ,			· · · · ·	, m.		<i>3-</i> /	
,										
Tested By : P					Checke	d By ;				



Form E/EN/L/06/Issue 7 (1/1) |05/05]

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided	l by client				Laborat	ory Info	rmation			
Client : ·					Lab. Ref.	No.	; """			
Client Ref. No. :	-			,	W. I. No.		:			
Source : ·	**				Date Rec	elved	:			
Sample Type : -	<u></u>				Date Tes	ted	:			
Date Sampled : -					Test Meth	nod	: In-ho	use Meth	od TPE/	006/W
No. of Sample : -										
Description :							104 ×	m7 .	.7	
				Reco	very of Cl	neck =	[01.7	100% = 102	.8/.	
	-	_	Ref. No.							
Drying oven used		ET	/ 0502 /	002						
TSS standard used			J273							
		ή	1 342 - 500	3				,		,
Lab. Ref. No.			W±7¥j (25)	(Dup)	(26)	(27)	(28)	(29)	(30)	(31)
Client sample ID	Blank	Check Std	M1F-S	M1F-S	M1F- SD	M1F-M	M1F- MD	M1F-B	M1F~ BD	C1E-S
Foil Bowl No.	B3	СЗ	25	D3	26	27	28	29	30	31
Mass of Filter	1304.1	1327-1	1304,6	(306.8	1322.7	1331.1	1319.9	1331.2	1378.1	1318.2
+ Foil Bowl (mg) (B)		1336.9		1306.7	1	630.9		1331.0		
	1,7,2,2,1	1	2.1.1.1	170017	.,	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12 - 4 .7	1376-7
Vol. of Sample (mL)	500	500	200	200	400	400	400	400	400	400
Mass of Filter	1304.1	1379.2	13et.7	1308.0	375.0	(333.4	B22.4	1334.7	632.7	1323.1
+ Foil Bowl	1304.0	1379.1	(३०१-८	1307.8	B4.8	(333.3	٤٠ ددور	B3 4. 6	H32.5	1322.9
+ S. S. (mg) (A)										
Total Suspended Solids (mg/L) *	0.2	104	.5.5	I.I	1.2	6.0	6.0	9.0	9.0	12
Chloride Check (✓)			/	/	/	./	<i></i>			
Expanded uncertainty, Uexp										
* Total Suspended Solids (m	3/L) = (A - B) / Val. of S	Sample use	ed x 1000						
Acceptance : 1.	Blank : ≤ 0.5	5mg/L						Yes 🗸	No	
criteria : 2.	Difference b	etween d	uplicates	: < 10%				Yes 🔽	No	
: 3.	Recovery of	spike sa	mple : 80	% to 120)%			Yes	No	
: 4.	Check Sam	ole:	80	(%) 1	20 %	5)		Yes 📝	No	
PQL : 5.0mg	ı/L. (Seawat	er / Drink	ing water	/Waste	water)					
	g Silica Gel		_		•	er as che	ock. (/a	1.2	mg/L	_)
							, , ,	,	··· হ্লা =	,
Tested By : 1/					Checke	ed By :				

TPE/006/W



Form E/EN/L/06/Jasue 7 (1/1) [05/05]

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided by client					Laboratory Information				
Client :			I	Lab. Ref.	No. :	***			
Client Ref. No. :			1	W. I. No.	:				
Source ;				Date Rec	eived :	***			
Sample Type :				Date Test	ed :				
Date Sampled :		Test Method					use Metho	wi TPE/00	εΛW
No. of Sample ;		·							*/ * *
Description :	Recovery of Spike = $\frac{44 - 15}{26.5} \times 100\% = 701.8\%$								
	· · · · · · · · · · · · · · · · · · ·	Ref. No.				74.4	1	1	
Drying oven used	E	r/0502/	002						
TSS standard used	······································	J ₂₇₃	•						
							,		
Lab. Ref. No.	₩ <i>≥ן</i> ץקינ (32) (33)	(34)	(35)	(36)	(spike)				
Client sample ID	C1E- SD C1É-M	C1E- MD	C1E-B	C1E- BD	C1E- BD	·			
Foil Bowl No.	32 33	34	35	36	S3	,	<u> </u>		
Mass of Filter	314.5 1307.	f (317.0	1331.6	(3,5.7	1301.8				
+ Foil Bowl (mg) (B)	1314.4 1307.3			415.6	401.6				
Vol. of Sample (mL)	400 400	400	400	200	200				
Mass of Filter	319.4 312.	2 1321.8	(337.5	138.8	310.5				
+ Foil Bowl	1319.2 1312.1		1337.4						
+ S. S. (mg) (A)		, ,							
Total Suspended Solids (mg/L) *	12 12	12	15	7	44				
Chloride Check (√)	V V			V					
Expanded uncertainty, Uexp			:			_			
* Total Suspended Solids (mg/L)	= (A - B) / Vol. o	Sample us	ed x 1000	[····		······································	· · · · · · · · · · · · · · · · · · ·	
	nk ; ≤ 0.5mg/L						Yes	No	
criteria : 2. Diff	erence between	duplicates	s : < 10%	ı			Yes 🗌	No	
; 3. Rec	covery of spike s	ample : 80	0% to 120)%			Yes 🗾	No	
	eck Sample :	80		120 (%)			Yes 🗌	No	
	(Seawater / Drir	iking wate	r / Waste	water)			_		
	Silica Gel H was				is spike /	ا . هـ ا	m	ig/L)	
Remark : 1.7 mg	PHICK COLLI MES	LIGOU (U		ک سانستیست	is apine (*** ,**	11	'S: ←)	

Tested By : p/

Checked By :



Form E/EN/L/06/Issue 7 (1/1) [05/05]

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided	by client				Laborat	ory Info	rmation			
Client :					Lab. Ref.	No.	***			
Client Ref. No. :				,	W. I. No.		***			
Source :					Date Rec	eived :	; <u></u> -			
Sample Type :					Date Test	ted :				
Date Sampled :				-	Test Meth	od :	in-ho	use Meth	nod TPE/C	106/W
No. of Sample :									·	·
Description :				Reco	very of Cl	neck =	[(0 (0)	% = 10	6.8%	
			Ref. No.	-					·	
Drying oven used		ET	/ 0502 /	002						
TSS standard used			J 273							
Lab. Ref. No.	<u> </u>		W ₂ (741	(auG)	(38)	(39)	(40)	(41)	(42)	(43)
Client sample ID	Blank	Check Std	C2E-S	C2E-S	C2E- \$D	C2E-M	C2E-	C2E-B	C2E- BD	M1E-S
Foil Bowl No.	B4	C4	37	D4	38	39	40	41	42	43
Mass of Filter	1332.4	316.1	1305.1	1325.5	(34.9	13.9.9	331.1	1334.5	1305-5	(301.7
+ Fail Bowl (mg) (B)	1332.3	1316.0	1704.9		316.8		430.9	133 4.3	1305.4	,
			-7			<u> </u>				•
Vol. of Sample (ml)	500	500	200	200	400	400	400	400	400	400
Mass of Filter	(332 (3	1371.2	(307.5	1327.8	1321.7	375.2	1336.2	1340.9	34.8	1303.g
+ Foil Bowl	1332.1	1371. o	1307.3	1327.7	1321.6	3×5.0	1336.1	1340.7	1311.8	<i>13</i> 03.7
+ S. S. (mg) (A)										7,4
Total Suspended Solids (mg/L) *	-o.¥	(10	()	12	12	13	13	16	16	1.5
Chloride Check (✓)				/	/	/			/	~
Expanded uncertainty, Uexp						_				-1
* Total Suspended Solids (mg/	L) = (A - B)	/Vol. of S	ample use	d x 1000	· · · · · ·			***************************************		
Acceptance : 1, Bi criteria	ank : ≤ 0.5i	mg/L						Yes 🔽	No	
: 2. Di	fference be	etween d	luplicates	s: < 10%				Yes 🔽	No	
: 3. R	ecovery of	spike sa	mpie : 80	% to 120	1%			Yes	No	
: 4. C	neck Samp	le :	80	(%) 1	20 %	<u>) </u>		Yes 🔽	No	
PQL : 5.0mg/	_ (Seawate	r / Drink	ing water	/Waste	water)					
Remark : If . mg	Silica Gel I	H was a	ided to 5	00ml dist	illed wate	er as che	ck. (to	, , , o	mg/L	.)

TPE/006/W

Tested By

: 7/--

Page 7 of 8

Checked By :



Form E/EN/L/06/Issu: 7 (1/1) [05/05]

LABORATORY SHEET Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided by client					Laboratory Information				
Client :				Lab. Ref.	No.				
Client Ref. No. :				W. I. No.		:			
Source : —				Date Rec	eived	:			
Sample Type :				Date Test	ed	: · <u>-</u>			
Date Sampled :				Test Meth	st Method : In-house Method TPE/00				D6/W
No. of Sample : —									
Description :			Reco	very of Sp	oike =	43-9.0 34.5	×100/ = 98	.6/-	
		Ref. No.	***			,			
Drying oven used		ET / 0502 / 0	002						
TSS standard used		J >73							
Lab. Ref. No.	W21/41		<u> </u>		<u> </u>				
	(44) (45	MATE	(47)	(48) M1E-	(spike) MtE-	<u> </u>	 		
Client sample ID	SD MIE	MD MD	M1E-B	BD	BD	ļ			
Foll Bowl No.	44 4	5 46	47	48	\$4				
Mass of Filter	1332.7 1376	3 13x5. k	1312.8	1326.4	1301.6	 			
+ Foil Bowl (mg) (B)	1332.5 1326	1375.2	1312.7	1376.3	1301.36				
									_
Vol. of Sample (ml.)	400 40	0 400	400	200	200				
Mass of Filter	13k.9 13X	.9 1327.7	1314.5	678.3	810.1				1.8.11.11.11.11.11
+ Foil Bowl	1334.7 132		1316.3	13 28.1	1310.0				
+ S, S. (mg) (A)									
Total Suspended Solids (mg/L) *	5.5 6.0	6.0	9.0	9.0	K				
Chloride Check (✓)		/ //	<u></u>	1/	/				
Expanded uncertainty, Uexp	_								
* Total Suspended Solids (mg/L)	= (A-B)/Vol.	of Sample use	d x 1000			1118 98140 44 141	<u></u>		
	nk : ≤ 0.5mg/L						Yes 🗔	No	
criteria : 2. Diffe	erence betwee	n duplicates	: < 10%				Yes	No	
: 3. Rec	overy of spike	sample: 80	% to 120)%			Yes 📝	No	<u></u>
	ck Sample :	•		20 (%)			Yes	No	
	(Seawater / Dr			<u>'''</u>				•	ـــــا
	Silica Gel H wa	-			s snike /	ام عاج ا	m	g/L)	
Transfer 7 9 1 mg C	FILLER WAS IT AND		-30111 IVI		([, 2	,,,	Ai 🗂	
Tested By : 7/.				Checke	dBy;				



Form E/EN/L/23/Issue 3 (1/1) [05/05]

LABORATORY SHEET

Determination of Nitrate by using Sigmented Flow Analyzer (SFA)

Information provided by client	In	forma	tion p	rovide	d bv	client
--------------------------------	----	-------	--------	--------	------	--------

Laboratory information

Date Received

Client : ERM (Hong Kong) Ltd

Lab Ref. No. : W 2 1741

: 식, 12 1 02

Source : HKCEC, Wan Chai

W.I.No. : EN / 7 / 1 / 99
Dated Tested : >> / 5 / 07

Sample Type : Seawater
Date Sampled : >1 / 5 / 07

Test Method : In-house method TPE/023/W

No. of Sample : 8

Eg. Ref. No. (SFA) : ET/0529/001

Description :

Preparation of calibration curve

Conc. of standard (mg NO ₃ -N/L)	Du
0.00	39
0.02	314
0.04	J84
0.06	٦٦١
0.08	1027
0.10	1294

Ref. No. of Calibration standard stock:	H 691	Date of preparation:	(9 / 2 / 07
Ref. No. of cal chk std stock:	H 692	Date of preparation:	19/2/07
Ref. No. of nitrite standard stock:	H 7 (2	Date of preparation:	9 / 5 /07
Ref. No. of calibration curve:	970/23M2+31	Date of preparation:	13/5/07
Equation of best fit line (y=mx+c):	y = (2287.142	J8x + 57.14287	(r= 0,99770)

Where m = slope of curve, c = y-intercept

Sample analysis

Rednotion Efficiency =	0.062 200 70 =	[01.6]	7.
------------------------	----------------	--------	----

	Lab Daf Na	ab Ref No Client Sample		Du	*Sum of nitrate & nitrite (mg	**Nitrate	Expanded Uncertainty
	Lab Hel No			(y)	$(NO_2+NO_3)-N/L)$	(mgNO ₃ -N/L)	(U _{exp})
		Cal chk std		821	2.262		
		0.06ppm NO ₂	1	502	0.061		
		MB	1	7	-0.003		
		QC	1	741	0.016		
1	W174 (49)	21/5 C1F-S	25	191	01273		
1	•••	Dup	25	186	0.263		
1		Spike	25	731	1.372		
1	(50)	C1F-M	25	*	*		
1	(51)	C1F-B	25	*	*		
1	(52)	C2F-S	25	*	*		
1	(53)	C2F-M	25	*	*		
1	(54)	C2F-B	25	*	*		

^{*} refer to print-out or caluclated according to the equation = sum of NO_2+NO_3 (mg(NO_2+NO_3)-N/L) =

Acceptable criteria

$$S_{|M|} = \frac{1.372 - 0.273}{1.0}$$
= (09.907)

Method Blank :	<0.004mgNO ₃ -N/L	Yes	/	No	
Calibration check standard:	0.054-0.066 mgNO ₃ -N/L	Yes		No	
Difference between duplicates:	≤10%	Yes	/	No	
Recovery of spike sample:	80-120%	Yes		No	
QC Sample :	0.051 0.072 mgNO ₃ -N/L	Yes	/	No	
Square of correlation (r2):	≥ 0.995	Yes		No	

PQL

Drinking water matrix / wastewater matrix (0.004 mgNO₃-N/L)

Remarks

0.2 ml 10ppm NO₃ standard was added to 1/5 C1F-S and diluted to 50ml as spike

Tested by TPE/023/W Checked by

^{**} Nitrate (mg NO_3 -N/L) = sum of nitrate & nitrite (mg(NO_2 + NO_3)-N/L) - nitrite (mg NO_2 -N/L)



Form E/EN/L/23/Issue 3 (1/1) [05/05]

LABORATORY SHEET <u>Determination of Nitrate by using Sigmented Flow Analyzer (SFA)</u>

Information provided by client Client:							<i>Laboratory information</i> Lab Ref. No. :						
_							Date Received :						
Source		•					W.I.No.	•					
Sample Type :							Dated Tested :						
Date Sampled :							Test Method : In-house method TPE/02:					23/W	
No. of Sa	-						Eq. Ref. No. (SFA)		ET/052			111 11/02	-0, **
140. 01 06	шрю	•					Description	:	L1/002	5,00	'		
<u>Prepara</u>	tion	of cali	bratio	n curve									
	Con	c. of sta		mg NO ₃ -N	/L)				Du				
			0.00	_									
			0.02			-							-
			0.04										
			0.06										
			0.08										
			0.10										
Ref. No. o	of Cal	bration	standard	d stock:			Date of preparation:						
Ref. No. o	of cal	chk std	stock:				Date of preparation:						
Ref. No. o	of nitri	te stand	ard stoc	:k:			Date of preparation:						
Ref. No. o	of cali	bration o	curve:				Date of preparation:						
Equation					-		<u> </u>			(r² =	=)
Where m =	slope	of curve	, c = y	-intercept									·
<u>Sample</u>	ana	<u>lysis</u>											
Lab Ref	No		Sample	Dilution	Du	` • 1			**Nitrate		Ехра		ncertainty
			D	(D)	(y)		(NO ₂ +NO ₃)-N/L)	(n	ngNO ₃ -N	I/L)		(U _{exp}	,)
	\		hk Std	1	832	₹ 60.0		_					
W21741		21/1 N		25	*	*							
 	(56)		F-M	25	*	*							
<u> </u>	(57)		F-B	25	+ ^ *		*						
<u>1 —</u>	(58)		E-\$	25	*	*		+					
] "	(59)		E-M	25	*	*		+					
<u></u>	(60)		E-B	25	*			+					
<u>"</u>	(61)		E-S	25	*	*					<u> </u>		
 "	(62)		E-M	25	*	-	*	-					
 "	(63)		E-B	25 25	*	-	*	+					
	(64)		E-S hk std			-		+					
				-	\$10		0.06[
							of NO ₂ +NO ₃ (mg(NO ₂ +NO -N/L) - nitrite (mgNO ₂ N/L		L) =	(-	m m	—) x D	
Acceptable	e crite	ria	Metho	d Blank :			<0.004mgNO ₃ -N/L		Yes			No	
				ation check s	tandard:		0.054-0.066 mgNO ₃ -N	/L	Yes		/-	No	
				nce betweer	_		≤10%		Yes	-	_	No	
Recovery of spike samp						$\overline{}$	80-120%		Yes			No	
QC Sample :				•	$\neg \neg$	0.051 0.072 mgNO ₃	-N/L	Yes			No		
Square of correlation (r²):					≥ 0.995		Yes			No			
PQL			Drinkir	ng water mat	rix / wastewat	ter ma	trix (0.004 mgNO ₃ ⁻ -N/L)						
Remarks				•			· · · · · ·						
nemarks				\									
					e								
Tested by TPE/023/W		:				-	Checked by	: .					



Form E/EN/L/23/Issue 3 (1/1) [05/05]

LABORATORY SHEET

Information provided by client
Client:

Determination of Nitrate by using Sigmented Flow Analyzer (SFA)

Laboratory information

Client	:				Lab Ref. No.	:					
					Date Received	;					
Source	:				W.I.No.	:					
Sample Type	:		Dated Tested :								
Date Sampled	i :			Test Method : In-house method TPE/0					TPE/0	23/W	
No. of Sample	:				Eq. Ref. No. (SFA)	:	ET/052	9/00	1		
				Description	:						
Preparation	of calibration	n curve									
-	c. of standard		<u> </u>)u	_			
	0.0		<u>-,</u>								
	0.0				_		_			-	
	0.0										
-	0.0		_								
	0.0					_	_			_	
	0.1		_		-					-	_
Ref. No. of Cal	ibration stands	ird stock		<u> </u>	Date of preparation:	1					
Ref. No. of cal		a otooki		_	Date of preparation:	\dashv					
Ref. No. of nitr		ock:			Date of preparation:	-					
Ref. No. of cali			_		Date of preparation:		_			_	
Equation of bea		(+c):						(r² =	=		}
Where m = slope		y-intercept			-70						
Sample ana	lysis		Spirke =	<u> </u>	979 ×10070 =	ľ	19.67	· • ·			
Lab Ref No	Client Sample	Dilution	Du	*Sun	n of nitrate & nitrite (mg		**Nitrate	•	Expa	nded U	ncertainty
	ID	(D)	(y)		(NO ₂ +NO ₃)-N/L)	(m	ngNO₃⁻-N	I/L)		(U _{exp}	5)
	ロ/ナM1E-M	25	*		*		_				
(66)	M1E-B	25	*		*						
[11] of [11]	1717 Cat	125	*		*						
(12)	267	125	*		*		_				
	huz	1	1		-0.004			_			
<u> </u>	ه د		43.7		0.063	-					
M21730 (13)	1715 Sween	(5)	33		-0.249	ļ					
	lidip		2.5		-0.330						
(1)	uspike	1	645		5.979	-			-		
(14)	WHSB	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*		*	1			-		
Larate	GACHKJE	121	852		0:065			_			_
W21743611	WA COX	157			*	L					
					NO_2+NO_3 (mg(NO_2+NO_3 I/L) - nitrite (mg NO_2-N/L)	₃)-N/L	_) =	(y-c m	–) × D	
Acceptable crite	eria Meth	od Blank :			<0.004mgNO ₃ -N/L		Yes		-	No	
*		ration check s	tandard:		0.054-0.066 mgNO ₃ ⁻ -N/	L.	Yes			No	
	Diffe	rence between	duplicates:		≤10%		Yes		$\overline{}$	No	
	Reco	very of spike s	sample:		80-120%		Yes		_	No	
	QC S	Sample :			0.051 0.072 mgNO ₃ -l	N/L	Yes	\	/	No	
	Squa	are of correlation	on (r²):		≥ 0.995		Yes			No	
PQL	Drinl	king water matr	rix / wastewate	er matri	x (0.004 mgNO ₃ -N/L)		_				
Remarks	0,2ml.	4 10 ppm A	103 std. Wea	o adds	ed to 1717 Sween o	ry S	pride.				
Tested by TPE/023/W	:		<i></i>		Checked by	: _					
_,, -											

LABORATORY SHEET

Determination of Nirate by using Sigmented Flow Analyzer (SFA)

<i>Information</i>	provided by	client		<u>Laboratory infor</u>	mati	<u>ion</u>					
Client :					Lab Ref. No.	:					
					Date Received	:					
Source		•			W.I.No.	•					
Sample Type	:				Dated Tested	·					
Date Sampled				Dated Tested : Test Method : In-house method TPE/023,							23/\\\
•						• • •	III-IIOUS	e me	suiou	1 F L/U2	23/ ۷ ۷
No. of Sample	;				Eq. Ref. No. (SFA)	:					
					Description	;					
<u>Preparation</u>	of calibratio	n curve									
-	c. of standard (<u>(L)</u>			D	u				
	0.00				-						
	0.02										
	0.04										
	0.06									_	
	0.08										
	0.10										
Ref. No. of Cal	ibration standard	d stock:			Date of preparation:						
Ref. No. of cal	chk std stock:				Date of preparation:						
Ref. No. of nitri	ite standard stoo	:k:			Date of preparation:						
Ref. No. of cali					Date of preparation:						
	st fit line (y=mx+							(r² =	=)
Where m = slope	of curve, c = y	-intercept									
Sample ana	<u>lysis</u>										
Lab Ref No	Client Sample	Dilution	Du	*Sur	n of nitrate & nitrite (mg	1	**Nitrate		Expa		certainty
	ID	(D)	(y)		(NO ₂ +NO ₃)-N/L)	(m	gNO ₃ ⁻ -N	/L)		(U _{exp})
M51343 (15)		1245	*		*	├─-					
(13)	Sween	$-\downarrow$	34.	-		-	_				
(4)	MASB		*		*						
	Col chtst	(773		0.a/8	-					
			1						1		
-											
						<u> </u>					
						 			 		
										_	
						1					
* refer to print-o	ut or caluclated a	eccording to t	he equation =	eum o	f NO ₂ +NO ₃ (mg(NO ₂ +NO ₃	- \- NI/I	\=	/_	y-c	-) x D	
					\sqrt{L} - nitrite (mgNO ₂ -N/L)		., –	(m)^"	
Acceptable crite	eria Metho	d Blank :			<0.004mgNO ₃ -N/L		Yes			No	_
		ation check s			0.054-0.066 mgNO ₃ ⁻ -N/	L	Yes			No	
		ence between			≤10%		Yes			No	
		ery of spike s	sample:		80-120%		Yes			No	
		ample :			mgNO ₃ -N	1/L	Yes			No	
	Squar	e of correlation	on (r²):		≥ 0.995		Yes			No	
PQL	Drinkir	ng water mati	rix / wastewat	er matr	rix (0.004 mgNO ₃ ⁻ -N/L)						
Remarks											
		1									
		1			2 1 1 1:						
Tested by TPE/023/W	•			-	Checked by	: _					
1 C LIUZJI VV							-				

FlowAccess Results Report

Date: 23/05/2007

1	Position	Type1	Identity1	P/TP/NO2+3 ppm	Corr.Ht P/TP/NO2+3	
2	WT	IW	Initial Wash	-0.005	0	
3	1	W	Wash	-0.004	4	
4	2	Т	Tracer	0.095	1220	
5	3	W	Wash	-0.005	0	
6	4	S1	Standard 1	-0.001	39	
7	5	S2	Standard 2	0.021	314	
8	6	S3	Standard 3	0.043	584	
9	7	S4	Standard 4	0.058	771	
10	8	S5	Standard 5	0.079	1027	
11	9	S6	Standard 6	0.101	1294	
12	10	w	Wash	-0.005	0	
13	11	Q0	Cal chk std	0.062	821	
14	12	U	0.06ppm NO2	0.061	802	
15	13	W	!Wash	-0.005	0	
16	14	U	MB	-0.003	17	
17	15	U	QC	0.056	741	
-18	16	U	W21741(49) 21/05 C1F-S *25	0.273	191	
19	17	U	(49) C1F-S *25 (dup)	0.263	186	
20	18	Ū	(49) C1F-S *25 (spike)	1.372	731	
<u></u>		U	(50) C1F-M *25	0.371	240	
22	20	υ	(51) C1F-B *25	0.355	232	
23	21	U	(52) C2F-S *25	0.247	179	
24	22	U	(FO) COT M +OF	0.203	157	
25	23	U	(53) C2F-M*25	0.234	172	
26	24	w	Wash	-0.005	0	
27	25	Q0	Cal Chk Std	0.063	832	
28	<u> </u>	w	Wash	-0.005	0	
		U	W21741(55) 21/05 M1F-S *25	0.576	340	
30	28	U	(56) M1F-M *25	0.229	170	
31	29	U	(57) M1F-B *25	0.279	194	
32	30	U	(FD) C1 F C +OF	0.226	168	
33		Ū	(FO) C1 F M +OF	0.199	155	
34	1 1	Ū	(CO) C1 E B +0E	0.197	154	
/34 /35		<u>U</u>	(C1) COE C #05	0.607	356	
$\frac{35}{36}$	34	U	(00) COE M+0E	0.461	284	
27	-	U	(63) C2E-III 25	0.240	175	
		U	(0.4) A44 E 0.405	0.245	178	
	<u> </u>	w	(64) M1E-S *25 Wash	-0.005	0	
39						
	-	Q0	Cal Chk Std	0.061	810	
41	 -	<u>w</u>	Wash	-0.005	0	
42	: - 	U	W21741(65) 21/05 M1E-M *25	0.616	360	
43	<u> </u>	U	(66) M1E-B *25	0.234	172	
44		U	W21730(11) 17/05 Cat *125	0.174	74	
	<u> </u>		W21730(12) 17/05 2G *125	0.257	82	
	<u>. </u>		MB	-0.004	7	
			QC	0.063	837	
48			W21730(13) 17/05 Screen *125	-0.249	33	
49	1		W21730(13) 17/05 Screen *125 (dup)	-0.330	25	
50	48		W21730(13) 17/05 Screen *125 (spike)	5.979	645	
51	49	U	W21730(14) 17/05 UASB *125	0.537	110	
52	50	W	Wash	-0.005	0	

Rodrition = 101.670

7. enn= 3.78%. Spoke = (09.90%.

Spike = (19.67)

Run File Name: C:\Data\2007\May\070523NO2+31.Run

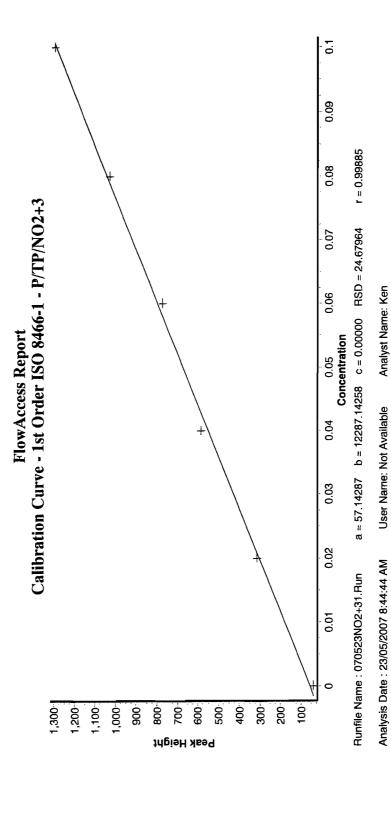
Analysis Date: 23/05/2007

FlowAccess Results Report

Date: 23/05/2007

1	Position	Type1	Identity1	P/TP/NO2+3 ppm	Corr.Ht P/TP/NO2+3	
53	,51	Q0	Cal Chk Std	0.065	852	
54	52	w	Wash	-0.005	0	
55	53	υ	W21743(11) 21/05 Cat *125	1.044	160	
56	54	U	W21743(12) 21/05 2G *125	0.635	120	
57	55	U	W21743(13) 21/05 Screen *125	0.664	122	
58	56	U	W21743(14) 21/05 UASB *125	1.018	157	
59	57	W	Wash	-0.005	0	
60	58	Q0	Cal Chk Std	0.058	773	
61	59	W	Wash	-0.005	0	
62	Wt	E	End Run	-0.004	6	







From E/EN/L/16/ Issue 4 (1/1) [05/05]

LABORATORY SHEET

Determination of nitrogen (ammonia) by using Segmented flow analyser

Information provided by client	Laboratory information
--------------------------------	------------------------

Client: ERM (H.K.) Ltd Lab Ref. No. : W2174

Date Received : ン/ / プ / 07

Source : HKCEC, Wan Chai W.I.No. : EN / 7 / 5 / 97

Sample Type : Seawater Dated Tested : $2\frac{1}{3}$ / 07

Date Sampled : > 1 / 07 Test Method : In-house method TPE/016/W

No. of Sample : (§ Description

Ref. No. of SFA : ET/0529/001

Preparation of calibration curve

Conc. of standard (mg NH ₃ -N/L)	Du
0.00	-42
0.05	604
0.10	(20)
0.25	3307
0.50	6518
1.00	(226)

Ref. No. of Calibration standard stock:	L 850	Date of preparation:	12/ 1/07
Ref. No. of cal chk std stock:	L 871	Date of preparation:	12/5/07
Ref. No. of calibration curve:	15HNES7010	Date of preparation:	23/5/07
Equation of best fit line (y=mx+c):	y = 12365.61215	810to. PZ + X	(r= 0.99862)

Where m = slope of curve,

c = y-intercept

Sample analysis

	ab. Ref. No.		Cliant Commis ID	Dilution	Du	*Nitrogen (ammonia)	Expanded Uncertainty
La	ab. Her	. NO.	Client Sample ID	(D)	(y)	(mg NH ₃ -N/L)	(U _{exp})
			Cal Chk Std	1	146	0.724	
			Method Blank	1	-23	-0.00	
			QC Sample	1	63.5	0.Job	
W	21741	(49)	为 /5 C1F-S	5	776	1.290	
- □			Dup	1	727	0.270	
∠ □			Spike		3380	1.343	
朾		(50)	C1F-M		*	*	
Æ		(51)	C1F-B		*	*	
1	••	(52)	C2F-S		*	*	
1	••	(53)	C2F-M		*	*	
\top		(54)	C2F-B	$\overline{}$	*	*	
			Cal Chk Std	1	6426	77.0	

*refer to the print-out or calculated according to the equation : Nitrogen (ammonia) (mgNH₃-N/L) =

 $\left(\frac{y-c}{m}\right) \times D$

Spile= (1343-0,29)
= (05,37)

Acceptable criteria

Method Blank :	< 0.025 mgNH ₃ -N/L	Yes	/	No	-
Calibration check standard:	0.45 - 0.55 mgNH ₃ -N/L	Yes		No	
Difference between duplicates:	≤10%	Yes		No	_
Recovery of spike sample:	80-120%	Yes	_	No	·
Square of correlation coefficient (r'):	≥0.995	Yes		No	
QC Sample :	0.467 0.593 mg NH ₃ -N/L	Yes		No	

PQL

Drinking water matrix / wastewater matrix (0.025 mgNH₃-N/L)

Remarks :

ml 25ppm NH₃ standard was added to H /J C1F-S as spike

Tested by : ____ Checked by : ____



From E/EN/L/16/ Issue 4 (1/1) [05/05]

LABORATORY SHEET

Determination of nitrogen (ammonia) by using Segmented flow analyser

Information p	rovided by client			Labor	atory informa	tion					
Client	:			Lab Re	-						
				Date R	eceived :						
Source	:			W.I.No	. :						
Sample Type	:			Dated Tested :							
Date Sampled	•			TPE/01	6/W						
No. of Sample	•			Test M Descrip			ooou		0,		
No. of Gample	•				o. of SFA :	ET/052	9/001				
				1101.140	. 010174 .	L1/032	5/001				
Preparation o	f calibration curve	1									
Cond	c. of standard (mg NH ₃ -l	N/L)	1			Du					
	0.00			_	-	-					
	0.05										
	0.10				_						
	0.25										
	0.50										
	1.00										
Ref. No. of Calibra	ation standard stock:				preparation:						
Ref. No. of cal chi					preparation:						
Ref. No. of calibra				Date of	preparation:						
Equation of best fi							(r² =				
Where m = slope		ercept									
Sample analy	<u>sis</u>										
Lab. Ref. No.	Client Sample ID	Dilution	D		*Nitrogen (an		Expan	ded Unce	ertainty		
14(3 , /==)	ŕ	(D)	(y		(mg NH ₃ -N/L)			(U _{exp})			
	√ / J ⁻ M1F-S M1F-M		*		<u>*</u> _						
(56)	M1F-B			· •	*						
(50)	C1E-S		*		*	_	 				
(58)	C1E-M		*	+	*						
(60)	C1E-B		*	,	*						
(61)	C2E-S		*		*						
(62)	C2E-M		*		*	<u> </u>			 -		
(63)	C2E-B		*	+ -	*						
(64)	M1E-S	$\overline{}$	*	+	*						
	Cal Chk Std	1	64	40	0.70	6					
W2,741 (65) 2	1/5 M1E-M		*	•	*			_			
*refer to the print-o	out or calculated accord	ing to the equation	n : Nitroge	en (ammo	onia) (mgNH ₃ -N/L) = (<u>y-c</u>)	x D			
Acceptable criteria	Method Blank :			< 0.0	025 mgNH ₃ -N/L	Yes	··· /	No			
•	Calibration ched	ck standard:		1	0.55 mgNH ₃ -N/L	Yes		No			
	Difference betw	een duplicates:			≤10%	Yes		No			
	Recovery of spi				80-120%	Yes		No			
	Square of corre	(r^) :					No				
	QC Sample :			-	mg NH ₃ -N	L Yes		No			
PQL	Drinking water i	matrix / wastewat	er matrix	(0.025 m	gNH ₃ -N/L)						
Remarks :											
	1										
Tooted his		\sim		Chaster	ad by .						
Tested by :			-	Checke	auby :			_			
TPE/016/W											



From E/EN/L/16/ Issue 4 (1/1) [05/05]

LABORATORY SHEET

Determination of nitrogen (ammonia) by using Segmented flow analyser

Laboratory information

Information provided by client

			Data Danahard	_								
_			Date Received	:								
Source	:		W.I.No.	:								
Sample Type	:		Dated Tested	:								
Date Sampled	:		Test Method	: In-house	In-house method TPE/016/W							
No. of Sample	:		Description	:								
			Ref. No. of SFA	: ET/0529	9/001							
Preparation	of calibration curv	<u> </u>	_	-								
Co	nc. of standard (mg NH	-N/L)		Du								
	0.00											
	0.05											
	0.10	· ·										
	0.25											
	0.50											
	1.00											
	ration standard stock:											
ef. No. of cal cl												
ef. No. of calib												
	fit line (y=mx+c):	y =			(r² =							
/here m = slope		tercept	-	_								
Sample anal	<u>ysis</u>											
Lab. Ref. No.	Client Sample ID		Du *Nitrogen (a (y) (mg NH		Expanded Uncertainty (U _{exp})							
12(74) (66)	N/F MIE-B	5	* *									
N21730 (25)		(0)	* *									
	Cal clute std		444 0.3	T16	_							
refer to the print	t-out or calculated accor	ding to the equation : Nitro	gen (ammonia) (mgNH ₃ -N	/L) = (-	y-c m) x D							
			gen (ammonia) (mgNH ₃ -N/L		y-c m) x D							
	ria Method Blank Calibration ch	eck standard:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/	Yes /L Yes	No No							
	Method Blank Calibration ch Difference bei	: eck standard: ween duplicates:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10%	Yes /L Yes Yes	No No No							
	Method Blank Calibration ch Difference bet Recovery of s	eck standard: ween duplicates: pike sample:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120%	Yes /L Yes Yes Yes	No No No No							
	Method Blank Calibration ch Difference bet Recovery of s Square of cor	: eck standard: ween duplicates:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995	Yes Yes Yes Yes Yes	No No No No No							
	Method Blank Calibration ch Difference bet Recovery of s	eck standard: ween duplicates: pike sample:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120%	Yes Yes Yes Yes Yes	No No No No							
cceptable criter	Method Blank Calibration ch Difference bet Recovery of s Square of cor QC Sample:	eck standard: ween duplicates: pike sample:	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995 0.467 0.593 mg NH ₃	Yes Yes Yes Yes Yes	No No No No No							
cceptable criter	Method Blank Calibration ch Difference bet Recovery of s Square of cor QC Sample:	eck standard: ween duplicates: pike sample: relation coefficient (r²):	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995 0.467 0.593 mg NH ₃	Yes Yes Yes Yes Yes	No No No No No							
cceptable criter	Method Blank Calibration ch Difference bet Recovery of s Square of cor QC Sample:	eck standard: ween duplicates: pike sample: relation coefficient (r²):	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995 0.467 0.593 mg NH ₃	Yes Yes Yes Yes Yes	No No No No No							
cceptable criter QL temarks	Method Blank Calibration ch Difference bet Recovery of s Square of cor QC Sample:	eck standard: ween duplicates: pike sample: relation coefficient (r²):	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995 0.467 0.593 mg NH ₃ - ((0.025 mgNH ₃ -N/L)	Yes Yes Yes Yes Yes	No No No No No							
cceptable criter	Method Blank Calibration ch Difference bet Recovery of s Square of cor QC Sample:	eck standard: ween duplicates: pike sample: relation coefficient (r²):	< 0.025 mgNH ₃ -N/L 0.45 - 0.55 mgNH ₃ -N/ ≤10% 80-120% ≥0.995 0.467 0.593 mg NH ₃	Yes Yes Yes Yes Yes	No No No No No							

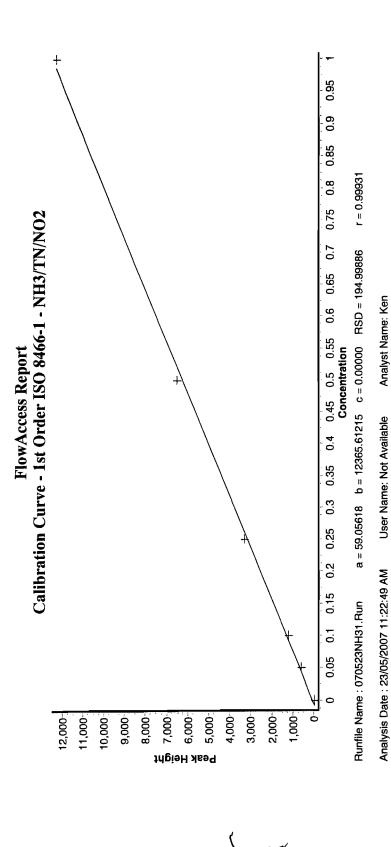
FlowAccess Results Report

Date: 23/05/2007

1	Position	Type1	Identity1	NH3/TN/NO2 ppm	Corr.Ht NH3/TN/NO2
	WT	lW	Initial Wash	-0.005	0
3	1	w	Wash	-0.006	-13
4	2	Т	Tracer	0.982	12204
5	3	W	Wash	-0.005	0
6	4	S1	Standard 1	-0.008	-42
7	5	S2	Standard 2	0.044	604
8	6	S3	Standard 3	0.092	1201
9	7	S4	Standard 4	0.263	3307
10	8	S5	Standard 5	0.522	6518
11	9	S6	Standard 6	0.987	12261
12	10	W	Wash	-0.005	0
13	11	Q0	Cal chk std	0.524	6541
14	12	W	Wash	-0.005	0
_ 15	13	U	МВ	-0.007	23
16	14	U	QC	0.506	6315
	15	U	W21741(49) 21/05 C1F-S *5	0.290	776 727 3380
18	16	U	(49) C1F-S *5 (dup)	0.270	727
	_	U	(49) C1F-S *5 (spike)	1.343	3380
20	18	U	(50) C1F-M*5	0.130	381
<u>21</u>	19	U	(51) C1F-B *5 (52) C2F-S *5	0.228 0.266	623
22	20	U			718 679
23	21	U	(FA) COF D +F	0.250	789
24	23	W	(54) C2F-B -5 Wash	-0.005	789
<u>25</u>	24	Q0	Cal Chk Std	0.515	6426
27	25	W	Wash	-0.005	0
- 28	26	U	W21741(55) 21/05 M1F-S *5	0.116	347
29	27	U	(56) M1F-M *5	0.239	650
´ 		U	(57) M1F-B *5	0.230	628
- <u>30</u> 31		U	(58) C1E-S *5	0.265	713
32		U	(59) C1E-M *5	0.252	682
33		U	(60) C1E-B *5	0.211	581
34	1	U	(61) C2E-S *5	-0.022	5
35	<u> </u>	U	(62) C2E-M *5	0.235	640
36	·	U	(63) C2E-B *5	0.233	635
	·	U	(64) M1E-S *5	0.260	701
38	36		Wash	-0.005	0
39	37	Q0	Cal Chk Std	0.516	6440
40	38	w	Wash	-0.005	0
41	39	U	W21741(65) 21/05 M1E-M *5	0.005	70
42	40	U	(66) M1E-B*5	0.237	645
43	41	U	W21730(25) 17/05 UV *10	3.994	4998
44	42	w	Wash	-0.005	0
45	43	Q0	Cal Chk Std	0.516	6444
	44	W	Wash	-0.005	0
47	Wt	E ;	End Run	-0.015	-122

_

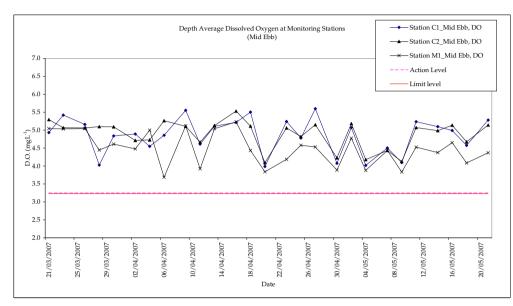
 $Run \ File \ Name: C: \ Data \ 2007 \ May \ 070523 \ NH31. Run \qquad \qquad Analysis \ Date: 23/05/2007$

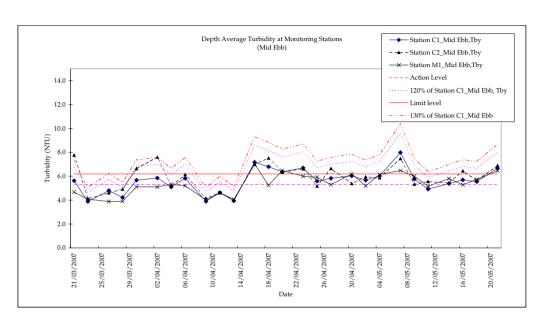


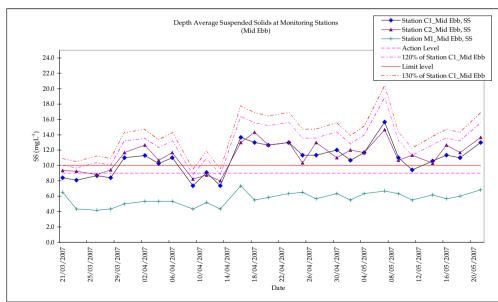
Annex I

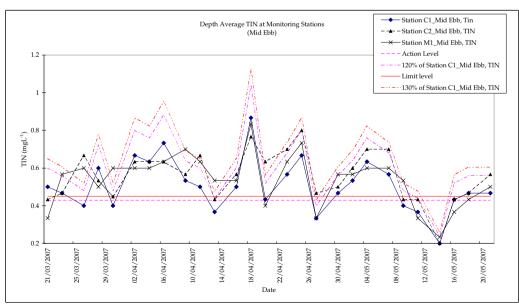
Water Quality Monitoring Results

Additional Water Quality Monitoring Results (Mid Ebb)

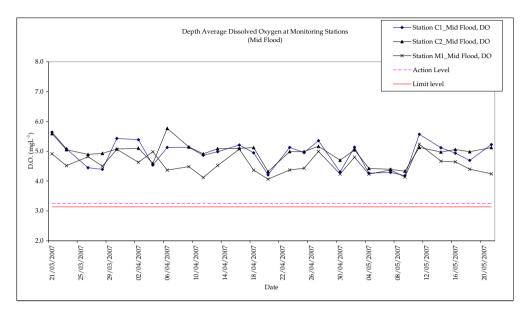


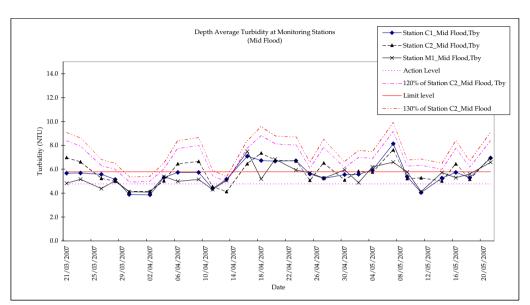


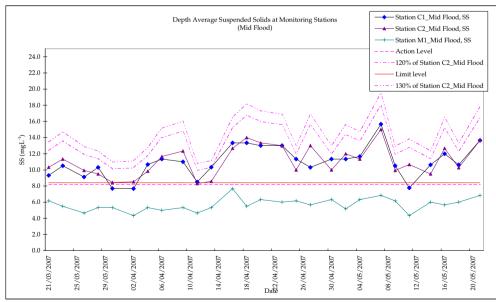


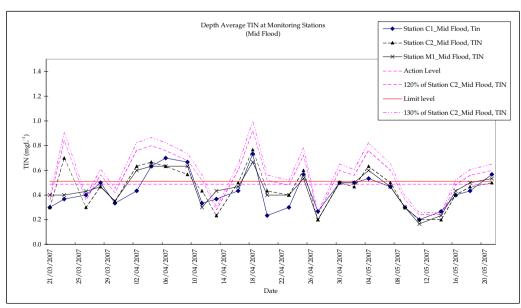


Additional Water Quality Monitoring Results (Mid Flood)









Water Quality Monitoring Results for Station C2 (Mid-Ebb Tide)

														1							Т							7
Date			2/5	5/2007					4/5/2007					7/5/2007						9/5/2007								
Time (hh:mm)			13:10	0 - 13:25					13:32 - 13:47					16:00 - 16:15														
Ambient Temperature				28							28							30										
Weather			S	unny						С	loudy						F	ine										
Water Depth (m)			1	4.90						1	4.00						15	5.20						1	4.00			
Monitoring Depth	1.0	00	7	.50	13.90			1.0	00	7.	.00	10	3.00		1.	00	7.	60	1-	4.20		1.0	00	7.	.00	1	3.00	1
Tide			Mi	d-Ebb						Mi	d-Ebb						Mic	d-Ebb	•					Mi	d-Ebb			1
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average
Water Temperature (°C)	25.5	25.5	25.3	25.3	25.0	25.0	25.3	25.8	25.7	25.4	25.3	25.3	25.2	25.5	26.5	26.5	26.0	26.0	25.7	25.7	26.1	27.3	27.3	26.8	26.8	26.5	26.4	26.9
Salinity (ppt)	29.9	29.8	30.1	30.1	30.3	30.2	30.1	29.1	29.1	29.5	29.5	29.5	29.6	29.4	29.9	29.9	30.2	30.0	30.4	30.3	30.1	29.3	29.3	29.5	29.4	29.6	29.6	29.5
D.O. (mg/L)	5.22	5.29	5.14	5.25	5.07	5.12	5.2	4.34	4.30	4.19	4.15	4.06	4.02	4.2	4.68	4.50	4.27	4.32	4.46	4.37	4.4	4.39	4.35	4.07	4.02	3.98	3.95	4.1
D.O. Saturation (%)	64.0	65.1	69.1	70.6	68.2	69.0	67.7	63.7	63.2	61.5	61.0	59.6	59.0	61.3	64.0	62.3	60.8	61.4	63.1	62.3	62.3	60.5	60.0	56.1	55.4	54.5	54.1	56.8
Turbidity (NTU)	6.07	6.11	5.23	5.27	6.46	6.58	6.0	5.54	5.52	5.97	5.96	6.11	6.14	5.9	7.12	7.08	7.39	7.45	7.82	7.99	7.5	5.05	5.04	5.23	5.24	5.72	5.75	5.3
SS* (mg/L)	12.0	12.0	11.0	11.0	13.0	13.0	12.0	11.0	11.0	12.0	12.0	12.0	12.0	11.7	14.0	14.0	15.0	15.0	15.0	15.0	14.7	10.0	10.0	11.0	11.0	11.0	11.0	10.7
NO _x , mg N/L	0.	.3	(0.3		0.3	0.3	0.	.4	c	.6		0.4	0.5	0	.4	0.	.4		0.4	0.4	<0).1	c	1.2		0.2	0.2
NH ₃ , mg NH ₃ -N/L	0.	.3	(0.3		0.3	0.3	0.	.3	<	0.1		0.3	0.3	0	.3	0.	.3		0.3	0.3	0.	.3	C	1.3		0.3	0.3
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0.	.6	().6		0.6	0.6	0.	.7	C	.6		0.7	0.7	0	.7	0.	.7		0.7	0.7	0.	.3	C).5		0.5	0.4
Remarks		N	o constru	uction act	ivities wer	e observed			N	o constru	ction activ	vities were	e observed	Waste water was noted from others					No construction activities were observed					d				

^{*} For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	0/1/1900
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Within Limit Level ?

Within Ellin Cover .									
Date	2/5/2007								
D.O. (mg/L)	Υ								
Turbidity (NTU)	Υ								
SS (mg/L)	N								
TIN (mg/L)	N								

Within Action Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Within Limit Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Ν
TIN (mg/L)	N

Within Action Level ?

Date	7/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Within Limit Level ?						
Date	7/5/2007					
D.O. (mg/L)	Y					
Turbidity (NTU)	N					
SS (mg/L)	N					
TIN (mg/L)	N					

Within Action Level ?

within Action Level ?							
Date	9/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	N						
SS (mg/L)	Ν						
TIN (mg/L)	Y						

Mileton I I and I amend

Within Limit Level ?						
Date	9/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	N					
TIN (ma/L)						

Water Quality Monitoring Results for Station C2 (Mid-Ebb Tide)

Date			11/	/5/2007			Ī		14/5/2007				16/5/2007							18/5/2007							21/5/2007						Ī								
Time (hh:mm)			08:4	5 - 09:00			Ī			10:52	- 11:07						12:50	- 13:05			13:45 - 14:00								16:55 - 17:10					Ť							
Ambient Temperature				29							30							31							31				30]							
Weather			S	Sunny						S	unny						S	unny						С	oudy						Re	ainy									
Water Depth (m)				14.40						1	4.20						1	4.70						1	4.00						14	4.40									
Monitoring Depth	1.	.00	7	.20	13.40)		1.	00	7.	10	13.20			1	00	7.	40	13.70	l			1.00	7.	00	13.00			1./	.00	7.2	7.20 13.40									
Tide			M	id-Ebb						Mic	d-Ebb						Mi	d-Ebb						Mi	d-Ebb						Mid	d-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average						
Water Temperature (°C)	25.8	25.8	25.5	25.5	25.3	25.3	25.5	27.3	27.3	27.0	27.0	26.8	26.7	27.0	27.0	27.0	26.9	26.9	26.6	26.6	26.8	28.6	28.7	28.1	28.0	27.9	27.8	28.2	25.8	25.8	25.3	25.3	25.0	25.0	25.4						
Salinity (ppt)	29.2	29.2	29.6	29.6	29.8	29.8	29.5	29.2	29.2	29.4	29.3	29.4	29.3	29.3	29.3	29.3	29.6	29.6	30.0	30.0	29.6	29.2	29.2	29.3	29.3	29.4	29.4	29.3	29.8	29.8	30.0	30.0	30.0	30.2	30.0						
D.O. (mg/L)	5.00	5.06	5.13	5.27	5.04	4.93	5.1	5.12	5.08	5.07	5.04	4.82	4.78	5.0	5.12	5.08	5.19	5.25	5.07	5.11	5.1	4.93	4.96	4.58	4.62	4.46	4.49	4.7	5.07	5.16	5.14	5.06	5.24	5.18	5.1						
D.O. Saturation (%)	68.0	68.5	68.4	70.8	67.7	66.5	68.3	73.7	73.1	73.0	72.5	68.9	68.3	71.6	69.2	68.8	69.6	70.6	68.3	68.9	69.2	70.0	70.4	65.0	65.6	62.8	63.3	66.2	68.4	69.3	69.0	68.2	70.2	69.7	69.1						
Turbidity (NTU)	6.00	5.86	5.23	5.34	5.46	5.51	5.6	4.72	4.70	5.84	5.81	5.79	5.77	5.4	6.05	6.12	5.23	5.36	8.00	7.89	6.4	5.15	5.14	5.83	5.82	5.98	5.95	5.6	6.11	6.15	6.23	6.27	8.39	8.24	6.9						
SS* (mg/L)	12.0	12.0	11.0	11.0	11.0	11.0	11.3	9.0	8.8	11.0	11.0	11.0	11.0	10.3	12.0	12.0	11.0	11.0	15.0	15.0	12.7	11.0	11.0	12.0	12.0	12.0	12.0	11.7	12.0	12.0	13.0	13.0	16.0	16.0	13.7						
NO _x , mg N/L	0	.2	(0.2		0.3	0.2	<0).1	<(0.1	<	<0.1	<0.1	(.3	0	.2		0.2	0.2		0.3	C	.3	(0.1	0.2	0.	.6	0.	.5	ſ	0.2	0.4						
NH ₃ , mg NH ₃ -N/L	0	.2	(0.2		0.2	0.2	0	.2	0	.2		0.2	0.2	(.2	0	.2		0.2	0.2		0.3	С	.3	(0.1 0.2		<0).1	0.	.2	C	0.2	0.2						
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0	.4	,	0.4		0.5	0.4	0	.2	0	.2		0.2	0.2	25		0.5 0.4 0.4						0.5		0.4	0.6		0.6		0.6 0.2		0.2		0.5	0	.6	0.	7	,	0.4	0.6
Remarks			•			e observed	J. 1	No construction activities were observed						•			e observed	3.4						e observed	1 3.3	0.		Wastewa	,			1 3.0									

Within	Action	Level	?	

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?

Within Emilit Ecoci :						
Date	11/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	N					
TIN (mg/L)	Υ					

Within Action Level 1							
Date	14/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	N						
SS (mg/L)	N						
TIM (mg/L)	V						

Within Limit Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Z
TIN (mg/L)	Υ

Within Action Level ?

Date	16/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?								
Date	16/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	N							
SS (mg/L)	N							
TIN (ma/L)	Υ							

Within Action Level ?									
Date	18/5/2007								
D.O. (mg/L)	Υ								
Turbidity (NTU)	N								
SS (mg/L)	N								
TIN (mg/L)	N								

Within Limit Level ?							
Date	18/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	Υ						
SS (mg/L)	N						
TIN (ma/L)	N						

Within Action Level ?

WILLIIII ACL	IOII LEVEL :
Date	21/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Within Limit Level ?							
Date 21/5/2007							
D.O. (mg/L)	Υ						
Turbidity (NTU)	N						
SS (mg/L)	N						
TIN (mg/L)	N						

Water Quality Monitoring Results for Station M1 (Mid-Ebb Tide)

Data			0/5	/2007			1			A /E	/0007			1			7/5	/0007			Ī			0/5	/2007			
Date	2/5/2007 4/5/2007								7/5/2007						•													
Time (hh:mm)			12:45	5 - 13:00						13:55	- 14:10				15:35 - 15:50						17:58 - 18:13					1		
Ambient Temperature				28							28				30						28						1	
Weather			Si	unny				Cloudy							Fine							Sunny						
Water Depth (m)			1	0.50						ç	9.40				10.00						9.40							
Monitoring Depth	1.	00	5.	30		9.50		1.00 4.70 8.40				1.00 5.00 9.00					.00		1.00 4.70			70	8.40					
Tide			Mic	d-Ebb						Mic	d-Ebb						Mic	d-Ebb						Mic	d-Ebb			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average
Water Temperature (°C)	25.6	25.6	25.4	25.4	25.1	25.0	25.4	25.7	25.8	25.4	25.3	25.3	25.3	25.5	26.5	26.5	26.1	26.1	25.7	25.7	26.1	27.3	27.3	26.8	26.8	26.5	26.5	26.9
Salinity (ppt)	29.8	29.8	30.0	30.0	30.1	30.2	30.0	29.1	29.0	29.5	29.4	29.5	29.5	29.3	29.8	29.8	30.2	30.2	30.3	30.3	30.1	29.3	29.4	29.5	29.4	29.5	29.4	29.4
D.O. (mg/L)	5.13	4.92	4.63	4.74	4.69	4.55	4.8	4.02	4.06	3.75	3.71	3.88	3.85	3.9	4.53	4.66	4.49	4.34	4.28	4.30	4.4	4.15	4.19	3.64	3.61	3.72	3.69	3.8
D.O. Saturation (%)	68.4	66.5	64.6	65.3	60.9	59.3	64.2	59.0	59.6	55.1	54.5	56.6	56.2	56.8	62.4	63.7	63.2	61.3	60.5	60.9	62.0	57.2	57.8	50.2	49.8	51.3	50.9	52.9
Turbidity (NTU)	4.56	4.64	5.33	5.41	5.54	5.62	5.2	5.83	5.84	6.25	6.24	6.39	6.36	6.2	6.16	6.25	6.37	6.49	6.78	6.82	6.5	5.47	5.45	6.14	6.17	6.39	6.40	6.0
SS* (mg/L)	5.0	5.0	5.5	5.5	6.0	6.0	5.5	6.0	6.0	6.5	6.5	6.5	6.5	6.3	6.5	6.5	6.5	6.5	7.0	7.0	6.7	6.0	6.0	6.5	6.5	6.5	6.5	6.3
NO _x , mg N/L	0	.2	0	.2		0.4	0.3	0.	.4	0	.3		0.3	0.3	().3	0	.4	().2	0.3	0	.2	0	.2	(0.3	0.2
NH ₃ , mg NH ₃ -N/L	0	.3	0	.3		0.3	0.3	0.	.3	0	.3		0.3	0.3	().3	0	.3	(0.3	0.3	0	.3	0	.3	(0.3	0.3
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0	.5	0	.5		0.7	0.6	0.	.7	0	.6		0.6	0.6	(0.6	0	1.7	().5	0.6	0	.5	0	.5	(0.6	0.5
Remarks			(General e	earth wor	(General earth work								(General e	arth work					G	General ea	arth work			

^{*} For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	0/1/1900
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Y
TIN (mg/L)	Υ

Within Limit Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Level ?

Date	7/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?								
Date 7/5/2007								
D.O. (mg/L)	Υ							
Turbidity (NTU)	Υ							
SS (mg/L)	Υ							
TIN (mg/L)	Υ							

Within Action Level ?

Within Action Level :							
Date	9/5/2007						
D.O. (mg/L)	Y						
Turbidity (NTU)	Υ						
SS (mg/L)	Υ						
TIN (mg/L)	N						

Within Link Level :							
Date	9/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	Υ						
SS (mg/L)	Υ						
TIN (ma/L)	N						

Water Quality Monitoring Results for Station M1 (Mid-Ebb Tide)

Date	11/5/2007			1			14/5	/2007						16	5/5/2007						18/	5/2007			Ī			21/5	5/2007]			
Time (hh:mm)	08:20 - 08:35				11:15 - 11:30				12:25 - 12:40				14:08 - 14:23				16:28 - 16:43																		
Ambient Temperature				29							30							31				31					30								
Weather			S	unny						Sı	inny						5	Sunny				Cloudy						Rainy							
Water Depth (m)				9.60						8	.80							9.80							9.20						9	9.70			
Monitoring Depth	1.	.00	4	.70	8.60			1.0	00	4.4	10	7.80			1.	.00	Ę	5.00	8.80			1.	.00	4	.60	8.20			1.	1.00 4.90 8.70			8.70		
Tide			Mi	d-Ebb						Mic	l-Ebb						M	lid-Ebb					,	Mi	d-Ebb						Mic	d-Ebb			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average
Water Temperature (°C)	25.8	25.9	25.6	25.6	25.3	25.3	25.6	27.4	27.4	27.0	27.0	26.9	26.8	27.1	27.1	27.1	26.9	26.9	26.7	26.7	26.9	28.5	28.4	28.0	28.0	27.6	27.5	28.0	25.7	25.8	25.3	25.4	25.0	25.0	25.4
Salinity (ppt)	29.3	29.3	29.5	29.5	29.6	29.6	29.5	29.2	29.2	29.4	29.4	29.6	29.5	29.4	29.3	29.3	29.5	29.5	29.7	29.8	29.5	29.2	29.2	29.3	29.2	29.4	29.3	29.3	29.9	29.8	30.0	30.1	30.3	30.3	30.1
D.O. (mg/L)	4.35	4.49	4.50	4.58	4.58	4.67	4.5	4.82	4.85	4.27	4.22	4.06	4.02	4.4	4.81	4.79	4.63	4.58	4.52	4.59	4.7	4.26	4.24	4.07	4.02	3.98	3.95	4.1	4.24	4.33	4.26	4.19	4.58	4.63	4.4
D.O. Saturation (%)	60.6	62.1	63.8	64.0	59.9	60.7	61.9	69.4	69.8	61.4	60.7	58.0	57.4	62.8	65.3	65.0	64.7	64.0	59.1	60.4	63.1	60.4	60.1	57.7	57.0	56.5	56.0	58.0	71.2	72.3	68.4	69.9	59.8	60.1	67.0
Turbidity (NTU)	4.59	4.62	5.28	5.31	5.55	5.60	5.2	5.17	5.14	6.08	6.09	6.17	6.14	5.8	5.03	4.86	5.26	5.35	5.57	5.63	5.3	5.39	5.38	5.70	5.73	6.10	6.11	5.7	5.19	5.26	5.57	5.63	8.52	8.60	6.5
SS* (mg/L)	5.0	5.0	5.5	5.5	6.0	6.0	5.5	5.5	5.5	6.5	6.5	6.5	6.5	6.2	5.5	5.5	5.5	5.5	6.0	6.0	5.7	5.5	5.5	6.0	6.0	6.5	6.5	6.0	5.5	5.5	6.0	6.0	9.0	9.0	6.8
NO _x , mg N/L	0	1.1	<	0.1		0.3	0.2	<0).1	0.	1	<	0.1	0.1	<(0.1		0.3		0.2	0.3	<	0.1	().1	(0.3	0.2	0).2	0).6	1	0.2	0.3
NH ₃ , mg NH ₃ -N/L	0	.2	().2		0.2	0.2	0.	.2	0.	2	().2	0.2	0	.2		0.2		0.2	0.2	C	0.3	(0.3	(0.3	0.3	0	0.3	<(0.1		0.2	0.3
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L		1.3		1.2		0.5	0.3	0.	2	0	•		1.2	0.2				0.5		0.4	0.4		1.3		1.4		0.6	0.4		1.5		16		0.4	0.5
Remarks				_	,	e observed	0.3	0.				earth work	J.C	0.2	0.2 0.5 0.4 General earth work								0.4	Wastewater was noted from others						0.5					

Within	Action	Ι Αναί

WILIIIII ACLIOII LEVEL !							
Date	11/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	Υ						
SS (mg/L)	Υ						
TIN (mg/L)	Υ						

Within Limit Level ?

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Leve

Within Action Level ?								
Date	16/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	Υ							
SS (mg/L)	Υ							
TIN (mg/L)	Υ							

Within Limit Level

Within Limit Level ?							
Date	16/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	Υ						
SS (mg/L)	Υ						
TIN (mg/L)	Υ						

Within Action Level ?

Within Action Level ?							
Date	18/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	Υ						
SS (mg/L)	Υ						
TIN (mg/L)	Υ						

Within Limit Level

Within Limit Level ?								
Date	18/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	Υ							
SS (mg/L)	Υ							
TIN (mg/L)	Υ							

Within Action Level ?

WILLIIII AC	HOII LEVEL !
Date	21/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Lin	nit Level ?
Date	21/5/2007
D.O. (mg/L)	Y
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Water Quality Monitoring Results for Station C1 (Mid-Flood Tide)

Date	2/5/2007					1			4/5	/2007						7/5	/2007				9/5/2007										
Time (hh:mm)				0 - 18:45							0 - 07:45							0 - 07:35			•	07:30 - 07:45						-			
Ambient Temperature				27					28									30			•	28						-			
Weather			C	loudy						CI	Cloudy						-	ine				Sunny									
Water Depth (m)				9.80						1	0.40						9	9.80						1	0.80			Ī			
Monitoring Depth	1	.00	5.	.00		3.80		1.0	00	5.	20	9	.40		1.	00	5.	.00	8	.80		1.	00	5.	40	9.80		Ī			
Tide			Mid	l-Flood						Mid	-Flood	ı					Mid	l-Flood						Mid	-Flood			Ī			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average			
Water Temperature (℃)	25.7	25.7	25.4	25.3	25.1	25.0	25.4	25.6	25.5	25.4	25.3	25.0	25.1	25.3	26.3	26.3	26.1	26.1	25.7	25.7	26.0	26.9	26.9	26.6	26.5	26.4	26.4	26.6			
Salinity (ppt)	29.8	29.9	30.0	30.0	30.1	30.1	30.0	29.1	29.2	29.4	29.4	29.4	29.5	29.3	29.7	29.8	30.2	30.1	30.3	30.3	30.1	29.2	29.2	29.4	29.4	29.6	29.5	29.4			
D.O. (mg/L)	5.36	5.42	5.07	5.11	4.96	4.87	5.1	4.42	4.39	4.36	4.33	4.02	4.07	4.3	4.42	4.50	4.31	4.26	4.07	4.19	4.3	4.49	4.45	4.23	4.20	3.89	3.86	4.2			
D.O. Saturation (%)	74.3	74.8	68.2	69.1	68.3	67.4	70.4	64.8	64.4	64.0	63.6	58.6	59.4	62.5	64.9	65.6	61.0	60.5	60.3	61.5	62.3	61.7	61.4	58.3	57.9	53.6	53.2	57.7			
Turbidity (NTU)	5.38	5.46	5.48	5.53	5.88	5.70	5.6	5.60	5.63	5.97	5.98	6.17	6.16	5.9	7.68	7.72	8.14	8.23	8.48	8.55	8.1	4.47	4.49	5.74	5.75	5.90	5.93	5.4			
SS* (mg/L)	11.0	11.0	11.0	11.0	12.0	12.0	11.3	11.0	11.0	12.0	12.0	12.0	12.0	11.7	15.0	15.0	16.0	16.0	16.0	16.0	15.7	8.5	8.5	11.0	11.0	12.0	12.0	10.5			
NO _x , mg N/L	().2	0).2		0.2	0.2	0.	2	0	0.2		0.3	0.2	0	0.2		0.1		0.1	0.1	<	0.1	<	0.1		<0.1	< 0.1			
NH ₃ , mg NH ₃ -N/L	(0.3				0.3	0.3	0.		0	.3		0.3	0.3		.3	C	0.3		0.4	0.3	С	.3	0	.3		0.3	0.3			
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	(0.5		0.5	0.	.5	0	0.5		0.5	0	0.5		0.4		0.5	0.5	0.3		0.0			0.3	0.3					
Remarks	Trial 1 Trial 2 Trial 1 7 7 1 1 1 7 1 1 2 7 1 1 1 1 7 1 1 2 7 1 1 1 1		uction acti	vities wer	e observed			N	o constru	ction acti	vities were	e observed				Rubbis	h was for	und on the	e water		No construction activities were observed										

^{*} For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Within Limit Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

WIGHT LIN	III LEVEL !
Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Ν
SS (mg/L)	Ν
TIN (mg/L)	N

Within Action Level ?

Date	7/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Lin	nit Level ?
Date	7/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

Within AC	tion Level ?
Date	9/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Ν
SS (mg/L)	Ν
TIN (mg/L)	Υ

WICHIII CIII	III LEVEI !
Date	9/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	N
TIN (mg/L)	Υ

Water Quality Monitoring Results for Station C1 (Mid-Flood Tide)

Date	11/5/2007									14/5	5/2007						16/	5/2007			Ī			18/	5/2007			Ī			21	/5/2007			
Time (hh:mm)			12:3	3 - 12:50						16:33	3 - 16:48						18:30	0 - 18:45	;		Ī			07:30	07:45				07:54 - 08:10						
Ambient Temperature				29							30							32							31			Ī	30						
Weather	Sunny								Sunny								С	loudy						С	loudy					Rainy					
Water Depth (m)	9.40									9	9.80						1	10.00			1			1	0.60							9.80			
Monitoring Depth	1	.00	4	.70		3.40		1.2	00	4.	90	8.80			1.	00	5.	.00	9.00		1	1.	.00	5	30	9.60			1.7	.00	4	.90	8.80		
Tide			Mic	I-Flood						Mid	-Flood						Mid	d-Flood					1	Mic	-Flood						Mid-Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average
Water Temperature (°C)	25.9	25.8	25.6	25.6	25.3	25.3	25.6	27.6	27.6	27.4	27.3	27.1	27.1	27.4	27.3	27.3	27.0	26.9	26.7	26.7	27.0	28.2	28.2	27.8	27.8	27.6	27.7	27.9	25.6	25.8	25.3	25.3	25.0	25.0	25.3
Salinity (ppt)	29.3	29.2	29.4	29.4	29.6	29.5	29.4	29.1	29.1	29.6	29.5	29.6	29.6	29.4	29.4	29.4	29.6	29.6	29.8	29.9	29.6	29.0	29.0	29.4	29.4	29.4	29.3	29.3	29.7	29.6	30.0	30.0	30.3	30.3	30.0
D.O. (mg/L)	5.51	5.68	5.78	5.85	5.26	5.33	5.6	5.59	5.55	4.94	4.91	4.87	4.84	5.1	5.18	5.21	4.84	4.72	4.93	4.74	4.9	5.02	5.05	4.67	4.63	4.42	4.37	4.7	5.20	5.32	5.34	5.28	5.15	5.07	5.2
D.O. Saturation (%)	76.0	78.2	77.2	78.7	70.7	71.3	75.4	80.4	79.9	71.1	70.7	70.1	69.6	73.6	69.6	70.5	66.0	65.2	67.3	65.5	67.4	71.2	71.7	66.3	65.7	62.3	61.6	66.5	70.8	72.0	72.2	71.6	69.2	68.4	70.7
Turbidity (NTU)	4.36	4.29	3.98	4.10	3.74	3.80	4.0	4.74	4.72	5.19	5.20	5.87	5.88	5.3	5.63	5.51	5.73	5.79	5.88	5.92	5.7	4.76	4.77	5.39	5.37	5.75	5.72	5.3	6.07	6.13	6.26	6.31	8.39	8.47	6.9
SS* (mg/L)	8.5	8.5	8.0	8.0	6.8	6.8	7.8	9.0	8.8	11.0	11.0	12.0	12.0	10.6	11.0	11.0	12.0	12.0	13.0	13.0	12.0	9.0	8.8	11.0	11.0	12.0	12.0	10.6	12.0	12.0	13.0	13.0	16.0	16.0	13.7
NO _x , mg N/L	<	0.1	<	0.1		<0.1	#DIV/0!	0	.1	<0	0.1		:0.1	0.1	0	.2	C	0.2		0.2	0.2	С	1.1	C	.3		0.1	0.2	0	0.3	1	0.4	(0.4	0.4
NH ₃ , mg NH ₃ -N/L	().2	().2		0.2	0.2	0	.3	0	.2		0.2	0.2	0	.2	C	0.2		0.2	0.2	С	1.2	С	.3		0.3	0.3	0	0.3	-	0.1	(0.2	0.2
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	(0.2	(1.2		0.2	0.2	0	.4	0	.2		0.2	0.3	0	.4	0	0.4		0.4	0.4	0	1.3	0	.6		0.4	0.4	С	0.6		0.5		0.6	0.6
Remarks		N	o constru	ction act	ivities wer	e observed			N	o constru	ction acti	vities wer	e observed			N	lo constru	uction act	tivities wer	e observed			N	o constru	ction acti	vities wer	e observed				Waster	vater was	noted from	n others	

Action	

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?

Within Emilit Edvor i								
Date	14/5/2007							
D.O. (mg/L)	Y							
Turbidity (NTU)	Υ							
SS (mg/L)	N							
TIN (mg/L)	Y							

Within Action Level ?

Date	16/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Lin	nit Level ?
Date	16/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

WILLIIII ACLIOII LEVEL :							
Date	18/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	N						
SS (mg/L)	N						
TIN (mg/L)	Υ						

Within Limit Level ?									
18/5/2007									
Υ									
Υ									
N									
Υ									

Within Action Level ?

WILLIIII AC	HOII Level ?
Date	21/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

WICHIII EIII	III LEVEI I
Date	21/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	N

Water Quality Monitoring Results for Station C2 (Mid-Flood Tide)

Date			2/5	/2007				4/5/2007									7/5	/2007						9/5	/2007				
Time (hh:mm)			19:20	0 - 19:35						07:55	5 - 08:10				08:25 - 08:40							07:55 - 08:05						1	
Ambient Temperature				27							28							30							28				
Weather			С	loudy						С	loudy						-	ine				Sunny						ĺ	
Water Depth (m)			1	5.40				14.80							15.60						14.80						ĺ		
Monitoring Depth	1.0	00	7.	.70	1	4.40		1.	00	7.	.40	1	3.80		1	.00	7.	80	1	4.60		1.00 7.40			13.80		ĺ		
Tide			Mid	l-Flood						Mid	l-Flood						Mid	-Flood	•					Mic	l-Flood			ĺ	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	
Water Temperature (°C)	25.6	25.7	25.4	25.4	25.0	24.9	25.3	25.7	25.7	25.4	25.3	25.2	25.1	25.4	26.3	26.3	26.1	26.0	25.7	25.7	26.0	27.0	27.0	26.8	26.8	26.7	26.7	26.8	
Salinity (ppt)	30.0	29.8	30.0	30.0	30.1	30.2	30.0	29.2	29.1	29.5	29.5	29.6	29.5	29.4	29.8	29.8	30.2	30.2	30.4	30.4	30.1	29.2	29.1	29.5	29.5	29.6	29.6	29.4	
D.O. (mg/L)	4.91	4.98	5.10	5.22	5.08	5.01	5.1	4.67	4.63	4.42	4.37	4.21	4.24	4.4	4.58	4.62	4.22	4.31	4.28	4.34	4.4	4.74	4.71	4.21	4.25	4.06	4.03	4.3	
D.O. Saturation (%)	66.3	67.8	68.2	69.6	68.3	67.0	67.9	68.6	68.0	64.5	63.8	61.4	61.9	64.7	62.9	63.3	60.1	61.3	61.2	61.8	61.8	65.4	64.9	57.6	58.2	55.6	55.2	59.5	
Turbidity (NTU)	6.00	5.93	5.18	5.20	6.33	6.40	5.8	5.43	5.41	5.85	5.84	6.02	6.05	5.8	7.31	7.29	7.56	7.42	8.00	8.09	7.6	4.72	4.70	5.19	5.20	5.76	5.74	5.2	
SS* (mg/L)	12.0	12.0	11.0	11.0	13.0	13.0	12.0	11.0	11.0	11.0	11.0	12.0	12.0	11.3	14.0	14.0	15.0	15.0	16.0	16.0	15.0	8.8	8.8	10.0	10.0	11.0	11.0	9.9	
NO _x , mg N/L	0	.1	0).2		0.2	0.2	0	.4	C	1.3		0.3	0.3	(0.2	C	.2		0.2	0.2	<0.1		1 <0.1		<0.1		<0.1	
NH ₃ , mg NH ₃ -N/L	0	3	0).3		0.3	0.3	0	.3	С	1.3		0.3		(0.3	С	.3		0.3	0.3	0	0.3		0.3		0.3		
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0	4	0).5		0.5	0.5	0	.7	C	1.6	0.6		0.6	(0.5		0.5		0.5 0.5		0.5	0.3		0.3		0.3		0.3
Remarks	0.4 0.5 0.5 0.5 No construction activities were observed							No construction activities were observed						Waste water was noted from others						No construction activities were observed									

^{*} For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	0/1/1900
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (ma/L)	N

Within Limit Level ?

Date	4/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	Υ							
SS (mg/L)	N							
TIN (mg/L)	N							

Within Action Level ?

Date	7/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Ν
SS (mg/L)	Ν
TIN (mg/L)	N

Within Limit Level ?										
Date 7/5/2007										
D.O. (mg/L)	Υ									
Turbidity (NTU)	N									
SS (mg/L)	N									
TIN (mg/L)	Υ									

Within Action Level ?

Date	9/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	Ν							
SS (mg/L)	Ν							
TIN (mg/L)	Υ							

WIGHT EITHE LEVEL !									
Date	9/5/2007								
D.O. (mg/L)	Υ								
Turbidity (NTU)	Υ								
SS (mg/L)	N								
TIN (mg/L)	Υ								

Water Quality Monitoring Results for Station C2 (Mid-Flood Tide)

Date			11/	/5/2007						14/5	/2007					5/2007				18/5/2007								21/5/2007																															
Time (hh:mm)			13:2	5 - 13:40				16:58 - 17:13									19:30	- 19:45						07:5	5 - 08:10				08:50 - 09:05																														
Ambient Temperature				29						:	30							32				31							30																														
Weather			S	Sunny						Su	ınny						Cl	oudy				Cloudy								Rainy																													
Water Depth (m)			1	15.00						14	1.80						15	5.60				14.80									1	5.70																											
Monitoring Depth	1.0	00	7	.50	1-	4.00		1.	.00	7.4	40	13.80			1.0	00	7.8	80	14.60			1.	00	7	.40	13.80			1.00 7.90			14.70																											
Tide			Mic	d-Flood						Mid-	Flood						Mid	-Flood						Mic	l-Flood						Mic	l-Flood																											
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average																								
Water Temperature (°C)	25.9	25.9	25.6	25.6	25.3	25.1	25.6	27.7	27.7	27.5	27.4	27.3	27.2	27.5	27.0	27.0	26.8	26.8	26.6	26.6	26.8	28.2	28.1	27.8	27.7	27.6	27.5	27.8	25.6	25.6	25.3	25.3	25.0	25.0	25.3																								
Salinity (ppt)	29.2	29.2	29.4	29.4	30.0	29.8	29.5	29.2	29.2	29.5	29.5	29.6	29.6	29.4	29.3	29.4	29.6	29.6	30.0	30.0	29.7	29.2	29.1	29.4	29.3	29.4	29.4	29.3	29.7	29.7	30.0	29.9	30.2	30.2	30.0																								
D.O. (mg/L)	4.91	4.89	5.27	5.34	5.15	5.22	5.1	5.38	5.35	4.82	4.79	4.77	4.72	5.0	5.18	5.23	5.02	4.94	5.03	4.95	5.1	5.23	5.20	4.98	4.95	4.79	4.76	5.0	5.03	5.13	5.19	5.26	5.00	5.13	5.1																								
D.O. Saturation (%)	66.3	65.6	69.5	70.2	68.2	68.8	68.1	77.4	77.0	69.4	68.9	68.2	67.4	71.4	69.8	70.5	67.1	66.4	67.2	66.6	67.9	74.2	73.8	70.7	70.2	68.0	67.5	70.7	67.7	68.8	69.6	70.7	67.3	68.6	68.8																								
Turbidity (NTU)	5.06	5.18	5.26	5.40	5.41	5.39	5.3	4.48	4.47	4.94	4.93	5.63	5.61	5.0	6.10	6.19	5.30	5.48	7.78	7.84	6.4	4.88	4.86	5.17	5.18	5.42	5.45	5.2	6.08	6.19	6.25	6.38	8.49	8.50	7.0																								
SS* (mg/L)	10.0	10.0	11.0	11.0	11.0	11.0	10.7	8.5	8.5	9.0	9.0	11.0	11.0	9.5	12.0	12.0	11.0	11.0	15.0	15.0	12.7	8.8	8.8	11.0	11.0	11.0	11.0	10.3	12.0	12.0	13.0	13.0	16.0	16.0	13.7																								
NO _x , mg N/L	<0	0.1	<	:0.1	<	:0.1	<0.1	<(0.1	<0	1.1		0.1	<0.1	0.	0.2		0.2		0.2		0.2 0.1		0.3		0.1		0.2	0.2		0.2		0.2		0.2																								
NH ₃ , mg NH ₃ -N/L	0	.2	(0.2		0.2	0.2	0	.2	0.	2		0.2	0.2	0.	0.2 0.2				0.2	0.2	0.3		0.3		0.3		0.3	0.3						0.3																								
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0	.2	(0.2		0.2	0.2	0	1.2	0.	2		0.2	0.2	0.	0.4 0.4		0.4 0.4		0.4		0.4		0.4		0.4		0.4 0.4		0.4 0.4		0.4		0.4 0.4		04 04		-		0.4		1 04		0.4	0.4	c	.4	(0.6	(0.4	0.5	0	.5	(0.5		0.5	0.5
Remarks		N	o constru	uction act	vities were	e observed			N	o constru	ction acti	vities wer	e observed			No construction activities were observed								No construction activities were observed						Wastew	ater was	noted from	n others																										

Within Action Level ?

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	N
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Ν
SS (mg/L)	N
TIN (mg/L)	Υ

Within Limit Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	N
TIN (mg/L)	Υ

Within Action Level ?

16/5/2007									
Υ									
N									
N									
Υ									

Within Limit Level ?								
Date	16/5/2007							
D.O. (mg/L)	Y							
Turbidity (NTU)	N							
SS (mg/L)	N							
TIN (mg/L)	Y							

Within Action Level ?

Within Action Level ?							
Date	18/5/2007						
D.O. (mg/L)	Υ						
Turbidity (NTU)	N						
SS (mg/L)	N						
TIN (mg/L)	Υ						

Within Limit Level ?								
Date	18/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	Υ							
SS (mg/L)	N							
TIN (mg/L)	Υ							

Within Action Level ?

Within Action Level :									
Date	21/5/2007								
D.O. (mg/L)	Y								
Turbidity (NTU)	N								
SS (mg/L)	N								
TIN (mg/L)	N								

Within Limit Level ?								
Date	21/5/2007							
D.O. (mg/L)	Υ							
Turbidity (NTU)	N							
SS (mg/L)	N							
TIN (ma/L)								

Water Quality Monitoring Results for Station M1 (Mid-Flood Tide)

	l						1						T								1				/2007			[
Date	2/5/2007 4/5/2007									7/5/2007							1																					
Time (hh:mm)			18:55	- 19:10						08:18	- 08:33				08:00 - 08:15						08:13 - 08:28																	
Ambient Temperature				27				28										30				28]												
Weather			CI	oudy				Cloudy							Fine					Sunny																		
Water Depth (m)	10.80							10.20							10.40					10.20																		
Monitoring Depth	1.	00	5.	50	ç	9.80		1.0	00	5.	10	9	9.20		1	.00	5.	20	ç	9.40		1.	1.00 5.10															
Tide			Mid	-Flood						Mid	-Flood						Mid	-Flood				Mid-Flood																
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average										
Water Temperature (°C)	25.7	25.7	25.4	25.4	25.0	25.0	25.4	25.7	25.6	25.3	25.3	25.1	25.1	25.4	26.3	26.2	26.0	26.1	25.8	25.8	26.0	27.0	27.0	26.8	26.8	26.6	26.5	26.8										
Salinity (ppt)	29.9	29.9	30.0	30.0	30.1	30.1	30.0	29.2	29.2	29.4	29.3	29.4	29.5	29.3	30.0	30.0	30.2	30.2	30.3	30.3	30.2	29.2	29.2	29.6	29.6	29.6	29.6	29.5										
D.O. (mg/L)	5.04	5.16	4.79	4.87	4.44	4.50	4.8	4.58	4.55	4.19	4.16	3.98	3.94	4.2	4.46	4.59	4.38	4.47	4.13	4.20	4.4	4.60	4.64	4.09	4.06	3.74	3.70	4.1										
D.O. Saturation (%)	67.6	68.8	65.8	66.9	58.2	58.8	64.4	67.3	66.8	61.5	61.1	58.1	57.5	62.1	62.4	63.0	61.6	62.8	60.9	61.7	62.1	63.4	64.0	56.4	56.0	51.2	50.6	56.9										
Turbidity (NTU)	3.98	4.22	5.27	5.23	5.20	5.38	4.9	5.79	5.78	6.37	6.34	6.44	6.43	6.2	6.24	6.36	6.58	6.64	6.82	6.96	6.6	5.27	5.26	5.96	5.98	6.04	6.07	5.8										
SS* (mg/L)	4.5	4.5	5.5	5.5	5.5	5.5	5.2	6.0	6.0	6.5	6.5	6.5	6.5	6.3	6.5	6.5	7.0	7.0	7.0	7.0	6.8	5.5	5.5	6.5	6.5	6.5	6.5	6.2										
NO _x , mg N/L	0	.2	0	.2		0.2	0.2	0.	.3	0	.3		0.3 0.3		0.3 0.3		0.3 0.3		0.3 0.3		0.3 0.3		0.3 0.3		().2	0	.1		0.2	0.2	<().1	<(0.1	<	:0.1	<0.1
NH ₃ , mg NH ₃ -N/L	0	.3	0	.3		0.3	0.3	0.	.3	0	.3	0.3				0.3	().3	0	.3		0.3	0.3	0	.3	0	1.3	(0.3	0.3								
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L	0	.5	0	.5		0.5	0.5	0.	.6	0	.6	0.6		0.6	-	0.5	0	.4		0.5	0.5	0	.3	0	1.3		0.3	0.3										
Remarks	General earth work								(General e	arth work				N	o constru	ction acti	vities wer	e observed				(General c	earth work													

^{*} For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?

Date	2/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Y

Within Action Level ?

4/5/2007
Υ
Υ
Υ
Υ

Within Limit Level ?

Date	4/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Lovel 2

Within Action Level ?						
Date	7/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

Within Limit Level ?						
Date	7/5/2007					
D.O. (mg/L)	Y					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

Within Action Level ?

WILLIAM ACTION LEVEL ?						
Date	9/5/2007					
D.O. (mg/L)	Y					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

within Limit Level ?						
Date	9/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

Water Quality Monitoring Results for Station M1 (Mid-Flood Tide)

Date			11/	5/2007						14/5	5/2007				16/5/2007								18/	5/2007				21/5/2007							
Time (hh:mm)			13:00	0 - 13:15						17:21 - 17:36					19:05 - 19:20						08:18 - 08:33							08:2£			08:25 - 08:40				
Ambient Temperature				29							30				32						31							30							
Weather			s	unny						Sı	ınny				Cloudy							Cloudy								Rainy					
Water Depth (m)			1	0.10						9	.40						1	0.40				9.60							10.50						
Monitoring Depth	1.	.00	5.	.10	9.10			1.	00	4.	70	8.40			1.	00	5.	.20	9.40			1	.00	4	.80	8.60			1.	00	5.	.30	9.50		
Tide			Mid	l-Flood						Mid-	-Flood						Mid	I-Flood						Mic	l-Flood						Mid	l-Flood			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth Average
Water Temperature (°C)	25.9	25.8	25.6	25.6	25.3	25.3	25.6	27.5	27.4	27.3	27.3	27.0	27.0	27.3	27.1	27.1	26.8	26.8	26.7	26.7	26.9	28.3	28.2	27.9	27.8	27.6	27.6	27.9	25.6	25.6	25.3	25.3	25.0	25.0	25.3
Salinity (ppt)	29.3	29.2	29.4	29.4	29.6	29.6	29.4	29.2	29.1	29.6	29.6	29.6	29.6	29.5	29.3	29.3	29.6	29.6	29.9	29.9	29.6	29.1	29.1	29.3	29.2	29.4	29.4	29.3	29.7	29.7	30.0	30.0	30.2	30.2	30.0
D.O. (mg/L)	5.02	5.11	5.44	5.38	5.28	5.19	5.2	5.02	5.05	4.72	4.68	4.29	4.25	4.7	4.94	4.81	4.60	4.55	4.43	4.53	4.6	4.85	4.81	4.34	4.30	4.06	4.02	4.4	4.28	4.16	4.08	4.10	4.39	4.44	4.2
D.O. Saturation (%)	71.5	72.3	73.5	72.6	70.4	69.1	71.6	72.2	72.7	67.9	67.3	61.3	60.7	67.0	66.7	65.3	64.2	63.7	58.1	59.2	62.9	68.8	68.3	61.6	61.0	57.2	56.6	62.3	71.7	70.4	68.8	69.0	57.9	58.4	66.0
Turbidity (NTU)	3.88	3.90	4.18	4.24	4.28	4.33	4.1	5.26	5.24	5.92	5.90	6.04	6.02	5.7	5.12	5.16	5.22	5.34	5.49	5.46	5.3	5.07	5.06	5.74	5.72	6.01	6.03	5.6	5.30	5.51	5.62	5.77	8.60	8.73	6.6
SS* (mg/L)	4.0	4.0	4.5	4.5	4.5	4.5	4.3	5.5	5.5	6.0	6.0	6.5	6.5	6.0	5.5	5.5	5.5	5.5	6.0	6.0	5.7	5.5	5.5	6.0	6.0	6.5	6.5	6.0	5.5	5.5	6.0	6.0	9.0	9.0	6.8
NO _x , mg N/L	<	0.1	<	0.1		<0.1	<0.1	<	0.1	<0).1).1	0.1	0	0.2 0.2 0.3			0.2		0.2	0.3 0.1			0.1	0.2	0.6		0.6 0.2		0.3		0.4		
NH ₃ , mg NH ₃ -N/L	C	.2	C).2		0.1	0.2	0	.2	0.	.2	().2	0.2	0	.2	0).2	-	0.2	0.2		0.3	(0.3		0.3	0.3	0	.1	C).2	(0.2	0.2
Total Inorganic Nitrogen (Ammonia + NO _x), mg/L		.2	0).2		0.1	0.2	0	.2	0	.2).3	0.2	0	.4	0).4		0.5	0.4		0.5).6		1.4	0.5	0	1.7).4		0.5	0.5
Remarks						re observed			-			arth work		, ,,,,						re observed			***			earth work		, 3.0					s noted fron		2.0

Within	Action	I aval

Wilding Addidin Edvor .						
Date	11/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

Within Limit Level ?

Date	11/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Limit Level ?

Date	14/5/2007
D.O. (mg/L)	Υ
Turbidity (NTU)	Υ
SS (mg/L)	Υ
TIN (mg/L)	Υ

Within Action Lovel 2

7

Within Limit Level ?						
Date	16/5/2007					
D.O. (mg/L)	Υ					
Turbidity (NTU)	Υ					
SS (mg/L)	Υ					
TIN (mg/L)	Υ					

Within Action Lovel 2

Within Action Level ?				
Date 18/5/2007				
D.O. (mg/L)	Υ			
Turbidity (NTU)	Υ			
SS (mg/L)	Υ			
TIN (mg/L) Y				

Within Limit Level ?			
Date 18/5/200			
D.O. (mg/L)	Υ		
Turbidity (NTU)	Υ		
SS (mg/L)	Υ		
TIN (mg/L)	Υ		

Within Action Level ?

WILLIIII ACLIOII LEVEL !			
Date	21/5/2007		
D.O. (mg/L)	Υ		
Turbidity (NTU)	Υ		
SS (mg/L)	Υ		
TIN (mg/L)	Υ		

Within Limit Level ?		
Date	21/5/2007	
D.O. (mg/L)	Y	
Turbidity (NTU)	Υ	
SS (mg/L)	Υ	
TIN (mg/L)	Υ	

Annex J

Event / Action Plans for Air and Water Quality Monitoring

Table J1 Event Action Plans for Air Quality

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.
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 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	el 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. 	 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.
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.

 Table J2
 Event Action Plans for Water Quality

Event	Action			
	ET	IC(E)	ER	Contractor
Action level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IC(E) and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E) and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discuss with IC(E) on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IC(E) and propose mitigation measures to IC(E) and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	 Identify source(s) of impact; Inform IC(E) and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E) and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance. 	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	 Discuss with IC(E) on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IC(E) and propose mitigation measures to IC(E) and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)

Event		Ac	tion	
	ET	IC(E)	ER	Contractor
Limit level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IC(E), contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discuss with IC(E), ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IC(E) and ER and propose mitigation measures to IC(E) and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	 Identify source(s) of impact; Inform IC(E), contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discuss with IC(E), ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IC(E) and ER and propose mitigation measures to IC(E) and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)

Annex K

Summary of Implementation Status

Annex K - Summary of Environmental Protection / Mitigation Activities

Environmental Permit No. EP-239/2006/A

EP Condition	Submission	Action Required by the Permit Holder	Implementation Status
Ref Massures for M	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.
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 M	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 M	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.
3.2	Baseline Monitoring Report	One week before the commencement of construction	Report was submitted to the EPD on 24/7/06 and comments from the EPD was received on 3/8/06. Revised report was submitted to EPD on 17/8/06 and no further comments received.

Type of	Environmental Protection Measures	Location/ Timing	Status				
Impact							
	Construction Phase						
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 should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the 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 Pho		T	
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 Pl	1ase	1	1
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 Impact	Environmental Protection Measures	Location/ Timing	Status				
_	Operational Phase						
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 Ph	nase						
Water Quality	There should be no permanent structure in the water channel.	At the ALE sea channel / during operational phase	1				
Water Quality	No dredging and no reclamation should be carried out for the Project.	At work sites / during construction phase	V				
Water Quality	The marine pile layout as shown in Figure 2.6 of the EIA report 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	Only Stages 1 & 2 marine piling works have commenced and relevant environmental measures were implemented				
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	√ ·				

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	V
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	Δ

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact		Ŭ	
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 covered e.g. by tarpaulin, and temporary access roads 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 necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations	Works areas / construction period	

Environmental Resources Management

Hip Hing – Ngo Kee Joint Venture

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	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 Quality	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Works areas / construction period	Δ
Water Quality	Under normal circumstances, groundwater pumped out of wells, 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.	Works areas / construction period	√
Water Quality	Water used in ground boring and drilling or rock /soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Works areas / construction period	√ ·
Water Quality	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum.	Works areas / construction period	√

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online 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	Δ
	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	V
	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 sterilizing water should be reused wherever practicable. Discharge of sterilization effluent should be properly pre-treated for compliance with TM/WPCO requirements, such as but not limited to total residual chlorine.	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 necessary.	Works areas / construction period	
Water Quality	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.
Water Quality	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul	Works areas / construction period	√

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	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 Quality	It is recommended to provide sufficient chemical toilets in the 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.	Works areas / construction period	
	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 Quality	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Works areas / construction period	√ ·
Water Quality	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and	Works areas / construction period	V

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	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. 		
Water Quality	To minimize the potential water quality impacts from the 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 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 the nearby water receivers; • construction activities, which generate large amount of	Works areas / construction period	Δ

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	 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. 		
Water Quality	If monitoring of the treated effluent quality from the Works Areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD. The contractor should submit detailed monitoring programme to EPD for approval before commencement of the construction activities.	Works areas / construction period	V
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.	√ ·
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 transportation. All barges should maintain adequate clearance between vessels and the seabed at all states of the tide and	Works areas / construction period	No barge will be required for the project.

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	should operate at a reduced speeds to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.		
Water Quality	Connection of sewage generated from the ALE will be connected to the existing public sewer. For handling, treatment and 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.	Project site / design and construction period	Relevant works have yet to be commenced / completed
Construction Pl	1 Aase		
Waste	 Recommendations for good site practices during the construction 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. 	Work site / during the construction period	Δ
Waste	 Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: sorting of demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (ie soil, broken concrete, metal, etc); segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or 	Work site / during the construction period	√ ·

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	 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 generated and avoid unnecessary generation 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	Δ
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 public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included. One may make 	Work site / during the construction period	

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	 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 If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container Indicating the corresponding chemical characteristics of the chemical waste, such as 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.	Work site / during the construction period	
Operational Pha	se		
Waste	General Refuse 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 waste arisings generated at the HKCEC would follow the existing handling and disposal arrangement. Provided proper	Work site / during the construction period	Measures not required until commencement of operational phase

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	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	ase		
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	√
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	√ ·
Operational Pha	l 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
Landscape & Visual	Appearance and view considerations: (a) avoid industrial feel of building service elements;	Entire proposed works and adjacent hotels	Mitigation measures to be implemented during operational phase

Type of	Environmental Protection Measures	Location/ Timing	Status
Impact			
	(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.		
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:

- √ 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 L

Waste Flow Table

HKCEC - Atrium Link Extension Project

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

Monthly Summary Waste Flow Table for Year 2006

Year	Ac	tual Quantitie	s of inert C&	≿D Materials ((in 10 ³ Kg) (1)				Actual Qua	ntities of C&D	Wastes (in 10 ³	Kg) ⁽⁴⁾			
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill		Steel on of existing om Link		of existing		ardboard aging	General refuse	Other waste	Chemica	al Waste
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal	Recycle	Disposal
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
August	264	0	1	0	263	0	0	0	0	0	1	50	81	0	0
Septembe	1509 (2)	0	2	0	1507	0	0	0	0	0	1	60	215	0	0
October	1380	0	2 (3)	0	1378	30 (5)	0	0	0	0	1	55	532 ⁽⁶⁾	0	0
November	2091	0	1 (3)	0	2090	100 (5)	0	0	0	0	1.5	50	115 ⁽⁶⁾	0	0
December	1717	0	1 (3)	0	1716	80 (5)	0	0	0	0.2	0.1	60	50	0	0
Total	6961	0	7	0	6954	210	0	0	0	0.2	4.6	275	993	0	0

Note:

⁽¹⁾ Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
(2) Inert C&D material mainly generated from construction of foundation.
(3) Reused for building bunds and making sand bags.

⁽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.

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 2007

Year	Ac	tual Quantitie	es of inert C&	zD Materials (in 10 ³ Kg) ⁽¹⁾				Actual Qua	ntities of C&D	Wastes (in 10 ³	Kg) ⁽⁴⁾			
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill		Steel n of existing m Link		of existing		ardboard aging		al Waste L)	General refuse	Other waste
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal
January	924	462	0.5	0	462	90	0	0	0	0.2	0.05	0	0	60	80
February	814	110	0.5	0	704	5	0	0	0	0.2	0.07	0	288	66	55
March	583	66	0.5	0	517	0	0	0	0	0	0.05	0	0	77	33
April	1034	165	0.5	0	867	0	0	0	0	0.4	0.05	0	0	55	44
May	275.5	33	0.5	0	242	10	0	0	0	0.4	0.04	0	0	55	154
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1309.5	836	2.5	0	2792	105	0	0	0	1.2	0.26	0	288	313	366

Note:

⁽¹⁾ Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
(2) Inert C&D material mainly generated from construction of foundation.
(3) Reused for building bunds and making sand bags.

⁽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 M

Construction Programme for Next Three Months

Works	Second S		Baseline 1		Project Summary		Split		one 🍨			Critical Task	3 Month Rolling Programme based on master P Date: 6/06/2007	ionth e: 6/0
Machanima Mach	Column Column Column Description Security Column Description Security Column Description Column Description Column	A Summan	Group By		External Tasks		Summarv	The receipt of	vin			Task	KORO Reposion Decipot	202
March Name Scorpius Adail State March	Value Val		errererere contribution interests and the fact			Tue 19/12/06	Tue 28/11/06	Tue 9/1/07	Mon 18/12/06	100%	and the state of t	HKCEC	RIP / DDR by PM and	119
March Contract March State	Security					Mon 27/11/06	Tue 21/11/06	Sat 16/12/06	Mon 27/11/06	100%		ign Checker	Design Check by Des	118
Packadamina	WORT State of State (1974) All Architectures (1974) Description (1974) All Architectures (1974) Description (1974) All Architectures (1974)					Tue 31/10/06	Fri 6/10/06	Sat 25/11/06	Fri 6/10/06	100%	ssion	Preparation & Submi	Design BS Diversion	117
Table Name No. Company Advanced No. Company No. Company Advanced No. Company No. Company Advanced No. Company No.	UNIDE 1. Month (Mills) (Programme Notation on matter Programme Notation of matter Programme Notation (Programme Notation (Pro			organies (mark		Tue 19/12/06	Fri 6/10/06	Tue 9/1/07	Fri 6/10/06	100%			BS Diversion Plan	116
Total Name Score	Dilution			egyyydd MgOX		Fri 2/2/07	Thu 5/10/06	NA	Thu 5/10/06	99%		Link	Demolition of Existing Atrium	115
Comparignment Comparignmen	URIE			***************************************		Thu 2/11/06	Mon 9/10/06	Fri 20/10/06	Fri 6/10/06	100%			DDR for Submission by PM	86
Project Industries Schopping Schoppi	District			000000000000000000000000000000000000000		Fri 6/10/06	Mon 18/9/06	Fri 6/10/06	Mon 18/9/06	100%		ker	Design Check by Design Check	85
Part Note Part	Marie Mari					Sat 16/9/06	Fri 25/8/06	Sat 16/9/06	Fri 25/8/06	100%			Preparation & Submission	84
Trans. Natures No. Comptex Annual State Moder Plants Mod	Dilution			***************************************		Thu 2/11/06	Fri 25/8/06	Fri 20/10/06	Fri 25/8/06	100%	Platform in Pha	Pedestrian Access	Foundation design for Temporary	8
Total Notes	District			останование		Sat 21/10/06	Sat 21/10/06	₹	\$	0%		atform	DDR for Temporary Working Pi	82
Total Name	10 10 10 10 10 10 10 10			***************************************		Sat 21/10/06	Fri 6/10/06	A	Thu 12/10/06	99%			DDR by PM	81
No. Complete Mode	MODE			000000000000000000000000000000000000000		Fri 6/10/06	Fri 8/9/06	Fri 6/10/06	Fri 8/9/06	100%		Checking Engineer	Design Check by Independent	80
Tack Notes Mode Mode See Mode Mode See Mode Mod	10 10 10 10 10 10 10 10			MARKET SEC		Thu 7/9/06	Tue 15/8/06	Thu 7/9/06	Tue 15/8/06	100%		ation & Submission	Temp. Platform Design Prepara	79
Table Name No. Complete Adual Start	State Stat			***************************************		Sat 21/10/06	Tue 15/8/06	NA	Tue 15/8/06	99%	luding foundatic	water channel (incl	Temporary Working Platform over	78
Tack Name Sc Campines Sc Campines Actual Stant Adual Stant Baselines State Baselines Sta	Marie Supering S					Mon 15/1/07	Tue 2/1/07	Mon 5/2/07	Mon 29/1/07	100%		g Plan by PM	RIP/DDR for Hoarding	77
Table Name	Mode:					Sat 30/12/06	Fri 15/12/06	Sat 27/1/07	Fri 22/12/06	100%	eer	dent Checking Engine	RIP/DDR by Independ	76
Table Notices 150 Complete Actual Stant Act	Mode Section Page Marco Marc			маррианск		Thu 14/12/06	Fri 1/12/06	Wed 20/12/06	Fri 1/12/06	100%	3	paration & Submissio	Hoarding Design Prep	75
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Table Name March	Dilutes 2396 Fra 280006 CAU					Fri 8/9/06	Tue 5/9/06	Fri 8/9/06	Tue 5/9/06	100%		Plan by PM	RIP/DDR for Hoarding	73
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Task Name Task	Substitute Sub					Fri 9/2/07	Wed 3/1/07	Thu 17/5/07	Wed 3/1/07	100%			For Phase I A&A Works	60
Task Name	Manuel M			occessiones de la constantina		Wed 29/11/06	Thu 16/11/06	Thu 4/1/07	Thu 4/1/07	100%		n for PM	DDR for Hoarding Pla	59
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		Tue 3/10/06	Tue 3/10/06	Tue 17/10/06	Tue 17/10/06	100%	Design	RIP for Schemetic Design	568
		Tue 3/10/06	Tue 12/9/06	Tue 17/10/06	Tue 12/9/06	100%		RIP by PM	567
		Mon 11/9/06	Sat 26/8/06	Mon 11/9/06	Sat 26/8/06	100%	esin Checker	Design Check by Desin Checker	566
		Fri 25/8/06	Fri 30/6/06	Fri 25/8/06	Fri 30/6/06	100%	Schematic Design Preparation & Submission	Schematic Design F	565
		Tue 3/10/06	Fri 30/6/06	Tue 17/10/06	Fri 30/6/06	100%		Stage 1 & 2	564
		Tue 3/10/06	Fri 30/6/06	Tue 17/10/06	Fri 30/6/06	100%		Review In Principle	563
		Mon 18/12/06	Fri 30/6/06	Tue 3/4/07	Fri 30/6/06	100%	xtion	BS - Telecommunication Installation	562
		Wed 17/1/07	Wed 17/1/07	Thu 29/3/07	Thu 29/3/07	100%		DDR for Low Voltage	561
		Wed 17/1/07	Wed 27/12/06	Thu 29/3/07	Tue 13/3/07	100%	bmission by PM	DDR for Low Voltage Submission by PM	560
		Sat 23/12/06	Wed 29/11/06	Mon 12/3/07	Tue 12/12/06	100%	Checker	Design Check by Design Checker	559
		Tue 28/11/06	Wed 1/11/06	Tue 12/12/06	Sat 11/11/06	100%	tion	Detailed Design Preparation	558
		Wed 17/1/07	Wed 1/11/06	Thu 29/3/07	Sat 11/11/06	100%		Details Design Review	557
		Tue 21/11/06	Tue 21/11/06	Wed 29/11/06	Wed 29/11/06	100%		RIP for Preliminary ELV Layout Design	556
		Tue 21/11/06	Wed 1/11/06	Wed 29/11/06	Fri 10/11/06	100%	:	RIP by PM	555
nanovana del		Tue 31/10/06	Sat 30/9/06	Thu 9/11/06	Sat 30/9/06	100%	esin Checker	Design Check by Desin Checker	554
	_	Sat 30/9/06	Thu 10/8/06	Sat 30/9/06	Thu 10/8/06	Submis 100%	Preliminary ELV Layout Design Preparation & Submis	Preliminary ELV Lay	553
	_	Tue 21/11/06	Thu 10/8/06	Wed 29/11/06	Thu 10/8/06	100%		Stage 2	552
	_	Tue 3/10/06	Tue 3/10/06	Tue 3/10/06	Tue 3/10/06	100%	Design	RIP for Schemetic Design	551
	_	Tue 3/10/06	Wed 13/9/06	Tue 3/10/06	Wed 13/9/06	100%		RIP by PM	550
	_	Tue 12/9/06	Fri 25/8/06	Tue 12/9/06	Fri 25/8/06	100%	sin Checker	Design Check by Desin Checker	549
	_	Thu 24/8/06	Fri 21/7/06	Thu 24/8/06	Fri 21/7/06	100%	Schematic Design Preparation & Submission	Schematic Design F	548
	_	Tue 3/10/06	Fri 21/7/06	Tue 3/10/06	Fri 21/7/06	100%		Stage 1	547
	_	Tue 21/11/06	Fri 21/7/06	Wed 29/11/06	Fri 21/7/06	100%		Review in Principle	546
	_	Wed 17/1/07	Fri 21/7/06	Thu 29/3/07	Fri 21/7/06	100%		BS - Extra Low Voltage	545
	*	Tue 30/1/07	Tue 30/1/07	N _A	\$	0%	rainage	DDR for Plumbing and Drainage	544
		Tue 30/1/07	Mon 8/1/07	N.	Thu 8/2/07	99%	DDR for Plumbing and Drainage Submission by PM	DDR for Plumbing and D	543
		Sat 6/1/07	Mon 11/12/06	Wed 7/2/07	Wed 27/12/06	100%	Checker	Design Check by Design Checker	542
	•	Sat 9/12/06	Fri 10/11/06	Fri 22/12/06	Tue 7/11/06	100%	tion	Detailed Design Preparation	541
		Tue 30/1/07	E1 40/14/06	NA SO	Tip 7/44/06	2000	ocion Poview	Detaile Decian Beview	540
		Thu 30/11/06	Th. 30/11/06	MON 27/11/06	MOD 27/11/08			DID for Drilling	500
		Thu 9/11/06	Thu 12/10/06	Mon 6/11/06	Thu 12/10/06	100%	sin Checker	Design Check by Desin Checker	537
		Mon 9/10/06	Mon 17/7/06	Mon 9/10/06	Mon 17/7/06		Preliminary Plumbing and Drainage Layouts Design P	Preliminary Plumbin	536
		Thu 30/11/06	Mon 17/7/06	Mon 27/11/06	Mon 17/7/06			Stage 2	535
		Tue 15/8/06	Tue 15/8/06	Tue 15/8/06	Tue 15/8/06	100%	design	RIP for Schemetic Design	534
		Tue 15/8/06	Tue 1/8/06	Tue 15/8/06	Tue 1/8/06	100%		RIP by PM	533
Juli Aug Sep Og	[MBY 6/6/07]	Mon 31/7/06	Wed 19/7/06	Mon 31/7/06	Wed 19/7/06	100%	sin Checker	Design Check by Desin Checker	532
And the second s	Mov	Baseline1 Finish	Baseline1 Start Ba	Actual Finish	Actual Start	% Complete		Task Name	ō

External Tasks Project Summary Baseline 1 LITTLICATION Baseline 1 Bas	Sai 17/11/07 Thu 1/3/07	Summary Split	•	Milestone	M (5121212131) W	Critical Task	8/2007	Date: Of
External Tasks Group By Summary	Sat 17/11/07 Thu 1/3/07	Summary	in caudification causes from				TOTAL COLOREST COLORES COLORES	0 100 10
	Sat 17/11/07 Thu 1/3/07			Progress	Reconstruction Property of the	Task	Project:HKCEC Expansion Project Month Polling Programme hased on master D	Project:
	Sat 17/11/07	A iue // 1/00) NA	o - I nn 1 2/10/00	0,67	10 JACO J.000000000000000000000000000000000000	Bearing for Steel I russ	548
						es/Panels for west faç	Production & Delivery of Frames/Panels for west façade	636
	Mon 21/5/07					Up Test	Visual and Performance Mock Up Test	635
	Mon 5/3/07	A Tue 9/1/07	×.	NA	0%	pproval	Shop Drawing Submission & Approval	634
	Mon 8/1/07	A Fri 1/12/06	7 NA	5 Fri 20/4/07	50%	on DDR submission)	Subletting preparation (based on DDR submission)	633
	Thu 22/11/07	A Fri 1/12/06	S N	Fri 1/12/06	3%	Works	Fabrication of Structural Steel Works	629
	Fri 1/12/06				20%	ırds	First Delivery to Fabrication Yards	628
					65%	pproval	Shop Drawing Submission & Approval	627
					65%	V CCC	Material Procurement & Delivery	626
	Thu 22/11/07	A Wed 7/6/06	NA Thu 29/6/06	Wed 7/6/06	36%	m Steel Mills	Structural Steel Works	624
	Fri 28/7/06		Fri 28/		100%	1 Pile)	Procure Materials (Pre-bored H Pile)	623
	Thu 5/10/06	6 Wed 6/9/06	6 Thu 5/10/06	Wed 6/9/06	100%		Procure Materials (Marine Pile)	622
	Thu 5/10/06	6 Thu 29/6/06	Thu 5/10/06	, Thu 29/6/06	100%		Steel Piles	621
	Mon 15/1/07				100%		Assemble Pontoon on Site	620
	Sat 30/12/06			1	100%	on Site	Commencement to assemble on Site	619
	Sat 30/12/06	_	*** ***		100%	Ÿ	Material Procurement & Delivery	618
	Tue 19/12/06	1			100%	#	Approval by Marine Department	617
	Tue 19/12/06		~		100%		Review By Marine Department	616
	Wed 15/11/06				100%	ant	Submission to Marine Departmant	615
		<	Wed 24/1	Fri 13/1	100%	•	Pontoons for Construction Works	614
	Tue 10/7/07	A Mon 19/3/07			0%	eams and Tie Beams	Pre-fabrication of Slide Beams and Tie Beams	598
MILITARY AND THE STATE OF THE S	Thu 26/4/07	A Wed 20/12/06	N _A	N _A	s 0%	Beams & Tie Beams	Procure Materials for Slide Beams & Tie Beams	597
	H	A Wed 20/12/06			0%	vy Lifting System	Procure Materials for Heavy Lifting System	596
	Wed 19/12/07				0%	orks at Phase II	RIP/DDR for A&A Works at Phase II	591
	Wed 19/12/07	A Tue 27/11/07	N	 X .	0%	sion by PM	RIP/DDR for Submission by PM	590
	Mon 26/11/07	A Tue 31/10/06	NA	NA	0%	sign Checker	Design Check by Design Checker	589
	Wed 31/10/07				%99%		Design Preparation	588
	Tue 19/12/06				50%		RIP/DDR Review	587
	Tue 19/12/06	A Wed 11/10/06		£	50%	Works at Phase II	BS - Diversion Plan for A&A Works at Phase II	586
	Thu 8/2/07	7 Thu 8/2/07	Mon 5/2/07	Mon 5/2/07	100%	orks at Phase I	RIP/DDR for A&A Works at Phase I	585
444	Thu 8/2/07	7 Thu 18/1/07	Mon 5/2/07	Mon 15/1/07	100%	sion by PM	RIP/DDR for Submission by PM	584
	Wed 17/1/07	Ť			100%	sign Checker	Design Check by Design Checker	583
	Sat 16/12/06		<u> </u>		100%		Design Preparation	582
	Thu 8/2/07		i		100%		RIP/DDR Review	581
	Thu 8/2/07			¥	100%	Works at Phase I	BS - Diversion Plan for A&A Works at Phase I	580
	Wed 27/12/06	7 Wed 27/12/06	Fri 23/3/07	Fri 23/3/07	100%	an Tunnel	RIP/DDR for Pedestrian Tunnel	579
	Wed 27/12/06	7 Mon 4/12/06	.,, '.	ည	100%	sion by PM	RIP/DDR for Submission by PM	578
200000000	Sat 2/12/06	7 Mon 6/11/06	Sat 10/3/07	Fri 2/2/07	100%	ign Checker	Design Check by Design Checker	577
	Sat 4/11/06	6 Wed 11/10/06	 &		100%		Design Preparation	576
	Wed 27/12/06	7 Wed 11/10/06	Fri 23/3/07		100%		RIP/DDR Review	575
(May Jul JAug Sep Oct	Wed 27/12/06 Apr	7 Wed 11/10/06		Wed 11/10/06	100%	strian Tunnel	BS - Diversion Plan for Pedestrian Tunnel	574
nnanatanananananananananananananananana	al Start Actual Finish Baseline1 Start Baseline1 Finish	Baseline1 Start	Actual Finish	Actual Start	% Complete		Task Name	ō

Accumentable proventional prove		•	Summary	•	ess	Milestone	Critical Task	3 Month Rolling Programme based on master P	ject:H flonth e: 6/0
According Sections of Agency (1974) 1976			Summary		Page				
Declaracy Extended Principal Color Declaracy Declara	1/ "			NA	Wed 14/3/07	37%		Demolition of Existing Artrium Link	766
Sum Demand interfactor & Paperson (1997) Supple S	/ w			Mon 26/2/07	Sat 10/2/07	100%	nder Existing Level 2 Decking	Modify & Strengthening Trusses ∪	765
Security Statement of Colonography Units 150 Production 150	107 3		•	Mon 26/2/07	Sat 10/2/07	100%	Xure	Modification of Existing Level 2 Struc	764
The processor of Charmany Schottisms 1, Agreemy (CVI) City			~	NA	Wed 21/2/07	75%	/17 & B/17 Construction (level +14	Modify Exisitng Slab for Column A	763
Descript	107		*** **	NA.	Wed 21/2/07	75%	or Column A/17 & B/17 Constru	Modification Works of Exisitng Slab I	762
Sup Damany Solement of Chemistry (1977) 1970	1/07		Sat 16/12/	Sat 3/2/07	Mon 8/1/07	100%	estern Façade Truss	Modify & Strengthening Existing W	761
Social Dississation & Approximitión (1) California (1)	107		Sat 16/12/	Sat 3/2/07	Mon 8/1/07	100%	rn Facade Truss	Modification Works of Existing West	760
South Denimal Scheriston & Approvisit(61) South Section City February South Section	1007			Sat 30/12/06	Wed 22/11/06	100%	Vall	Removal of Existing West Glass V	759
Separal Processinal Adoption (1977) 10000 10000 10000 10000 10000 10000 10000 1000	107			Sat 30/12/06	Wed 22/11/06	100%	at Atrium Link	Removal of Existing West Glass Wall	758
Board Demands Schemation & Approprii(1017)1 Province of Column Column (1017)1 Column Column (1017)1 Column Column Column (1017)1 Column Column Column (1017)1 Column (1017)1 Column Column (1017)1 Column (1017)1 Column (1017)1	307			NA	Wed 22/11/06	92%		Modification of Existing Atrium Link	757
Depart Dimental distination of Appropriati(N11) Dimental Color Dim	107		Sat 21/10/	Sat 20/1/07	Sat 21/10/06	100%	d 16/B-E	Demolition of Structure for Gri	749
Story Drawing Schimicscom & Aperican(1911) Review Training Schimicscom & Aperican(1911) Review Training Schimicscom & Aperican(1911) Review Training Schimicscom & Aperican(1911) Lower Schimics Schimicscom & Aperican(1911) Lower Schimics Schimicscom & Aperican(1911) Lower Schimics Schimicscom & Aperican(1911) Lower Schimicscom & Aperican(1911)	006			Fri 20/10/06	Sat 30/9/06	100%	mal Facade	Modification/Remove for Exte	748
Social Training Submitistion & Agroval (1011) Provided Submitistion (100 Submiti	3/06			Fri 29/9/06	Fri 11/8/06	100%	Services	Termination for Existing E&M	747
Subgit Diaming Submission & Augmonated and Diaming Submission & Augmonated and Diaming Submission & Augmonated Submission (Augmonated Submission & Augmonated Submission (Augmonated Submission & Augmonated Submission & Augmonated Submission (Augmonated Submission & Augmonated Submission & Augmonated Submission & Submiss	906			Mon 25/9/06	Fri 1/9/06	100%	eature	Remove Existing Finishes & F	746
Storing Comming Submittation & Approval(1911) Provided Storing Actional Statement (American Storing Actional Storing Actional Statement (American Storing Actional Storing	3/06			Thu 31/8/06	Wed 26/7/06	100%	/ Protective measure	Erect Weather Proof Hoarding	745
Solid Drawing Submission & Approval (971) Recursion of Approval (971) Provided Submission (Approval (971)) Approval (971) Approval (971) Approval (971) Approval (971) Approval (971) Local Colors (1700) Local Colors (1700) Approval (1700) Local Colors (1700) Local C	9990000	:	Wed 26/7/	Sat 20/1/07	Wed 26/7/06	100%	rks (GL 16/B-E)	HKCEC Phase 2 - Demolition Wo	744
Shape Dimanta Salignatian(s) & Approved(10711) Ship The 1270006 The 2270006 Med 20000 Sali 172007 Sali 172007 Ship The 2271006 Med 20000 Sali 172007 Sali 172				N _A	₹	0%	al Façade	Modification Works for Extern	743
Strong Clarening Sulmination & Approved (1011); 25% Fri 201006 100 1			Wed 7/3/	Tue 12/6/07	Sat 17/2/07	100%	Services	Termination for Existing E&M	742
Short Drawing Submission & Approved (10:11) 50% 11m (27:1006 50m) 12m (27:1006 50m) 12m (27:1007 50m) 12m (27:1006 50m) 12m (27:1007 50m) 12m (27:1006				N.A	Wed 13/6/07	30%	eature	Remove Existing Finishes & F	741
String Chaming Statismission & Approvisit(011) 2005 Fill 201000			Mon 26/2/	¥	Tue 29/5/07	60%		Erect Internal Hoarding	740
Shop Drawing Shimastan & Approval(1011) Selection Policy Selection Policy Selection Policy Selection Policy Selection Policy Selection Policy Selection Sele	107			NA	Sat 17/2/07	41%	1-16, level2) for Pedestrian diver	HKCEC Phase 2 Area (Grid A1/11	739
Sering Drawing Stitemission & Approval (1011) 12% Fig 201006 14% May 12006 140 May 120				NA.	Wed 26/7/06	58%		A & A Works to HKCEC Phase 2	738
Property				NA	NA A	0%	g Structure	Modification Works for Existin	720
Short Drawing Submission & Approval(1011) 12% Fri 201006 NA Sat 91/206 Sat 24/207 Nat Place National Approval (1011) 12% Fri 201006 NA Sat 91/206 Sat 24/207 Sat 24/20				NA	¥	0%	Services	Termination for Existing E&M	719
Beating Procurent and Delivery(2/11) 12% Fri 20/1006 1/4 1/206 1/206 1/4 1/206		_		NA	Fri 22/6/07	70%	shes & Feature	Remove Existing Internal Fini	718
Shop Drawing Submission & Approval(1011) 12% Fr 2011006 NA Sal 91/206 Sal 17/307 Sal 1				NA.	Mon 30/4/07	75%	25/A1-A)	Erect Internal Hoarding (G.L.	717
Shop Drawing Submission & Approval(1011) 12% File 2011/106 NA Thu 2311/106 Sal 91/206 Sal 91/20			Mon 7/5/	NA	Mon 30/4/07	9%	nk Connection	HK CEC Phase 1 - New Atrium L	716
Sing Diswing Submission & Approval(1011) 12% 12006 12006 10% 1201006 10% 12011006 10%	107 manufacture (10)		Mon 26/2/0	Fri 25/5/07	Wed 27/12/06	100%	escalator pits at level 10 4	Structural modification for new	715
Shop Drawing Submission & Approval(10171) 80% Full (2710)06 NA Thu (2711)06 Sat (97206) May Jul Aug Sep Oct Bearing Procument and Delivery(2711) 12% Fri (2010)06 NA Sat (97206) Sat (97207)	907		Sat 9/12/0	Fri 15/12/06	Tue 24/10/06	100%		Hoarding Erection	711
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 No. Under Prilish Approval(10/11) Jun	/07			Sat 21/10/06	Fri 6/10/06	100%		Bamboo Scaffolding Erection	710
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 22/11/06 Sat 9/12/06 NA Thu 22/11/06 Sat 9/12/06 Bearing Procument and Delivery(2/11) 12% Fri 20/10/06 NA Thu 22/11/06 Sat 9/12/06 Sat 9/12/06 Sat 9/12/06 Sat 9/12/06 Sat 17/30/7 Bearing Procument and Delivery(2/11) 12% Fri 20/10/06 NA Sat 9/12/06 Sat 9/12/06 Sat 17/30/7 I Hoarding Erection at Existing Artrunt Link 100% Wed 28/06 Fri 15/12/06 Wed 28/10/6 Sat 24/12/07 Bamboo Scaffolding Erection (Phase 1) 100% Wed 28/06 Fri 15/12/06 Wed 28/10/6 Fri 15/10/06 Fri 15/10/06 Hoarding Erection (Phase 2) 100% Fri 6/10/06 Fri 6/10/06 Fri 6/10/06 Fri 6/10/06 Fri 15/10/06 Bamboo Scaffolding Erection (Phase 2) 100% Fri 6/10/06	907		Wed 6/12/0	Fri 15/12/06	Fri 6/10/06	100%	n (Stage 3)	For GL 17/A&B Columns Constructio	709
Shop Drawing Submission & Approval(10/11) 80% Intu 12/10/06 NA Thu 29/11/06 Sat 9/12/06 NA Sat 9/12/06 Acronate Final Final Approval Final Final Approval Final Final Approval Final Final Approval Final Fina	/06		Tue 24/10/0	Tue 28/11/06	Tue 24/10/06	100%		Hoarding Erection	708
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 29/11/06 Sat 9/12/06 April 10/10/06 April 10/1	V06		Fri 6/10/0	Fri 13/10/06	Fri 6/10/06	100%		Bamboo Scaffolding Erection	707
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 22/11/06 Sat 9/12/06 Apr Image of the production of the	100	:	Fri 6/10/0	Tue 28/11/06	Fri 6/10/06	100%	ural Modification to West truss	For West Façade Removal and Struct	706
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 22/11/06 Sat 9/12/06 April 10/20/06 April 10/2	/06		Tue 24/10/0	Wed 29/11/06	Tue 24/10/06	100%		Hoarding Erection	705
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 N/A Thu 22/11/06 Sat 9/12/06 Sat 17/3/07 May Jun Jul Aug Sep Oct	V06		Fri 6/10/0	Fri 13/10/06	Fri 6/10/06	100%	se 2)	Bamboo Scaffolding Erection (Pha	704
Shop Drawing Submission & Approval(10/11) 86% Thu 12/10/06 NA Thu 23/11/06 Sat 9/12/06 Apr Ilay Jul Aug Sep Oct Shop Drawing Submission & Approval(10/11) 86% Thu 12/10/06 NA Thu 23/11/06 Sat 9/12/06 Apr Ilay Jul Aug Sep Oct Bearing Procument and Delivery(2/11) 12% Fri 20/10/06 NA Sat 9/12/06 Sat 11/3/07 Sat 11/3/07 Sat 24/22/07 S	V006		Wed 9/8/0	Fri 15/9/06	Wed 9/8/06	100%		Hoarding Erection	703
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 23/11/06 Sat 9/12/06 Sat 9/12/06 Sat 9/12/06 Sat 17/3/07 May Jun Jul Aug Sep Oct	106	٠	Wed 2/8/0	Tue 8/8/06	Wed 2/8/06	100%	se 1)	Bamboo Scaffolding Erection (Pha	702
Shop Drawing Submission & Approval(10/11) 26% Thu 12/10/06 NA Thu 22/11/06 Sat 9/12/06 Sat 9/12/06 Sat 17/3/07 May Jun Jul Aug Sep Oct	106		Wed 2/8/0	Wed 29/11/06	Wed 2/8/06	100%	ural Modification to West truss	For West Façade Removal and Struct	701
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 23/11/06 Sat 9/12/06 Sat 17/3/07 Sat 9/12/06	7007		Wed 2/8/0	Fri 15/12/06	Wed 2/8/06	100%	um Link	Internal Hoarding Erection at Existing Atri	700
Shop Drawing Submission & Approval(10/11) 80% Thu 12/10/06 NA Thu 23/11/06 Sat 9/12/06	707		Sat 9/12/0	NA	Fri 20/10/06	12%	71)	Bearing Procument and Delivery(2)	650
76 CHILDRE ACIDAL PAGE FILINI DASEINE I SIGN DASSINE I FILINI	Apr May Juli Aug Sep Oct		Thu 23/11/0	NA	Thu 12/10/06	80%	val(10/11)	Shop Drawing Submission & Appro	649
% Complete Actual Start Actual Finish Reseline 1 Start	unimaterialististelet en med emmenemen en e	t Baseline1 Finish	Baseline1 Start	Actual Finish	Actual Start	% Complete		Task Name	_

Aug See Oct.	Company Amade Manufacture Amade Manufacture Ma	Group By Summary		Split						ř
Particular National Patricular (1997) Particular National Patricular (1997) Particular National Patricular (1997) Particular (1997) Part	Section Content Cont			Summary	Surpher Difference Survey (Septiment)	ress		al Task		5202
The Content National National Services Marie Services	Part Content		Sat 1//3/07	Wed 2/19/06	FTI 4/5/0/	Wed 2//9/06	100%	3, B, C & D	Foundation Works for Grid A	1
Control District Section Secti	Content Cont		Sat 17/3/07	Wed 27/9/06	Fri 4/5/07	Wed 27/9/06	100%		Bored Piling Works	
Procession Measure Missanines No. Company Assat Maria Maria Fries Company	Transcription Transcription Company Co		Thu 15/3/07	Thu 15/3/07	Mon 30/4/07	Fri 13/4/07	100%	tructure Works	Consent for Pile Cap & St	1
Note Colored	Part		Thu 15/3/07	Mon 5/3/07	Fri 13/4/07	Mon 2/4/07	100%	Pile	Loading Test for Selected	
Procedure Comment of Statistical Section	Note Process		Sat 3/3/07	Sat 3/3/07	Mon 2/4/07	Mon 2/4/07	100%	0	Completion Report to IDC	
Procession Note Procession Sections Procession Section	Part		Sat 3/3/07	Fri 11/8/06	Mon 2/4/07	Fri 11/8/06	100%	ction (A/17, B/17, C/17 & D/17)	Prebored H Piles Constru	
Production of Laternin Glass (1985) Residency (Particulating latered (into Natural collection) Collection Colle		Thu 15/3/07	Fri 11/8/06	Mon 30/4/07	Fri 11/8/06	100%	on (A/17, B/17, C/17 & D/17)	Prebored H Piles Construction	
No.	Comment districting latern (i.e. Web Comment Paris Paris Paris Comment C		Tue 31/10/06	Tue 31/10/06	Thu 30/11/06	Fri 3/11/06	100%	tructure Works	Consent for Pile Cap & St	
Preparation Notes and substitute (1) Content Conte			Tue 31/10/06		Fri 3/11/06	Thu 19/10/06	100%	Pile	Loading Test for Selected	
Proceded Manuta Institution of Section Proceded Manuta Institution Proceded Manuta Institution of Section Proceded Manuta Institution of Section Proceded Manuta Institution P	Security Excitatory Excitatory Discuss (Next) Security (Security (Securi		Wed 18/10/06		Wed 18/10/06	Wed 18/10/06	100%	0	Completion Report to IDC	
Pre-parabit Nessarian statistical Schoraphes Schora	Schemic Sche		Wed 18/10/06		Wed 18/10/06	Fri 11/8/06	100%	action (A1/16 & A1/24, E/17)	Prebored H Piles Constru	
Pre-cuality Disting Season (Mass Visid) Pre-cuality Disting Season (Second of Estating Estation Glass Vision 1962 1966		Tue 31/10/06	Fri 11/8/06	Thu 30/11/06	Fri 11/8/06	100%	on (A1/16, A1/24 & E/17)	Prebored H Piles Construction	
Propudid Relating Statem Glast Well Internation of Exhibiting Statem (State State S	Section Existing Statem Glass Wall Section Secti		Thu 15/3/07	Fri 11/8/06	Mon 30/4/07	Fri 11/8/06	100%	reconstitution manual	Pre-bored H Piling Works	
Propriety Extension Glazer West Marie Francis Score Person Actual State	State Content of Extensing Statem Glass Vigel Section Sect		Thu 25/1/07	Thu 25/1/07	Thu 25/1/07	Thu 25/1/07	100%	(approx. 1100sqm.)	Completion of marine platform	
Montropid Education Glasse Well Montropid Education Glasse Memorial Education Glasse Memorial Education Glasse Memorial Education Glasse Memorial Education Glasse Well Montropid Montropid Montropid Education Glasse Well Montropid Mo	South Sout		Thu 25/1/07	Thu 16/11/06	Thu 25/1/07	Thu 16/11/06	100%	Erection	Temporary Working Platform E	
Scienting Existing Existing Distriction City Companied City Ci	Storage Existing Existen Class Vali		Sat 30/12/06	Sat 21/10/06	Sat 30/12/06	Sat 21/10/06	100%	6	On Site fabrication of Supports	
Scientific Scalarin Glass Viral Scientific Scalarin Scal	Supplied Easing Easing Classe No.11 Ann. Complete Auton Ann. Ann. Reging Programme Revokation of missing Programme Revokation of Missing Programme Revokation Ann. Ann		Thu 11/1/07	Wed 18/10/06	Thu 11/1/07	Wed 18/10/06	100%		On Site fabrication of Bracing	
Scientificate Scalar State Sta	Source Secretary Estation		Thu 4/1/07	Wed 27/9/06	Thu 4/1/07	Wed 27/9/06	100%	Pile no. RP32 to 39, P59 to 80,9+	Mini/Marine Pile Construction(f	
Scientific Statem Class Walt Section Section State Section Class Section State Section Secti			Thu 25/1/07	Wed 27/9/06	Thu 25/1/07	Wed 27/9/06	100%	latform (for A1 Panel Truss Ass	West Temporary Steel Working P	
			Wed 21/3/07	Wed 21/3/07	Mon 30/4/07	Fri 16/3/07	100%	(approx. 4800sqm)	Completion of marine platform	- 1
No. Composito Actual Stant Actual Fill	Manufacture		Tue 28/11/06	Tue 28/11/06	Tue 28/11/06	Tue 28/11/06	100%	ile(P49 to 58, RP20 to 30, VP28 t	Partial completion for Bored Pi	
Scorpets Adual Flat Adual	Submit S		Wed 21/3/07	Wed 8/11/06	Mon 30/4/07	Thu 2/11/06	100%	Erection	Temporary Working Platform E	
Second S	Submits Resident Glass Wall Safe Adual Slant Adual Safe Adual Slant Adua		Tue 13/3/07	Sat 28/10/06	Tue 13/3/07	Sat 28/10/06	100%	8	On Site fabrication of Supports	
Many Mary			Fri 9/3/07	Wed 25/10/06	Fri 9/3/07	Wed 25/10/06	100%		On Site fabrication of Bracing	- 1
Many Mary	3 Month Rolling Programme based of muscular Programme Rev. 1 Lipdating on 6June2007 Adual Finish Baseline Staff Baseline Finish Staff Sta	•	Wed 31/1/07	Mon 18/9/06	Wed 31/1/07	Mon 18/9/06	100%	Pile no. RP1 to 30, P1 to 58, VP2	Mini/Marine Pile Construction(f	1
May	3 Month Rolling Programme Based On-Passion 1		Wed 21/3/07	Mon 18/9/06	Mon 30/4/07	Mon 18/9/06	100%	latform (for Roof Trusses Asser	East Temporary Steel Working PI	
May Lun Jul Adua Slat Actual Sla	3 Month Rolling Programme based of Company 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Rev. 1 Updating On 6 June 2007 3 Month Rolling Programme Rev. 1 Updating Programme		Wed 6/6/07	Mon 18/9/06	NA.	Mon 18/9/06	95%	rary Working Platforms	Material Handling Facilities & Tempor	- 1
Provate Existing Eastern Glass Wall 43% Fri 4/8007 V/A Fri 4/8007 May Jun Jul Aun Aun Jul Aun	3 Month Rolling Programme Based of masser Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Based of masser Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Based of masser Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Based of masser Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Based of masser Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Rev.1 Updating on 6June2007 3 Month Rolling Programme Rev.1 Updating on 6June2007 3 Month Rolling Ro		Wed 11/3/09	Tue 27/6/06	N	Tue 27/6/06	13%	:	New Atrium Link Extension	
Scomplete Actual Start Actual Start Actual Start Baseline Start Baseline Start Baseline Start Actual Finish Actual Fin	3 Month Rolling Programme based on massier Programme Rev. 1 Updating on 6June2007 Actual Staft Baseline1 Staft Bas		Tue 7/8/07	Fri 13/7/07	NA	×	0%	2	Removal Slab From Roof to Level 2	- 1
Separation State	3 Month Rolling Programme Based on masser Programme Rev. 1 Updating on 6June2007 1 Updating on 6June2007 2 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3 Month Rolling Programme Rev. 1 Updating on 6June2007 3		Thu 12/7/07	Thu 12/7/07	N .	Z	0%		Consent for Demolition Works	1
### Precualition Measures Installation for Eastern Glass Wall ### Actual Slart ### Actual Finish ### Baseline1 Slart ### Baseline1 Slart ### Baseline1 Slart ### Baseline1 Slart ### Baseline1 Finish ### Actual Finish ### Actual Finish ### Baseline1 Slart #### Baseline1 Slart #### Baseline1 Slart #### Baseline1 Slart #### Baseline1 Slart ##### Baseline1 Slart ####### Baseline1 Slart ####################################	3 Month Rolling Programme Based On master Programme Rev. 1 Updating on 6June2007 Adual Existing Eastern Glass Wall Adual Start Adual Start Adual Start Baseline 1 Start Adual Start Adual Start Adual Start Adual Start Adual Start Baseline 1 Start Baseline 1 Start Adual Start A		Wed 11/7/07	Tue 29/5/07	Z ;	Tue 29/5/07	40%	nstaliation for Demolition Works	Propoing & Precuation Measures In	- 1
Actual Start Actual Finish Baseline1 Start Baseline1 Finish Actual F	3 Month Rolling Programme based on master Rev. 1 Updating on 6 June 2007 Jun J		Wed 11/7/07	Tue 29/5/07	Z S	Tue 29/5/07	50%	a & E&M Fixing From Roof to I ev	Removal Internal Finishes Cladding	
Actual Start Actual Finish Baselinet Finish Apr Jun Jul Aug Sep Oct	3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June 2007 3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June 2007 4 Advant Start		Tue 12/6/07	Tue 29/5/07	Z 5	Tue 29/5/07	60%	emoval Internal Finishes and Clai	Bamboo Scaffolding Erection for Re	i i
moval Existing Eastern Glass Wall 43% Fri 4/5/07 NA Fri 4/5/07 MA Fri 4/5/07 MA Fri 4/5/07 MA Fri 4/5/07 MA Fri 4/5/07 Fri 25/5/07 Fri 25/5/	3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6 June 2007 May Jun THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	Tue 19/6/07	Tue 29/5/0/	3 3	TL. 24/6/07	40%	Atrium Link	Removal Escalator Inside Existing		
Actual Start Actual Finish Baselinet Start Baselinet Start Baselinet Start Apr Jun Jul Aug Sep Oct	3 Month Rolling Programme based on master Programme Rev.1 Updating on 6June2007 May Jun J			Wed 14/3/07	Tue 5/6/07	Wed 14/3/07	100%	&M Services to New Access (bet	Diversion/Termination of Existing E	1
Actual Start Actual Finish Baselinet Start Baselinet Start Baselinet Start Apr Jun	3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6 June 2007 Month Rolling Programme based on master Programme Rev. 1 Updating on 6 June 2007 Actual Start Actual Finish Baseline 1 Start Baseline 1 Start Baseline 1 Finish Apr Jun			Wed 14/3/07	N N	Wed 14/3/07	36%		Demolition of Existing Atrium Link	
Precualition Measures Installation for Eastern Façade Removal Bamboo Scaffolding Erection Bamboo Scaffolding Erection Consent for Eastern Façade Removal O% NA NA NA NA Sat 28/5/07	3 Month Rolling Programme based on master Programme Rev.1 Updating on 6June2007 8 Complete Actual Start Actual Finish Baselinet Start Baselinet Finish April 1 May Jun Aug Sep Oct Preciation Measures Installation for Eastern Façade Removal 95% Vival 15/507 NA Fri 4/5/07 Fri 25/5/07		Mon 25/6/07	Mon 28/5/07	NA	- ₹	0%	Wall	Removal of Existing Eastern Glass	
Precuation Measures Installation for Eastern Façade Removal 85% Wed 16/5/07 NA Fri 1/5/07 Fri 25/5/07	3 Month Rolling Programme based on master Programme Rev.1 Updating on 6June2007 May Jun Aug Sep Oct		Sat 26/5/07	Sat 26/5/07	\$	\$	0%	val	Consent for Eastern Façade Remov	
moval Existing Eastern Glass Wall 43% Fri 4/5/07 NA Fri 4/5/07 Fri 25/5/07 Mon 25/6/07 Mon	3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June2007 **Month Rolling Programme based on master Programme Rev. 1 Updating on 6June2007 **Month Rolling Programme Baseline Start Bas		Fri 25/5/07	Fri 11/5/07	Z	Wed 16/5/07	85%		Bamboo Scaffolding Erection	
% Complete Actual Start Actual Finish Baselinet Start Baselinet Finish Apr May Jun Jul Aug Sep Oct	3 Month Rolling Programme based on master more Rev. 1 Updating on 6 June 2007 3 Month Rolling Programme Based on master manuer Rev. 1 Updating on 6 June 2007 4 Complete Actual Start Actual Finish Baseline 1 Start Baseline 1 Finish Apr Jun Jun Jul Aug Sep Oct		Fri 25/5/07	Fri 4/5/07	N _A	Fri 4/5/07	75%	r Eastem Façade Removal	Precuation Measures Installation for	
% Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May IIIn III Ann III	3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6 June 2007 % Complete Actual Start Baseline 1 Start	NO ASS		Fri 4/5/07	NA	Fri 4/5/07	43%	***************************************	Removal Existing Eastern Glass Wall	ŧ
	Aborith Rolling Programme based on master Programme Rev.1 Updating on 6June2007		seline1 Finish	aseline1 Start Bas	Actual Finish B	Actual Start	Complete	%	ısk Name	77

Dec			Baseline 1											
			Group By S		External Tasks Project Summan		Summary Split		ess II			Task Critical Task	IKCEC Expansion Project Rolling Programme based on master P 16/2007	Project:HI 3 Month Date: 6/06
Mathematical Math														
				1		Mon 11/6/07	Wed 2/5/07	NA.	Mon 21/5/07	11%			Column A/17	870
						Fri 5/10/07	Wed 3/10/07	¥	¥	0%		Column E/17	Bearing Installation at	869
						Tue 2/10/07	Fri 7/9/07	₹.	\$	0%		or E/17(91m3)	R.C Mega Columns fo	868
Accordance Section Control C						Fri 5/10/07	Fri 7/9/07	NA	×	0%			Column E/17	867
International	Column C					Fri 22/12/06	Wed 20/12/06	Wed 27/12/06	Fri 22/12/06	100%	- 7	Column A1/16	Bearing Installation at	866
	Section Sect					Tue 19/12/06	Fri 1/12/06	Thu 21/12/06	Mon 4/12/06	100%		or A1/16(26m3)	R.C Mega Columns fo	865
Section Sect	Marie Mari					Fri 22/12/06	Fri 1/12/06	Wed 27/12/06	Mon 4/12/06	100%	į	1	Column A1/16	864
Mathematical Control of Statistics Mathemati	Marchanes					Fri 5/10/07	Fri 1/12/06	NA	Mon 4/12/06	29%		117	Columns to Steel Truss - Grid	863
Action Control Contr						Sat 21/6/08	Thu 30/11/06	N	Thu 30/11/06	26%				862
Mark Name	According to the control (1972) Acco					Sat 3/2/07	Wed 24/1/07	Mon 26/2/07	Sat 3/2/07	100%		n(24m3)	Pile Cap Construction	861
Table Name	Per Ord A Travel Pic (1997)					Sat 3/2/07	Wed 24/1/07	Mon 26/2/07	Sat 3/2/07	100%		rid Ba/24)	Pile Cap Construction (Gr	860
Test Norm	Card A Borned Pinc (BP2) Vis. Oragon Analogo Ana					Wed 27/12/06	Fri 15/12/06	Sat 6/1/07	Wed 27/12/06	100%		1(24m3)	Pile Cap Construction	859
Control Cont	Control for the Control for			***************************************		Wed 27/12/06	Fri 15/12/06	Sat 6/1/07	Wed 27/12/06	100%		rid A1a/24)	Pile Cap Construction (Gr	858
Section Sect	Statistics Sta					Sat 3/2/07	Fri 15/12/06	Mon 26/2/07	Wed 27/12/06	100%		Grid 24	Substructure Construction - C	857
Test National Controlled	State Name			************		Sat 9/12/06	Fri 1/12/06	Sat 23/12/06	Thu 14/12/06	100%		,	Pile Cap E/17(100m3)	854
Control Notice Per Control Never Pile (BPP2) No. Complete Assert Notice Assert Notic	Seat Name			~~~~		Mon 11/12/06	Wed 1/11/06	Thu 14/12/06	Fri 27/10/06	100%		3) & A1/24(63.5m3)	Pile Cap A1/16(180m3	853
Test Norm	Section For Grid A Bored Plac (BP3) Scorphere Scorphere Section Project Scorphere Section Project Sectio					Sat 9/12/06	Wed 1/11/06	Sat 23/12/06	Fri 27/10/06	100%		1/16 & E/17)	Pile Cap Construction (A1	852
Mark Numm	Statistics Sta				and appropriate and the state of the state o	Sat 28/4/07	Wed 1/11/06	Tue 15/5/07	Fri 27/10/06	100%	***************************************	3rid 16 & 17	Substructure Construction - G	851
Table Name	Salt Nativo				\Phi	Mon 12/2/07	Mon 12/2/07	Fri 4/5/07	Fri 4/5/07	100%		rstructure Works	Consent for super	850
Tatak Name For Grid A. Bornel Pile (BP1) 5/40	Sak Name			***********		Mon 12/2/07	Tue 6/2/07	Mon 26/2/07	Fri 9/2/07	100%		Piles	Integrity Test for F	849
Teach Name	Track Name For Ord A. Board Plan (BPS) % Complete Annual Stant Local Final b. Board Final b. Bo					Mon 29/1/07	Mon 29/1/07	Fri 9/2/07	Fri 9/2/07	100%		nt to IDC	Completion Repo	848
Table Name	Tack Name For Grid A. Bored Plin (BP2) Scoraples Aborth Rolling Programme Rev. 1 Updating on 6 June 2007 May 11/106 List					Mon 29/1/07	Wed 10/1/07	Fri 9/2/07	Sat 20/1/07	100%	.5m)	struction (approx 40	Bored Piles Cons	847
Task Name Farr Orld A Bound Plite (BP2) 100% Mod 27/3006 Mod 27/3006 Mod 27/3006 Mod 27/3006 Mod 27/3006 Mod 17/3006 Mod 17/3007 Mod 1	Task Name					Sat 23/12/06	Sat 18/11/06	Tue 16/1/07	Fri 8/12/06	100%		etrenching	Stitch drill and pre	845
Task Name For Grid A Bored Plie (BP2) 100% Ved 278006 Mon 1112006 Ved 278006 Mon 1112006 Ved 278006 Ved	Task Nume			•**************************************	ne facilità del Inspirito sa	Mon 12/2/07	Sat 18/11/06	Fri 4/5/07	Fri 8/12/06	100%	!	e (BP5)	For Grid D Bored Pile	844
Task Nume	Task Name					Sat 17/3/07	Sat 17/3/07	Fri 4/5/07	Fri 16/3/07	100%		rstructure Works	Consent for super	843
Task Name	Task Name					Sat 17/3/07	Mon 12/3/07	Thu 1/3/07	Thu 22/2/07	100%		Piles	Integrity Test for F	842
Task Name	Task Name			200200000000000000000000000000000000000		Sat 3/3/07	Sat 3/3/07	Wed 21/2/07	Wed 21/2/07	100%		nt to IDC	Completion Repor	841
Task Name	Task Name			************		Sat 3/3/07	Wed 31/1/07	Fri 16/2/07	Thu 1/2/07	100%	.15m)	truction (approx. 41	Bored Piles Const	840
Task Name For Grid A Bored Plia (BP2) 100% Mon 11/1206 Mon 11/	Substitution Structure Works 100% Month 17/2006 Fri 27/1006			5950640000000	•	Tue 16/1/07	Sat 9/12/06	Wed 17/1/07	Mon 11/12/06	100%		etrenching	Stitch drill and pre	838
Task Name For Grid A Bored Pile (BP2) 100% Wed 2719/06 Mon 11112/06 Wed 2719/06 Thu 14112/06 Mon 11112/06 Mo	Task Name			MANUFACTURES.		Sat 17/3/07	Sat 9/12/06	Fri 4/5/07	Mon 11/12/06	100%		e (BP4)	For Grid C Bored Pile	837
Task Name	Task Name Same Sa			,-1-4-M112-1		Tue 23/1/07	Tue 23/1/07	Fri 16/3/07	Fri 16/3/07	100%	rks	Cap & Structure Wor	Consent for Pile C	836
Task Name For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 Mon 11/12/06 Thu 14/12/06 Th	Task Name					Tue 23/1/07	Wed 17/1/07	Sat 3/2/07	Sat 27/1/07	100%		oile	Integrity Test for F	835
Task Name For Grid A Bored Plie (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 Mon 11/12/06 Thu 14/12/06 Th	Task Name For Grid A Bored Pile (BP2) 100% Complete Actual Start Actual Finish Baseline I Start Baseline I Star					Tue 9/1/07	Tue 9/1/07	Sat 20/1/07	Sat 20/1/07	100%		to IDC	Completion Repor	834
Task Name Task	Task Name For Grid A Bored Pile (BP2) Month Tolling Programme based on master Programme Rev. 1 Updating on 6.June2007			***************************************		Tue 9/1/07	Fri 8/12/06	Sat 20/1/07	Mon 11/12/06	100%	85m)	truction (approx 44	Bored Piles Const	833
Task Name Task	Task Name Task			***************************************		Mon 27/11/06	EH 27/40/06	Set 0/15/06	Eri 27/10/06	100%		tranching	cor Grid B booked rile	3 2
Task Name Task Name Number of Grid A Bored Pile (BPZ) % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Start Apr May Jul Aug Sep Oct Siltch drill and pretronching 100% Wed 27/9/06 Wed 1/1/1/06 Wed 27/9/06 Wed 1/1/1/06 Wed 1/1/1/06 Wed 1/1/1/06 Mon 4/1/2/06 Wed 1/1/1/06 Mon 4/1/2/06 Thu 7/1/2/06 Thu 1/1/2/06	Task Name Task			***************************************		Thu 14/12/06	Thu 14/12/06	Mon 11/12/06	Mon 11/12/06	100%	<i>₹</i> 6	Cap & Structure Wor	Consent for Pile C	830
Task Name Task Name % Complete Actual Start Actual Finish Baseline 1 Start Baseline 1 Start Baseline 1 Start Apr May Jun Jul Aug Sep Oct For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 Wed 1/11/06 Mod 1/11/06 Thu 2/11/06 Thu 2/	Task Name Task			sosodin i nini		Thu 14/12/06	Fri 8/12/06	Mon 11/12/06	Tue 5/12/06	100%		ile	Integrity Test for P	829
Task Name Task Name % Complete Actual Start Actual Finish Baseline 1 Start Baseline 1 Start Apr May Jun Jul Aug Sep Oct For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 May Jun Jul Aug Sep Jot Sitich drill and pretronching 100% Wed 27/9/06	Task Name For Grid A Bored Pile (BP2) Complete Name Actual Start Name Month Rolling Programme based on master Programme Rev. 1 Updating on 6 June 2007 Jun Jul Name Jul Name Aug Isep Oct For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 We					Thu 7/12/06	Thu 7/12/06	Tue 5/12/06	Tue 5/12/06	100%		rt to IDC	Completion Repor	828
Task Name Task Name % Complete Actual Start Actual Finish Baseline I Start Baseline I Finish Apr May Jun Jul Aug Sep Oct For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 For (Grid A Bored Pile (BP2)) Jun Jun Jul Aug Sep Oct Siltch drill and pretronching 100% Wed 27/9/06 Wed 27/9/06 Wed 1/11/06 Wed 27/9/06 Wed 1/11/06 Wed 1/11/1	Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Start Actual Finish Actual Finis					Thu 7/12/06	Thu 2/11/06	Mon 4/12/06	Thu 2/11/06	100%	.85m)	truction (approx. 45.	Bored Piles Const	827
Task Name % Complete Actual Start Actual Finish Baseline1 Start Apr May Jun Jul Aug Sep Oct For Grid A Bored Pile (BP2) 100% Wed 27/9/06 Mon 11/12/06 Wed 27/9/06 Thu 14/12/06 May Jun Jul Aug Sep Oct	Task Name Complete Actual Start Actual Finish Actual Finish Baseline1 Finish Apr May Jun Jul Aug Sep Oct					Wed 1/11/06	Wed 27/9/06	Wed 1/11/06	Wed 27/9/06	100%		strenching	Stitch drill and pre	826
Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish	Expansion Project 3 Month Rolling Programme based on master Programme Rev.1 Updating on 6June2007 Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish	Sep Oct	lul	***************************************	May 6/6/0		-	<u></u>		100%		(BP2)	For Grid A Bored Pile	825
	Expansion Project 3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June2007					seline1 Finish	aseline1 Start Ba	Actual Finish Ba	Actual Start	omplete	% C		Task Name	

Substitution Subs				Project Summary		Split	*	one 🛕				Rolling Programme based on master F 5/2007	Month I ate: 6/06
According Column		Group By Summary		External Tasks		Summary		SS	Į.	(00000000000000000000000000000000000000		KCEC Expansion Project	roject:HK
	FW (A)-MADONIA-,		***************************************		381 17300	Med 70/2/01	WIGHT 10/4/O/	24/2/07	100%	Level o(040sqiri)	e Decking Stab for	ansodenia de la compositione de	71.6
			***************************************	/	0147007	Get 10/2/07	11130707	NIGHT IZZ	100%	salls of teach of Sou	V Floor I lusses/be	oeconomy	9 -
			***************************************	/	Thu 4/3/07	Cat 10/2/07	E 30/9/07	Mon 12/2/07	000	ome for level 2 /200	Elect Thropse/Doo		
				•	Wed 14/2/07	Sat 3/2/07	Wed 21/3/07	Sat 10/3/07	100%	3 (3nos)	Trusses for I evel	Main Floor	200
Action					Wed 21/3/07	Sat 3/2/07	Š	Sat 10/3/07	67%			Level 3 +21,90	909
March Marc					Fri 30/3/07	Mon 5/3/07	Wed 16/5/07	Mon 2/4/07	100%		& Starcase	R.C. Wall	908
			***************************************	\	Tue 27/2/07	Thu 8/2/07	Fri 23/3/07	Thu 8/3/07	100%	Level 2(2086sqm)	Decking Slab for t	Composite	907
According Acco			***************************************	\	Wed 21/2/07	Wed 31/1/07	Thu 29/3/07	Sat 3/3/07	100%	ams for Level 2 (82n	Floor Trusses/Bea	Secondary	906
Column C				\	Tue 30/1/07	Mon 8/1/07	Wed 21/3/07	Tue 27/2/07	100%	12 (8nos)	Trusses for Level	Main Floor	905
Section Sect			200666666		Fri 30/3/07	Mon 8/1/07	Wed 16/5/07	Tue 27/2/07	100%	:		Level 2 +14.40	904
According to project				Cartesian Cartes	Sat 21/6/08	Thu 30/11/06	NA	Thu 30/11/06	50%	ng Façade Truss	Grid A1 to Existin	Steel Structure for	903
Marie Mari			and the second s		Thu 15/3/07	Sat 23/12/06	NA.	Thu 18/1/07	90%		Truss A1(907tons)	Assembly on Steel 1	902
Accompany Column			o	\	Σ	NA	Wed 17/1/07	Wed 20/12/06	100%	oly	prication & assemb	Temp supporting fak	
Note					Sat 21/6/08	Thu 30/11/06	NA	Thu 30/11/06	55%			Panel Truss A1	
Sub-Notice Sub					Sat 21/6/08	Thu 30/11/06	Š	Thu 30/11/06	19%		erstructure	Steel Roof Trusses and Sup	9
Sub-Notines Colores for Art (1934/11) Colores for Ar		2	\	<u></u>	Sat 28/4/07	Thu 26/4/07	N	N.	0%		at Column D/24	Bearing Installation:	
Column D17 Column Size Column D17 Column Size Column D17 Column Size Column D17 Column Size Column D17 Column D17 Column Size Column D17 Column Size Column D17 Column D17 Column Size Column D17 Column D1						Tue 13/2/07	NA	Fri 11/5/07	55%		for D/24(369m3)	R.C. Mega Columns	
2.0 2.0			Service Control of the Control of th		Sat 28/4/07	Tue 13/2/07	NA	Fri 11/5/07	52%		!	Columns D/24	
Sacrity Project Proj		Ø	B		Thu 31/5/07	Tue 29/5/07	NA.	₹	0%		at Column C/24	Bearing Installation a	
Task Name R.C. Weige Columns for Art (1926m2) Complex Available Avai						Mon 19/3/07	NA NA	Wed 2/5/07	50%		for C/24(467m3)	R.C. Mega Columns	
Acad Name R. C. Maga Columns for A117656m3) St. Compass Acad Start Acad S					Thu 31/5/07	Mon 19/3/07	NA	Wed 2/5/07	47%			Columns C/24	
About Political Politica			E	•	Thu 12/4/07	Tue 10/4/07	NA	¥	0%		at Column Ba/24	Bearing Installation	
Task Name R.C. Moga Columns for A17(258m2) % Complete Auka Sinf Actual Final Seed Seed No. 146007 No. 14					Mon 9/4/07	Mon 5/2/07	Sat 26/5/07	Fri 2/3/07	100%	1)	for Ba/24 (384m3)	R.C Mega Columns	1
Task Name R.C. (Rigg) Columns to r.AT(76.58m) You Compose Acaus Start Acaus			1	And Relative to the second second second	Thu 12/4/07	Mon 5/2/07	NA	Fri 2/3/07	96%			Column Ba/24	
Task Name						Thu 22/2/07	N.	N _A	0%		at Column A1a/24	Bearing Installation	889
Table			************		Wed 21/2/07	Tue 16/1/07	Wed 4/4/07	Thu 25/1/07	100%	4 to +51.8, 300m3)	for A1a/24 (+14 4	R.C Mega Columns	888
Author Action Author Action Author Action A			00000000000000000000000000000000000000		Mon 15/1/07	Thu 28/12/06	Wed 24/1/07	Mon 8/1/07	100%	+14.4. 84m3)	for A1a/24 (+4 to	R.C Mega Columns	887
Substitution Sub				4	Sat 24/2/07	Thu 28/12/06	NA	Mon 8/1/07	96%			Column A1a/24	886
Task Name R.C. Mega Columns for A17(335m3) % Complete Adual Start Adual Finish Baselinet Start Baselinet Start Baselinet Start Baselinet Start Baselinet Start Baselinet Finish Abr Baselinet Start Baselinet Finish Abr Adual Finish Abr					Fri 22/12/06	Wed 20/12/06	Tue 9/1/07	Fri 5/1/07	100%		at Column A1/24	Bearing Installation a	<u>.</u>
Task Name R.C. Mega Columns for A/17(336m3) Month Rolling Programm based on master Programm Rev. 1 Updating on 6June20007 Lun				\	Fri 22/12/06	Tue 12/12/06	Fri 5/1/07	Thu 14/12/06	100%		for A1/24(30m3)	R.C Mega Columns	4
Task Name R.C. Mega Columns for A17(336m3) Y.C. Complete Actual Start Actual Finish Baseline1 Start Dealering Installation at Column A17 O% NA NA Fit 204407 The 128607 NA Fit 204407 The 128607 Column B177 O% NA NA Fit 204407 The 128607 The 128607 Column B177 O% NA NA Fit 204407 Fit 86607 Mon 11/6/07 Column B177 O% NA NA Fit 204407 Fit 86607 Mon 11/6/07 Column C177 O% NA NA Fit 204407 Fit 86607 Mon 11/6/07 Column B177 O% NA NA Fit 204407 Fit 86607 Mon 11/6/07 Column B177 O% NA NA Sat 9/6/07 The 12/6/07				\	Fri 22/12/06	Fri 1/12/06	Tue 9/1/07	Thu 14/12/06	100%		l	Column A1/24	
Task Name					Thu 31/5/07	Fri 1/12/06	Z	Thu 14/12/06	77%		id 24	Columns to Steel Truss - Gri	
Task Name Columns for A177(338m3) Complete Actual Start Actual Finish Baseline 1 Start Sample Start Actual Finish Baseline 1 Start Baseline 1 Start Actual Finish Actual					Mon 11/6/07	Fri 8/6/07	N	N.	0%		at Column D/17	Bearing Installation a	
Task Name R.C. Mega Columns for A17(338m3) 12% Mont Rolling Programme based on master Programme Rev. 1 Updating on 6June2007 R.C. Mega Columns for A17(338m3) 12% Mont 21/6/07 NA Roll Resemble 1 Start Rev. 1 Updating on 6June2007 R.C. Mega Column B477 0% Mont 21/6/07 NA Roll Resemble 1 Start Rev. 1 Updating on 6June2007 R.C. Mega Column B477 0% NA NA Fri 20/4/07 Tue 12/6/07 R.C. Mega Column B477 0% NA NA Fri 20/4/07 Fri 8/6/07 R.C. Mega Column B477 0% Tue 1/5/07 NA Fri 20/4/07 Tue 12/6/07 R.C. Mega Column B477 0% Tue 1/5/07 NA Fri 20/4/07 Tue 12/6/07 R.C. Mega Column B477 0% NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B477 0% NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B477 0% NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B477 0% NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B477 0% NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B478 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07 R.C. Mega Column B479 0% NA NA Roll Rev. 1 Tue 12/6/07 Tue 12/6/07			*****		Thu 7/6/07	Wed 2/5/07	NA	Wed 9/5/07	45%		for D/17(342m3)	R.C Mega Columns t	4
Task Name				1	Mon 11/6/07	Wed 2/5/07	NA	Wed 9/5/07	41%			Column D/17	
Task Name Expansion Project Expansion Pr					Tue 12/6/07	Sat 9/6/07	NA.	NA	0%		at Column C/17	Bearing Installation a	
Task Name Columns for A/17(336m3) Column B/17 O% NA NA Fri 20/4/07 Tue 1/8/07					Fri 8/6/07	Fri 20/4/07	\$	Tue 1/5/07	50%		for C/17(442m3)	R.C Mega Columns t	
Task Name Columns for A/17(335m3) Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr Iun Aug Sep Oct				1	Tue 12/6/07	Fri 20/4/07	NA.	Tue 1/5/07	47%		***************************************	Column C/17	_
Task Name R.C. Mega Columns for A/17(338m3) Name R.C. Mega Columns for B/17(398m3) O% NA NA Fri 20/4/07 Fri 8/6/07			B	/	Tue 12/6/07	Sat 9/6/07	×	X.	0%		it Column B/17	Bearing Installation a	
Task Name R.C Mega Columns for A/17(338m3) 3 Month Rolling Programme based on master Programme Bev. 1 Updating on 6June2007 Jun Jul Aug Sep Oct			4 Same	H	Fri 8/6/07	Fri 20/4/07	×.	NA	0%		or B/17(395m3)	R.C Mega Columns t	
Task Name			Ž.		Tue 12/6/07	Fri 20/4/07	NA.	8	0%		:	Column B/17	
Task Name Task Name R.C Mega Columns for A/17(338m3) 12% Mon 2/15/07 NA Wed 2/5/07 Thu 7/6/07 NA Wed 2/5/07 Thu 7/6/07					Mon 11/6/07	Fri 8/6/07	¥	¥.	0%		it Column A/17	Bearing Installation a	872
Expansion Project 3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June2007 Task Name 8 Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Baseline1 Finish Complete Actual Start Actual Finish Baseline1 Start Baseline1 Start Baseline1 Start Baseline1 Finish Baseline1	Oct				7		_	Mon 21/5/07			or A/17(338m3)		
Expansion Project 3 Month Rolling Programme based on master Programme Rev. 1 Updating on 6June2007	***************************************			***************************************	aseline1 Finish	Baseline1 Start E	Actual Finish	\ctual Start		% C		ask Name	17 G
			7	v.1 Updating on 6June200	on Project or Programme Rev	based on maste	olling Programme	3 Month R					

Company Comp	100% This 3010% This 30110% This 30110% This 30110% This 30110% This 30110% This 30110% This 3010% This 3000 This 30	Critical Tank	
Companies Comp	100%	Task	oject:HKCEC Expansion Project Month Rolling Programme based o
Authors	1006		SARA LIANG BALL MANANA - NAVOLA APPROPRIATION OF SARAGE AND SARAGE
Accordance Acc	100%	for Roof Truss A & B	984 Bracing
Accordance Acc	100%	fling of Transfer Truss & Roof Truss B	983 Final Lift
According Acco	100% Internation Interna	to Grid B	982 Sliding to
	100% Int 30/100	Jp to Grid D High Level	981 Lifting U
	100% Ima 304106 Ima 304107 Ima 304007 Ima 30400	emp Bracing between Roof Truss A & B	
Markinson	100% Int 2011/100	bly of Steel Roof Truss B on Site	979 Assembl
Authors	100%	B(963tons)	978 Roof Truss E
Note	100% Thu 290100	bly of Back Span for Steel Roof Truss A	977 Assembl
Activation Act	100% Thu 290/07 Men 390/407 Fri 23307 Fri 23407 Fri 24407 Fri 24	r Trusses from Truss A to Truss A1	976 Transfer
Table Name Control (1930) Control	100% Thu 290-00 Mon 300407 Fri 223007 Sat 195007 Sat 234007 Sat 23	for Roof Truss A & B	***************************************
	100% Ina 3011/06 Ina 3011/07 Ina 3010/07 I	to Permanent Position at Grid A	974 Sliding to
Secretary Secr	100% Ina 3011/106 Ina 3011/107	Jp to Grid C High Level	973 Lifting U
March Name No. Complete Access from	100% Thu 29J070 Mon 30J070 Fri 20J070 Fri 20J07	emp Bracing between Roof Truss A & B	972 Erect Te
Teach Marins Score Final State Congress Congr	100% Tru 29A077 Mon 304707 Fri 29307 Tru 24407 1100% Mon 30407 Fri 30307 Sat 19507 Sat 19507 Sat 19507 Tru 24407 1100% Wed 21207 Fri 30307 Fri 69307 Wed 21207 Tru 19407	ly of Steel Roof Truss A on Site	971 Assembl
Content Cont	100% Thu 29/307 Mon 30/407 Fri 23/307 Fri 23/307 Fri 23/307 Fri 20/407 Interest 100% Mon 30/407 Wed 20/507 Sat 19/507 Sat 19/507 Tue 24/407 Interest 100% Wed 21/207 Fri 23/307 Fri 23/307 Tue 24/407 Interest 100% Wed 21/207 Fri 23/307 Thu 10/507 Interest 100% Fri 16/307 Sat 21/407 Thu 10/507 Interest 100% Fri 16/307 Sat 21/407 Thu 10/507 Interest 100% Fri 11/507 Fri 23/407 Thu 24/407 Interest 100% Fri 11/507 Fri 23/407 Thu 24/407 Interest 100% Fri 11/507 Fri 23/407 Mon 28/507 Mon 28/507 Fri 11/507 Fri 18/507 Fri 11/507 Mon 28/507 Mon 28/507 Mon 28/507 Fri 11/507 Mon 28/507 Mon	A(1268tons)	970 Roof Truss A
Tablotons Lond 5 (Fine) Actor Actor Fine) Actor	100% Thu 29/17/06 Inu 30/17/06 Inu 30/17/07 Fri 29/307 Fri 29/307 Tue 24/407 Inu 21/20/07 Fri 30/307 Fri 16/307 Wed 21/20/07 Inu 15/307 In	tion to Roof Truss B	969 Connecti
Turnel Service Particular	100% Thu 29/3/07 Fri 23/3/07 Fri 20/4/07 F	tion of Roof Truss A	968 Connecti
Transition Levin 5-23-0.0 Complete Actual State Actual State Baseline State B	100% Inu 30/1706 Inu 30/1707 Inu 30/17	ly Steel Transfer Truss on Column A1a/24 & Ba/24	967 Assembl
Temporary Protestical Interestion Level 5 (2) 4.00 Main First Protesting For Tracest Polation (6) (100) 100% Fri 13407 This 28007 This 2	100% Inu 30/11/06 Inu 30/11/06 Inu 30/11/06 100% Thu 29/3/07 Mon 30/4/07 Fri 20/3/07 Fri 20/4/07 Inu 19/5/07 100% Mon 30/4/07 Wed 30/5/07 Sat 19/5/07 Sat 19/5/07 Inu 24/4/07 Inu 10/5/07 Fri 16/3/07 Fri 16/3/07 Wed 21/2/07 Fri 16/3/07 Fri 16/3/07 Wed 18/4/07 Inu 19/4/07 Inu 24/4/07 Inu 24/4/07 Inu 24/4/07 Inu 24/4/07 Inu 24/4/07 Inu 19/4/07 Inu 24/4/07	ass for Grid 24/A-B	966 Transfer Trus
Track Name Level 5 - 29-A/O Section Se	100% Inu 30/11/06 Inu 30/11/06 Inu 30/11/06 100% Thu 29/30/7 Mon 30/407 Fri 20/407 Fri 20/407 100% Mon 30/407 Wed 30/507 Sat 19/507 Sat 19/507 100% Wed 21/20/7 Fri 30/30/7 Fri 16/30/7 Wed 19/407 100% Wed 21/20/7 Thu 15/30/7 Fri 16/30/7 Wed 19/40/7 Thu 19/40/7 Thu 19/40/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Thu 10/50/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Fri 19/40/7 Thu 10/50/7 Mon 28/50/7 Mon 28/50/	Sliding Beams & Equipment From HL	965 Remove
Task Name Levil 5-23-0.0 Secondary	100% Inu 30/11/06 Inu 30/11/07 Inu 24/4/07 Inu 24/4/07 Inu 30/10/07 Inu 30/10/07 Inu 30/10/07 Inu 30/10/07 Inu 30/10/07 Inu 20/10/07 In	iting & Sliding System Installation	964 Heavy Li
Track Hame	100% Inu 30/11/06	Works for Sliding & Heavy Lifting	963 Temporary W
Track Name Level 5 1-23-40 Security From Security From	Thu 39/17/05 Thu 29/30/7 Fri 29/30/7 Fri 29/30/7 Sat 19/5/07 Sat 19/5/07 Sat 19/5/07 Sat 19/5/07 Thu 24/4/07 Thu 29/30/7 Fri 16/3/07 Fri 16/3/07 Thu 19/3/07 Thu 19/3/07 Thu 19/3/07 Thu 24/4/07 Thu 19/3/07 Thu 19/3/07 Thu 24/4/07 Thu 24/4/0	Pedestrian Routing Divert to New Access	952
Track Name	Thu 29/3/07 Mon 30/4/07 Fri 29/3/07 Sat 19/5/07 Mon 30/4/07 Fri 29/3/07 Sat 19/5/07 Mon 30/4/07 Fri 29/3/07 Sat 19/5/07 Mon 30/4/07 Fri 19/5/07 Sat 19/5/07 Tue 24/4/07	Inspection	951
Track Name	Thu 29/3/07 Mon 30/4/07 Fri 29/3/07 Fri 20/4/07 Fri 29/3/07 Sat 19/5/07 Sat 19/5/07 Wed 21/2/07 Wed 21/3/07 Fri 16/3/07 Wed 21/2/07 Wed 21/3/07 Fri 16/3/07 Wed 19/4/07 Thu 16/3/07 Thu 10/5/07	Form 501 Submission	950
Trask Name Level 5 - 28.40 Level 5 - 28.40	Thu 29/3/07 Mon 30/4/07 Fri 29/3/07 Fri 20/4/07 Had 30/17/06 Fri 20/4/07 Had 30/4/07 Fri 20/3/07 Sat 19/5/07 Sat 19/5/07 Wed 30/5/07 Fri 16/3/07 Tue 24/4/07 Had 21/2/07 Wed 21/2/07 Wed 21/3/07 Fri 16/3/07 Wed 18/4/07 Had 21/2/07 Thu 15/3/07 Fri 20/3/07 Thu 19/4/07 Had 21/2/07 Thu 19/4/07 Thu 1	Ť&C	949
Task Name Level 5 +29.40 Level 5 (-20.40) Secondary Foot Trusses for Level 5 (-70.02) Level 5 (-70	Thu 29/3/07 Mon 30/4/07 Fri 23/3/07 Fri 20/4/07 Fri 20/4/07 Fri 20/4/07 Fri 20/4/07 Sat 19/5/07 Sat 19/5/07 Wed 21/2/07 Fri 30/3/07 Fri 16/3/07 Tue 24/4/07 Wed 21/2/07 Wed 21/3/07 Fri 16/3/07 Wed 18/4/07 Fri 18	FS Installation	948
Task Name	Thu 29/3/07 Mon 30/4/07 Fri 23/3/07 Fri 20/4/07 Inu 30/1/06 Thu 29/3/07 Mon 30/4/07 Fri 23/3/07 Fri 20/4/07 Inu 2	Electrical Installation	947
Task Name	Thu 29/31/07 Mon 30/4/07 Fri 23/3/07 Mon 30/4/07 Wed 30/5/07 Sat 19/5/07	HVAC Installation	946
Task Name	Thu 29/3/07 Mon 30/4/07 Fri 23/3/07	Form 6	945
Task Name Level 5+29.40 % Complete Actual Start Actual Finish Baseline 1 Start Baseline 1 Finish Apr May Jun Jul Aug Sep	Inu 30/11/06 Inu 30/11/06 Inu 30/11/06	Disable Hydraulic Lift installation	944
Task Name	Th. 2014 1/06 Th. 2014 1/06 Th. 2014 1/06	Approval of Disable Hydraulic Lift	943
Task Name Level 5 +29.40 % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jun Jul Aug Sep Main Floor Trusses for Level 5 (7nos) 100% Thu 29/3/07 Thu 29/3/07 Tue 29/1/08 Med 28/2/07 Tue 13/3/07 Secondary Floor Trusses/Beams for Level 5 (81n 100% Fri 13/4/07 Thu 29/3/07 Wed 14/3/07 Fri 20/4/07 Wed 14/3/07 Fri 20/4/07 Med 14/3/07 Fri 20/4/07 Fri 20/4/07 Med 14/3/07 Fri 20/4/07 Fri 20/4/07 Tue 13/3/07 Tue 13/3/07 Tue 27/2/07 T	Thu 30/11/06 Wed 30/5/07 Thu 30/11/06 Sat 19/5/07	BS Installation	942
Task Name Level 5 +29.40 % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jun Jul Aug Sep	Wed 21/2/07 Mon 16/4/07 Wed 28/2/07 Thu 19/4/07	Tunnel Erection	941
Task Name Level 5 +29.40 % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jun Jul Aug Sep	100% Thu 30/11/06 Wed 30/5/07 Thu 30/11/06	nel for New Pedestrian Diversion Access	940 Tun
Task Name Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jul Aug Sep Level 5 +29.40 38% Thu 29/307 Thu 29/307 Tue 29/108 Apr May Jun Jul Aug Sep Main Floor Trusses for Level 5 (7 nos) 100% Thu 29/307 Thu 12/407 Wed 28/207 Tue 13/307 May Jun Jul Aug Sep Secondary Floor Trusses/Beams for Level 5 (81n 100% Fri 13/407 Thu 26/407 Wed 14/3/07 Fri 20/407 May Jun Jul Aug Sep Composite Decking Stab for Level 5 (1450sqm) 75% Wed 25/407 NA Thu 29/3/07 Fri 20/4/07 True 13/3/07 True 13/3/07 Temporary Pedestrian Access Platform 100% Fri 20/207 Thu 1/3/07 Thu 8/2/07 Tue 13/3/07 Tue 13/3/07 Structure for Temp. Access Platform 100% Fri 20/207 Wed 14/2/07 Thu 8/2/07 Tue 27/2/07	100% Tue 13/2/07 Thu 1/3/07 Wed 28/2/07	Cover for temp. Access Platform (at Level 3)	939
Task Name Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jul Aug Sep Level 5 +29.40 Main Floor Trusses for Level 5 (7nos) 100% Thu 29/3/07 Thu 12/4/07 Wed 28/2/07 Tue 29/1/08 1/5/6/01 Secondary Floor Trusses/Beams for Level 5 (81n 100% Fri 13/4/07 Thu 26/4/07 Wed 14/3/07 Fri 20/4/07 HTTTTTT Composite Decking Slab for Level 5 (1450sqm) 75% Wed 25/4/07 NA Thu 29/3/07 Thu 13/3/07 Thu 8/2/07 True 13/3/07 Temporary Pedestrian Access Platform 100% Fri 20/2/07 Thu 13/3/07 Thu 8/2/07 Tue 13/3/07 Tue 13/3/07	100% Fri 2/2/07 Wed 14/2/07 Thu 8/2/07	Structure for Temp. Access Platform (at Level 2)	938
Task Name Task Name Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jul Aug Sep Level 5 + 29.40 38% Thu 29/3/07 Thu 29/3/07 Tue 29/1/08 May Jun Jul Aug Sep Main Floor Trusses for Level 5 (7nos) 100% Thu 29/3/07 Thu 12/4/07 Wed 28/2/07 Tue 13/3/07 Wed 28/2/07 Wed 14/3/07 Wed 14/3/07<	Fri 2/2/07 Thu 1/3/07 Thu 8/2/07 Tue 13/3/07	nporary Pedestrian Access Platform	937 Tem
Task Name Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr May Jun Jul Aug Sep Level 5 + 29.40 38% Thu 29/3/07 NA Wed 28/2/07 Tue 29/1/08 May Jun Jul Aug Sep Main Floor Trusses for Level 5 (7nos) 100% Thu 28/3/07 Thu 12/4/07 Wed 28/2/07 Tue 13/3/07 Tue 13/3/07 Secondary Floor Trusses/Beams for Level 5 (81n 100% Fri 13/4/07 Thu 28/4/07 Wed 14/3/07 Fri 30/3/07	75% Wed 25/4/07 NA Thu 29/3/07 Fri 20/4/07	Composite Decking Slab for Level 5(1450sqm)	917
Task Name % Complete Actual Start Actual Finish Baseline I Start Beseline I Finish Apr Jun Jul Aug Sep Level 5 + 29.40 38% Thu 29/3/07 NA Wed 28/2/07 Tue 29/1/08 Main Floor Trusses for Level 5 (7nos) 100% Thu 12/4/07 Wed 28/2/07 Tue 13/3/07 Tue 13/3/07	100% Fri 13/4/07 Thu 26/4/07 Wed 14/3/07	Secondary Floor Trusses/Beams for Level 5 (81n	916
Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish Apr Jun Jul Aug Sep Level 5 + 29.40 38% Thu 29/3/07 NA Wed 28/2/07 Tue 29/1/08	Thu 29/3/07 Thu 12/4/07 Wed 28/2/07 Tue 13/3/07	Main Floor Trusses for Level 5 (7nos)	915
Task Name % Complete Actual Start Actual Finish Baseline1 Start Baseline1 Finish	Thu 29/3/07 NA Wed 28/2/07 Tue 29/1/08 Apr May Jun Jul Aug Sep		
	Actual Start Actual Finish Baseline1 Start Baseline1 Finish	9%	ID Task Name