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**REVISION NO.: 3** 

DRAINAGE SERVICES DEPARTMENT (DSD) CONTRACT NO. DC/2006/02

YUEN LONG, KAM TIN, NGAU TAM MEI AND TIN SHUI WAI DRAINAGE IMPROVEMENTS, STAGE 1, PHASE 2B – CHEUNG CHUN SAN TSUEN AND KAM TSIN WAI

KT15 - MONTHLY EM&A REPORT FOR SEPTEMBER 2008 (No. 15)

**PREPARED FOR** 

CHIT CHEUNG CONSTRUCTION COMPANY LIMITED

Quality Index			
Date	Reference No.	<b>Prepared By</b>	Certified By
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Rev. No.	Date	Remarks
1	11 Oct 2008	First Submission
2	14 Oct 2008	Response to IEC's comments received on 14 Oct 2008 via e-mail
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#### **EXECUTIVE SUMMARY**

- ES01. Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter "the Project") on 03 April 2007. According to the contract specification requirements an Environmental Monitoring & Audit program to be implemented by an Independent Environmental Team (ET) throughout the contract period.
- ES02. Under the Project Profile for Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai, Drainage Improvement Stage 1 Phase 2B – Kam Tin Secondary Drainage Channels KT14 & KT15 (Ref.: 382047/E/PP/Issue 5), KT14 & KT15 was defined as Designated Project and governed by Environmental Permit (EP-231/2005/A).
- ES03. Action-United Environmental Services and Consulting (AUES) has been commissioned by CCC to be an Independent Environmental Team (ET) to implement the EM&A program in compliance with the requirements as stated in the Environmental Permit (EP-231/2005/A) and Environmental Monitoring &Audit Manual (EM&A Manual) for Secondary Channel KT14 & KT15 (August 2005). For this Contract (DC/2006/02) only covered KT15 and KT14 will carried out under other contract.
- ES04. This Monthly EM&A Report for **September 2008** (No. 15) is present the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting month **September 2008** during the period from 26 August 2008 to 25 September 2008.

#### **BREACH OF ACTION AND LIMIT (AL) LEVELS**

ES05. Dated and parameters exceedance recorded in this reporting period are summaries in following table.

Monitoring	Parameters	Action Level	Limit Level
Air Quality	1-Hour TSP	-	-
	24-Hour TSP	-	-
Noise	Leq (30min) Daytime	-	-
	Dissolve Oxygen (DO)	-	-
	Turbidity (NTU)	-	02 Sep 08
Stream	pH	-	_
Water	Suspended Solids (SS)	-	02 Sep 08
	Ammonia Nitrogen	-	
	Zinc	-	-
Ecology	Number of species of wetland birds	-	22 Sep 08
	Total number of wetland birds	_	_

Note: According to the EM&A Manual S7.5.1(b), fauna monitoring only undertaken during wet seasons (April to July)

#### **COMPLAINTS LOG**

ES06. No environmental complaint was received in this reporting period.

#### NOTIFICATIONS OF ANY SUMMONS AND SUCCESSFUL PROSECUTIONS

ES07. There was no environmental summons or successful prosecution was recorded in this reporting period.



#### **Reporting Changes**

ES08. There are no changes to be reported in this reporting period.

#### **FUTURE KEY ISSUES**

ES09. Construction activities to be undertaken in **October 2008** included Construction and Excavation works, Stream Diversion, Tree protection and tree transplanting works, Carrying out joined survey, Utilities companies liaison, Dumping activities and Gabion installation. Potential environmental impacts for this project generally include air quality, noise, ecology, surface runoff and construction waste. The contractor shall properly implement the required environmental mitigation measures as per the Implementation Schedule in the EM&A manual to ensure no significant adverse environmental impact arises from the construction works. The contractor was reminded to maintain good house-keeping throughout the construction phase.

#### EM&A ACTIVITIES IN THE REPORTING PERIOD

ES10. A summary of the monitoring activities in this reporting period is listed below: -

15 Events

1 Event

5 Times

- 1-Hour TSP Monitoring
- 24-Hour TSP Monitoring
  Noise Monitoring
  Stream Water Quality
  5 Events
  18 Events
- Ecology (Fauna)
- Site Inspection Audit

#### AIR QUALITY

ES11. No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level was recorded in this reporting period.

#### **CONSTRUCTION NOISE**

ES12. No construction noise compliant (Action Level) was received and no construction noise monitoring exceeded the Limit Level was recorded in this reporting period.

#### STREAM WATER QUALITY

ES13. Only one exceedance for Turbidity and SS Limit Level at W9B was recorded on 02 September 2008. From the monitoring team on-site observations and the Contractor provide information, only steel fixing, formworks erection and gabion installation were undertaken. No excavation or major discharge on-site was observed during the monitoring. Desilting facilities and proper mitigation measures were implemented on-site. Therefore, exceedance on 02 September 2008 was not project related.

#### ECOLOGY (FAUNA)

ES14. Non-compliance with the ecological criteria was found during the monitoring month on 22 September 2008. No intrusions of construction activities into the wetland areas nor adverse impact was observed. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird or fauna was not caused by the project.



#### SUMMARY OF MONITORING EXCEEDANCES

ES15. A summary of monitoring exceedances during the reporting period for air quality, construction noise, stream water quality and ecology (fauna) monitoring are presented below:-

Monitoring	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air	1-Hour TSP	0	Not Required for 0% Project Related Exceedance
Quality	24-Hour TSP	0	Not Required for 0% Project Related Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Project Related Exceedance
	Dissolve Oxygen (DO)	0	Not Required for 0% Project Related Exceedance
	Turbidity (NTU)	0	Not Required for 0% Project Related Exceedance
Stream	pН	0	Not Required for 0% Project Related Exceedance
Water	Suspended Solids (SS)	0	Not Required for 0% Project Related Exceedance
	Ammonia Nitrogen	0	Not Required for 0% Project Related Exceedance
	Zinc	0	Not Required for 0% Project Related Exceedance
Ecology	Decrease in number of species of wetland birds of conservation importance from baseline.	0	Not Required for 0% Project Related Exceedance
	Decrease in the total number of wetland birds of conservation importance from baseline.	0	Not Required for 0% Project Related Exceedance

Note: According to the Project Profile Secondary Channels KT14 & KT15 Attachment 4 EM&A Manual Section 7.5.1 (b), fauna monitoring only undertaken in wet seasons (April to July) in monthly basis.

#### SITE INSPECTION BY EXTERNAL PARTIES

ES16. No site inspection was undertaken by external parties in this reporting period.



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#### **1.0 INTRODUCTION**

- 1.01 Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter "the Project") on 03 April 2007. According to the contract specification requirements the Project should implemented an Environmental Monitoring & Audit (EM&A) program by an Independent Environmental Team (ET) throughout the construction period in compliance with the requirements as stated in the project particular specification, Environmental Permit (EP-231/2005/A) and EM&A Manual for KT15. Location plan of the project site is presented in Appendix A and the construction program is presented in Appendix B.
- 1.02 The works to be executed at the propose drainage Channel KT15 mainly comprise the following:
  - Construction of about 0.8 km secondary drainage channels;
  - Construction of DSD maintenances access;
  - Provisioning and re-provisioning of pedestrian crossings;
  - Associated ancillary works; and
  - Construction of temporary vehicular access in Portion 5A1 of the site for vehicular access from Kam Sheung Road to Lot Nos. 398RP, 395 in DD106 which are adjacent to the site.
- 1.03 Action-United Environmental Services and Consulting (AUES) has been commissioned by CCC to be the Independent Environmental Team (ET) for implementation of the EM&A program in accordance with the requirements as set out in the contract particular specification, Environmental Permit (EP-231/2005/A), EM&A Manual for KT15 and the Environment Impact Assessment Ordinance (EIAO).
- 1.04 This report presents the results of the project EM&A program for the reporting month **September 2008** during the period from **26 August 2008 to 25 September 2008**.

#### **REPORT STRUCTURE**

- 1.05 The EM&A report is structured into the following sections:
  - Section 1 INTRODUCTION
  - Section 2 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS
  - Section 3 SUMMARY OF MONITORING REQUIREMENTS
  - Section 4 IMPACT MONITORING METHODOLOGY
  - Section 5 IMPACT MONITORING RESULTS
  - Section 6 WASTE MANAGEMENT
  - **Section 7 SITE INSPECTION**
  - Section 8 Environmental Complaint and Non-Compliance
  - Section 9 IMPLEMENTATION STATUS OF MITIGATION MEASURES
  - Section 10 IMPACT FORECAST
  - Section 11 CONCLUSIONS



#### 2.0 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

#### PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

2.01 The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in **Appendix C**.

#### **CONSTRUCTION PROGRESS**

- 2.02 The major construction activities undertaken in this reporting period are list below:-
  - Construction and excavation works;
  - Dumping activities;
  - Sheet pile driving;
  - Tree protection and tree transplanting works;
  - Utilities companies liaison;
  - Carrying out joined survey; and
  - Gabion Installation.

#### SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.03 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project in this reporting period is presented in **Table 2-1**.

Items	Item Description	License/Permit Status
1	Environmental Permit (EP-231/2005/A)	-
2	Air Pollution Control (Construction Dust)	Notified EPD on 09 July 2007
3	(Portion 8, Ma Fung Ling Road, long Yan San Isuen, Yuen Long)	Registration on 20 April 2007
4	Chemical Waste Producer Registration WPN:5113-533-C3434-09 (Kam Tsin Wai, Kam Tin, Yuen Long)	Registration on 20 April 2007
	Chemical Waste Producer Registration WPN:5213-424-C3431-01 (Portion 7, Birthing Area, Hoi Wan Road, Tuen Mun)	Registration on 20 April 2007
6	Water Pollution Control Ordinance (Discharge License) License No.: 1U450/1	Obtained on 20 July 2007
7	Billing Account for Disposal of Construction Waste (Account Number : 7005311)	Valid on 07 May 2007
8	Type 1 (Open Sea Disposal) Marine Dumping Permit (EP/MD/09-011)	04 Jul 2008 – 03 Jan 2009

 Table 2-1
 Status of Environmental Licenses and Permits



#### **3.0 SUMMARY OF IMPACT MONITORING REQUIREMENTS**

- 3.01 Environmental monitoring and audit requirements are set out in the EM&A Manual. Air quality, construction noise, stream water quality and ecology have been identified to be the key environmental issues during the construction phase of the project.
- 3.02 A summary of the EM&A requirements for air quality, construction noise, stream water quality and ecology monitoring are shown in Table 3-1. The designated station of the air quality, construction noise, stream water quality locations and ecology monitoring area are shown in Appendix D.

Environmental Aspect	Monitoring Parameters		Monitoring Stations
Air Quality	1-Hour and 24-Hour TS	SP	A10
Construction Noise	Leq <sub>(30min)</sub> during norma	l working hours	N10a*
	Supplementary data of	$L_{10}$ and $L_{90}$ for reference	
Stream Water Quality	In Situ Measurement	<ul> <li>Dissolved Oxygen Concentration (mg/L);</li> </ul>	W9A & W9B
		<ul> <li>Dissolved Oxygen Saturation (% Sat);</li> </ul>	
		• Turbidity (NTU);	
		• pH;	
		• Salinity (%); Water Depth (m) and	
		• Temperature (°C);	
	Laboratory Analysis • Suspended Solids (mg/L);		
		<ul> <li>Ammonia Nitrogen (mg/L); and</li> </ul>	
		<ul> <li>Zinc (μg/L).</li> </ul>	
Ecology			

 Table 3-1
 Summary of EM&A Requirements

Note: \* The noise ambient condition within the victim area without significant change. Due to the accessibility, noise monitoring will undertake at N10a. Once the access is available, the impact noise monitoring will undertake at N10.

- 3.03 Air monitoring is carried out once every six days for 24-Hour TSP and 3 times every six days for 1-Hour TSP at one designated monitoring station A10.
- 3.04 Noise monitoring is conducted once per week at one designated monitoring location (N10a). Measurements of  $Leq_{(30min)}$  shall be taken between 0700 and 1900 with supplementary  $L_{10}$  and  $L_{90}$  data will be collected for reference.
- 3.05 Stream water quality monitoring is conducted were undertaken at two locations (W9A and W9B) twice per week. Dissolved Oxygen (DO), pH and Turbidity (NTU) were measured in-situ, water depth, temperature and salinity will be collected for relevant data. Suspended Solids (SS), Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory respectively.



- Ecological monitoring is conducted in the seasonal wetland area as shown in Project 3.06 profile of KT15 Figure ATT 4-7.2). Bird survey should be conducted in monthly through the year and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted monthly in wet season (April to July inclusive) only. Photographic record should be made at six month intervals.
- 3.07 A summary of the Action/Limit (A/L) Levels for air quality, construction noise, stream water quality and ecology monitoring are shown in Tables 3-2, 3-3, 3-4 & 3-5.

Table 3-2	Action and Limit Levels for Air Quality Monitoring	
	Action Level (ug/m <sup>3</sup> )	Limit Lovel $(ug/m^3)$

Monitoring Station	Action Level (µg/m <sup>3</sup> )		Limit Level (µg/m <sup>3</sup> )	
Mointoring Station	1-Hour TSP	24-Hour TSP	1-Hour TSP	24-Hour TSP
A10	> 307	> 165	> 500	> 260

Table 3-3         Action and Limit Levels for Construction No	oise Monitoring
---------------------------------------------------------------	-----------------

Time Period	Action Level in dB(A)	Limit Level in dB(A)				
0700-1900 hrs on normal weekdays	When one or more documented complaints are received	>75* dB(A)				
Note: * Reduces to $70 dB(A)$ for schools and $65 dB(A)$ during the school examination periods						

Reduces to 70dB(A) for schools and 65dB(A) during the school examination periods

Dissolved Oxygen (mg/L)	W9A (Upstream) <sup>#</sup>	<b>W9B (Downstream)</b> < 0.3		
Action Level	NA			
Limit Level	NA	< 0.2		
Turbidity (NTU)				
Action Level	NA	> 73.5*		
Limit Level	NA	> 78.2**		
рН				
Action Level	NA	> 7.0*		
Limit Level	NA > 7.1			
Suspended Solids (mg/L)				
Action Level	NA	> 148*		
Limit Level	NA	> 159**		
Ammonia Nitrogen (mg/L)				
Action Level	NA	> 30.91*		
Limit Level	NA	> 32.20**		
Zinc (µg/L)				
Action Level	NA	> 242*		
Limit Level	NA	> 252**		

Alternative Action Level is 120% of upstream control station of same day.

Alternative Limit Level is 130% of upstream control station of same day.

Table 3-5	Action and Limit Levels for Ecology Monitoring
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Parameters	Action Level	Limit Level
Fauna: decrease in the total number of wetland dependant species or individuals of the surveyed faunal groups from baseline	20 – 40% of individuals and species	

3.08 The Event/Action Plan of air quality, construction noise, stream water quality and ecology monitoring has been implemented for this project. Details of the Event/Action Plan were presented in the Appendix E.

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### 4.0 IMPACT MONITORING METHDOLOGY

#### **MONITORING LOCATIONS**

4.01 The 1-Hour and 24-Hour TSP monitoring was carried out at one designated station A10. Impact construction noise monitoring was undertaken at the designated location N10a. Stream water quality monitoring was undertaken at two designated locations (W9A & W9B). The ecology monitoring was conducted within the wetland area in according to the EM&A Manual of KT15. The descriptions of monitoring stations are presented in Tables 4-1. The geographically location are shown in Appendix D.

# Table 4-1Location of Air Quality, Construction Noise & Stream Water Quality<br/>Monitoring Station/Locations

Air Quality Station	
A10	Village House in Tin Sam San Tsuen
<b>Construction Noise Lo</b>	cation
N10*	Village House in Tin Sam San Tsuen
N10a	Village House in Tin Sam San Tsuen
Water Quality Location	ns
$W9A^{\#}$	Tin Sam San Tsuen
W9B	Tin Sam San Tsuen

Note: \* The noise ambient condition within the victim area without significant change. Due to the accessibility, noise monitoring will undertake at N10a. Once the access is available, the impact noise monitoring will undertake at N10

# Act as control station in impact monitoring

4.02 The meteorological data during the reporting period was extracted from the Lau Fau Shan Station of the Hong Kong Observatory (HKO).

#### MONITORING FREQUENCY AND PERIOD

#### **<u>1-HOUR TSP MONITORING</u>**

4.03 The 1-Hour TSP monitoring was conducted in designated station A10 in according to the EM&A Manual three times every 6 days. Total of **15** monitoring events were carried out in this reporting period.

### **<u>24-HOUR TSP MONITORING</u>**

4.04 The 24-Hour TSP monitoring was conducted at station A10 once every six days. Total of **5** monitoring events were carried out in this reporting period.

#### NOISE MONITORING

4.05 Impact noise monitoring was undertaken at location N10a once per week. Total of **5** monitoring events were carried out in this reporting period.

### STREAM WATER QUALITY MONITORING

4.06 The stream water quality monitoring was undertaken at two locations W9A & W9B twice per week. Total of **20** monitoring events were carried out in this reporting period.



#### ECOLOGY MONITORING

4.07 Bird survey should be conducted in monthly throughout the year and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted monthly in wet season (April to July inclusive) in the seasonal wetland area. Photographic record should be made at six monthly intervals.

#### MONITORING EQUIPMENT

4.08 Monitoring equipment used by the ET in EM&A program is presented in Table 4-2.

Parameters	Equipment	Monitoring Equipment				
1-Hour TSP	Portable dust meter	Sibata LD-3 Laser Dust Meter				
24-Hour TSP	High Volume Sampler	Grasby Anderson GMWS 2310 HVS / Tisch High Volume Sampler 515N				
	Calibration Kit	TISCH Model TE-5028A				
Leq30min	Integrating Sound Level Meter (Type1) B&K Type 2238					
_	Calibrator	B&K Type 4231				
	Portable Wind Speed Indicator	Testo Anemometer				
Water Depth	Water Depth Detector	Eagle Sonar				
Temperature	Thermometer & DO Meter	YSI 85/10FT				
DO	Thermometer & DO Meter	YSI 85/10FT				
pH	pH Meter	Hanna HI 98128				
Turbidity	Turbidimeter	Hach 2100P				
Salinity	Salinometer	ATAGO refractometer				
-	Water Sampler	Teflon bailer / bucket				
-	Sample Container High density polythene bottles (provided by laborato					
-	Storage Container	'Willow' 33-litter plastic cool box				

 Table 4-2
 Monitoring Equipment Used in EM&A Program

#### **<u>24-HOUR TSP MONITORING</u>**

- 4.09 The 24-Hour TSP monitoring was carried out by a High Volume Sampler (HVS) in compliance with the USEPA Standards Title 40, Code of Federal Regulations Chapter 1 (Part 50) specifications. The HVS employed complied with the PS specifications including.
  - Power supply of 220v/50 hz for 24-Hour continuous operation;
  - 0.6-1.7 m<sup>3</sup>/min (20-60 SCFM) adjustable flow rate;
  - A 7-day mechanical timer for 24-Hour operation;
  - An elapsed time indicator with  $\pm 2$  minutes accuracy for 24-Hour operation;
  - Minimum exposed area of 63 in<sup>2</sup>;
  - Flow control accuracy of  $\pm 2.5\%$  deviation over 24-Hour operation;
  - An anodized aluminum shelter to protect the filter and sampler;
  - A motor speed-voltage control to control mass flow rate with accuracy of  $\pm 2.5\%$  deviation over 24-Hour sampling period;
  - Provision of a flow recorder for continuous monitoring;
  - Provision of a peaked roof inlet;
  - Incorporation with a manometer; and
  - An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.



4.10 The filter papers used in 24-Hour TSP monitoring were of size 8"x10" and provided by a local HOKLAS-accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The filters papers after measurements were returned to the laboratory for the required treatment and analysis.

### **<u>1-HOUR TSP MONITORING</u>**

4.11 Measurement of 1-Hour TSP monitoring was taken by Sibata LD-3 Laser Dust Meter. That is a portable and battery-operated laser photometer capable of performing real time 1-Hour TSP measurements. A comparison test with HVS was carried out prior to baseline monitoring in compliance with the EM&A requirements and a conversion factor for direct reading of the dust meter has been established.

#### WIND DATA MONITORING

4.12 The meteorological data during the reporting period was extracted from the Lau Fau Shan Station of the Hong Kong Observatory (HKO).

#### NOISE MONITORING

- 4.13 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level ( $L_{eq}$ ) measured in decibels (dB). Supplementary statistical results such as  $L_{10}$  and  $L_{90}$  were also obtained for reference.
- 4.14 Hand-held sound level meters and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications were used for taking the impact noise measurements.
- 4.15 Windshield was fitted in all measurements. All noise measurements were made with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).
- 4.16 No noise measurement was carried out in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s.

### STREAM WATER QUALITY MONITORING

#### <u>Water Depth</u>

- 4.17 Water quality monitoring will be conducted at the middle of the water columns (Mid-Depth) if the depths of the water columns at the sampling locations are less than 3 meters during monitoring. Or else, monitoring will be performed at two depths, at 1 meter from surface and bottom respectively when the water depth is less than 6m.
- 4.18 Water depths will be determined prior to measurement and sampling at W9A and W9B, using a portable battery operated depth detector, brand named 'Eagle Sonar', if the depths exceed 3 meter. For the depths well below 1 meter, an appropriate steel ruler or rope with appropriate weight will be used for the depth estimation.



#### Water Temperature

4.19 Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20°C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets.

#### Dissolved Oxygen (DO)

- 4.20 A portable YSI 85/10FT DO Meter will be used for in-situ DO measurement. The DO meter is capable of measuring DO in the range of 0 20 mg/L and 0 200 % saturation and checked against water saturated ambient air on each monitoring day prior to monitoring.
- 4.21 Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20°C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets.

<u>pH</u>

4.22 A portable Hanna pH Meter will be used for in-situ pH measurement. The pH meter is capable of measuring pH in the range of 0 - 14 and readable to 0.1. Standard buffer solutions of at least pH7 and pH10 shall be used for calibration of the instrument before and after use.

### Turbidity (NTU)

4.23 A portable Hach 2100p turbidity meter will be used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 - 1000 NTU.

### <u>Salinity</u>

4.24 A portable salinometer capable of measuring salinity in percentage (g/L) will be used for in-situ measure the salinity of stream water at each monitoring location.

#### <u>Water Sampler</u>

4.25 Water samples will be collected by the ET using a water sampler and 'PE' (Poly-Ethylene) sampling bottles provided by the laboratory. The water sampler will be rinsed before collection with the sample to be taken. Kahlsico Water Sampler will be used for sampling. One liter or 1000mL water sample will be collected from each depth for SS determination. The samples collected are stored in a cool box maintained at 4°C and delivered to ALS upon completion of the sampling by end of each sampling day. Sampling in the stream with shallow water condition, plastic bucket will be used for sample collection.

### Sample Container

4.26 Water samples will be contained in screw-cap PE (Poly-Ethylene) bottles, which will be provided and pretreated immediately prior to sampling according to HOKLAS quality requirements by ALS. The sampling bottles will be rinsed with the water to be contained. Water sample is then transferred from the sampler to the sample bottles to 95% bottle capacity to allow possible volume changes during delivery and storage.



#### <u>Sample Storage</u>

- 4.27 A 'Willow' 33-litter plastic cool box packed with ice will be used to preserve the collected water samples prior to arrival at the laboratory for SS determination. The water temperature of the cool box will be maintained at a temperature as close to 4°C as possible without being frozen. Samples collected will be delivered to the laboratory upon collection.
- 4.28 DO, water temperature, turbidity (NTU), pH, salinity and water depth were measured in-situ whereas SS, Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory (ALS).

#### **ECOLOGY MONITORING**

#### <u>Study Area</u>

4.29 The study area for the ecological monitoring programme for KT15 covers the seasonal wetland area as shown in Project Profile of KT15 Figures ATT 4-7.2.

#### Survey Method

- 4.30 Monthly monitoring was conducted by means of walk through survey, along the boundary and within the wetland areas in KT15. Any adverse impacts to the habitat, intrusions of construction activities into the wetland areas, and adverse changes in the wetlands were checked and reported if any.
- 4.31 Photographic records on the fixed photo record points selected during the baseline survey are made every six months. The photos from the construction phase ecological monitoring will be compared with those taken during the baseline which is used as the baseline conditions.
- 4.32 Bird monitoring was conducted in the study areas monthly for KT15. Survey areas in KT15 was the seasonal wetland area covered same as the Project Profile of KT15 Figures ATT 4-7.2.
- 4.33 Fauna monitoring is conducted only during the wet season (April to July inclusive for KT15) in the same survey areas for bird monitoring. For KT15, the survey frequency is monthly, and the surveys cover reptiles, amphibians, dragonflies and butterflies.

#### Equipment

4.34 Standard portable field survey equipment was used for ecological monitoring, including 1) Binoculars of 10 x 40 magnifications; 2) Digital camera; 3) Notebook; and/or 4) Butterfly net (when it is necessary to confirm identities of butterflies and dragonflies).

#### **EQUIPMENT CALIBRATION**

4.35 Initial calibration of the HVS was performed upon installation and thereafter at bi-monthly intervals in accordance with the manufacturer's instruction using the NIST-certified standard calibrator. The calibration data are properly documented and the records are maintained by ET for future reference.



- 4.36 The 1-Hour TSP meter was calibrated by the supplier prior to purchase. Zero response of the equipment is checked before and after each monitoring event. A comparison test was carried out with a HVS. A conversion factor (K) of 4.0 was generated in accordance with the equipment manufacturer's instruction. The meter counts in minutes multiplied by the conversion factor will generate the equivalent dust concentration by HVS.
- 4.37 The sound level meters are calibrated using an acoustical calibrator prior to and after measurements. The meters are regularly calibrated in accordance with the manufacturer's instructions. Prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustical calibrator generating a known sound pressure level at a known frequency. Measurements are considered valid only if the calibration levels before and after the noise measurement agree to within 1.0 dB.
- 4.38 All in-situ stream water quality monitoring instruments are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at 3 monthly intervals throughout all monitoring stages.
- 4.39 The calibration certificates of the monitoring equipment used during the impact monitoring program are attached in **Appendix F**.

#### ANALYTICAL LABORATORY

4.40 Our ET has commissioned a local HOKLAS-accredited laboratory, ALS Technichem (HK) Pty Ltd (HOKLAS No. 66) to provide analytical services for this project. ALS carried out sample and analysis control in accordance with the HOKLAS QA/QC requirements. The specified testing services provided by ALS as shown in Table 4-3.

Determinant	Standard Method	Detection Limit		
Suspended Solids	ALS Method EA025	2 mg/L		
Ammonia Nitrogen	ALS Method EK055A	0.01 mg/L		
Zinc	ALS Method EG020	10 µg/L		

Table 4-3Analytical Method applied to Water Quality Samples

4.41 The analysis of suspended solids, ammonia nitrogen and zinc concentrations were follow the APHA Standard Methods for the Examination of Water and Wastewater 19ed 2540D. ALS Environmental has comprehensive quality assurance and quality control programs and has attained HOKLAS accreditation for a range of environmental testing. For QA/QC procedures, one duplicate sample for every batch of samples was analyses as required by the HOKLAS. The QA/QC results are presented in **Appendix H**.

### DATA MANAGEMENT AND DATA QA/QC CONTROL

4.42 The impact monitoring data are handled by the ET's systematic data recording and management, which complies with in-house Quality Management System. Standard Field Data Sheets (FDS) are used in the impact monitoring program.



- 4.43 The monitoring data recorded in the equipment e.g. 1-Hour TSP meters and noise meters are downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data.
- 4.44 For monitoring activities require laboratory analysis, the local laboratory follows the QA/QC requirements as set out under the HOKLAS scheme for all laboratory testing.



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#### 5.0 IMPACT MONITORING RESULTS

5.01 The impact monitoring was carried out by the ET in compliance with the project specific EM&A Manual. The impact monitoring schedules are shown in Appendix G and the monitoring results are present in the following sub-sections.

#### AIR QUALITY

5.02 The 1-Hour and 24-Hour TSP impact monitoring data are summarized in Tables 5-1 and 5-2. Graphical plots of the past four month monitoring results are shown in Appendix H.

Monitoring Date	Start Time	1 <sup>st</sup> Result (µg/m <sup>3</sup> )	2 <sup>nd</sup> Result (µg/m <sup>3</sup> )	3 <sup>rd</sup> Result (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
29-Aug-08	09:13	21	20	22	> 307	> 500
04-Sep-08	09:10	22	20	20	> 307	> 500
10-Sep-08	09:20	61	65	66	> 307	> 500
17-Sep-08	09:21	207	210	208	> 307	> 500
23-Sep-08	09:21	153	150	151	> 307	> 500

 Table 5-1
 Summary of 1-Hour TSP Monitoring Results at A10

Bold and underline is exceed the Limit Level

	Table 5-2 Summary of 24-mout 151 Mountoring Results at A10									
Monitoring Date	Monitoring Results (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )							
30-Aug-08	13	> 165	> 260							
05-Sep-08	16	> 165	> 260							
11-Sep-08	60	> 165	> 260							
18-Sep-08	9	> 165	> 260							

> 165

Table 5-2Summary of 24-Hour TSP Monitoring Results at A10

Note: Bold and italic is exceed the Action Level.

Bold and underline is exceed the Limit Level

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- 5.03 No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level was recorded in this reporting period.
- 5.04 The meteorological data during the monitoring period are summarized in Appendix I.

#### **CONSTRUCTION NOISE**

24-Sep-08

5.05 The impact construction noise monitoring results are summarized in Table 5-3. Graphical plots of the past four month monitoring results are shown in Appendix H.

Date	Start Time	1st Leq5	2nd Leq5	3 <sup>rd</sup> Leq5	4th Leq5	5th Leq5	6 <sup>th</sup> Leq5	Leq30
29-Aug-08	11:12	48.1	50.3	47.6	48.8	51.8	49.9	49.7
04-Sep-08	09:31	47.4	44.8	46.6	45.7	47.1	45.8	46.3
10-Sep-08	09:37	43.0	45.6	44.7	42.0	44.9	43.6	44.1
17-Sep-08	11:13	48.3	49.0	48.1	49.8	46.4	51.0	49.0
23-Sep-08	09:30	47.9	46.8	45.9	47.5	48.9	46.0	47.3
Limit L	evel		-					

Table 5-3Summary of Noise Monitoring Results at N10a

Note: Bold and italic is exceed the Action Level.

5.06 No construction noise complaint (Action Level) was received and all noise level below the Limit Level in this reporting period.

#### STREAM WATER QUALITY

- 5.07 One Turbidity and SS exceeded the Limit Level at W9B on 02 September 2008 was recorded. From the monitoring team on-site observations and the Contractor provide information, only steel fixing, formworks erection and gabion installation were undertaken. No excavation or major discharge on-site was observed during the monitoring. Desilting facilities and proper mitigation measures were implemented on-site. Therefore, exceedance on 02 September 2008 was not project related.
- 5.08 The Tropical cyclone (Hagupit), heavy rainfall and thunderstorm warning at Kam Tin area was recorded on 23 September 2008, the scheduled stream water monitoring on 23 September 2008 cannot restore due to safety reason. The stream water quality monitoring was rescheduled on 24 September 2008. The updated impact monitoring schedules are shown in **Appendix G**.
- 5.09 No further stream water quality monitoring results exceeded the Action or Limit Level was recorded in this reporting period. The stream water quality monitoring results are summarized in Table 5-4 and graphical plots are presented in Appendix H.

Monitoring	DO in	n mg/L	Turbidi	ty (NTU)	р	Н	SS in	mg/L	Ammoni	ia (mg/L)	Zinc (	μg/L)
Date	W9A <sup>#</sup>	W9B	W9A <sup>#</sup>	W9B	W9A <sup>#</sup>	W9B	W9A <sup>#</sup>	W9B	W9A <sup>#</sup>	W9B	W9A <sup>#</sup>	W9B
26-Aug-08	4.1	3.8	9.8	5.5	6.8	6.8	3	<2	0.46	0.40	13	11
29-Aug-08	4.1	3.2	133.0	14.6	6.9	6.8	93	11	116.00	3.66	285	18
02-Sep-08	3.9	3.5	164.0	<u>721.0</u>	7.0	6.7	255	<u>489</u>	16.40	0.62	651	438
04-Sep-08	3.6	3.2	29.4	19.2	6.9	6.7	44	11	31.60	4.26	109	27
09-Sep-08	3.3	3.6	7.1	11.4	6.9	6.8	10	18	15.40	1.37	34	44
11-Sep-08	3.2	2.2	43.3	31.0	7.1	6.8	66	42	4.53	3.51	72	49
16-Sep-08	2.7	1.8	42.3	28.5	7.0	6.9	63	20	69.60	8.03	216	47
18-Sep-08	1.8	3.6	15.7	21.8	7.0	6.8	12	30	14.50	4.38	71	69
24-Sep-08	4.0	5.0	67.7	43.9	6.8	6.7	97	122	10.10	0.60	304	98
Action Level	-	< 0.3*	-	> 73.5*	-	> 7.0*	-	> 148*	-	> 30.91*	-	> 242*
Limit Level	-	< 0.2**	-	> 78.2**	-	> 7.1**	-	> 159**	-	> 32.20**	-	> 252**

 Table 5-4
 Summary of Stream Water Quality Results at W9A & W9B

Notes: # Act as Control Station for the Impact Water Quality Monitoring.

Bold and italic is exceed the Action Level.

Bold and underline is exceed the Limit Level

\* Alternative Action Level is 120% of upstream control station of same day.

\*\* Alternative Limit Level is 130% of upstream control station of same day.



#### ECOLOGY

- 5.10 60 individuals of birds from 17 species were recorded during the survey for the present monthly monitoring on 22 September 2008. Compared with the average abundance of 1.2 individuals from 2 species of wetland dependent birds recorded during the baseline study for the KT15 Project Profile, the species number of wetland dependent bird recorded fell within the Limit Level for the monitoring requirements for ecology (i.e. decrease in the number of species or individuals > 40% from the baseline).
- 5.11 No intrusions of construction activities into the wetland areas nor adverse impact on the wetlands was found. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.
- 5.12 From the EM&A Manual Section 7.5.1(b), fauna survey is required during wet season (i.e. April to July) and thus no fauna undertaken in this reporting period. Photographic records are scheduled in six-month intervals and last photographic records were conducted at June 2008. The next photographic records will schedule at December 2008.



#### The ecology impact monitoring results are presented in Table 5-5. 5.13

Scientific Name	Common Name	Abundance reported in the project profile	Abundance recorded in the present survey (22 Sep 08)
Birds			
Bubulcus ibis	Cattle Egret	0.4	
Ardeola bacchus	Chinese Pond Heron	0.8	2
Amaurornis phoenicurus	White-breasted Waterhen	Recorded only	
Streptopelia chinensis	Spotted Dove	Recorded only	6
Hirundo rustica	Barn Swallow	Recorded only	6
Motacilla alba	White Wagtail	Recorded only	1
Pycnonotus jocosus	Red-whiskered Bulbul	Recorded only	5
Pycnonotus sinesis	Chinese Bulbul	Recorded only	3
Lanius schach	Long-tailed Shrike	Recorded only	
Copsychus saularis	Oriental Magpie Robin	Recorded only	2
Orthotomus sutorius	Common Tailorbird	Recorded only	1
Lonchura striata	White-rumped Munia	Recorded only	
Passer montanus	Eurasian Tree Sparrow	Recorded only	9
Sturnus nigricollis	Black-collared Starling	Recorded only	2
Acridotheres cristatellus	Crested Myna	Recorded only	5
Prinia flaviventris	Yellow-bellied Prinia	\	2
Eudynamis scolopacea	Common Koel	Ň	
Halcvon smvrnensis	White-throated Kingfisher	i i	
Garrulax perspicillatus	Masked Laughingthrush	l l	4
Zosterops japonica	Japanese White Eye	i i	6
Lonchura punctulata	Scaly-breasted Munia	Ň	3
Egretta garzetta	Little Egret	i i	
Anthus hodgsoni	Olive-backed Pipit	l l	
Phylloscopus subaffinis	Dusky Warbler	Ň	
Phylloscopus inornatus	Yellow-Browed Warbler	i i	
Parus major	Great Tit	Ň	1
Prinia inornata	Plain Prinia	l l	
Sturnus sericeus	Red-billied Starling		2
Centropus bengalensis	Lesser Coucal	١	
Centropus sinensis	Greater Coucal	i i	
Species Number		15 spp. recorded, (only 2 species of wetland birds with abundance)	17 spp. (1 sp. from the wetland birds with abundance in the baseline)
Individual Number		1.2 (from the 2 species of wetland birds with abundance)	60 (2 from the wetland birds with abundance in the baseline)

#### Summary of Ecology Impact Monitoring Surveys Bird Survey Table 5-5



6.0 WASTE MANAGEMENT

6.01 The waste management was implemented by on-site Environmental Officer or Environmental Supervisor from time to time.

#### **RECORDS OF WASTE QUANTITIES**

- 6.02 All types of waste arising from the construction work are classified into the following:
  - Construction & Demolition (C&D) Material;
  - Chemical Waste;
  - General Refuse; and
  - Excavated Soil.
- 6.03 The quantities of waste for disposal in this reporting period are summarized in **Tables** 6-1 and 6-2. Whenever possible, materials were reused on-site as far as practicable.

 Table 6-1
 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Broken Concrete (Inert) (m <sup>3</sup> )	0	Public Filling
Reused in this Contract (Inert) (m <sup>3</sup> )	0	N/A
Reused in other Projects (Inert) (m <sup>3</sup> )	0	N/A
Disposal as Public Fill (Inert) (m <sup>3</sup> )	0	Tuen Mun Area 38

Type of Waste	Quantity	Disposal Location
Recycled Metal (kg)	0	NA
Recycled Paper / Cardboard Packing (kg)	0	NA
Recycled Plastic (kg)	0	NENT Landfill
Chemical Wastes (kg)	0	License Collector
General Refuses (m <sup>3</sup> )	56	NENT Landfill

6.04 The quantities of excavation soil for marine disposal in this reporting period are summarized in Table 6-3.

Table 6-3         Summary of Excavated Soil for 1	Marine Disposal
---------------------------------------------------	-----------------

Type of Waste	Quantity	Disposal Location
Type 1 Materials (m <sup>3</sup> )	0	East Sha Chau (Pitch 4a & 4b)
Type 2 Materials (m <sup>3</sup> )	0	East Sha Chau (Pitch 4c)



#### 7.0 SITE INSPECTION

- 7.01 According to the EM&A Manual Section 9.1.2, the environmental site inspection should been formulation by ET Leader. ET had carried out the environmental site inspection on 28 August, 04, 11, 17 and 24 September 2008 with the Representatives of the Engineer and the Contractor to evaluate the site environmental performance in this reporting period. The monthly IEC site audit conducted on 17 September 2008 by IEC's representative with the Engineer's, the Contractor's and ET's representative. No non-compliance and two observations were noted.
- 7.02 The details of observation during the site inspections and monthly audit as follows:-
  - Minor fugitive dust was observed during the unloading activities by an excavator atCH200. The Contractor was reminded to provide water spraying to all dusty activities; and
  - Stagnant water was observed inside the channel CH700. The Contractor was reminded to remove the stagnant water.
- 7.03 The ET site inspection checklists are shown in **Appendix J**. In general, the construction area of KT15 was kept clean and tidy.
- 7.04 No site inspection was undertaken by external parties in this reporting period.



### 8.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

8.01 No environmental complaint, summons and prosecution was received in this reporting period. Statistical summaries environmental complaint, summon and prosecution are presented in Tables 8-1, 8-2 and 8-3.

Reporting Period	Envir	onmental Complaint St	atistics
Reporting Ferrou	Frequency	Cumulative	<b>Complaint Nature</b>
July – December 2007	0	0	NA
January – August 2008	0	0	NA
September 2008	0	0	NA

#### Table 8-1 Statistical Summary of Environmental Complaints

#### Table 8-2 Statistical Summary of Environmental Summons

Reporting Period	Envir	onmental Summons Sta	atistics
hoporting i orrou	Frequency	Cumulative	Nature
July – December 2007	0	0	NA
January – August 2008	0	0	NA
September 2008	0	0	NA

#### Table 8-3 Statistical Summary of Environmental Prosecution

Reporting Period	Enviro	nmental Prosecution S	tatistics
Reporting renou	Frequency	Cumulative	Nature
July – December 2007	0	0	NA
January – August 2008	0	0	NA
September 2008	0	0	NA



#### 9.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

- 9.01 CCC has been implementing the required environmental mitigation measures according to the EM&A Manual of KT15 Mitigation Measures Implementation Schedule.
- 9.02 A summary of environmental mitigation measures generally implemented by CCC in this reporting period is presented as follows;

#### Water Quality

- Wastewater were appropriately treated by treatment facilities;
- Drainage channels were provided to convey run-off into the treatment facilities;
- Drainage systems were regularly and adequately maintained.

#### Air Quality

- Vehicles were cleaned of mud and debris before leaving the site;
- Site vehicles were limited to within 8 km/hr;
- Public roads around the site entrance/exit had been kept clean and free from dust;
- Dust suppression measures were properly provided to reduce dust emission from stockpile.

#### Noise

- Works and equipment were located to minimize noise nuisance from the nearest sensitive receiver;
- Idle equipments were either turned off or throttled down;
- Some of the Powered Mechanical Equipments were covered or shielded by appropriate acoustic materials if practicable.

#### Waste and Chemical Management

- Wastes were properly segregated into inert and non-inert in appropriate containers/areas;
- Excavated materials were reused where practicable.
- A chemical waste storage area had been provided on site;

#### General

• The site was generally kept tidy and clean.



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#### **10.0 IMPACT FORECAST**

#### KEY ISSUES FOR THE COMING MONTH

10.01 Key issues to be considered in the coming month include:

- Implementation of dust suppression measures at all times;
- Potential wastewater quality impact due to surface runoff;
- Potential fugitive dust quality impact due to dry/windy season (November to March) from the dry/loose/exposure soil surface/dusty material;
- Disposal of empty engine oil containers within site area;
- Ensure dust suppression measures are implemented properly;
- Sediment catch-pits and silt removal facilities should be regularly maintained;
- Management of chemical wastes;
- Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
- Follow-up of improvement on general waste management issues; and
- Implementation of construction noise preventative control measures.

10.02 The tentative 3-month rolling program is presented in Appendix B.



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### 11.0 CONCLUSION

11.01 The EM&A program in **September 2008** was undertaken in compliance with the EM&A Manual for KT15. A summary of environmental compliance of air, noise, stream water quality and ecology in this reporting period are presented in **Table 11-1**.

		-	— — — — — — — — — — — — — — — — — — — —
Monitoring	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air	1-Hour TSP	0	Not Required for 0% Project Related Exceedance
Quality	24-Hour TSP	0	Not Required for 0% Project Related Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Project Related Exceedance
	Dissolve Oxygen (DO)	0	Not Required for 0% Project Related Exceedance
	Turbidity (NTU)	0	Not Required for 0% Project Related Exceedance
Stream	pН	0	Not Required for 0% Project Related Exceedance
Water	Suspended Solids (SS)	0	Not Required for 0% Project Related Exceedance
	Ammonia Nitrogen	0	Not Required for 0% Project Related Exceedance
	Zinc	0	Not Required for 0% Project Related Exceedance
Ecology	Decrease in number of species of wetland birds of conservation importance from baseline.	0	Not Required for 0% Project Related Exceedance
	Decrease in the total number of wetland birds of conservation importance from baseline.	0	Not Required for 0% Project Related Exceedance

 Table 11-1
 Summary of the Exceedances for Impact Monitoring

Note: According to the EM&A Manual S7.5.1(b), fauna monitoring only undertaken during wet seasons (April to July)

- 11.02 No 1-Hour and 24-Hour TSP monitoring results trigger the Action or Limit Level was recorded in this reporting period.
- 11.03 No construction noise complaint (Action Level) was received and no monitoring noise level above the Limit Level was recorded in this reporting period.
- 11.04 One Turbidity and SS Limit Level exceedance at W9B was recorded on 02 September 2008. From the monitoring team on-site observations and the Contractor provide information, only steel fixing, formworks erection and gabion installation were undertaken. No excavation or major discharge on-site was observed during the monitoring. Desilting facilities and proper mitigation measures were implemented on-site. Therefore, exceedance on 02 September 2008 was not project related.
- 11.05 Non-compliance with the ecological criteria was found during the monitoring on 22 September 2008. No intrusions of construction activities into the wetland areas nor adverse impact was observed. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird or fauna was not caused by the project.
- 11.06 No environmental complaint, summons or prosecution was received in this reporting period.



#### RECOMMENDATIONS

- 11.07 Based on the ET regular and monthly IEC site audit inspection records on 28 August, 04, 11, 17 and 24 September 2008, no non-compliance and two observations were recorded. Details of the observations as follows:-
  - Minor fugitive dust was observed during the unloading activities by an excavator atCH200. The Contractor was reminded to provide water spraying to all dusty activities; and
  - Stagnant water was observed inside the channel CH700. The Contractor was reminded to remove the stagnant water.
- 11.08 No site inspection was undertaken by external parties in this reporting period.
- 11.09 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.

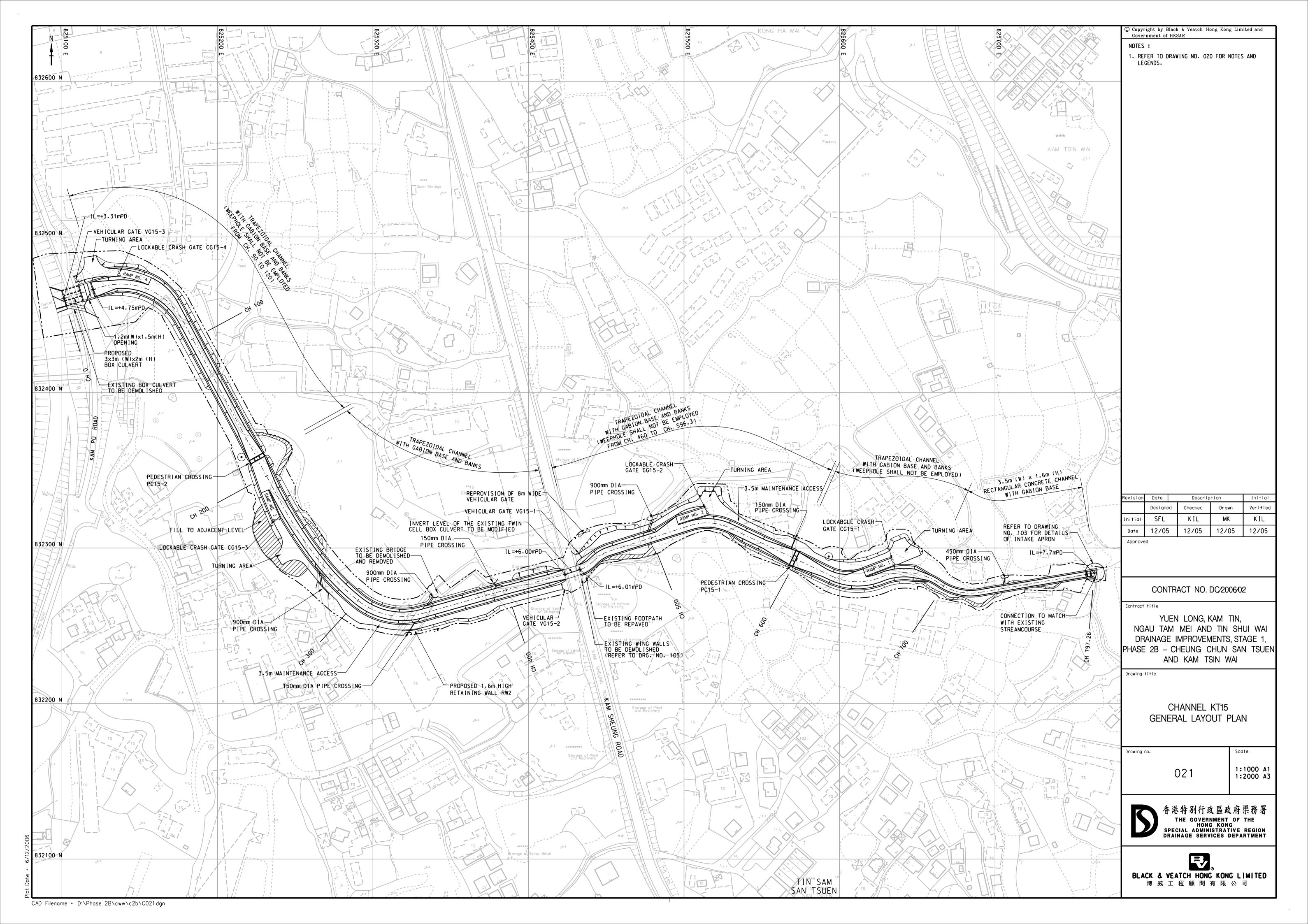


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# **APPENDIX A**

# **PROJECT SITE LAYOUT**

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# **APPENDIX B**

# **THREE-MONTH CONSTRUCTION PROGRAM**

	Stage 1, Phase 2B - Cheung Chun Sa					
	Task Name	Duration	Start	Finish	Predecessors	
_	Letter of Acceptance	1 day	Wed 21/3/07	Wed 21/3/07		Aug     Sep     Oct     Nov
2	Date for commencement of Works	1 day	Fri 30/3/07	Fri 30/3/07		
	Execution of Article of Agreement	1 day	Tue 3/4/07	Tue 3/4/07		
4	Master Programme of the Works	850 days	Wed 21/3/07	Fri 17/7/09		
6		650 days	weu 21/3/07	FII 17/7/03		
7	Completion Dates	841 days	Fri 30/3/07	Fri 17/7/09		
8		841 days	Fri 30/3/07	Fri 17/7/09		
9		841 days 740 days	Fri 30/3/07 Thu 28/6/07	Fri 17/7/09 Mon 6/7/09	255 20FS-1 day	
1		90 days			20FS-1 day	
2	Section V - preservation and protection of existing trees	841 days	Fri 30/3/07	Fri 17/7/09		
3			F 1 66 19 19	M		
4 5		200 days 1 day	Fri 30/3/07 Fri 30/3/07	Mon 15/10/07 Fri 30/3/07	2SS	
6		61 days	Fri 30/3/07	Tue 29/5/07		
7	Portion 3 - channel KT2	91 days	Fri 30/3/07	Thu 28/6/07		
8		1 day	Fri 30/3/07	Fri 30/3/07		
9		91 days	Fri 30/3/07 Fri 30/3/07	Thu 28/6/07 Thu 28/6/07		
		91 days				
1	Portion 5A2 - channel KT15 Portion 5B - channel KT15	91 days 20 days	Fri 30/3/07 Wed 26/9/07	Thu 28/6/07 Mon 15/10/07		
2		91 days	Fri 30/3/07	Thu 28/6/07		
4	Portion 6 - Temp Storage Area at Chi Ho Road	1 day	Fri 30/3/07	Fri 30/3/07		
5		1 day	Fri 30/3/07	Fri 30/3/07		
6		1 day	Fri 30/3/07	Fri 30/3/07	2SS	
7						
в 9		850 days 841 days	Wed 21/3/07 Fri 30/3/07	Fri 17/7/09 Fri 17/7/09		
		841 days 841 days	Fri 30/3/07 Fri 30/3/07	Fri 17/7/09 Fri 17/7/09		
	2.1 Establishment of Environmental Team	14 days	Fri 30/3/07	Thu 12/4/07		
		7 days		Thu 19/4/07		
	-	77 days	Fri 20/4/07	Thu 5/7/07		
1		7 days 7 days	Fri 20/4/07 Fri 27/4/07	Thu 26/4/07 Thu 3/5/07		
) }		63 days	Fri 4/5/07	Thu 5/7/07		
7	2.4 Environmental impact monitoring and audit	730 days	Thu 19/7/07	Fri 17/7/09		
8	3. Environmental Management and Environmental Management Plan	73 days	Fri 30/3/07	Sun 10/6/07		
9	3.1 Submission of draft EMP	21 days	Fri 30/3/07	Thu 19/4/07		
)		7 days		Thu 26/4/07		
1 2		45 days <b>51 days</b>	Fri 27/4/07 Fri 30/3/07	Sun 10/6/07 Sat 19/5/07		
2	-	30 days	Fri 30/3/07	Sat 19/5/07 Sat 28/4/07		
4	4.2 Equipment	51 days	Fri 30/3/07	Sat 19/5/07		
5		21 days	Fri 30/3/07	Thu 19/4/07		
6 7		45 days <b>51 days</b>	Fri 30/3/07 Fri 30/3/07	Sun 13/5/07 Sat 19/5/07		
3		14 days	Fri 30/3/07	Thu 12/4/07		
9		7 days	Fri 13/4/07	Thu 19/4/07		
)	installation	21 days	Sun 22/4/07		49,43FS-7 days	
1	testing & commissioning 4.3 utilities servicing	7 days	Sun 13/5/07 Fri 30/3/07	Sat 19/5/07 Tue 1/5/07		
2		33 days 1 day	Fri 30/3/07 Fri 30/3/07	Fri 30/3/07		
1	b. Electricity	1 day	Fri 30/3/07	Fri 30/3/07		
5	c. Telephone	33 days	Fri 30/3/07	Tue 1/5/07		
6 7		32 days	Fri 30/3/07	Mon 30/4/07		
	new service application	19 days 5 days	Fri 13/4/07 Fri 13/4/07	Tue 1/5/07 Tue 17/4/07	56SS+14 days	
, )	installation	14 days	Wed 18/4/07	Tue 1/5/07		
)	d. Facsimile	33 days	Fri 30/3/07	Tue 1/5/07		
1	temporary service	32 days	Fri 30/3/07	Mon 30/4/07		
		19 days 5 days	Fri 13/4/07 Fri 13/4/07	Tue 1/5/07	61SS+14 days	
		5 days 14 days	Wed 18/4/07	Tue 17/4/07 Tue 1/5/07		
63	installation					
62 63 64 65	e. Internet broadband	33 days	Fri 30/3/07	Tue 1/5/07		

GRAMME OF WORKS - RP13 ract No. : DC / 2006 / 02 ract Title : Yuen Long, Kam Tin, Ngau Tam Mei and	Tin Shui Wai Di	rainage Im	provements	ò,					HT CHEUNG CONSTRUCTIC DATE
Stage 1, Phase 2B - Cheung Chun San			Circle I	Des de					
Task Name		Start		Predecessors	Aug	Sep	Oct	No	עכ
new service	-	Fri 13/4/07 Fri 13/4/07	Tue 1/5/07 Tue 17/4/07	3655 114 dove					
application installation	-	/ed 18/4/07	Tue 1/5/07	•					
5. Contractor's Accommodation	-	Fri 30/3/07	Sun 13/5/07						
5.1 Provision		Fri 30/3/07	Sun 13/5/07						
a. Premises	45 days	Fri 30/3/07	Sun 13/5/07	26SS					
b. Toilet facilities	-	lon 23/4/07	Sun 13/5/07						
c. Telephone service	-	Sat 14/4/07	Sun 13/5/07						
d. Fascimile service	-	Sat 14/4/07	Sun 13/5/07						
e. Internet broadband service f. Water	-	Sat 14/4/07 Fri 30/3/07	Sun 13/5/07 7 Fri 30/3/07 2						
g. electricity		Fri 30/3/07	Fri 30/3/07						
6. Transport (land ) for the Engineer	-	Fri 30/3/07	Tue 31/7/07						
6.1 submission		Fri 30/3/07	Thu 5/4/07	2SS					
6.2 comment & approval	14 days	Fri 6/4/07	Thu 19/4/07 8	30					
6.3 delivery	103 days	Fri 20/4/07	Tue 31/7/07 8						
6.4 temp service	-	Fri 30/3/07	Tue 31/7/07	2SS,82FF					
7. Transport (land) for Public Works Regional Laboratory	-	Fri 30/3/07	Tue 31/7/07						
7.1 submission 7.2 comment, approval & instruction	-	Fri 30/3/07 Fri 6/4/07	Thu 5/4/07 2 Thu 19/4/07 8						
7.2 comment, approval & instruction 7.3 delivery	-	Fri 20/4/07	Tue 31/7/07						
8. Signboard		Fri 30/3/07	Sun 26/8/07						
8.1 Major		Fri 30/3/07	Sun 26/8/07						
submission	90 days	Fri 30/3/07	Wed 27/6/07	2SS					
comment & approval	-	Sun 29/4/07		90SS+30 days					
erection	-	Tue 29/5/07	Sun 26/8/07	91SS+30 days					
8.2 Minor	-	Fri 30/3/07	Sun 26/8/07	200					
submission comment & approval	-	Fri 30/3/07 Sun 29/4/07	Wed 27/6/07	255 94SS+30 days					
erection	-	Fue 29/5/07	Sun 26/8/07	-					
9. Telephone hotline		Sun 29/4/07	Sun 13/5/07						
9.1 Engineer's instruction	1 day S	Sun 29/4/07	Mon 30/4/07	99SF					
9.2 installation	14 days M	1on 30/4/07	Sun 13/5/07	74FF					
10. Contractual general submissions	-	/ed 21/3/07	Fri 17/7/09						
10.1 programmes		/ed 21/3/07	Tue 17/4/07						
a. GCC Clause 16 programme b. Works programme & financial programme		/ed 21/3/07	Tue 3/4/07						
b. Works programme & financial programme c. 3-month rolling programme	-	Wed 4/4/07 Wed 4/4/07	Tue 17/4/07						
10.2 contractor's superintendence	-	Fri 30/3/07	Thu 12/4/07	102					
a. Agent	-	Fri 30/3/07	Thu 5/4/07	2SS					
b. Surveyor	14 days	Fri 30/3/07	Thu 12/4/07	2SS					
c. Sub-agent	14 days	Fri 30/3/07	Thu 12/4/07						
d. Geotechnical Engineer		Fri 30/3/07	Thu 5/4/07						
e. Geotechnical Supervisor	-	Fri 30/3/07	Thu 12/4/07						
f. Foreman - concrete g. Foreman - drainage	-	Fri 30/3/07 Fri 30/3/07	Thu 12/4/07 2 Thu 12/4/07 2						
g. Foreman - drainage h. Staff Organization Plan	-	Fri 30/3/07	Thu 12/4/07 2 Thu 12/4/07 2						
10.3 Safety Organization	-	Fri 30/3/07	Thu 12/4/07						
a. Safety Officer	-	Fri 30/3/07	Thu 12/4/07	2SS					
b. Safety Supervisor	14 days	Fri 30/3/07	Thu 12/4/07						
c. Safety Representative		Fri 30/3/07	Thu 12/4/07	288					
10.4 TTMS design	-	Fri 30/3/07	Thu 5/4/07						
a. Independent Traffic Consultant b. Traffic Engineer		Fri 30/3/07	Thu 5/4/07 2 Thu 5/4/07 2						
b. Traffic Engineer 10.5 Assistant to Engineer		Fri 30/3/07 Fri 30/3/07	Tue 1/5/07	200					
a. Chainmen (4)	-	Fri 30/3/07	Tue 1/5/07	2SS					
b. Watchmen (2)	-	Fri 30/3/07	Tue 1/5/07						
c. Field assistant (1)		Fri 30/3/07	Tue 1/5/07						
d. Technical assistant (1)		Fri 30/3/07	Tue 1/5/07						
e. Clerical assistant (1)	-	Fri 30/3/07	Tue 1/5/07						
f. Office assistant (1)	-	Fri 30/3/07	Tue 1/5/07	285					
10.6 Underground service detection equipment     a. Submission	-	Fri 30/3/07	Thu 3/5/07	220					
a. Submission b. Comment & approval	-	Fri 30/3/07 Fri 6/4/07	Thu 5/4/07 2 Thu 19/4/07						
c. Provision	-	Fri 20/4/07	Thu 19/4/07						
10.7 Independent Checking of Temporary Works	-	Fri 30/3/07	Thu 26/4/07						
a. Submission of independent checking engineer	-	Fri 30/3/07	Thu 12/4/07	2SS					
b. Comment & approval	-	Fri 13/4/07	Thu 26/4/07						
10.8 Trip ticket system for C & D material	59 days	Fri 30/3/07	Sun 27/5/07						
Task		Progress		Summary	Rolled Up Critical Tas	sk Rolled Up Progress	External Tasks	Group By Summary	
t: PROGRAMME OF WORKS		FIUGIESS		Summary		Noted Up Progress	External Lasks	Group by Summary	·         •

36         37           37         38           39         40           41         41           42         43           43         44           45         46	a. Submission of site management plan b. Comment & approval	1					1	,	1	2	
	b. Comment & approval	45 days	Fri 30/3/07	Sun 13/5/07	2SS	Aug		Sep		Oct	Nov
		14 days	Mon 14/5/07	Sun 27/5/07	136	_					
) 2 3 4 5	10.9. Condition survey and structral monitoring	841 days	Fri 30/3/07	Fri 17/7/09							
1 2 3 4 5	a. Submission of Independent Structural Engineer	14 days	Fri 30/3/07	Thu 12/4/07							
2 3 4 5	<ul> <li>b. Comment &amp; approval</li> <li>c. Proposal for condition survey &amp; structural monitoring</li> </ul>	7 days 209 days	Fri 13/4/07 Fri 20/4/07	Thu 19/4/07 Wed 14/11/07	139						
4 5	Portion 1, 4, 6, 7, 8	30 days	Fri 20/4/07	Sat 19/5/07	140						
5	Portion 2	30 days	Wed 30/5/07	Thu 28/6/07	16						
	Portion 3, 5, 5A1, 5A2	30 days	Fri 29/6/07	Sat 28/7/07							
	Portion 5B	30 days	Tue 16/10/07	Wed 14/11/07	22						
46 47	d. Comment & approval Portion 1, 4, 6, 7, 8	193 days 14 days	Sun 20/5/07 Sun 20/5/07	Wed 28/11/07 Sat 2/6/07	142						
48	Portion 2	14 days	Fri 29/6/07	Thu 12/7/07							
49	Portion 3, 5, 5A1, 5A2	14 days	Sun 29/7/07	Sat 11/8/07							
50	Portion 5B	14 days	Thu 15/11/07	Wed 28/11/07	145						
51	e. Condition survey & structural monitoring	776 days	Sun 3/6/07	Fri 17/7/09							
52 53	Portion 1, 4, 6, 7, 8 Portion 2	776 days 736 days	Sun 3/6/07 Fri 13/7/07	Fri 17/7/09 Fri 17/7/09							
4	Portion 2 Portion 3, 5, 5A1, 5A2	736 days 706 days	Sun 12/8/07	Fri 17/7/09							
5	Portion 5B	597 days	Thu 29/11/07	Fri 17/7/09							
6	10.10 Handling & disposal of Type 1 & 2 contaminated material:	74 days	Sat 14/7/07	Tue 25/9/07							
7	a. Proposed type of dump truck	44 days	Sun 15/7/07	Mon 27/8/07							
8	Submission	30 days	Sun 15/7/07		757SS-44 days						
9	Comment & approval	14 days	Tue 14/8/07	Mon 27/8/07	158						
i0 i1	<ul> <li>b. Proposal of berthing area arrangement</li> <li>Submission</li> </ul>	44 days	Mon 30/7/07 Mon 30/7/07	Tue 11/9/07							
2	Comment & approval	30 days 14 days	Wed 29/8/07	Tue 28/8/07 Tue 11/9/07	161						
3	c. Proposal of disposal arrangement	74 days	Sat 14/7/07	Tue 25/9/07							
4	Submission	60 days	Sat 14/7/07	Tue 11/9/07							
5	Comment & approval	14 days	Wed 12/9/07	Tue 25/9/07	164						
6	10.11 Type 3 contaminated material	290 days	Fri 30/3/07	Sun 13/1/08							
67 68	a. Decontamination specialist Submission	134 days 120 days	Fri 30/3/07 Fri 30/3/07	Fri 10/8/07 Fri 27/7/07	285						
i9	Comment & approval	120 days	Sat 28/7/07	Fri 10/8/07							
0	b. Statement & treatment programme	42 days	Sat 11/8/07	Fri 21/9/07							
71	(1) Submission	28 days	Sat 11/8/07	Fri 7/9/07	169						
72 73	(2) Comment & approval	14 days	Sat 8/9/07	Fri 21/9/07	474						
74	by the Engineer by the EPD	14 days 14 days	Sat 8/9/07 Sat 8/9/07	Fri 21/9/07 Fri 21/9/07							
75	c. Setting up of Treatment Plant	60 days	Thu 15/11/07	Sun 13/1/08							
76	10.12 Safety Plan	35 days	Wed 21/3/07	Tue 24/4/07							
77	a. Submission of draft Safety Plan	14 days	Wed 21/3/07	Tue 3/4/07	1SS						
78	b. Comment by the Engineer	7 days	Wed 4/4/07	Tue 10/4/07							
79 30	c. Submission of Safety Plan 10.13 Sub-contractor Management Plan	14 days 850 days	Wed 11/4/07 Wed 21/3/07	Tue 24/4/07 Fri 17/7/09	1/8						
1	a. Submission of SMP	30 days	Wed 21/3/07 Wed 21/3/07	Thu 19/4/07	1SS						
32	b. For information & Comments	14 days	Fri 20/4/07	Thu 3/5/07							
33	c. Update SMP	806 days	Fri 4/5/07	Fri 17/7/09	182						
4	10.14 proof of plant ownership	841 days	Fri 30/3/07	Fri 17/7/09							
6	a. Submission of draft written undertaking	14 days	Fri 30/3/07	Thu 12/4/07							
7	<ul> <li>b. Comment by the Engineer / Employer</li> <li>c. Engineer's request</li> </ul>	14 days 813 days	Fri 13/4/07 Fri 27/4/07	Thu 26/4/07 Fri 17/7/09							
8	10.15 Contractor's Management Team	841 days	Fri 30/3/07	Fri 17/7/09							
9	a. Submission of staff member details	14 days	Fri 30/3/07	Thu 12/4/07	2SS						
2	b. Update management / site supervision team	827 days	Fri 13/4/07	Fri 17/7/09	189						
	10.16 Water supply pipeworks material	651 days	Wed 21/3/07	Tue 30/12/08							
3	a. Supplier Submission	28 days 14 days	Wed 21/3/07 Wed 21/3/07	Tue 17/4/07 Tue 3/4/07	1SS						
2 1	comment & approval	14 days	Wed 21/3/07 Wed 4/4/07	Tue 17/4/07		—					
	b. Manufacturer	28 days	Wed 21/3/07	Tue 17/4/07		—					
6	Submission	14 days	Wed 21/3/07	Tue 3/4/07							
7	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	196						
8	c. Independent Inspection Agent (IIA) Submission	28 days	Wed 21/3/07 Wed 21/3/07	Tue 17/4/07 Tue 3/4/07	155						
0	comment & approval	14 days 14 days	Wed 21/3/07 Wed 4/4/07	Tue 3/4/07 Tue 17/4/07							
01	d. Representative of the IIA	28 days	Wed 21/3/07	Tue 17/4/07							
202	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS						

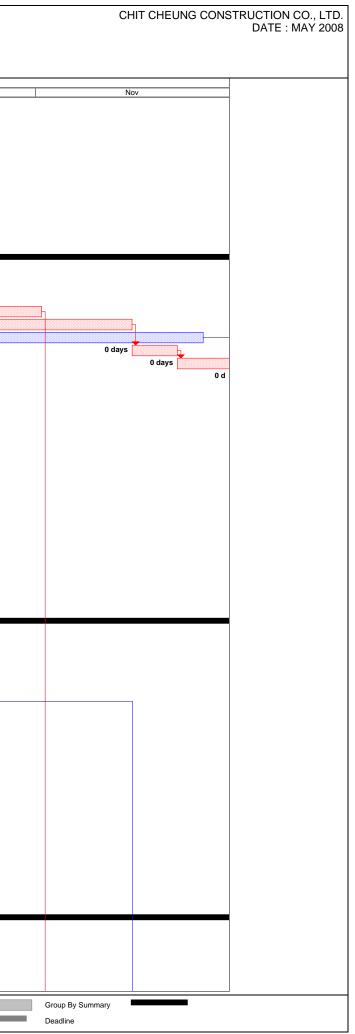
PROGRAMME OF WORKS - RP13 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

ID	Task Name	Duration	Start	Finish	Predecessors	Aug	Sep		Oct	
205	10.17 Landscape softworks and establishment works	28 days	Fri 30/3/07	Thu 26/4/07						
06	a. Submission of technical information	14 days	Fri 30/3/07	Thu 12/4/07						
207	b. Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07						
208	10.18 Preservation and protection of existing trees	59 days	Wed 21/3/07	Fri 18/5/07						
209 210	a. Specialist contractor ( landscaping Class I ) Submission	28 days	Fri 30/3/07 Fri 30/3/07	Thu 26/4/07 Thu 12/4/07						
210	Comment & approval	14 days 14 days	Fri 13/4/07	Thu 12/4/07 Thu 26/4/07						
212	b. Site supervisory staff	59 days	Wed 21/3/07	Fri 18/5/07						
213	Submission	45 days	Wed 21/3/07	Fri 4/5/07						
214	Comment & approval	14 days	Sat 5/5/07	Fri 18/5/07						
215	10.19 Concrete ( ready mix )	28 days	Fri 30/3/07	Thu 26/4/07						
216	a. Submission of supplier & design mix	21 days	Fri 30/3/07	Thu 19/4/07	2SS					
217	b. Comment & approval	7 days	Fri 20/4/07	Thu 26/4/07	216					
218	10.20 Steel reinforcement	35 days	Fri 30/3/07	Thu 3/5/07						
219	a. Submission of supplier	28 days	Fri 30/3/07	Thu 26/4/07	2SS					
220	b. Comment & approval	7 days	Fri 27/4/07	Thu 3/5/07						
221	10.21 Submissions of method statement / materials	750 days	Tue 15/5/07	Tue 2/6/09						
222	a. Submission of materials	750 days	Tue 15/5/07		15FS+45 days					
223	b. Submission of method statement	750 days	Tue 15/5/07		15FS+45 days					
224	11. Provision of wheel washing facilities	180 days	Fri 30/3/07	Tue 25/9/07						
225 226	11.1 Channel KT2 11.2 Channel KT15	120 days	Fri 30/3/07 Thu 28/6/07	Fri 27/7/07	2SS 19FS-1 day					
226	11.2 Channel K115 11.3 Berthing area	90 days 90 days	Fri 30/3/07	Wed 27/6/07						
227	11.4 Portion 6	45 days	Fri 30/3/07	Sun 13/5/07						
229	12. Setting up of traffic management liaison group	30 days	Fri 30/3/07	Sat 28/4/07						
230										
231	B. Section I of the Works	841 days	Fri 30/3/07	Fri 17/7/09						
232	B1. Portion 1	841 days	Fri 30/3/07	Fri 17/7/09						
233	1. Site clearance	30 days	Sat 28/7/07	Sun 26/8/07						
234	1.1 General site clearance	30 days	Sat 28/7/07	Sun 26/8/07	36,225,947,945					
235	2. Temporary Traffic Management Scheme	59 days	Fri 30/3/07	Sun 27/5/07						
236	2.1 TTMS Proposal (trial pits in Chi Ho Road for utilities)	59 days	Fri 30/3/07	Sun 27/5/07						
237	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07						
238	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07						
239	2.2 TTMS Proposal (for construction of box culvet)	59 days	Fri 30/3/07	Sun 27/5/07						
240	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07						
241	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07						
242	3. Excavation Permits	507 days	Mon 28/5/07	Wed 15/10/08						
243 244	<ul><li>3.1 application and issue of permit (trial pits in Chi Ho Road</li><li>3.2 application and issue of permits (for construction of</li></ul>	180 days 180 days	Mon 28/5/07 Sat 19/4/08	Fri 23/11/07 Wed 15/10/08						
	box culvert)	100 days	Sat 19/4/08	Wed 15/10/08	241					
245	4. Underground utilities detection	253 days	Fri 30/3/07	Fri 7/12/07						
246 247	4.1 utilities detection	28 days	Fri 30/3/07	Thu 26/4/07 Fri 7/12/07						
	4.2 trial trench excavtion & identification	14 days	Sat 24/11/07							
248 249	5. Utilities temporary diversion / protection a. WSD watermain along village vehicular access	<b>474 days</b> 207 days	Thu 27/9/07 Tue 17/6/08	Mon 12/1/09 Fri 9/1/09						
250	b. Street lighting along village vehicular access	207 days 207 days	Tue 17/6/08	Fri 9/1/09						
251	c. PCCW along village vehicular access	207 days 207 days	Tue 17/6/08	Fri 9/1/09						
252	d. CLP overhead cable at Bay 4	160 days	Thu 7/2/08	Tue 15/7/08				_		
253	e. CH 816~CH841 underground cables (33kV)	42 days	Thu 27/9/07	Wed 7/11/07						
254	f. CH 816~CH841 underground cables (132kV)	56 days	Thu 8/11/07	Wed 2/1/08	253					
255	g. Street lighting at Chi Ho Road	87 days	Sat 18/10/08	Mon 12/1/09	266SS,247				0 days	
256	h. Irrigation pipe at Chi Ho Road	87 days	Sat 18/10/08	Mon 12/1/09	266SS				0 days	
257	6. Drainage Management Plan (Ch810 to Ch850)	77 days	Thu 12/7/07	Wed 26/9/07						
258	6.1 Submission of DMPs	1 day	Thu 12/7/07	Thu 12/7/07						
259	6.2 Comments by the Engineer	14 days	Fri 13/7/07	Thu 26/7/07						
260	6.3 Implementation of DMP	3 days	Mon 24/9/07	Wed 26/9/07						
261	7. Box Culvert and Channel	558 days	Wed 1/8/07	Sun 8/2/09						
262 263	7.1 Box Culvert BC2-1	558 days	Wed 1/8/07	Sun 8/2/09						
263 264	a. Ch0-Ch15 (Bay 1 and Outlet) Construction of cofferdam	134 days	Sun 28/9/08 Sun 28/9/08	Sun 8/2/09 Fri 17/10/08				0 dava		
264	Remove road pavement and expose existing utiliti	20 days 2 days	Thu 16/10/08	Fri 17/10/08 Fri 17/10/08				0 days	0 days	
265	Excavation	2 days 9 days	Sat 18/10/08	Sun 26/10/08					0 days	
267	Granular Bedding	5 days	Mon 27/10/08	Fri 31/10/08						0 days
268	Base Slab	21 days	Sat 1/11/08	Fri 21/11/08		—				0 days
269	Wall and Deck	31 days	Sat 22/11/08	Mon 22/12/08						Ŭ
270	Curing	14 days	Tue 23/12/08	Mon 5/1/09		—				
270	-		Tue 6/1/09	Mon 12/1/09						
270	Trench Backfill	7 days	100 0/ 1/03	10011 12/1/00						
271	Trench Backfill Reinstatement of Chi Ho Road	7 days 13 days	Tue 13/1/09		271,255,256					
271 272	Reinstatement of Chi Ho Road			Sun 25/1/09		ary Rolled Up Cr	itical Task Rolled Up f	Progress Ext	ernal Tasks	
271 272	Reinstatement of Chi Ho Road PROGRAMME OF WORKS Task		Tue 13/1/09	Sun 25/1/09	271,255,256	ary Rolled Up Cr		5	ernal Tasks	

CHIT CHEUNG CONS	TRUCTION CO., LTD. DATE : MAY 2008
Nov	
0 days	
0 days	
Group By Summary	
Deadline	

PROGRAMME OF WORKS - RP13 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

ID	Task Name	Duration	Start	Finish	Predecessors	Aug Sep Oct
274	b. Temporary Bund in AFCD Pond	87 days	Wed 1/8/07	Fri 26/10/07		i Aug i Sep i Oct
275	1. Proposal	31 days	Wed 1/8/07	Fri 31/8/07		
276	2. Comments by the Engineer and AFCD	30 days	Sat 1/9/07	Sun 30/9/07	275	
277	3.Modified chain link fence	11 days	Mon 1/10/07	Thu 11/10/07		
278	4. Construction of temporary bund	15 days	Fri 12/10/07	Fri 26/10/07		
278	c. Ch15-Ch32 (Bays 2 & 3)	103 days	Sat 27/10/07	Wed 6/2/08		
280	Excavation	25 days	Sat 27/10/07	Tue 20/11/07	270	
280						
	Granular Bedding	7 days	Wed 21/11/07	Tue 27/11/07		
282	Base Slab	18 days	Wed 28/11/07	Sat 15/12/07		
283	Wall and Deck	32 days	Sun 16/12/07	Wed 16/1/08		
284	Curing	14 days	Thu 17/1/08	Wed 30/1/08		
285	Trench Backfill	7 days	Thu 31/1/08	Wed 6/2/08	284	
286	d. Ch32-Ch88 (Bays 4 - 8)	207 days	Tue 17/6/08	Fri 9/1/09		
287	Excavation	95 days	Tue 17/6/08	Fri 19/9/08	454,252FF+66 days	
288	Granular Bedding	80 days	Fri 27/6/08	Sun 14/9/08	287SS+10 days	
289	Base Slab (Bays 4, 5, 7 & 8)	95 days	Wed 9/7/08	Sat 11/10/08	288SS+12 days	
290	Wall and Deck (Bays 4, 5, 7 & 8)	107 days	Fri 18/7/08	Sat 1/11/08	289SS+9 days	
291	Curing	105 days	Sun 3/8/08	Sat 15/11/08	290SS+16 days	ys)
292	Trench Backfill	102 days	Sun 17/8/08	Wed 26/11/08	291SS+14 days	44 days
293	Modification of temporary support to watermain fo	7 days	Sun 16/11/08	Sat 22/11/08	291	
294	base slab (Bay 6)	10 days	Sun 23/11/08	Tue 2/12/08		
295	Wall and Deck (Bay 6)	14 days	Wed 3/12/08	Tue 16/12/08		
296	Curing (Bay 6)	14 days	Wed 17/12/08	Tue 30/12/08		
297	Backfill (Bay 6)	10 days	Wed 31/12/08		296,249FF,250FF,251FF	
297	7.2 Channel	189 days	Thu 3/1/08	Wed 9/7/08		
290	a. Ch840-Ch844 (Bay 56b)	91 days	Thu 3/1/08	Wed 9/7/08 Wed 2/4/08		
299 300			Thu 3/1/08 Thu 3/1/08	Sun 27/1/08	254	
	Excavation (including contamination materials)	25 days				
301	Granular Bedding	3 days	Mon 28/1/08	Wed 30/1/08		
302	Base Slab	22 days	Thu 31/1/08	Thu 21/2/08		
303	Wall and Deck	23 days	Fri 22/2/08	Sat 15/3/08		
304	Curing	14 days	Sun 16/3/08	Sat 29/3/08		
305	Trench Backfill	4 days	Sun 30/3/08	Wed 2/4/08		
306	b. Demolition of existing crossing	7 days	Sun 30/3/08	Sat 5/4/08	304	
307	c. Ch800-840 (Bay 56a)	95 days	Sun 6/4/08	Wed 9/7/08		
308	Excavation (including contamination materials)	8 days	Sun 6/4/08	Sun 13/4/08		
309	Granular Bedding	7 days	Mon 14/4/08	Sun 20/4/08	308	
310	Base Slab	40 days	Mon 21/4/08	Fri 30/5/08	309	
311	Wall and Deck	31 days	Sat 31/5/08	Mon 30/6/08	310	
312	Curing	26 days	Tue 10/6/08	Sat 5/7/08	311SS+10 days	
313	Trench Backfill	16 days	Tue 24/6/08	Wed 9/7/08	312SS+14 days	
314	8. Filling in Platform	292 days	Thu 3/4/08	Mon 19/1/09	· · · · · · · · · · · · · · · · · · ·	
315	8.1 Box Culvert	10 days	Sat 10/1/09	Mon 19/1/09	· · · · · · · · · · · · · · · · · · ·	
316	a. Ch0-Ch15 (Bay 1 and Outlet)	3 days	Tue 13/1/09	Thu 15/1/09	271	
317	b. Ch15-Ch88 (Bay 2 to Bay 8)	10 days	Sat 10/1/09	Mon 19/1/09		
318	8.2 Channel	118 days	Thu 3/4/08	Tue 29/7/08		
319	a. Ch840-Ch844 (Bay 56b)	5 days	Thu 3/4/08	Mon 7/4/08	305	
320	b. Ch800-840 (Bay 56a)	20 days	Thu 10/7/08	Tue 29/7/08		
321	9. Geotechnical Instrumentation for CLP Pylon	4 days	Mon 24/9/07	Thu 27/9/07	· ·	
321	10. Trial pits for watermain under existing village access	4 days 4 days	Tue 17/6/08	Fri 20/6/08	454	
323	11. Temporary support to existing watermain	21 days	Sat 21/6/08	Fri 20/6/08		
323	12. Drainage works (except Bays 56a and 56b)		Tue 20/1/09	Thu 5/3/09		
324	a. storm drain with manhole	45 days				
		30 days	Tue 20/1/09	Wed 18/2/09		
326	b. surface drain	45 days	Tue 20/1/09	Thu 5/3/09		
327	13. Water supply pipeworks	60 days	Sun 12/4/09		197,204,328	
328	14. Roads and paving (except Bays 56a and 56b)	52 days	Thu 19/2/09	Sat 11/4/09		
329	15. Diversion of traffic to permanent access from Bay 4 to B	-	Sun 12/4/09	Sun 12/4/09		
330	16. Street furnitures / traffic sign / road marking (except Bay	30 days	Thu 11/6/09	Fri 10/7/09	327	
331	17. Landscape softworks / hardworks (except Bays 56a and	37 days	Thu 11/6/09	Fri 17/7/09	316,317,327	
		_				
332	18. Road Diversion in Chi Ho Road	8 days	Wed 8/10/08	Wed 15/10/08		
333	a. Construction of temporary footpath above Box Culvert	7 days	Wed 8/10/08	Tue 14/10/08		0 days
334	b. Implementation of footpath diversion	1 day	Wed 15/10/08	Wed 15/10/08	333	0 days
335						
336	B2. Portion 2	841 days	Fri 30/3/07	Fri 17/7/09		
337	1. Site clearance	90 days	Tue 14/8/07	Sun 11/11/07		1
338	1.1 General clearance	90 days	Tue 14/8/07	Sun 11/11/07	36,951,225,953	
339	2. Underground utilities detection	42 days	Tue 3/7/07	Mon 13/8/07		
340	2.1 utilities detection	28 days	Tue 3/7/07	Mon 30/7/07		
341	2.2 trial trench excavtion & identification	14 days	Tue 31/7/07	Mon 13/8/07	340	
	I	· ·			l	
	: PROGRAMME OF WORKS Task		Progr	ess	Summary	Rolled Up Critical Task Rolled Up Progress External Tasks
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### PROGRAMME OF WORKS - RP13

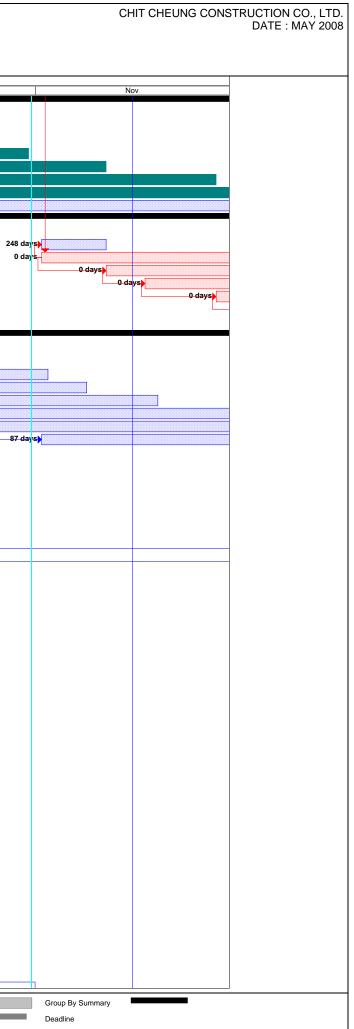
ontra	ct Title : Yuen Long, Kam Tin, Ngau Tam Mei and Ti	n Shui Wa	ai Drainage Ir	nnrovemente								
	Stage 1, Phase 2B - Cheung Chun San Tsu	ien and K	am Tsin Wai	ipiovements,								
Та	sk Name	Duration	Start	Finish Predecessors	Aug	Sep		Oct		1	Nov	
	a. WSD water main along village vehicular access	90 days	Wed 10/10/07	Mon 7/1/08 359SS								
	b. Street lighting along village vehicular access c. PCCW along village vehicular access	269 days 245 days	Wed 10/10/07 Wed 10/10/07	Fri 4/7/08 359SS Tue 10/6/08 359SS								
+	d. CLP overhead cables / street lighting at CH 290 ~ CH 35	90 days	Fri 30/3/07	Wed 27/6/07								
1	4. Geotechnical Instrumentation for AFCD	6 days	Thu 27/9/07	Tue 2/10/07								
	5. Discussion with Pond Owner	39 days	Wed 1/8/07	Sat 8/9/07								
	6. Box Culvert, Channel and Crossings a. Ch88-Ch120 (Bays 9 - 11)	504 days 83 days	Sun 9/9/07 Fri 29/2/08	Sat 24/1/09 Wed 21/5/08	_							
	Excavation	21 days	Fri 29/2/08	Thu 20/3/08 321,347,364								
	Granular Bedding	15 days	Mon 10/3/08	Mon 24/3/08 351SS+10 days								
3	Base Slab	15 days	Sun 16/3/08	Sun 30/3/08 352SS+6 days								
4 5	Wall and Deck	22 days	Sun 23/3/08	Sun 13/4/08 353SS+7 days								
3	Curing Trench Backfill	25 days 35 days	Thu 3/4/08 Thu 17/4/08	Sun 27/4/08 354SS+11 days Wed 21/5/08 355SS+14 days								
7	b. Ch120-Ch205 (Bay 12 - Bay 17)	159 days	Sun 23/9/07	Thu 28/2/08								
	Haul access	16 days	Sun 23/9/07	Mon 8/10/07 366								
)	Excavation	46 days	Wed 10/10/07	Sat 24/11/07 347,341,358								
	Granular Bedding Base Slab	43 days 50 days	Sat 20/10/07 Fri 26/10/07	Sat 1/12/07 359SS+10 days Fri 14/12/07 360SS+6 days	_							
+-	Wall and Deck	53 days	Tue 6/11/07	Fri 28/12/07 361SS+11 days								
3	Curing	53 days	Tue 13/11/07	Fri 4/1/08 362SS+7 days								
F	Trench Backfill	46 days	Mon 14/1/08	Thu 28/2/08 363SS+62 days,343FF								
5	c. Ch205-Ch310 (Bay 18 - Bay 24) Haul access	93 days 14 days	Sun 9/9/07 Sun 9/9/07	Mon 10/12/07 Sat 22/9/07 348								
,	Excavation	27 days	Sun 23/9/07	Fri 19/10/07 346,366								
3	Granular Bedding	23 days	Wed 3/10/07	Thu 25/10/07 367SS+10 days,366								
	Base Slab	39 days	Tue 9/10/07	Fri 16/11/07 368SS+6 days								
	Wall and Deck	42 days	Sat 20/10/07	Fri 30/11/07 369SS+11 days Fri 7/12/07 370SS+7 days								
-	Curing Trench Backfill	42 days 31 days	Sat 27/10/07 Sat 10/11/07	Mon 10/12/07 371SS+14 days								
3	d. Ch310-Ch375 (Bay 25 - Bay 27)	273 days	Sun 23/9/07	Sat 21/6/08								
4	Haul access	15 days	Sun 23/9/07	Sun 7/10/07 366								
5	Excavation	52 days	Tue 11/12/07	Thu 31/1/08 374,372								
6 7	Granular Bedding Base Slab	85 days 78 days	Fri 1/2/08 Sat 1/3/08	Fri 25/4/08 375 Sat 17/5/08 376SS+29 days								
В	Wall and Deck	83 days	Mon 10/3/08	Sat 31/5/08 377SS+9 days								
9	Curing	90 days	Mon 17/3/08	Sat 14/6/08 378SS+7 days								
0	Trench Backfill	83 days	Mon 31/3/08	Sat 21/6/08 379SS+14 days			1					
1	e. Ch375-Ch413 (Bays 28 to Bay 31) Haul access	475 days 10 days	Mon 8/10/07 Mon 8/10/07	Sat 24/1/09 Wed 17/10/07 374								
3	Excavation	68 days	Wed 24/9/08	Sun 30/11/08 456,382,380,459		0 days						
4	Granular Bedding	65 days	Sat 4/10/08	Sun 7/12/08 383SS+10 days			0 day	'S				
5	Base Slab	65 days	Tue 14/10/08	Wed 17/12/08 384SS+10 days				0 days				
7	Wall and Deck Curing	65 days 72 days	Tue 28/10/08 Tue 4/11/08	Wed 31/12/08 385SS+14 days Wed 14/1/09 386SS+7 days					0 days 22 da	we l		
	Trench Backfill	68 days	Tue 18/11/08	Sat 24/1/09 387SS+14 days							lays)	
•	f. Ch413-Ch436 (Bay 32)	117 days	Tue 27/5/08	Sat 20/9/08		<b></b>						
	Flow diversion	7 days	Tue 27/5/08	Mon 2/6/08 391SS-7 days								
1	Excavation Granular Bedding	25 days 4 days	Tue 3/6/08 Sat 28/6/08	Fri 27/6/08 455 Tue 1/7/08 391	_							
3	Base Slab	28 days	Wed 2/7/08	Tue 29/7/08 392	-1							
	Wall and Deck	32 days	Wed 30/7/08	Sat 30/8/08 393								
5 3	Curing	14 days	Sun 31/8/08	Sat 13/9/08 394	0 day							
; 7	Trench Backfill 7. Gabion	7 days 253 days	Sun 14/9/08 Sun 1/6/08	Sat 20/9/08 395 Sun 8/2/09		0 days						
	Ch120-Ch148 (Bay 12 - Bay 13)	10 days	Sat 5/7/08	Mon 14/7/08 399								
	Ch163 - Ch205 (Bay 15 - Bay 17)	34 days	Sun 1/6/08	Fri 4/7/08 378						+		
)	Ch205 - Ch325 (Bay 18 - Bay 25)	98 days	Sat 5/7/08	Fri 10/10/08 399						+		
	Ch348 - CH413 (Bay27 - Bay31) 8. Granite Stone Facing	39 days 144 days	Thu 1/1/09 Mon 28/4/08	Sun 8/2/09 400,386 Thu 18/9/08								
	Ch100 -Ch120 (Bay 10 - Bay 11)	11 days	Mon 28/4/08	Thu 8/5/08 355						<u> </u>		
	Ch325 - Ch348 (Bay 26a and Bay 26c)	6 days	Sun 15/6/08	Fri 20/6/08 379						+		
	Ch120 - Ch163 (Bay 12 - Bay 14)	16 days	Fri 9/5/08	Sat 24/5/08 363,403						+		
6 7	Ch413 - Ch436 (Bay 32a and Bay 32c) 9. Ramp No. 3 (Ch356 - Ch405)	5 days 17 days	Sun 14/9/08 Fri 30/3/07	Thu 18/9/08 395 Sun 15/4/07		143 days				+		
, В	General fill	5 days	Fri 30/3/07	Tue 3/4/07								
9	Granular fill and blinding	2 days	Wed 4/4/07	Thu 5/4/07 408	_							
2	Concrete pavement	10 days	Fri 6/4/07	Sun 15/4/07 409								
1	10. Filling in Platform	481 days	Tue 11/12/07	Sat 4/4/09								

### PROGRAMME OF WORKS - RP13

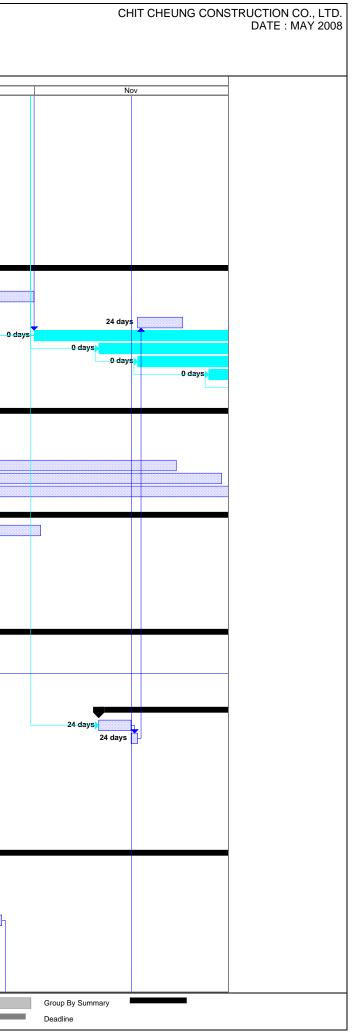
Contrac	RAMME OF WORKS - RP13 ht No. : DC / 2006 / 02 ht Title : Yuen Long, Kam Tin, Ngau Tam Mei ar	nd Tin Shui W	/ai Drainage Iı	mprovements,						CI	HIT CHEUNG CON
	Stage 1, Phase 2B - Cheung Chun Sar	n Tsuen and I	Kam Tsin Wai								
ID Tas	sk Name	Duration	Start	Finish Predecessors	Aug		Sep	Oc	* <b>t</b>		lov
412	10.1 Box Culvert BC2-1	10 days	Thu 22/5/08	Sat 31/5/08	Aug		Сер				
413	a. Ch88-Ch120 (South of Bay 9 - Bay 11)	10 days	Thu 22/5/08	Sat 31/5/08 356							
114	10.2 Channel and Crossing	481 days	Tue 11/12/07	Sat 4/4/09							
15	a. Ch120-Ch205 (Bay 12 - Bay 17)	90 days		Wed 28/5/08 364							
16	b. Ch205-Ch310 (Bay 18 - Bay 24)	118 days		Sun 6/4/08 372							
417	c. Ch310-Ch361 (Bay 25 - Bay 27)	31 days		Tue 22/7/08 380							
18 19	d. Ch361-Ch413 (Bay 28 - Bay 31)	48 days		Sat 4/4/09 388,461							
20	11. Drainage works 11.1 storm drain with manhole and headwall	439 days 384 days		Fri 19/6/09 Sat 25/4/09							
20	a. Ch88-Ch 120 (Bay 9 - Bay 11)	20 days		Fri 20/6/08 413							
22	b. Ch120-Ch205 (Bay 12 - Bay 17)	20 days 20 days		Tue 17/6/08 415							
23	c. Ch205-Ch310 (Bay 18 - Bay 24)	20 days		Sat 26/4/08 416							
24	d. Ch310-Ch361 (Bay 25 - Bay 27)	20 days		Mon 11/8/08 417							
25	e. Ch361-Ch436 (Bay 28 - Bay 32)	21 days	Sun 5/4/09	Sat 25/4/09 418							
26	11.2. surface drain	389 days	Tue 27/5/08	Fri 19/6/09							
27	a. Ch88-Ch 120 (Bay 9 - Bay 11)	10 days		Tue 17/3/09 413,435							
28	b. Ch120-Ch190 (Bay 12 - Bay 16)	10 days		Sat 2/5/09 415,436							
29	c. Ch190-Ch348 (Bay 17 - Bay 26)	15 days		Tue 10/6/08 416,437							
130	d. Ch348-Ch390 (Bay 27 - Bay 29)	10 days		Fri 1/8/08 417,438							
131	e. Ch390-Ch436 (Bay 30 - Bay 32)	10 days		Fri 19/6/09 418,439							
432 433	12.1. Water supply pipeworks (Bay 9 to Bay 26)	60 days		Sun 21/6/09         435,436,437,204           Sat 9/5/09         424,425,204							
33	12.2. Water supply pipeworks (Bay 27 to Bay 32) 13. Roads and paving	14 days	Fri 30/3/07	Tue 9/6/09							
34	a. Ch88-Ch 148 (Bay 9 - Bay 13)	803 days 17 days		Sat 7/3/09 422,413,421,325							
36	b. Ch148-Ch190 (Bay 14 - Bay 16)	10 days		Wed 22/4/09 415,329							
137	c. Ch190-Ch348 (Bay 17 - Bay 26)	50 days		Mon 26/5/08 416							
138	d. Ch348-Ch390 (Bay 27 - Bay 29)	10 days		Sun 8/4/07							
139	e. Ch390-Ch436 (Bay 30 to Bay 32)	45 days	Sun 26/4/09	Tue 9/6/09 424,425							
40	14. Road furnitures	808 days	Mon 9/4/07	Wed 24/6/09							
41	a. Ch88-Ch 120 (Bay 9 - Bay 11)	17 days	Sun 8/3/09	Tue 24/3/09 435							
42	b. Ch120-Ch205 (Bay 12 - Bay 17)	33 days		Mon 25/5/09 436							
43	c. Ch205-Ch348 (Bay 18 - Bay 26)	50 days		Tue 15/7/08 437							
44	d. Ch348-Ch390 (Bay 27 - Bay 29)	33 days		Fri 11/5/07 438							
45 46	e. Ch390-Ch436 (Bay 30 - Bay 32)	15 days		Wed 24/6/09 439							
46	15. Landscape softworks / hardworks a. Ch88-Ch 120 (Bay 9 - Bay 11)	132 days 30 days		Fri 17/7/09 Mon 6/4/09 427SS							
48	b. Ch120-Ch205 (Bay 9 - Bay 17)	70 days		Wed 1/7/09 428SS							
49	c. Ch205-Ch310 (Bay 18 - Bay 24)	62 days		Tue 23/6/09 448SS							
50	d. Ch310-Ch436 (Bay 25 - Bay 32)	38 days		Fri 17/7/09 430SS,431SS							
51	16. Final trimming of north platform from Bay 26 to Bay	-		Sun 5/7/09 439							
52	17. Construct temporary access (Bay 5 to Bay 14)	25 days	Thu 22/5/08	Sun 15/6/08 356,364							
53	18. Removal of existing public light controller near Bay	14 1 day	Sun 15/6/08	Sun 15/6/08							
54	19. Traffic diversion at north of Bay 5 to Bay 14	1 day	Mon 16/6/08	Mon 16/6/08 453,452							
155	20. Temporary Village Access on Bay 28 - Bay 30	2 days		Mon 2/6/08 378			↓				
456	21. Temporary Village Access on Bay 32	3 days		Tue 23/9/08 396			0 days	L			
157	22. Diversion of traffice to permanent access between B	ay1 1 day	Sun 25/1/09	Sun 25/1/09 388,437							
458	23 Temporary pipe proceing at acuth of Day 20	1 do:	Wed 17/0/09	Sat 20/0/08 45055 4 days			200 J>				
	23. Temporary pipe crossing at south of Bay 30	4 days	Wed 17/9/08	Sat 20/9/08 459SS-4 days			300 days				
59	24. Diversion of traffic from Cheung Chun San Chuen to	the 1 day	Sun 21/9/08	Sun 21/9/08 396			2 days				
60	25. Diversion of existing stream to constructed channel	4 days	Mon 9/2/09	Thu 12/2/09 401,273,398,399,400,403,404,405							
61	26. Demolition of existing vehicular bridge	3 days		Sun 15/2/09 460							
62	Lo. Demonition of existing venicular bruge	5 uays	111 13/2/08								
63	B3. Portion 3	737 days	Thu 12/7/07	Fri 17/7/09							
64	1. Site clearance	90 days		Thu 13/12/07							
65	1.1 General clearance	90 days		Thu 13/12/07 17,225,957,959							
66	2. Underground utilities detection	42 days	Tue 31/7/07	Mon 10/9/07							
67	2.1 utilities detection	28 days	Tue 31/7/07	Mon 27/8/07 340							
68	2.2 trial trench excavtion & identification	14 days	Tue 28/8/07	Mon 10/9/07 467							
69	3. Utilities temporary diversion / protection	153 days		Sat 6/6/09							
70	a. WSD water main along village access at CH 1150	153 days		Sat 6/6/09 565SS,570FF+60 days					Г		+
71	<ul> <li>b. Street lighting along village access at CH 1150</li> <li>CCW along village access at CH 1150</li> </ul>	93 days		Tue 7/4/09 565SS,570FF					F		+
472 473	c. PCCW along village access at CH 1150	153 days		Sat 6/6/09 565SS,570FF+60 days							
473	4. Drainage Management Plan 4.1 Submission of DMPs	720 days 1 day		Tue 30/6/09 Thu 12/7/07							
474	4.1 Submission of DMPs 4.2 Comments by the Engineer	14 days		Thu 26/7/07 474							
476	4.3 Implementation of DMP	659 days		Tue 30/6/09 571FF,475							
477	5. Channel and Crossings	697 days		Tue 23/6/09							
											<u> </u>
iniect. Dr	OGRAMME OF WORKS Task		Progre	ss Summary		Rolled Up Critical Task	Rolled Up Progress	External Tasks		Group By Summary	
age: 7 of	UGRAIVIVIE OF WORKS		Milesto			Rolled Up Milestone	Split	Project Summar	v	Deadline	
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CHIT CHEUNG CONSTRUCTION CO., LTD.

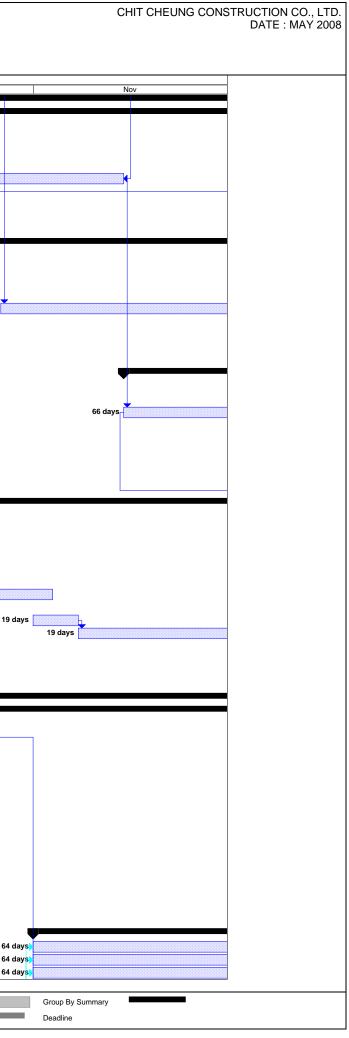
ID	Task Name	Duration	Start	Finish	Predecessors		10		Son		
478	a. Ch436-Ch535 (Bay 33 - Bay 39)	435 days	Thu 18/10/07	Thu 25/12/08	I	A	ug.		Sep		Oct
479	Haul access	6 days	Thu 18/10/07	Tue 23/10/07							
480	Flow diversion	10 days	Sat 24/5/08		481SS-10 days	-					
481	Excavation (including contamination material)		Tue 3/6/08	Sun 31/8/08							
481	Granular Bedding	90 days 120 days	Tue 3/6/08 Thu 3/7/08		455 481SS+30 days						
	-										
483	Base Slab	122 days	Sun 13/7/08		482SS+10 days						
484	Wall and Deck	125 days	Sun 27/7/08		483SS+14 days						
485	Curing	132 days	Sun 3/8/08		484SS+7 days	ys					
486	Trench Backfill	131 days	Sun 17/8/08		485SS+14 days	119 days					
487	b. Ch535-Ch625 (Bay 40 - Bay 45)	626 days	Sat 28/7/07	Mon 13/4/09							
488	Haul access	15 days	Sat 28/7/07	Sat 11/8/07	225						
489	Flow diversion	10 days	Sun 2/11/08	Tue 11/11/08	490SS-10 days	1					24
490	Excavation (including contamination material)	100 days	Sun 2/11/08	Mon 9/2/09	290	1					
491	Granular Bedding	96 days	Wed 12/11/08	Sun 15/2/09	490SS+10 days						
492	Base Slab	100 days	Tue 18/11/08	Wed 25/2/09	491SS+6 days						
493	Wall and Deck	103 days	Sat 29/11/08	Wed 11/3/09	492SS+11 days						
494	Curing	110 days	Sat 6/12/08	Wed 25/3/09	493SS+7 days	-					
495	Trench Backfill	115 days	Sat 20/12/08		494SS+14 days	-					
496	c. Ch625-Ch738 (Bay 46 - Bay 53)	501 days	Sun 12/8/07	Wed 24/12/08							
497	Haul access	15 days	Sun 12/8/07	Sun 26/8/07	488	-					
498	Flow diversion	10 days	Fri 5/9/08		499SS-10 days	-		306 days			
490	Excavation (including contamination material)	49 days	Mon 15/9/08	Sun 14/9/08 Sun 2/11/08		-			-		
499 500						-		11 days	44 dames		
	Granular Bedding	45 days	Thu 25/9/08		499SS+10 days	-		L	11 days		
501	Base Slab	50 days	Wed 1/10/08		500SS+6 days	-			11 days		
502	Wall and Deck	53 days	Sun 12/10/08		501SS+11 days	-				11 days	
503	Curing	60 days	Sun 19/10/08		502SS+7 days	-					11 days
504	Trench Backfill	53 days	Sun 2/11/08		503SS+14 days						<u>ــــــ</u>
505	d. Ch738-Ch800 (Bay 54 - Bay 55)	380 days	Sat 1/9/07	Sun 14/9/08							
506	Haul access	6 days	Sat 1/9/07	Thu 6/9/07	497						
507	Flow diversion	10 days	Sun 3/2/08	Tue 12/2/08	508SS-10 days						
508	Excavation (including contamination material)	120 days	Wed 13/2/08	Wed 11/6/08	465SS+10 days,468,957,506,227	1					
509	Granular Bedding	116 days	Sat 23/2/08	Tue 17/6/08	508SS+10 days	-					
510	Base Slab	131 days	Fri 29/2/08		509SS+6 days	-					
510	Wall and Deck		Tue 11/3/08		510SS+11 days						
511		144 days				<b></b>					
512 513	Curing	151 days	Tue 18/3/08		511SS+7 days						
	Trench Backfill	167 days	Tue 1/4/08		512SS+14 days				1		
514	e. Ch844-Ch925 (Bay 56c - Bay 59)	206 days	Fri 7/9/07	Sun 30/3/08	500	-					
515	Haul access	10 days	Fri 7/9/07	Sun 16/9/07		-					
516	Flow diversion	10 days	Mon 5/11/07		517SS-10 days	_					
517	Excavation (including contamination material)	66 days	Thu 15/11/07	Sat 19/1/08							
518	Granular Bedding	64 days	Sun 25/11/07		517SS+10 days						
519	Base Slab (except Bay 59)	79 days	Sat 1/12/07		518SS+6 days						
520	Wall and Deck (except Bay 59)	82 days	Wed 12/12/07	Sun 2/3/08	519SS+11 days						
521	Curing (except Bay 59)	89 days	Wed 19/12/07	Sun 16/3/08	520SS+7 days	]					
522	Trench Backfill (except Bay 59)	89 days	Wed 2/1/08	Sun 30/3/08	521SS+14 days	1					
523	f. Construction of channel Bay 59	41 days	Tue 26/8/08	Sun 5/10/08							
524	Base Slab	10 days	Tue 26/8/08	Thu 4/9/08	591	1	66 days			Ť	
525	Wall and Deck	7 days	Fri 5/9/08	Thu 11/9/08	524	1		66 days			
526	Curing	14 days	Fri 12/9/08	Thu 25/9/08	525	-		66 days			
527	Trench Backfill	10 days	Fri 26/9/08	Sun 5/10/08		-		,-	66 days		
528	g. Ch925-Ch1038 (Bay 60 - Bay 67)	218 days	Mon 17/9/07	Mon 21/4/08		-					
529	Haul access	10 days	Mon 17/9/07	Wed 26/9/07		-					
530	Flow diversion	10 days	Wed 10/10/07		531SS-10 days	-					
530	Excavation and Handling of Type 3 Contaminated Mate	116 days	Sat 20/10/07	Tue 12/2/08		-					
531						-					
	Granular Bedding	116 days	Tue 30/10/07		531SS+10 days	-					
533	Base Slab	127 days	Mon 5/11/07		532SS+6 days	-					
534	Wall and Deck	130 days	Fri 16/11/07		533SS+11 days	-					
535	Curing	137 days	Fri 23/11/07		534SS+7 days	-					
536	Trench Backfill	137 days	Fri 7/12/07		535SS+14 days						
537	h. Ch1038-Ch1146 (Bay 68 - Bay 71)	327 days	Thu 27/9/07	Mon 18/8/08							
538	Haul access	5 days	Thu 27/9/07	Mon 1/10/07	529	]					
539	Flow diversion	10 days	Fri 4/1/08	Sun 13/1/08	540SS-10 days	1					
540	Excavation and Handling of Type 3 Contaminated	154 days	Mon 14/1/08	Sun 15/6/08	175						
541	Material Granular Bedding	150 days	Thu 24/1/08	Sat 21/6/00	540SS+10 days	-					
541	Base Slab					-					
		154 days	Wed 30/1/08		541SS+6 days	-					
543	Wall and Deck	157 days	Sun 10/2/08		542SS+11 days	-					
544	Curing	164 days	Sun 17/2/08		543SS+7 days						
545	Trench Backfill	170 days	Sun 2/3/08	Mon 18/8/08	544SS+14 days						
	Task		Dra	222	0		Polled Lts (	Critical Task Ro	lled I In Progress	Esst	mal Tasks
	PROGRAMME OF WORKS		Progr		Summary				Iled Up Progress		
rage:	3 of 15 Critical Task		Miles	tone	Rolled Up T	ask	Rolled Up N	Ailestone Sp	lit	Proje	ect Summary
L											



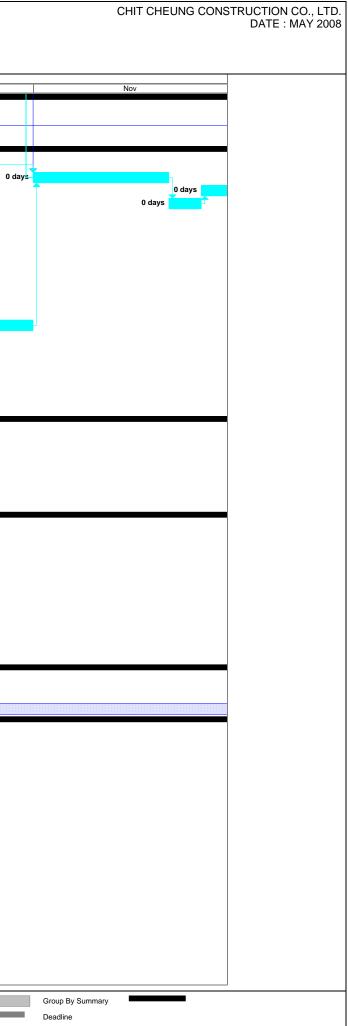
ID	Task Name	Duration	Start	Finish	Predecessors								
547	Excavation	30 days	Thu 11/12/08	Fri 9/1/09	658	Au	ug		Se	)			Oct
548	Granular Bedding	30 days	Wed 17/12/08		547SS+6 days	-							
546	Base Slab	30 days 30 days	Sat 27/12/08		548SS+10 days								
550	Wall and Deck		Sat 21/12/08 Sat 10/1/09		549SS+14 days	_							
550	1	30 days			-	_							
	Curing	30 days	Sat 24/1/09		550SS+14 days	_							
552	Trench Backfill	30 days	Fri 13/2/09		551SS+20 days	_							
553	j. Construction of channel Bay 74	55 days	Thu 30/4/09	Tue 23/6/09		_							
554	Excavation	14 days	Thu 30/4/09	Wed 13/5/09									
555	Granular Bedding	3 days	Thu 14/5/09	Sat 16/5/09									
556	Base Slab	7 days	Sun 17/5/09	Sat 23/5/09	555								
557	Wall and Deck	10 days	Sun 24/5/09	Tue 2/6/09	556								
558	Curing	14 days	Wed 3/6/09	Tue 16/6/09	557								
559	Trench Backfill	7 days	Wed 17/6/09	Tue 23/6/09	558	_							
560	k. Ch1146-Ch1330 (Bay 75 - Bay 84)	450 days	Mon 14/1/08	Tue 7/4/09									
561	Haul access	5 days	Fri 17/10/08	Tue 21/10/08	565SS-15 days	_							269 days
562	Flow diversion	10 days	Wed 22/10/08	Fri 31/10/08	565SS-10 days	_							259 days
563	Handling of Type 3 Contaminated Material	78 days	Mon 14/1/08	Mon 31/3/08	175	_							
564	Demolition of existing footbridge (Bay 83)	7 days	Mon 17/11/08	Sun 23/11/08	596	-							
565	Excavation	120 days	Sat 1/11/08	Sat 28/2/09	545	_							0
566	Granular Bedding	116 days	Tue 11/11/08		565SS+10 days	_							- -
567	Base Slab	116 days	Mon 17/11/08		566SS+6 days	_							
568	Wall and Deck	112 days	Fri 28/11/08		567SS+11 days	_							
569	Curing	112 days	Fri 5/12/08		568SS+7 days	_							
570	Trench Backfill												
570		110 days	Fri 19/12/08		569SS+14 days								
	6. Gabion	361 days	Sat 5/7/08	Tue 30/6/09		_							
572	a. Bay 33- Bay39 (Ch436-Ch535)	58 days	Sat 13/12/08	Sun 8/2/09		_							
573	b. Bay 40 - Bay 45 (CH535-Ch625)	74 days	Thu 26/3/09	Sun 7/6/09		_							
574	c. Bay 46 - Bay 53 (Ch625-Ch738)	94 days	Thu 18/12/08	Sat 21/3/09							<b>↓</b>		
575	e. Bay 57 - Bay 59 (Ch881-Ch925)	58 days	Fri 26/9/08	Sat 22/11/08						237 days			
576	f. Bay 60 - Bay 66 (Ch925-Ch1038)	148 days	Sat 5/7/08	Sat 29/11/08	535,399								
577	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	57 days	Sat 11/10/08	Sat 6/12/08	544,400						1	30 days	[
578	h. Bay 73 - Bay 82 (Ch1165-Ch1301)	89 days	Fri 3/4/09	Tue 30/6/09	569,577								
579	7. Granite Stone Facing	254 days	Wed 30/7/08	Thu 9/4/09			_						
580	Bay 54 to Bay 56 (Ch738 - Ch881)	78 days	Sat 16/8/08	Sat 1/11/08	512	258 days							
581	Bay 67, Bay 68 and Bay 69a (Ch1038 -Ch1108)	23 days	Wed 30/7/08	Thu 21/8/08	544								
582	Granite facing stone Bay 72 (Ch1146 to Ch1165)	14 days	Mon 23/2/09	Sun 8/3/09	551								
583	Bay 83 and Bay 84 (Ch1301-Ch1330)	7 days	Fri 3/4/09	Thu 9/4/09	569	_							
584	8. Ramp No. 2 (Ch752 - Ch800, Bay 55)	17 days	Sun 22/3/09	Tue 7/4/09		-							
585	General fill	5 days	Sun 22/3/09	Thu 26/3/09	512,574	-							
586	Granular fill and blinding	2 days	Fri 27/3/09	Sat 28/3/09	585	_							
587	Concrete pavement	10 days	Sun 29/3/09	Tue 7/4/09		_							
588	9. Ramp No. 1 (Ch1052 - Ch1103, Bay 68)	340 days	Wed 30/7/08	Sat 4/7/09									
589	base slab	12 days	Wed 30/7/08		544,543SS+21 days								
590	Wall	10 days	Mon 11/8/08	Wed 20/8/08		66 days		ъ					
591	General fill	5 days	Thu 21/8/08	Mon 25/8/08			66 day						
592	Granular fill and blinding	2 days	Wed 1/7/09	Thu 2/7/09			oo uay	• <b></b> +					
593	Concrete pavement	2 days 2 days	Fri 3/7/09	Sat 4/7/09		_							
594	10. Pedestrian Temporary Crossing at Bay 83 (Ch1306)					_							
594		150 days	Tue 11/11/08	Thu 9/4/09		_							
	11.1 Construction	5 days	Tue 11/11/08		565SS+10 days	_							
596	11.2 Pedestrian diversion	1 day	Sun 16/11/08	Sun 16/11/08		_							
597	11.3 Demolition of Temp crossing	2 days	Wed 8/4/09	Thu 9/4/09		_							
598	11. Retaining Wall RW1 (Ch430-Ch490)	173 days	Thu 1/11/07	Mon 21/4/08									
599	Excavation	26 days	Thu 1/11/07	Mon 26/11/07									
600	Granular bedding	7 days	Tue 27/11/07	Mon 3/12/07									
601	Base slab	24 days	Tue 4/12/07	Thu 27/12/07	600								
602	Wall	56 days	Fri 28/12/07	Thu 21/2/08	601	1							
603	Curing	14 days	Fri 22/2/08	Thu 6/3/08	602								
604	Backfilling (including sub-soil drain and catchpit)	46 days	Fri 7/3/08	Mon 21/4/08	603								
605	12. Filling in Platform	433 days	Tue 22/4/08	Sun 28/6/09		-						<b></b>	
606	a. Bay 33- Bay39 (Ch436-Ch535)	25 days	Fri 26/12/08	Mon 19/1/09		-							
607	b. Bay 40 - Bay 45 (CH535-Ch625)	28 days	Tue 14/4/09	Mon 11/5/09		-							
608	c. Bay 46 - Bay 53 (Ch625-Ch738)	28 days	Thu 25/12/08	Wed 21/1/09		-							
609	d. Bay 54 - Bay 55 (Ch738-Ch800)	19 days	Fri 20/3/09		513,587FF	-							
610	e. Bay 56c - Bay 59 (Ch844-Ch925)	21 days	Mon 6/10/08	Sun 26/10/08		-					66 days	<u>+</u>	
611	f. Bay 60 - Bay 66 (Ch925-Ch1038)	41 days	Tue 22/4/08	Sun 26/10/08 Sun 1/6/08		_					oo days		]
612		10 days	Tue 22/4/08 Tue 19/8/08				leve 🎽						
612	g. Bay 67 - Bay 71 (Ch1038-Ch1146)			Thu 28/8/08		256 d	ays		<b></b>				
	h. Bay 72 - Bay 73 (Ch1146-CH1180)	5 days	Sun 15/3/09	Thu 19/3/09		_							
614	i. Bay 74 (Ch1180-CH1195)	5 days	Wed 24/6/09	Sun 28/6/09		_							
615	j. Bay 75 - Bay 84 (Ch1195-Ch1330)	7 days	Wed 8/4/09	Tue 14/4/09	5/0								
Project	t: PROGRAMME OF WORKS Task		Progre	ess	Summary			Rolled Up Cri	ical Task Rolle	Up Progress		Exte	mal Tasks
	9 of 15 Critical Task		Milest		Rolled Up			Rolled Up Mil		-		Droir	ect Summary
	Critical Task		wiiest		Rolled Up	Λεστ		Noneu op Mil	stone Split				at outlinary



ID	Task Name	Duration	Start	Finish	Predecessors		Aug			Sep		Oct	
616	13. Drainage works	420 days	Fri 2/5/08	Thu 25/6/09			Aug			Sep		001	
617	13.1 storm drain with manhole	377 days	Fri 2/5/08	Wed 13/5/09									
618	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Mon 5/1/09	Tue 3/2/09	606SS+10 days								
619	b. Bay 40 - Bay 45 (CH535-Ch625)	20 days	Fri 24/4/09	Wed 13/5/09	607SS+10 days								
620	c. Bay 46 - Bay 53 (Ch625-Ch738)	20 days	Sun 4/1/09	Fri 23/1/09	608SS+10 days								
621	d. Bay 54 - Bay 55 (Ch738-Ch800)	20 days	Mon 30/3/09	Sat 18/4/09	609SS+10 days								
622	e. Bay 56c - Bay 59 (Ch844-Ch925)	30 days	Thu 16/10/08	Fri 14/11/08	610SS+10 days,320	FF					L	66 days	
623	f. Bay 60 - Bay 66 (Ch925-Ch1038)	60 days	Fri 2/5/08	Mon 30/6/08	611SS+10 days							- /	
624	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	20 days	Fri 29/8/08	Wed 17/9/08	612SS+10 days			303 days					
625	h. Bay 72 - Bay 73 (Ch1146-CH1180)	10 days	Fri 20/3/09	Sun 29/3/09	613								
626	i. Bay 74 - Bay 84 (Ch1180-Ch1330)	20 days	Sat 18/4/09	Thu 7/5/09	615SS+10 days,597	,							
627	13.2. surface drain	389 days	Mon 2/6/08	Thu 25/6/09									
628	a. Bay 33- Bay39 (Ch436-Ch535)	45 days	Tue 20/1/09	Thu 5/3/09	606								
629	b. Bay 40 - Bay 45 (CH535-Ch625)	45 days	Tue 12/5/09	Thu 25/6/09	607								
630	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Thu 22/1/09	Sat 7/3/09	608								
631	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Wed 8/4/09	Fri 22/5/09	609								
632	e. Bay 56c - Bay 59 (Ch844-Ch925)	45 days	Mon 27/10/08	Wed 10/12/08	610								219 days
633	f. Bay 60 - Bay 66 (Ch925-Ch1038)	45 days	Mon 2/6/08	Wed 16/7/08	611								
634	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Fri 29/8/08	Sun 12/10/08	612			256 days					
635	h. Bay 72 - Bay 73 (Ch1146-CH1180)	30 days	Wed 29/4/09	Thu 28/5/09	641								
636	h. Bay 74 - Bay 84 (Ch1180-Ch1330)	21 days	Wed 15/4/09	Tue 5/5/09	615								
637	14. Roads and paving	190 days	Sat 15/11/08	Sat 23/5/09									
638	a. Ch800-Ch881(Bay 56a to Bay 56c)	60 days	Sat 7/3/09	Tue 5/5/09	639								
639	b. Ch881-CH1037 (Bay57 to Bay 66)	52 days	Wed 14/1/09	Fri 6/3/09	640,623								
640	c. CH1037-CH1146 (Bay 67 to Bay 71)	60 days	Sat 15/11/08	Tue 13/1/09	622								
641	d. CH1146-CH1180 (Bay 72 and Bay 73)	30 days	Mon 30/3/09	Tue 28/4/09	625								
642	e. Bay 72c	21 days	Sun 3/5/09	Sat 23/5/09	660								
643	15. Street furnitures / traffic sign / road marking	149 days	Mon 15/12/08	Tue 12/5/09									
644	a. Ch800-Ch881	37 days	Mon 6/4/09		638SS+30 days								
645	b. Ch881-CH1037	37 days	Fri 13/2/09	Sat 21/3/09	639SS+30 days								
646	c. CH1037-CH1165	37 days	Mon 15/12/08		640SS+30 days								
647	16. Landscape softworks / hardworks	301 days	Sat 20/9/08	Fri 17/7/09									
648	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Thu 19/2/09		628SS+30 days,618								
649	b. Bay 40 - Bay 45 (CH535-Ch625)	37 days	Thu 11/6/09		629SS+30 days,619	)							
650	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Wed 8/4/09		651SF,620,630								
651	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Sat 23/5/09		652SF,621,631								
652	e. Bay 56c - Bay 59 (Ch844-Ch925)	17 days	Wed 1/7/09	Fri 17/7/09									
653	f. Bay 60 - Bay 66 (Ch925-Ch1038)	17 days	Sun 14/6/09	Tue 30/6/09									
654	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Sat 20/9/08		634SS+22 days			L		256 days			
655	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	30 days	Fri 15/5/09		636SS+30 days								
656	17. Temporary village access at Bay 74	7 days	Sat 1/11/08	Fri 7/11/08									19 da
657	18. Diversion of watermain at Bay 72	30 days	Sat 8/11/08	Sun 7/12/08									
658	19. Demolition of existing crossing at Bay 72	3 days	Mon 8/12/08	Wed 10/12/08									
659	20. Diversion of traffic to Bay 72	1 day	Wed 29/4/09	Wed 29/4/09									
660	21. Diversion of traffic to dog training school	3 days	Thu 30/4/09	Sat 2/5/09	659								
661													
662	C. Section II of the Works	841 days	Fri 30/3/07	Fri 17/7/09									
663	C1. Portion 4	841 days	Fri 30/3/07	Fri 17/7/09									
664	1. Site clearance	14 days	Wed 26/9/07	Tue 9/10/07									
665 666	1.1 General clearance	14 days	Wed 26/9/07		226,36,963,965								
	2. Temporary Traffic Management Scheme	60 days	Fri 30/3/07	Mon 28/5/07									
667	2.1 TTMS Proposal (trial pits for utilities and site entrance ir	59 days	Sat 31/3/07	Mon 28/5/07									
668	a. Submission	45 days	Sat 31/3/07	Mon 14/5/07	18								
669	b. comments & approvals by Engineer & TMLG	14 days	Tue 15/5/07	Mon 28/5/07	668								
670	2.2 TTMS Proposal (for construction of box culvet)	59 days	Fri 30/3/07	Sun 27/5/07									
671	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07									
672	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	671								
673	3. Excavation Permits	503 days	Tue 29/5/07	Sun 12/10/08									
674	3.1 application and issue of permit (trial pits for utilities	60 days	Tue 29/5/07	Fri 27/7/07	669							•	
675	and site entrance in Kam Po Road) 3.2 application and issue of permits (for construction of	180 days	Wed 16/4/08	Sun 12/10/08	672								
	box culvert)												
676	4. Underground utilities detection	43 days	Fri 29/6/07	Fri 10/8/07									
677	4.1 utilities detection	28 days	Fri 29/6/07		678SF-1 day								
678	4.2 trial trench excavtion & identification	14 days	Sat 28/7/07	Fri 10/8/07									
679	5. Utilities temporary diversion / protection	85 days	Sat 1/11/08	Sat 24/1/09									
680	a. WSD water main along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09									64 da
681	b. Street lighting along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09									64 da
682	c. DSD storm Drain	85 days	Sat 1/11/08	Sat 24/1/09	689SS								64 da
Project	:: PROGRAMME OF WORKS Task		Progre	ess		Summary		Rolled Up Critical	Task	Rolled Up Progress		External Tasks	
	10 of 15 Critical Task		Milest	tone		Rolled Up Task		Rolled Up Milestor	1e	Split		Project Summary	
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	Duration	Start	Finish	Predecessors	Aug		Sep		00	ct
6. Drainage Management Plan	679 days	Fri 30/3/07	Thu 5/2/09							
6.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07							
6.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	684						
6.3 Implementation of DMPs	57 days	Thu 11/12/08	Thu 5/2/09							
7. Box Culvert Ch0-Ch19.5 (Bay 1 to Bay 3)		Mon 13/10/08	Sun 5/4/09							
· · · · ·	175 days								· · · · ·	
Remove road pavement and expose existing utilities	5 days	Mon 13/10/08		678,675,699					0 days	
Excavation	21 days	Sat 1/11/08	Fri 21/11/08	688,665,700					Т	
Remove existing box culvert	14 days	Thu 27/11/08	Wed 10/12/08	691						
flow diversion	5 days	Sat 22/11/08	Wed 26/11/08	689						
Granular Bedding	9 days	Thu 11/12/08	Fri 19/12/08	690						
Base Slab	35 days	Sat 20/12/08	Fri 23/1/09							
Wall and Deck	36 days	Sat 24/1/09	Sat 28/2/09							
Curing	14 days	Sun 1/3/09	Sat 14/3/09							
Trench Backfill	15 days	Sun 15/3/09	Sun 29/3/09	695,680FF,681FF,682FF,690,813						
Reinstatement of Kam Po Road	7 days	Mon 30/3/09	Sun 5/4/09	696						
8. Construction of temporary access at Bay 4	21 days	Sun 21/9/08		738,675FF-1 day			O davia			
	-						0 days			
9. Diversion of traffic to Bay 4	1 day	Sun 12/10/08	Sun 12/10/08					C	0 days	<u> </u>
10. Temporary support to existing watermain at Kam Po Roa	14 days	Sat 18/10/08	Fri 31/10/08	688					0 day	/S
11. Fill in Platform	50 days	Mon 6/4/09	Mon 25/5/09	696,697						
12. Roads and paving (Bay 3 and Bay 4)	40 days	Tue 26/5/09	Sat 4/7/09	701,849						
13. Street furnitures	13 days	Sun 5/7/09	Fri 17/7/09	702						
14. Landscape softworks / hardworks	53 days	Tue 26/5/09	Fri 17/7/09							
15. Modification to invert level of box culvert at Kam Sheun	45 days	Wed 21/1/09	Fri 6/3/09							
To another to meet level of box culvert at ram Sneun	+5 uays	mea 2 1/ 1/09	FII 0/3/09							
2. Portion 5 and 5C	841 days	Fri 30/3/07	Fri 17/7/09							
1. Site clearance	90 days	Thu 20/9/07	Tue 18/12/07							
1.1 General clearance	90 days	Thu 20/9/07		36,226SS+75 days,969,971						
2. Temporary Traffic Management Scheme	59 days	Fri 30/3/07	Sun 27/5/07							
TTMS Proposal (trial pits for utilities and site entrance in Ka	59 days	Fri 30/3/07	Sun 27/5/07							
a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	285						
b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07							
3. Excavation Permits	752 days	Mon 28/5/07	Wed 17/6/09							
3.1 application and issue of permit (trial pits for utilities and temporary site entrance in Kam Sheung Road)	60 days	Mon 28/5/07	Thu 26/7/07	713						
3.2 application and issue of permits (for construction of	180 days	Sat 20/12/08	Wed 17/6/09	7FS-210 days						
permanent entrance)										
4. Underground utilities detection	42 days	Fri 29/6/07	Thu 9/8/07							
a. utilities detection	28 days	Fri 29/6/07	Thu 26/7/07	19						
b. trial trench excavtion & identification	14 days	Fri 27/7/07	Thu 9/8/07	715,718						
5. Utilities temporary diversion / protection	223 days	Fri 30/3/07	Wed 7/11/07							
a. CLP overhead cables at CH 100 ~ CH 120	90 days	Fri 10/8/07	Wed 7/11/07	719						
b. CLP overhead cables at CH 530 ~ CH 550	90 days	Fri 10/8/07	Wed 7/11/07							
c. CLP overhead cables at CH 670 ~ CH 690		Fri 10/8/07	Wed 7/11/07							
	90 days									
d. Gas main at Kam Sheung Road	84 days	Fri 30/3/07	Thu 21/6/07							
6. Drainage Management Plan	692 days	Fri 30/3/07	Wed 18/2/09							
5.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07	684SS						
5.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	726						
5.3 Implementation of DMP	551 days	Sat 18/8/07	Wed 18/2/09	756SS,727						
7. Channel and Crossings	768 days	Fri 30/3/07	Tue 5/5/09							
a. Ch11-Ch130 (Bay 4 - Bay 11)	-	Thu 23/8/07	Mon 7/4/08							
	229 days									
Haul access	5 days	Thu 23/8/07	Mon 27/8/07							
Flow diversion	10 days	Tue 1/1/08		733SS-10 days						
Excavation (including contamination material)	44 days	Fri 11/1/08	Sat 23/2/08	721,731,762						
Granular Bedding	40 days	Mon 21/1/08	Fri 29/2/08	733SS+10 days						
Base Slab (except south of Bay 6 and north of Bay 7)	44 days	Sun 27/1/08	Mon 10/3/08	734SS+6 days						
				-						
Wall and Deck (except south of Bay 6 and north of Bay	37 days	Sun 10/2/08	Mon 17/3/08	735SS+14 days						
Curing	44 days	Sun 17/2/08	Mon 31/3/08	736SS+7 days						
Trench Backfill	37 days	Sun 2/3/08		737SS+14 days						
b. South of Bay 6 and north of Bay 7	37 days	Mon 30/3/09	Tue 5/5/09							
Excavation	1 day	Mon 30/3/09	Mon 30/3/09							
Granular Bedding	5 days	Tue 31/3/09	Sat 4/4/09	740						
Base Slab and Wall	10 days	Sun 5/4/09	Tue 14/4/09	741						
Curing	14 days	Wed 15/4/09	Tue 28/4/09	742						
Trench Backfill	7 days	Wed 29/4/09	Tue 5/5/09							
Haul access										
Flow diversion		Sat 29/3/08		-						
Excavation (including contamination material)	33 days	Tue 8/4/08	Sat 10/5/08	746,738						
c. Ch130- Haul Flow	Ch233 (Bay 12 - Bay 19) access diversion	Ch233 (Bay 12 - Bay 19)         341 days           access         5 days           diversion         10 days	Ch233 (Bay 12 - Bay 19)         341 days         Sat 18/8/07           access         5 days         Sat 18/8/07           diversion         10 days         Sat 29/3/08	Ch233 (Bay 12 - Bay 19)         341 days         Sat 18/8/07         Wed 23/7/08           access         5 days         Sat 18/8/07         Wed 22/8/07           diversion         10 days         Sat 29/3/08         Mon 7/4/08	Ch233 (Bay 12 - Bay 19)         341 days         Sat 18/8/07         Wed 23/7/08           access         5 days         Sat 18/8/07         Wed 22/8/07         755           diversion         10 days         Sat 29/3/08         Mon 7/4/08         748SS-10 days	Ch233 (Bay 12 - Bay 19)     341 days     Sat 18/8/07     Wed 23/7/08       access     5 days     Sat 18/8/07     Wed 22/8/07       diversion     10 days     Sat 29/3/08     Mon 7/4/08	Ch233 (Bay 12 - Bay 19)       341 days       Sat 18/8/07       Wed 23/7/08         access       5 days       Sat 18/8/07       Wed 22/8/07         diversion       10 days       Sat 29/3/08       Mon 7/4/08	Ch233 (Bay 12 - Bay 19)       341 days       Sat 18/8/07       Wed 23/7/08         access       5 days       Sat 18/8/07       Wed 22/8/07         diversion       10 days       Sat 29/3/08       Mon 7/4/08	Ch233 (Bay 12 - Bay 19)       341 days       Sat 18/8/07       Wed 23/7/08         access       5 days       Sat 18/8/07       Wed 22/8/07         diversion       10 days       Sat 29/3/08       Mon 7/4/08	Ch233 (Bay 12 - Bay 19)       341 days       Sat 18/8/07       Wed 23/7/08         access       5 days       Sat 18/8/07       Wed 22/8/07         diversion       10 days       Sat 29/3/08       Mon 7/4/08



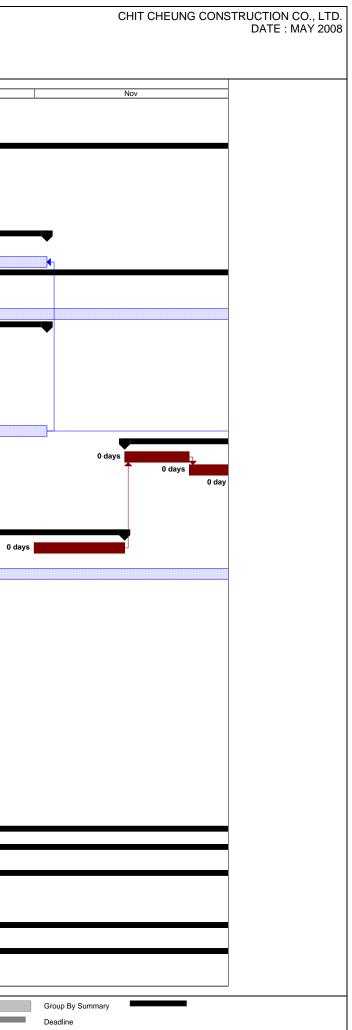
# PROGRAMME OF WORKS - RP13

Ngau Tam Mei and Tin Shui         Cheung Chun San Tsuen and         29 day         50 day         50 day         56 day         63 day         3ay 30)       151 day         50 day         56 day         63 day         56 day         63 day         56 day         50 day         56 day         60 day         70 day         70 day         70 day         70 day         85 day         92 day         39         43 day         70 day         6 day         14 day         14 day         14 day         14 day         20 ady         39, and Bay 40         64 day         21 day         21 day         7 day         7 day         80 day         21 day         7 day	Start         Start           ys         Fri 18/4/08           ys         Thu 24/4/08           ys         Thu 24/4/08           ys         Thu 24/4/08           ys         Thu 25/5/08           ys         Thu 15/5/08           ys         Mon 13/8/07           ys         Mon 13/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Tau 28/8/07           ys         Thu 3/9/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 18/10/07           ys         Wed 18/6/08           ys         Wed 18/6/08           ys         Wed 18/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Sat 9/8/08           ys         Sat 9/8/08	Finish         Predecessors           Fri 16/5/08         748SS+10 days           Thu 12/6/08         749SS+6 days           Wed 2/7/08         750SS+14 days           Wed 2/7/08         751SS+7 days           Wed 2/7/08         752SS+14 days           Wed 2/7/08         752SS+14 days           Thu 10/1/08         757SS-15 days           Mon 27/8/07         755           Fri 17/8/07         757SS+10 days           Thu 29/11/07         757SS+10 days           Thu 29/11/07         757SS+10 days           Thu 20/12/07         759SS+14 days           Thu 20/12/07         759SS+14 days           Thu 31/1/08         760SS+7 days           Thu 31/7/08         760SS+7 days           Wed 11/6/08         11           Tue 17/708         765           Wed 11/6/08         11           Tue 17/708         766           Tue 15/7/08         766           Tue 15/7/08         769           Fri 19/908         771           Fri 8/8/08         771           Fri 29/8/08         772	Aug		Sep		Oct			Nov	DA
Duration           29 day           50 day           56 day           63 day           56 day           60 day           10 day           57 day           10 day           70 day           78 day           85 day           92 day           39           43 day           7 day           6 day           14 day           14 day           8 day           21 day           14 day           21 day           14 day           7 day           7 day	Start           ys         Fri 18/4/08           ys         Thu 24/4/08           ys         Thu 24/4/08           ys         Thu 15/5/08           ys         Thu 15/5/08           ys         Thu 29/5/08           ys         Mon 13/8/07           ys         Mon 13/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Tue 28/8/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 18/10/07           ys         Wed 18/6/08           ys         Wed 17/08           ys         Wed 17/08           ys         Fri 18/708           ys         Fri 18/708           ys         Fri 18/708           ys         Sat 9/8/08           ys         Sat 9/8/08           ys         Sat 9/8/08           ys	Finish         Predecessors           Fri 16/5/08         748SS+10 days           Thu 12/6/08         749SS+6 days           Wed 2/7/08         750SS+14 days           Wed 2/7/08         751SS+7 days           Wed 23/7/08         752SS+14 days           Wed 23/7/08         752SS+14 days           Wed 23/7/08         757SS-15 days           Mon 27/8/07         757SS-15 days           Mon 27/8/07         755S           Fri 26/10/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 3/1/08         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 17/708         764           Wed 11/6/08         764           Tue 17/6/08         766           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         769           Fri 19/9/08         71	Aug		Sep		Oct			Nov	
29 day           50 day           56 day           57 day           10 day           00tamination material)           60 day           77 day           85 day           92 day           85 day           92 day           85 day           92 day           85 day           92 day           39           43 day           7 day           6 day           14 day           14 day           8 day           21 day           21 day           14 day           14 day           7 day	ys         Fri 18/4/08           ys         Thu 24/4/08           ys         Thu 8/5/08           ys         Thu 15/5/08           ys         Thu 29/5/08           ys         Thu 29/5/08           ys         Mon 13/8/07           ys         Mon 13/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Tue 28/8/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 18/10/07           ys         Thu 18/10/07           ys         Thu 18/10/07           ys         Thu 18/6/08           ys         Wed 18/6/08           ys         Wed 17/08           ys         Wed 16/7/08           ys         Fri 18/708           ys         Fri 18/708           ys         Fri 18/708           ys         Sat 9/8/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 30/8/08	Fri         16/5/08         748SS+10 days           Thu         12/6/08         749SS+6 days           Wed         2/7/08         750SS+14 days           Wed         2/7/08         750SS+14 days           Wed         2/7/08         751SS+7 days           Wed         23/7/08         752SS+14 days           Wed         23/7/08         752SS+14 days           Thu         10/1/08            Fri         7/8/07         757SS-15 days           Mon 27/8/07         755S            Thu         15/1/07         757SS+10 days           Thu 29/11/07         758SS+6 days            Thu 20/12/07         759SS+14 days            Thu 3/1/08         760SS+7 days            Thu 10/1/08         761SS+14 days            Thu 17/708             Wed 11/6/08         764            Tue 17/6/08         766            Tue 15/7/08         766            Tue 15/7/08         768            Fri 19/908             Thu 31/7/08         769           Fri 8/8/08	Aug		Sep		Oct			Nov	
50 day           56 day           63 day           56 day           956 day           3ay 30)           151 day           5 day           10 day           5 day           10 day           70 day           77 day           85 day           92 day           14 day           14 day           14 day           14 day           8 day           21 day           14	ys         Thu 24/4/08           ys         Thu 8/5/08           ys         Thu 15/5/08           ys         Thu 29/5/08           ys         Mon 13/8/07           ys         Mon 13/8/07           ys         Mon 13/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Thu 27/9/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 13/10/07           ys         Thu 18/10/07           ys         Thu 5/6/08           ys         Thu 12/6/08           ys         Thu 12/6/08           ys         Wed 18/6/08           ys         Wed 16/7/08           ys         Fri 18/708           ys         Fri 18/708           ys         Fri 18/708           ys         Sat 9/8/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Thu 12/6/08         749SS+6 days           Wed 2/7/08         750SS+14 days           Wed 16/7/08         751SS+7 days           Wed 23/7/08         752SS+14 days           Thu 10/1/08         757SS-15 days           Fri 17/8/07         757SS-15 days           Mon 27/8/07         755           Fri 26/10/07         757SS+10 days           Thu 15/11/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 20/12/07         759SS+14 days           Thu 3/1/08         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 17/708         765           Tue 17/6/08         764           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         768           Fri 19/9/08         71									
56 day           63 day           56 day           3ay 30)         151 day           5 day           10 day           5 day           10 day           70 day           77 day           85 day           92 day           85 day           39           43 day           7 day           6 day           7 day           6 day           14 day           14 day           39, and Bay 40           64 day           21 day           14 day	ys         Thu 8/5/08           yys         Thu 15/5/08           yys         Thu 29/5/08           yys         Mon 13/8/07           yys         Mon 13/8/07           yys         Mon 13/8/07           yys         Sat 18/8/07           yys         Sat 18/8/07           yys         Thu 28/8/07           yys         Thu 13/9/07           ys         Thu 13/10/07           ys         Thu 13/10/07           ys         Thu 18/10/07           ys         Thu 18/10/07           ys         Thu 18/10/07           ys         Thu 18/10/08           ys         Wed 18/6/08           ys         Wed 16/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Sat 9/8/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Wed 2/7/08         750SS+14 days           Wed 16/7/08         751SS+7 days           Wed 23/7/08         752SS+14 days           Thu 10/1/08         757SS-15 days           Fri 17/8/07         757SS-15 days           Mon 27/8/07         755           Fri 26/10/07         757SS+10 days           Thu 15/11/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 20/12/07         759SS+14 days           Thu 10/1/08         760SS+7 days           Thu 11/1/08         761SS+14 days           Thu 11/1/08         761SS+14 days           Thu 11/1/08         761SS+14 days           Thu 11/1/08         764           Tue 117/08         766           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         768           Fri 19/908         71									
63 day           56 day           3ay 30)         151 day           5 day           10 day           ontamination material)         60 day           70 day           78 day           85 day           92 day           39           43 day           7 day           6 day           14 day           92 day           39, and Bay 30           2 day           39, and Bay 40           64 day           8 day           21 day           14 day           14 day           14 day           7 day	ys Thu 15/5/08 ys Thu 29/5/08 ys Mon 13/8/07 ys Mon 13/8/07 ys Sat 18/8/07 ys Tue 28/8/07 ys Tri 22/8/07 ys Thu 13/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 18/10/07 ys Thu 18/10/07 ys Thu 18/10/08 ys Wed 18/6/08 ys Wed 16/7/08 ys Wed 16/7/08 ys Fri 18/7/08 ys Fri 18/7/08 ys Fri 18/7/08 ys Sat 9/8/08 ys Sat 30/8/08 ys Sat 13/9/08	Wed 16/7/08         751SS+7 days           Wed 23/7/08         752SS+14 days           Thu 10/1/08         752SS+14 days           Fri 17/8/07         757SS-15 days           Mon 27/8/07         755           Fri 26/10/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 21/100         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 17/708         66           Tue 17/608         764           Tue 15/7/08         766           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         768           Fri 19/908         769           Thu 31/7/08         769           Fri 8/8/08         771									
56 day           Bay 30)         151 day           5 day         10 day           ontamination material)         60 day           70 day         78 day           92 day         85 day           92 day         7 day           6 day         14 day           14 day         7 day           939, and Bay 40         64 day           14 day         8 day           21 day         14 day           21 day         7 day	ys Thu 29/5/08 ys Mon 13/8/07 ys Mon 13/8/07 ys Sat 18/8/07 ys Tue 28/8/07 ys Tri 28/8/07 ys Thu 13/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 4/10/07 ys Thu 18/10/07 ys Thu 18/10/08 ys Wed 18/6/08 ys Wed 18/6/08 ys Wed 16/7/08 ys Wed 16/7/08 ys Fri 18/7/08 ys Fri 18/7/08 ys Fri 18/7/08 ys Sat 9/8/08 ys Sat 9/8/08 ys Sat 30/8/08	Wed 23/7/08         752SS+14 days           Thu 10/1/08         757SS-15 days           Fri 17/8/07         757SS-15 days           Mon 27/8/07         755           Fri 26/10/07         755S           Thu 15/11/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 20/12/07         759SS+14 days           Thu 3/1/08         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 17/708         765           Tue 17/6/08         764           Tue 15/7/08         766           Tue 15/7/08         766           Tue 15/7/08         768           Fri 19/908         769           Thu 31/7/08         769           Fri 8/8/08         771									
5 day           10 day           ontamination material)         60 day           70 day           77 day           85 day           92 day           8 day           14 day           92 day           939, and Bay 40           64 day           21 day           21 day           14 day           7 day	ys         Mon 13/8/07           ys         Sat 18/8/07           ys         Sat 18/8/07           ys         Tue 28/8/07           ys         Fri 7/9/07           ys         Thu 13/9/07           ys         Thu 13/9/07           ys         Thu 27/9/07           ys         Thu 18/10/07           ys         Wed 18/6/08           ys         Wed 18/6/08           ys         Wed 16/7/08           ys         Fri 18/7/08           ys         Fri 18/708           ys         Fri 18/708           ys         Sat 9/8/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Fri 17/8/07       757SS-15 days         Mon 27/8/07       755         Fri 26/10/07       757SS+10 days         Thu 15/11/07       757SS+10 days         Thu 29/11/07       758SS+6 days         Thu 20/12/07       759SS+14 days         Thu 31/108       760SS+7 days         Thu 10/1/08       761SS+14 days         Thu 10/1/08       761SS+14 days         Wed 11/6/08       761SS+14 days         Tue 17/708       765         Tue 17/708       766         Tue 15/7/08       766         Tue 15/7/08       766         Tue 15/7/08       768         Fri 19/9/08       769         Thu 31/7/08       769         Fri 8/8/08       771									
10 day           ontamination material)         60 day           70 day         78 day           78 day         85 day           92 day         85 day           92 day         85 day           39         43 day           7 day         6 day           14 day         14 day           north of Bay 38 and Bay 39         2 day           39, and Bay 40         64 day           14 day         8 day           14 day         14 day	ys Sat 18/8/07 ys Sat 18/8/07 ys Tue 28/8/07 ys Fri 7/9/07 ys Thu 13/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 27/9/07 ys Thu 18/10/07 ys Thu 18/10/07 ys Thu 5/6/08 ys Thu 12/6/08 ys Wed 18/6/08 ys Wed 27/108 ys Wed 27/708 ys Wed 18/7/08 ys Wed 16/7/08 ys Fri 18/7/08 ys Fri 18/7/08 ys Fri 18/708 ys Sat 9/8/08 ys Sat 9/8/08 ys Sat 30/8/08 ys Sat 13/9/08	Mon 27/8/07         755           Fri 26/10/07         757SS+10 days           Thu 15/11/07         757SS+10 days           Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 20/12/07         759SS+14 days           Thu 31/108         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 17/708         Wed 11/6/08           Tue 17/6/08         764           Tue 17/708         766           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         768           Fri 19/9/08         769           Fri 8/8/08         771									
ontamination material)         60 day           70 day         78 day           78 day         85 day           92 day         85 day           92 day         85 day           39         43 day           7 day         60 day           39         43 day           7 day         6 day           14 day         14 day           north of Bay 38 and Bay 39         2 day           39, and Bay 40         64 day           14 day         8 day           21 day         14 day           7 day         7 day	ys         Tue 28/8/07           ys         Fri 7/9/07           ys         Fri 7/9/07           ys         Thu 13/9/07           ys         Thu 27/9/07           ys         Thu 27/9/07           ys         Thu 4/10/07           ys         Thu 5/6/08           ys         Thu 5/6/08           ys         Thu 12/6/08           ys         Wed 18/6/08           ys         Wed 2/7/08           ys         Wed 9/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Fri 18/708           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Fri 26/10/07         Thu 15/11/07       757SS+10 days         Thu 29/11/07       758SS+6 days         Thu 20/12/07       759SS+14 days         Thu 20/12/07       759SS+14 days         Thu 31/108       760SS+7 days         Thu 10/1/08       761SS+14 days         Thu 10/1/08       761SS+14 days         Wed 11/6/08       761SS+14 days         Tue 17/6/08       764         Tue 17/708       766         Tue 15/7/08       766         Tue 15/7/08       766         Tue 15/7/08       768         Fri 19/9/08       769         Fri 8/8/08       771									
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78 day           85 day           92 day           92 day           85 day           39           43 day           7 day           6 day           14 day           14 day           7 day           92 day           39           43 day           7 day           6 day           14 day           7 day           north of Bay 38 and Bay 39           2 day           39, and Bay 40           64 day           8 day           21 day           14 day           7 day	ys         Thu 13/9/07           ys         Thu 27/9/07           ys         Thu 4/10/07           ys         Thu 18/10/07           ys         Thu 5/6/08           ys         Thu 5/6/08           ys         Thu 12/6/08           ys         Wed 18/6/08           ys         Wed 18/6/08           ys         Wed 2/7/08           ys         Wed 9/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Thu 29/11/07         758SS+6 days           Thu 20/12/07         759SS+14 days           Thu 3/1/08         760SS+7 days           Thu 10/1/08         761SS+14 days           Thu 10/1/08         761SS+14 days           Thu 17/708            Wed 11/6/08            Tue 17/6/08         764           Tue 17/708         766           Tue 15/7/08         766           Tue 15/7/08         766           Tue 15/7/08         767FF           Thu 17/7/08         768           Fri 19/908         769           Fri 8/8/08         771									
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7         day           7         day           6         day           14         day           14         day           14         day           7         day           14         day           7         day           7         day           9         day           39, and Bay 40         64           44         day           8         day           21         day           14         day           7         day	ys         Thu 5/6/08           ys         Thu 12/6/08           ys         Wed 18/6/08           ys         Wed 2/7/08           ys         Wed 9/7/08           ys         Wed 16/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Fri 18/7/08           ys         Sat 9/8/08           ys         Sat 30/8/08           ys         Sat 13/9/08	Wed 11/6/08           Tue 17/6/08           764           Tue 1/7/08           765           Tue 15/7/08           767FF           Thu 17/7/08           768           Fri 19/9/08           Thu 31/7/08           Fri 8/8/08									
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Rind         Numerical         Propue         Numerical         Propue         Numerical         Propue         Propue <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
No.     No.     No.     No.     No.     No.     No.       64     General I     30007     No.2000     No.2000     No.2000     No.2000       64     General I     5007     No.2000     No.2000     No.2000     No.2000       64     General I     5007     No.2000     No.2000     No.2000     No.2000       70     General II     10007     No.2000     No.2000     No.2000       70     General II     No.2000     No.2000     No.2000     No.20			-				-					
44     0 cos ii     2 box     File     9 cos 20     14       45     0 cos 1i							-					
All         General intra range         Single							- 324 days					
Alt         Orbons, manue         Yang         Track         Yang         Yang <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
44         9         10         Resp. 14, (2015, 2005, 2017)         10         90, 700         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70		-					_					
All         Subsect in         Y alog         To K k40         Non 7,458         Y alog         Y alog <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>							_					
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0000         Concent convert         17 gay         0 1 2000         Gay Alloy         All days							260 days	<b></b>				
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BAT         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdisp< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdisp<></thdisplay<></thdisplay<>			-									
858         0. beys 7: Beys 5(h4-0k38)         30 day         Two 30900         Wes 30900         Sess 7: days         100000         Sess 7: days         1000000         Sess 7: days         1000000         Sess 7: days         10000000         Sess 7: days         1000000000000000000000000000000000000												
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BR         19.2 strates dram         19.3 dray         Wed 27888         Strat 100           BR         A.BPS - Bay 27 - Bay 56 (1745-0768)         00 dray         Wed 27888         Strat 100         Strat 100           BR         A.BPS - Bay 27 - Bay 56 (1745-0768)         00 dray         Fri 00708         BAS - Bay 57         Strat 100         St	859		14 days	Sun 21/12/08			-					
00000         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007 <td< td=""><td>860</td><td></td><td></td><td>Wed 27/8/08</td><td>Sat 3/1/09</td><td>)</td><td>_</td><td></td><td></td><td></td><td></td><td></td></td<>	860			Wed 27/8/08	Sat 3/1/09	)	_					
00000         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007         0.00007 <td< td=""><td></td><td>a. Bay 3- Bay 27 (Ch11-Ch340)</td><td></td><td>Wed 27/8/08</td><td>Mon 29/9/08</td><td>8 852</td><td>-</td><td>238 days</td><td>-</td><td></td><td></td><td></td></td<>		a. Bay 3- Bay 27 (Ch11-Ch340)		Wed 27/8/08	Mon 29/9/08	8 852	-	238 days	-			
863         0. 8: 9/ 9- 8/ 9/ 68 (0-888-0:1/2)         14 69 m/ 8         50 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         55 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         56 ± 71/1/20         5	862	b. Bay 37 - Bay 55 (Ch449-Ch688)	60 days	Fri 10/10/08	Mon 8/12/08	8 853	-				176 days	
865         0.0433         CNA9         50.499         Sun 7300         Sun 730							_					
866       0. 0/644 - 0549       50 dyg       10 4/00       10 4/00       87.55         877       0. 0/640 - 0568       50 dyg       Nm 13/40       868         889       0. 0/660 - 0568       50 dyg       Nm 13/40       869         889       0. 0/660 - 0568       50 dyg       Nm 13/40       869         889       0. 0/663 - 0549       Ch609 - 0568       50 dyg       Nm 13/40       867         70       14. Street furnors       14 dyg       Nm 13/40       865         871       0. 0/643 - 0549       Nm 13/40       Mm 13/500       867         872       0. 0/643 - 0549       Nm 13/400       Nm 13/500       867         737       0. 0/649 - 05649       30 dyg       Nm 13/200       867         74       0. 0/649 - 05649       30 dyg       Stat 1/700       86,72         75       0. 0/649 - 05649       7 dyg / Stat 1/700       86,72         76       0. 0/649 - 05649       150 dyg       Stat 1/700       86,72         77       0. 0/659 - 0560       150 dyg       Nm 13/100       Fri 17700       86,72         78       0. 0/644 - 05649       14 dyg       Nm 23/100       Nm 23/100       Nm 23/100         79 <t< td=""><td>864</td><td>17. Roads and paving</td><td>188 days</td><td>Sun 4/1/09</td><td>Fri 10/7/09</td><td>)</td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>	864	17. Roads and paving	188 days	Sun 4/1/09	Fri 10/7/09	)	-					
967       0 Ch-49 - OH09	865	a. Ch233 - Ch340	50 days	Sun 29/3/09	Sun 17/5/09	852,845,857,928SS-30 days						
868       d. Ch609 - Ch688       50 day       Sun 41/09       Sun 22209       699         869       a. Ch609 - Ch684       23 day       Thu 18600       Fn 177709         70       16. Street furnitures       145 days       Mon 18500       Fin 177709         871       a. Ch233 - Ch340       30 days       Mon 18500       BEC         872       D. Ch469 - Ch686       30 days       Mon 23209       667         873       a. Ch540 - Ch606       30 days       Mon 23209       677         76       10. Landscape aothworks / hardworks       30 days       Mon 23209       677         77       a. Ch540 - Ch684       30 days       Mon 23209       677         77       a. Ch540 - Ch684       Shard K1009       Fn 177709       68.742         77       a. Ch540 - Ch634       Yangs       Sma 41/09       Fn 177709       68.742         787       a. Ch649 - Ch609       Yangs       Sma 41/09       Fn 177709       68.742         787       a. Ch449 - Ch549       Yangs       Mon 32709       Fn 177709       68.742         787       a. Ch449 - Ch609       Yangs       Mon 32709       Fn 177709       68.742         787       a. Ch4049 - Ch649       Yangs	866	b. Ch464 - Ch549	50 days	Tue 14/4/09	Tue 2/6/09	867,858						
869       e. Permanent Entrance at Ch449 to Ch464       22 days       Thu 18009       Fri 10709       716,783,866         870       16. Street turnitures       145 days       Mon 23206       Fri 177709         871       a. Ch235 - Ch440       30 days       Mon 18506       Tue 184008       665         872       b. Ch440 - Ch649       30 days       Wed 33008       Thu 18008       665         872       b. Ch440 - Ch640       30 days       Tue 14408       Wed 13508       867         873       c. Ch540 - Ch669       30 days       Tue 14408       Wed 13508       867         874       d. Ch600 - Ch688       30 days       Note 14408       Wed 13508       867         875       e. Permanent Entrance at Ch443       7 days       Sati 17708       668         875       e. Ch540 - Ch689       15 days       Tue 24/408       668         876       b. Ch449 - Ch649       Yed 30007       867.0485       Hold 7047         877       a. Ch53 - Ch340       Yed 3008       Fri 177709       867.748         878       b. Ch469 - Ch669       South // Mon 23/209       Wed 3009       867         879       b. Ch469 - Ch669       South // Mon 23/209       Wed 3009       867 <tr< td=""><td>867</td><td>c. Ch549 - Ch609</td><td>50 days</td><td>Mon 23/2/09</td><td>Mon 13/4/09</td><td>868</td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	867	c. Ch549 - Ch609	50 days	Mon 23/2/09	Mon 13/4/09	868						
870       18. Street furnitures       145 days       Mon 23/200       Fri 1777/00       Inclementary         871       a. Ch233 - Ch340       30 days       Mon 18/509       The 24/009       66         872       b. Ch440 - Ch549       30 days       Wed 13/509       67         873       a. Ch540 - Ch609       30 days       Mon 22/209       Fri 1777/0       68         874       d. Ch609 - Ch688       30 days       Mon 22/209       Fri 1777/0       68.7         875       a. Ch540 - Ch609       30 days       Mon 22/209       Fri 1777/0       68.7         876       a. Ch540 - Ch609       Sta days       Yang 24/209       68.7       68.7         877       a. Ch540 - Ch649       Sta days       Yang 24/209       68.7       69.7         877       a. Ch540 - Ch549       Sta days       Yang 24/209       69.7       Fri 1777/0       61.7075         878       b. Ch440 - Ch549       Sta days       Yang 24/209       67       62.86       67         879       a. Ch549 - Ch549       H34 days       Mon 22/209       Wed 84/00       68       67         880       d. Ch688 - Ch797       10 days       Sun 41/09       Fri 1777/0       67.97       66.3       67 </td <td>868</td> <td>d. Ch609 - Ch688</td> <td>50 days</td> <td>Sun 4/1/09</td> <td>Sun 22/2/09</td> <td>859</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	868	d. Ch609 - Ch688	50 days	Sun 4/1/09	Sun 22/2/09	859						
871       0. Ch23 - Ch340       30 days       Mon 18/509       Twe 18/609       865         872       0. Ch449 - Ch509       30 days       Wed 3/006       Tmu 2/709       866         873       0. Ch649 - Ch608       30 days       Mon 23/209       Twe 24/009       867         874       0. Ch649 - Ch608       30 days       Mon 23/209       Twe 24/009       868         875       0. Permaent Entrace at Ch449       7 days       Sati 11/700       868         877       0. Ch55 - Ch340       53 days       Twe 28/509       867         877       0. Ch54 - Ch509       53 days       Twe 28/509       867         877       0. Ch54 - Ch509       45 days       Twe 28/509       867         878       0. Ch449 - Ch509       45 days       Twe 28/509       867         879       0. Ch449 - Ch509       45 days       Mon 32/209       Wed 3/409       863         881       0. Ch609 - Ch688       45 days       Mon 23/209       Wed 3/409       863         883       0. Section III of the Works - Portions 5A1, 5A2 and 5B       50 days       F1 30/307       Twe 31/100         884       1.1 General site clearance       4 days       Mon 31/1207       Thu 31/08       F5,977,991,983,987,	869	e. Permanent Entrance at Ch449 to Ch464	23 days	Thu 18/6/09	Fri 10/7/09	716,783,866						
872       b. b. h449 c. b549       30 days       Wed 3609       Thu 27/09       866         873       a. c. b549 c. b609       30 days       Tu 14/09       Wed 3509       877         74       d. b. b60 c. b668       30 days       Sati 17/09       Fir 17/709       888         875       a. c. b540 c. b630       7 days       Sati 17/709       Fir 17/709       888, 922         876       11. Landscape softworks / hardworks / hardworks / hardworks / hardworks / hardworks / bardworks / b	870	18. Street furnitures	145 days	Mon 23/2/09	Fri 17/7/09	)						
873       c. ch549 - Ch609       30 day       Tue 14/409       Wed 13/509       867         874       d. Ch609 - Ch688       30 day       Mon 23/209       Tue 24/209       868         875       e. Permanent Entrance at Ch44y       7 day       S at 11/709       Fri 17/709       869.872         876       19. Landscape softworks/ hardworks       195 days       Sun 4/109       Fri 17/709       861.7045         877       a. ch35 - ch340       53 days       Tue 26/609       Fri 17/709       862.866         878       b. Ch449 - Ch699       -       45 days       Wed 3/409       663         878       d. Ch609 - Ch688       -       45 days       Wed 3/409       664         879       a. Ch589 - Ch697       -       45 days       Wed 3/409       663         878       a. Ch688 - Ch797       10 days       Sun 4/109       Tue 13/109       663         881       a. Ch689 - Ch797       Non 57/05       Fri 30/307       Mon 57/06       Fri 30/307         882       1. Site clearance       4 days       Mon 31/1207       Thu 31/06       Fri 30/307         885       1.1. General site clearance       4 days       Mon 31/1207       Thu 31/06       Son 27/507         886<	871	a. Ch233 - Ch340	30 days	Mon 18/5/09	Tue 16/6/09	865	-					
874       0. Ch609 - Ch688       30 days       Mon 23/209       Tue 24/309       868         875       0. Permanent Entrance at Ch449       7 days       Sati 11/709       Fin 17/709       808/82         876       10. Landscap softworks / hardworks       195 days       Stat 11/709       Fin 17/709       80.704         877       a. Ch54 - Ch549       5 da days       Tue 26/509       Fin 17/709       80.7045         878       b. Ch449 - Ch549       45 days       Tue 14/409       7 fin 17/709       802.886         879       o. Ch549 - Ch609       45 days       Mon 23/209       Ved 3/009       Fin 17/709       862.886         880       d. Ch609 - Ch688       45 days       Mon 23/209       Ved 3/009       863         881       e. Ch688 - Ch797       10 days       Sun 4/109       863         882       e. Ch688 - Ch797       10 days       Sun 4/109       863         883       d. Station Lif of the Works - Portions 5A1, 542 and 5B       80 days       Fin 30/307       Thu 3/108         885       1.1 General site clearance       4 days       Mon 31/207       Thu 3/108       Fin 30/307         885       1.1 General site clearance       4 days       Mon 31/207       Thu 3/108       Fin 30/307	872	b. Ch449 - Ch549	30 days	Wed 3/6/09	Thu 2/7/09	866	1					
875       e. Permanent Entrance at Ch449       7 day       Sat 117/09       Fri 177/09       868,872         876       19. Landscape softworks / hardworks       195 days       Sun 4/109       Fri 177/09       861,704 S         877       a. Ch35 - Ch340       53 days       Tue 26/509       Fri 177/09       861,704 S         877       b. Ch444 - Ch549       45 days       Tue 14/409       Fri 127/09       862,866         879       c. Ch549 - Ch609       45 days       Tue 13/109       863         881       c. Ch688 - Ch797       45 days       Mon 23/209       Wed 8/409       868         881       c. Ch688 - Ch797       10 day       Stri 11/109       863       663         882       D. Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/307       Mon 67/709         884       1. Site clearance       4 days       Mon 31/1207       Thu 31/108       97,977,981,983,987,989       Fri 30/307       Stri 10/30/07         885       2. Temporary Tarific Management Scherz       5 days       Stri 10/30/07       Stri 27/50       Stri 27/50         886       2. Temporary Tarific Management Scherz       5 days       Stri 27/50       Stri 27/50       Stri 27/50         886       2. Temporary Tarific	873	c. Ch549 - Ch609	30 days	Tue 14/4/09	Wed 13/5/09	867	1					
876       19. Landscape softworks / hardworks / h	874	d. Ch609 - Ch688	30 days	Mon 23/2/09	Tue 24/3/09	868	1					
877       a. Ch35 - Ch340       53 days       Tue 26/5/09       Fri 17/7/09       861,704SS         878       b. Ch449 - Ch549       45 days       Wed 3/6/09       Fri 17/7/09       862,866         879       c. Ch549 - Ch609       45 days       Tue 14/4/09       The 28/5/09       867         880       d. Ch609 - Ch688       45 days       Mon 23/2/09       Wed 8/4/09       868         881       e. Ch688 - Ch797       10 days       Sun 4/1/09       863         882       0. Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/307       Mon 67/709         884       1. Site clearance       4 days       Mon 31/12/07       Thu 31/108       75,977,981,983,987,989         885       1.1 General site clearance       59 days       Fri 30/307       Sun 27/507       Sun 27/507         886       2. Temporary Traffic Management Scherer       59 days       Fri 30/307       Sun 27/507       Sun 27/507         Project: PROGRAMME OF WORKS       Task       Project Surmary       Sulf ult Task       Rolled Up Critical Task       Rolled Up Progress       Extemal Task         980: 13       Critical Task       Critical Task       Sulf ult Task       Rolled Up Task       Rolled Up Critical Task       Rolled Up Progress       Extem	875	e. Permanent Entrance at Ch449	7 days	Sat 11/7/09	Fri 17/7/09	869,872	-					
878       b. Ch49 - Ch549       45 days       Wed 3/6/09       Fri 17/709       862,866         879       c. Ch549 - Ch609       45 days       Tue 14/4/09       Thu 28/5/09       867         880       d. Ch609 - Ch688       45 days       Mon 23/2/09       Wed 3/4/09       868         881       e. Ch688 - Ch797       10 days       Sun 4/1/09       Tue 13/109       863         882	876	19. Landscape softworks / hardworks	195 days	Sun 4/1/09	Fri 17/7/09							
879       c. Ch549 - Ch609       45 day       Tue 14/409       Thu 28/509       867         880       d. Ch609 - Ch688       45 day       Mon 23/209       Wed 8/409       868         881       e. Ch688 - Ch797       10 day       Sun 4/1/09       Tue 13/109       863         882       Image: Sum 2 monosity 1 monosity	877	a. Ch35 - Ch340	53 days	Tue 26/5/09	Fri 17/7/09	861,704SS						
880       d. Ch609 - Ch688 $45  days$ Mon 23/2/0       Wed 8/4/0       868         881       e. Ch688 - Ch797       10 days       Sun 4/1/0       Residue	878	b. Ch449 - Ch549	45 days	Wed 3/6/09	Fri 17/7/09	862,866	1					
881       e. Ch688 - Ch797       10 day       Sun 4/109       Tue 13/109       863         882       Image: Ch688 - Ch797       Image: Ch688 - Ch698 - Ch797       Image: Ch688 - Ch698	879	c. Ch549 - Ch609	45 days	Tue 14/4/09	Thu 28/5/09	867	-					
882       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Thu 3/1/08       975,977,981,983,987,989       Image: Section III of the Works - Portions 5A1, 5A2 and 5B       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Mon 31/12/07       Mon 31/12/07       Summary       Rolled Up Critical Task       Rolled Up Progress       External Tasks       External Tasks       Rolled Up Milestone       Rolled	880	d. Ch609 - Ch688	45 days	Mon 23/2/09	Wed 8/4/09	868						
883       D. Section III of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Mon 6/7/09       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       830 days       Fri 30/3/07       Thu 3/1/08       975,977,981,983,987,989       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Image: Comparison of the Works - Portions 5A1, 5A2 and 5B       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Mon 5/7/09       Image: Comparison of the Works - Portions 5A1,5A2 and 5B       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Mon 5/7/09	881	e. Ch688 - Ch797	10 days	Sun 4/1/09	Tue 13/1/09	863	1					
884       1. Site clearance       4 day       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Mon 31/12/07       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989       Mon 31/12/07       Mon 31/12/07       Sum 21/12/07       Mon 31/12/07       Sum 21/12/07       Mon 31/12/07	882						-					
885       1.1 General site clearance       4 day       Mon 31/12/07       Thu 3/1/08       975,977,981,983,987,989         886       2. Temporary Traffic Management Scheme       59 day       Fri 30/3/07       Sun 27/5/07       Sun 27/5/07         Project: PROGRAMME OF WORKS       Task       Progress       Summary       Rolled Up Critical Task       Rolled Up Progress       External Tasks         Page: 13 of 15       Critical Task       Milestone       Rolled Un Task       Rolled Un Milestone       Split       Project Summary	883	D. Section III of the Works - Portions 5A1, 5A2 and 5B	830 days	Fri 30/3/07	Mon 6/7/09	1	-					
886       2. Temporary Traffic Management Scheme       59 days       Fri 30/3/07       Sun 27/5/07         Project: PROGRAMME OF WORKS       Task       Progress       Summary       Rolled Up Critical Task       Rolled Up Progress       External Tasks       External Tasks         Page: 13 of 15       Critical Task       Milestone       Rolled Up Task       Rolled Up Milestone       Split       Project: Summary	884	1. Site clearance	4 days	Mon 31/12/07	Thu 3/1/08	1	-					
886       2. Temporary Traffic Management Scheme       59 days       Fri 30/3/07       Sun 27/5/07         Project: PROGRAMME OF WORKS       Task       Progress       Summary       Rolled Up Critical Task       Rolled Up Progress       External Tasks       External Tasks         Page: 13 of 15       Critical Task       Milestone       Rolled Up Task       Rolled Up Milestone       Split       Project: Summary	885	1.1 General site clearance	4 days	Mon 31/12/07	Thu 3/1/08	975,977,981,983,987,989	-					
Project Prodocaminic OF WORKS	886	2. Temporary Traffic Management Scheme		Fri 30/3/07	Sun 27/5/07	,	-					1
Project Prodocaminic OF WORKS											······	Taalu
		2 of 15		-		-					-	
	rage: 1	3 or 15 Critical Task		Milesto	one	Rolled Up	Task	Rolled Up Mile	stone	Split	Project S	ummary

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Group By Summary	

ID	Task Name	Duration	Start	Finish	Predecessors	Aug Sep	Oct
887	TTMS Proposal (trial pits for utilities and site entrance in Kam	Sr 59 days	Fri 30/3/07	Sun 27/5/07		Aug Sep	
888	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	255		
889	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 10/6/07			
890	3. Excavation Permits	741 days	Mon 28/5/07	Sat 6/6/09			
891	3.1 application and issue of permit (trial pits for utilities and	60 days	Mon 28/5/07	Thu 26/7/07	889		
892	temporary site entrance in Kam Sheung Road) 3.2 application and issue of permits (for construction of	180 days	Tue 9/12/08	Sat 6/6/09	7FS-221 days		
893	permanent entrance) 4. Underground utilities detection	42 days	Fri 29/6/07	Thu 9/8/07		-	
894	a. utilities detection	2 days	Fri 29/6/07	Sat 30/6/07			
895	b. trial trench excavtion & identification	14 days	Fri 27/7/07	Thu 9/8/07	891,894		
896	5. Utilities temporary diversion / protection	466 days	Thu 26/7/07	Sun 2/11/08			
897	a. Completion of WSD 450 diameter water main (By WSD)	1 day	Thu 26/7/07	Thu 26/7/07			
898	b. Telephone line	87 days	Fri 8/8/08	Sun 2/11/08	906SS,911FF,895	257 days	
899	6. Drainage Management Plan	679 days	Fri 30/3/07	Thu 5/2/09			
900	a Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07	684SS		
901	b Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	900		
902	c Implementation of DMP	558 days	Sun 29/7/07	Thu 5/2/09	901,686FF		
903	7.1 Channel - Ch340-Ch429 (Bay 31 - Bay 34)	319 days	Thu 20/12/07	Sun 2/11/08			
904	Haul access	15 days	Thu 20/12/07		975,885FF		
905	Flow diversion	46 days	Fri 4/4/08	Mon 19/5/08			
906	Excavation (including contamination material)	70 days	Tue 20/5/08		738,904,905		
907	Granular Bedding	70 days	Mon 9/6/08		906SS+20 days		
908	Base Slab	77 days	Mon 23/6/08		907SS+14 days		
909	Wall and Deck	77 days	Mon 14/7/08		908SS+21 days		
910	Curing	84 days	Mon 21/7/08		909SS+7 days		
911	Trench Backfill	91 days	Mon 4/8/08		910SS+14 days	- ays)	
912	7.2 Channel Bay 35	76 days	Sat 15/11/08	Thu 29/1/09			
913	Excavation	10 days	Sat 15/11/08	Mon 24/11/08			
914	Granular Bedding Base Slab	7 days	Tue 25/11/08	Mon 1/12/08			
915	Wall and Deck	14 days	Tue 2/12/08	Mon 15/12/08			
916 917	Curing	21 days 14 days	Tue 16/12/08 Tue 6/1/09	Mon 5/1/09 Mon 19/1/09			
918	Trench Backfill	10 days	Tue 20/1/09	Thu 29/1/09			
919	8. Demolition of existing structures	447 days	Sun 26/8/07	Fri 14/11/08			
920	a. Existing wing walls Ch439 (Bay35)	14 days	Sat 1/11/08	Fri 14/11/08		-	0
921	b. Existing footbridge at Ch350 (Bay 29)	2 days	Sun 26/8/07		757SS-2 days		Ū
922	9. Gabion	124 days	Mon 13/10/08	Fri 13/2/09		29 days	↓
923	10. Granite Stone Facing (Bay 35)	3 days	Tue 29/7/08	Thu 31/7/08			
924	11. Fill in Platform	88 days	Fri 30/1/09	Mon 27/4/09	911,918		
925	12. Drainage works	98 days	Mon 9/2/09	Sun 17/5/09			
926	a. storm drain with manhole	35 days	Mon 9/2/09	Sun 15/3/09	924SS+10 days		
927	b. surface drain	20 days	Tue 28/4/09	Sun 17/5/09	924		
928	13. Roads and paving	40 days	Tue 28/4/09	Sat 6/6/09	924,926		
929	14. Permanent Entrance, road marking and street furnitures at	C 30 days	Sun 7/6/09	Mon 6/7/09	892,928		
930	15. Street furnitures(Bay 31 to Bay 34) / traffic sign / road mar	kir 40 days	Thu 28/5/09	Mon 6/7/09	928SS+30 days		
931	16. Landscape softworks / hardworks	50 days	Mon 18/5/09	Mon 6/7/09	927		
932	17. Temp vehicular access in Portion 5A1	191 days	Wed 26/9/07	Thu 3/4/08		-	
933	a. Maintenance and operation	188 days	Wed 26/9/07	Mon 31/3/08		-	
934	b. Removal	3 days	Tue 1/4/08	Thu 3/4/08	933		
935						1	
936	E. Section IV of the Works	20 days	Thu 6/9/07	Tue 25/9/07			
937	1. Formation for temp vehicular access	2 days	Thu 6/9/07	Fri 7/9/07			
938	2. Construction of temp vehicular access	17 days	Sat 8/9/07	Mon 24/9/07	937,11FF-1 day		
939	3. Opening of temp vehicular access to the Public	1 day	Tue 25/9/07	Tue 25/9/07	938		
940	E. Sontion V of the Works, Preservation and anti-stick to the	040	Set 24/0/07	E.: 43/3/64			
941	F. Section V of the Works - Preservation and protection to existing trees	840 days	Sat 31/3/07	Fri 17/7/09			
942	1. Portion 1	840 days	Sat 31/3/07	Fri 17/7/09			
943	1.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	15		
944	1.2 Tree transplant	791 days	Sat 19/5/07	Fri 17/7/09			
		62 days	Sat 19/5/07	Thu 19/7/07			
945	a. To Temp holding nursery				331FF		
946	b. To final location	37 days	Thu 11/6/09	Fri 17/7/09			
946 947	b. To final location 1.3 Tree protection	37 days 62 days	Sat 19/5/07	Thu 19/7/07	945SS		
946 947 948	b. To final location 1.3 Tree protection 2. Portion 2	37 days 62 days <b>780 days</b>	Sat 19/5/07 Wed 30/5/07	Thu 19/7/07 Fri 17/7/09	945SS		
946 947 948 949	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey	37 days           62 days           780 days           14 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07	945SS 16		
946 947 948 949 950	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant	37 days           62 days           780 days           14 days           766 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09	945SS 16		
946 947 948 949 950 951	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant a. To Temp holding nursery	37 days           62 days           780 days           14 days           766 days           62 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07 Wed 13/6/07	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09 Mon 13/8/07	945SS 16 949,214,228		
946 947 948 949 950	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant	37 days           62 days           780 days           14 days           766 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09	945SS 16 949,214,228		
946 947 948 949 950 951 952	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant a. To Temp holding nursery b. To final location	37 days           62 days           780 days           14 days           766 days           62 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07 Wed 13/6/07 Sun 8/3/09	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09 Mon 13/8/07 Fri 17/7/09	945SS 16 949,214,228 446FF		Taaka
946 947 948 949 950 951 952 Project	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant a. To Temp holding nursery b. To final location PROGRAMME OF WORKS Task	37 days           62 days           780 days           14 days           766 days           62 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07 Wed 13/6/07 Sun 8/3/09 Progree	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09 Mon 13/8/07 Fri 17/7/09	945SS 16 949,214,228 446FF Summary		
946 947 948 949 950 951 952 Project	b. To final location 1.3 Tree protection 2. Portion 2 2.1 Tree survey 2.2 Tree transplant a. To Temp holding nursery b. To final location	37 days           62 days           780 days           14 days           766 days           62 days	Sat 19/5/07 Wed 30/5/07 Wed 30/5/07 Wed 13/6/07 Wed 13/6/07 Sun 8/3/09	Thu 19/7/07 Fri 17/7/09 Tue 12/6/07 Fri 17/7/09 Mon 13/8/07 Fri 17/7/09	945SS 16 949,214,228 446FF		



ID	Task Name	Duration	Start	Finish	Predecessors	Aug	Sep	Oct
953	2.3 Tree protection	62 days	Wed 13/6/07	Mon 13/8/07	951SS	nuy	0eb	 
954	3. Portion 3	750 days	Fri 29/6/07	Fri 17/7/09				
955	3.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	17			
956	3.2 Tree transplant	736 days	Fri 13/7/07	Fri 17/7/09				
957	a. To Temp holding nursery	64 days	Fri 13/7/07	Fri 14/9/07	955,214			
958	b. To final location	301 days	Sat 20/9/08	Fri 17/7/09	647FF		0 days	
959	3.3 Tree protection	64 days	Fri 13/7/07	Fri 14/9/07	957SS		<b>C</b>	
960	4. Portion 4	840 days	Sat 31/3/07	Fri 17/7/09				
961	4.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	18			
962	4.2 Tree transplant	791 days	Sat 19/5/07	Fri 17/7/09				
963	a. To Temp holding nursery	62 days	Sat 19/5/07	Thu 19/7/07	961,214			
964	b. To final location	53 days	Tue 26/5/09	Fri 17/7/09	704FF			
965	4.3 Tree protection	62 days	Sat 19/5/07	Thu 19/7/07	963SS			
966	5. Portion 5	750 days	Fri 29/6/07	Fri 17/7/09				
967	5.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	19			
968	5.2 Tree transplant	736 days	Fri 13/7/07	Fri 17/7/09				
969	a. To Temp holding nursery	69 days	Fri 13/7/07	Wed 19/9/07	967,214			
970	b. To final location	195 days	Sun 4/1/09	Fri 17/7/09	876FF			
971	5.3 Tree protection	69 days	Fri 13/7/07	Wed 19/9/07	969SS			
972	6. Portion 5A1	739 days	Fri 29/6/07	Mon 6/7/09				
973	6.1 Tree survey	7 days	Fri 29/6/07	Thu 5/7/07	20			
974	6.2 Tree transplant	732 days	Fri 6/7/07	Mon 6/7/09				
975	a. To Temp holding nursery	62 days	Fri 6/7/07	Wed 5/9/07	973,214			
976	b. To final location	61 days	Thu 7/5/09	Mon 6/7/09	931FF			
977	6.3 Tree protection	62 days	Fri 6/7/07	Wed 5/9/07	975SS			
978	7. Portion 5A2	739 days	Fri 29/6/07	Mon 6/7/09				
979	7.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	21			
980	7.2 Tree transplant	725 days	Fri 13/7/07	Mon 6/7/09				
981	a. To Temp holding nursery	62 days	Fri 13/7/07	Wed 12/9/07	979,214			
982	b. To final location	61 days	Thu 7/5/09	Mon 6/7/09	931FF			
983	7.3 Tree protection	62 days	Fri 13/7/07	Wed 12/9/07	981SS			
984	8. Portion 5B	630 days	Tue 16/10/07	Mon 6/7/09				
985	8.1 Tree survey	14 days	Tue 16/10/07	Mon 29/10/07				
986	8.2 Tree transplant	616 days	Tue 30/10/07	Mon 6/7/09				
987	a. To Temp holding nursery	62 days	Tue 30/10/07	Sun 30/12/07				
988	b. To final location	61 days	Thu 7/5/09	Mon 6/7/09				
989	8.3 Tree protection	62 days	Tue 30/10/07	Sun 30/12/07	987SS			
990								
991	G. Berthing Area	148 days	Mon 14/5/07	Mon 8/10/07				
992	1. Construction of Loading Facilities	27 days	Wed 12/9/07	Mon 8/10/07				
993	2. Removal of Loading Facilities	2 days	Mon 14/5/07	Tue 15/5/07				
994	3. Reinstatement of Berthing Area	7 days	Wed 16/5/07	Tue 22/5/07	993			

Project: PROGRAMME OF WORKS	Task	Progress	Summary	Rolled Up Critical Task	Rolled Up Progress	External Tasks	
Page: 15 of 15	Critical Task	Milestone	Rolled Up Task	Rolled Up Milestone	Split	Project Summary	

CHIT CHEUNG CON	STRUCTION CO., LTD. DATE : MAY 2008
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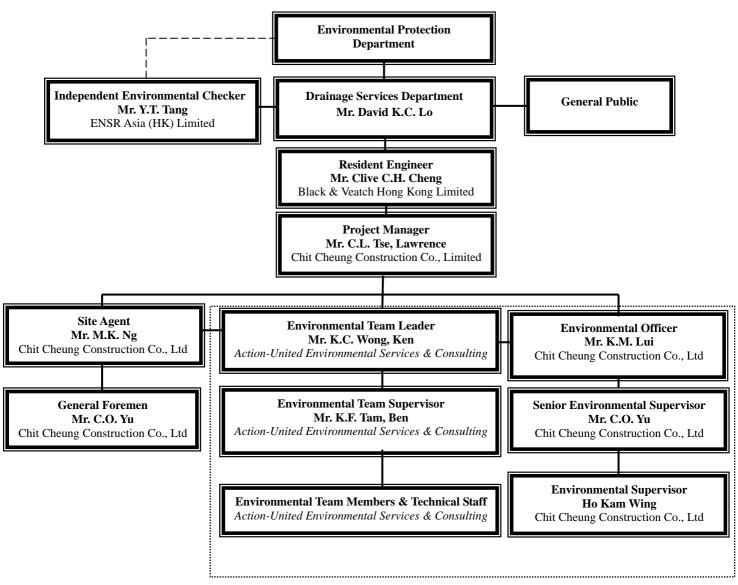


# **APPENDIX C**

### **ENVIRONMENTAL ORGANIZATION STRUCTURE**



#### **Environmental Organization Structure**



Contractor's Environmental Team (CET)



#### **Contact Details of Key Personnel**

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. David K.C. LO	2594-7254	2827-8526
B&V	Engineer	Mr. Kelvin N.F. LAU	2601-1000	2601-3988
B&V	Engineer's Representative	Mr. Clive C.H. CHENG	2478-9161	2478-9396
ENSR	Independent Environmental Checker	Mr. Y.T. Tang	3105-8537	2891-0305
CCC	Project Director	Mr. P.Y. CHENG	9023-4821	2403-1162
CCC	Project Manager	Mr. Lawrence TSE	9752-0748	2479-1365
CCC	Site Agent	Mr. M.K. NG	6603-9711	2479-1365
CCC	Site Engineer	Mr. Jimmy CHAN	9234-8632	2479-1365
CCC	Environmental Officer	Mr. LUI Kam Man	9257-9111	2479-1365
CCC	Senior Environmental Supervisor	Mr. YU Chor-on	9026-9501	2479-1365
CCC	Environmental Supervisor	Ho Kam Wing	9016-0592	2479-1365
CCC	Safety Officer	Mr. SHEA Yan Keung	6086-4658	2479-1365
AUES	Environmental Team Leader	Ken Wong	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Ben Tam	2959-6059	2959-6079
AUES	Ecologist	Vincent Lai	9406-9784	2959-6079
AUES	Decontamination Specialist	FN Wong	2959-6059	2959-6079

Legend:

DSD (Employer) B&V (Engineer) CCC (Contractor) ENSR (IEC) AUES (ET)

Drainage Services Department

Black & Veatch Bong Kong Limited Chit Cheung Construction Company Limited. ENSR Asia (HK) Ltd. -

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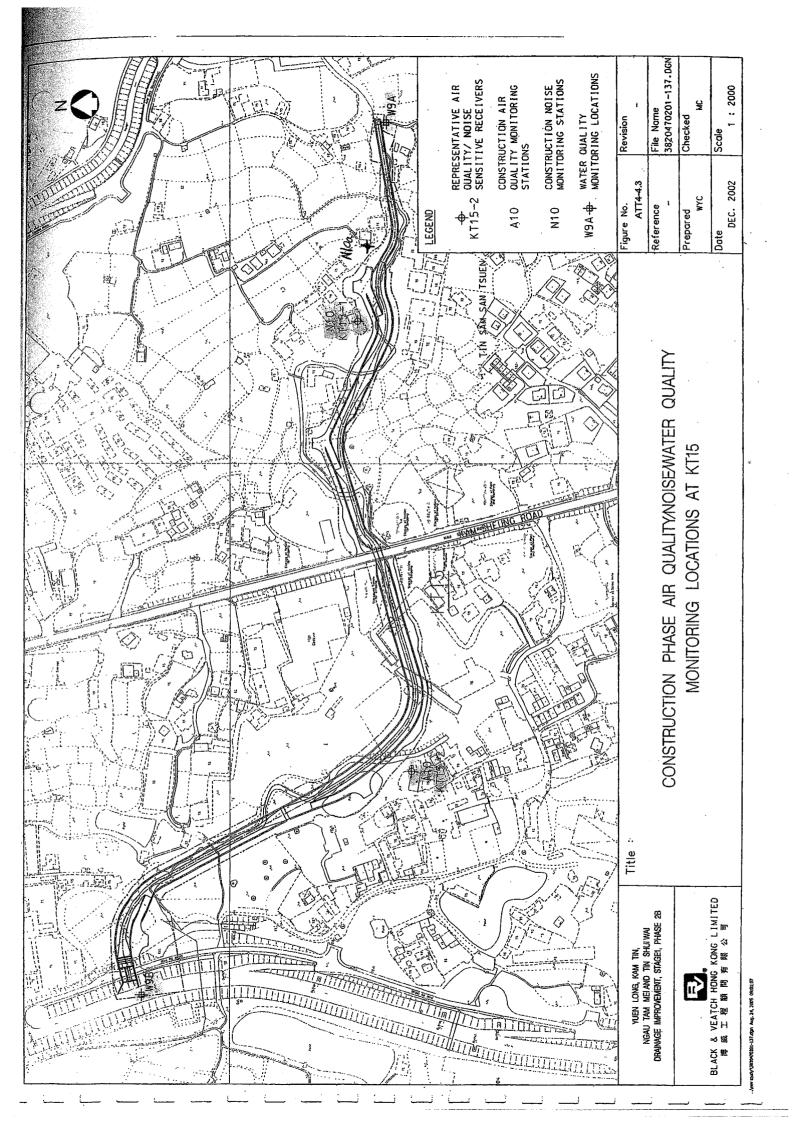
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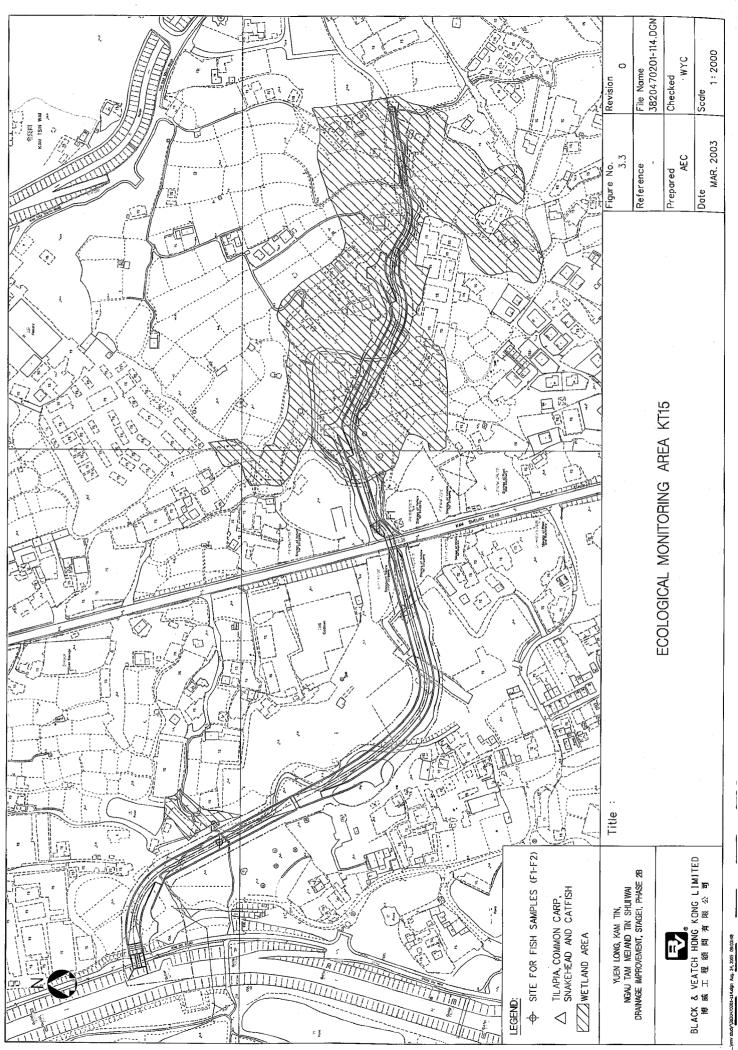
Action-United Environmental Services & Consulting



# **APPENDIX D**

# LOCATIONS OF DESIGNATED MONITORING STATION/LOCATIONS/AREA







## **APPENDIX E**

# **EVENT/ACTION PLAN FOR AIR QUALITY, CONSTRUCTION NOISE,** STREAM WATER QUALITY AND ECOLOGY



### **Event/Action Plan for Air Quality**

EVENT		ACTION		
EVENI	ET	IEC	Engineer	Contractor
ACTION LEVEL				
Exceedance for one sample	Identify source     Inform IEC and Engineer     Repeat measurement to     confirm finding     Increase monitoring     frequency to daily	<ol> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> </ol>	Notify Contractor	<ol> <li>Rectify any unacceptable practice</li> <li>Amend working methods if appropriate</li> </ol>
<ol> <li>Exceedance for two or more consecutive samples</li> </ol>	<ol> <li>Identify source</li> <li>Inform IEC and Engineer</li> <li>Repeat measurements to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Discuss with IEC and Contractor on remedial actions required</li> <li>If exceedance continues, arrange meeting with IEC and Engineer</li> <li>T. If exceedance stops, cease additional monitoring</li> </ol>	<ol> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advice Engineer on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>
LIMIT LEVEL				
<ol> <li>Exceedance for one sample</li> </ol>	<ol> <li>Identify source</li> <li>Inform Engineer and EPD</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results</li> </ol>	<ol> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advice Engineer on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, Engineer and EPD</li> <li>Identify source</li> <li>Repeat measurement to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Arrange meeting with IEC and Engineer to discuss the remedial actions to be taken</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol> <li>Discuss amongst Engineer, ET and Contractor on potential remedial actions</li> <li>Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>Discuss amongst Environmental Team Leader and the Contractor potential remedial actions</li> <li>Ensure remedial measures properly implemented</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Resubmit proposals</li> <li>Resubmit proposals</li> <li>Stop the relevant portion of works as determined by the Engineer until the exceedance is abated</li> </ol>



abated

#### ACTION EVENT IEC Contractor **ET Leader** Engineer Review the analysed results submitted by ET Confirm receipt of notification of failure in Notify Contractor and Submit noise 1. 1 1. ACTION LEVEL Engineer mitigation Carry out investigation 2. Review the proposed writing Notify Contractor proposals for 2. 3. remedial measures by the Report the results of remedial actions to Contractor and advice the Engineer accordingly Require Contractor to propose remedial measures for the investigation to the IEC and 3. IEC 2. Implement the Contractor 4. Discuss with the Contractor 3 Supervise agreed proposals analysed noise problem Ensure remedial implementation of and formulate remedial measures Increase monitoring remedial measures 4 5. measures properly frequency to check mitigation effectiveness implemented Notify IEC, Engineer, EPD and Contractor Discuss amongst Engineer, ET and Contractor on Confirm receipt of notification of failure in Take immediate action to avoid 1. 1. 1. 1. LIMIT LEVEL Identify source writing Notify Contractor Require Contractor to 2 potential remedial actions Review Contractor's further exceedance Submit proposals for remedial actions 3. Repeat measurement to 2. 2. 2. 3. remedial actions whether confirm findings 4. 5. Increase monitoring frequency necessary to assure their propose remedial to IEC within 3 Carry out analysis of Contractor's working procedures to determine working days of notification effectiveness and advice measures for the analysed noise problem Ensure remedial the Engineer accordingly Implement the agreed proposals 3. 4. Supervise implementation 3. possible mitigation to be of remedial measures measures properly 4. implemented Inform IEC, Engineer and implemented If exceedance Resubmit proposals if problem still not 6. 5. EPD the causes & actions continues, consider under control taken for the exceedances what portion of the 5. Stop the relevant work is responsible and instruct the Contractor 7. Assess effectiveness of portion of works as determined by the Contractor's remedial actions and keep IEC, EPD and to stop that portion of work until the Engineer until the exceedance is Engineer informed of the

exceedance is abated

**Event/Action Plan for Construction Noise** 

results

If exceedance stops, cease additional monitoring

8.



#### **Event and Action Plan for Stream Water Quality**

Event	ET Leader	IEC	Engineer	Contractor
ACTION LEVEL (being exceeded by one sampling day)	<ol> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC and Contractor</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC and Contractor</li> <li>Repeat measurement on next day of exceedance</li> </ol>	<ol> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Discuss with IEC on the proposed mitigation measures</li> <li>Make agreement on the mitigation measures to be implemented</li> </ol>	<ol> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET and Contractor and propose mitigation measures to IEC and Engineer</li> <li>Implement the agreed mitigation measures</li> </ol>
ACTION LEVEL (being exceeded by more than one sampling day)	<ol> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC, Contractor and EPD</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC, Engineer and Contractor</li> <li>Repeat measurement on next day of exceedance</li> <li>Prepare to increase the monitoring frequency to daily</li> <li>Repeat measurement on next day of exceedance</li> </ol>	<ol> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Discuss with IEC on the proposed mitigation measures</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and Engineer within 3 working days</li> <li>Implement the agreed mitigation measures</li> </ol>
LIMIT LEVEL (being exceeded by one sampling days)	<ol> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC, Contractor and EPD</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC, Engineer and Contractor</li> <li>Ensure mitigation measures are implemented</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level</li> </ol>	<ol> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures</li> <li>Request Contractor to critically review the working methods</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days</li> <li>Implement the agreed mitigation measures</li> </ol>
LIMIT LEVEL (being exceeded by more than one sampling days)	<ol> <li>Repeat in-situ measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform Contractor, Engineer, IEC and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, Engineer and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level</li> </ol>	<ol> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures</li> <li>Request Contractor to critically review the working methods</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until daily until no exceedance of Limit level</li> </ol>	<ol> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days Propose mitigation measures to Engineer within 3 working days</li> <li>Implement the agreed mitigation measures;</li> <li>As directed by Engineer, to slow down or to stop all or part of the construction activities</li> </ol>



### **Event/Action Plan for Ecology**

Event	ET Leader	IEC	Engineer	Contractor
Fauna The total number of species or individuals of the surveyed wetland dependent faunal groups is reduced by 20-40% from baseline	<ul> <li>Notify IEC and Contractor;</li> <li>Check the position and state of the current works to identify the causes;</li> <li>Discuss mitigation measures with IEC and Contractor</li> </ul>	<ul> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ul>	<ul> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Reach agreement on the mitigation measures to be implemented</li> </ul>	<ul> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Take immediate action to avoid further exceedances;</li> <li>Check all plant and equipment and working methods, especially noise emanating ones</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and Engineer</li> <li>Implement the agreed mitigation measures</li> </ul>



# **APPENDIX F**

## **EQUIPMENT CALIBRATION CERTIFICATES**



Equipment Calibration List for Construction of Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai Project

Items	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1	Air	Greasby Anderson GMWS2310 High Volume Sampler	07 Jul 08	07 Sep 08
2		EQ094 - Sibata LD-3 Laser Dust Meter	20 Jun 08	19 Jun 09
3		EQ096 - Sibata LD-3 Laser Dust Meter	20 Jun 08	19 Jun 09
4	Noise	Bruel & Kjaer 4231 Acoustical Calibrator	22 Apr 08	22 Apr 09
5		Bruel & Kjaer 2238 Integrating Sound Level Meter	22 Apr 08	22 Apr 09
6	Water	YSI Multimeter YSI 550A (Serial No. 05F2063AZ)	16 Jul 08	16 Oct 08
7		Hanna pH Meter HI98107 (Serial No. 388220)	27 Jun 08	27 Sep 08
8		Turbidimeter HACH 2100p (Serial No. 911100342)	05 Jun 08	05 Sep 08
9		Hand refractometer ATAGO (Serial No. 289468)	17 Jul 08	17 Oct 08

Note: \*Calibration certificates will only be provided if monitoring equipment is re-calibrated or new.



# APPENDIX G

## **IMPACT MONITORING SCHEDULES**



Data		Air (	Quality	Noize Leg 20min	Stream Water	Eacle or Guinner
Date		1-Hour TSP		Noise Leq 30min	Quality	Ecology Surveys
26-Aug-08	Tue				$\checkmark$	
27-Aug-08	Wed					
28-Aug-08	Thu					
29-Aug-08	Fri	✓		✓	$\checkmark$	
30-Aug-08	Sat		$\checkmark$			
31-Aug-08	Sun					
1-Sep-08	Mon					
2-Sep-08	Tue				$\checkmark$	
3-Sep-08	Wed					
4-Sep-08	Thu	$\checkmark$		$\checkmark$	$\checkmark$	
5-Sep-08	Fri		$\checkmark$			
6-Sep-08	Sat					
7-Sep-08	Sun					
8-Sep-08	Mon					
9-Sep-08	Tue				~	
10-Sep-08	Wed	$\checkmark$		$\checkmark$		
11-Sep-08	Thu		$\checkmark$		~	
12-Sep-08	Fri					
13-Sep-08	Sat					
14-Sep-08	Sun					
15-Sep-08	Mon					
16-Sep-08	Tue				$\checkmark$	
17-Sep-08	Wed	$\checkmark$		$\checkmark$		
18-Sep-08	Thu		$\checkmark$		~	
19-Sep-08	Fri					
20-Sep-08	Sat					
21-Sep-08	Sun					
22-Sep-08	Mon					$\checkmark$
23-Sep-08	Tue	$\checkmark$		$\checkmark$		
24-Sep-08	Wed		✓		~	
25-Sep-08	Thu					

#### **Impact Monitoring Schedules in this Reporting Period**

✓	Monitoring Day
	Sunday or Public Holiday



Date		Air (	Juality	Noise Leq 30min	Stream Water	Ecology Surveys
Date		1-Hour TSP	24-Hour TSP	Noise Leq Somm	Quality	Ecology Surveys
26-Sep-08	Fri				$\checkmark$	
27-Sep-08	Sat					
28-Sep-08	Sun					
29-Sep-08	Mon	✓		$\checkmark$		
30-Sep-08	Tue		$\checkmark$		$\checkmark$	
1-Oct-08	Wed					
2-Oct-08	Thu				$\checkmark$	
3-Oct-08	Fri					
4-Oct-08	Sat					
5-Oct-08	Sun					
6-Oct-08	Mon	✓		✓	$\checkmark$	
7-Oct-08	Tue					
8-Oct-08	Wed		$\checkmark$			
9-Oct-08	Thu				$\checkmark$	
10-Oct-08	Fri					
11-Oct-08	Sat					$\checkmark$
12-Oct-08	Sun					
13-Oct-08	Mon	$\checkmark$		$\checkmark$	$\checkmark$	
14-Oct-08	Tue		$\checkmark$			
15-Oct-08	Wed				$\checkmark$	
16-Oct-08	Thu					
17-Oct-08	Fri					
18-Oct-08	Sat	$\checkmark$		$\checkmark$		
19-Oct-08	Sun					
20-Oct-08	Mon		$\checkmark$		$\checkmark$	
21-Oct-08	Tue					
22-Oct-08	Wed				$\checkmark$	
23-Oct-08	Thu					
24-Oct-08	Fri	$\checkmark$		$\checkmark$		
25-Oct-08	Sat		$\checkmark$			

#### **Impact Monitoring Schedules in the Next Reporting Period**

$\checkmark$	Monitoring Day
	Sunday or Public Holiday

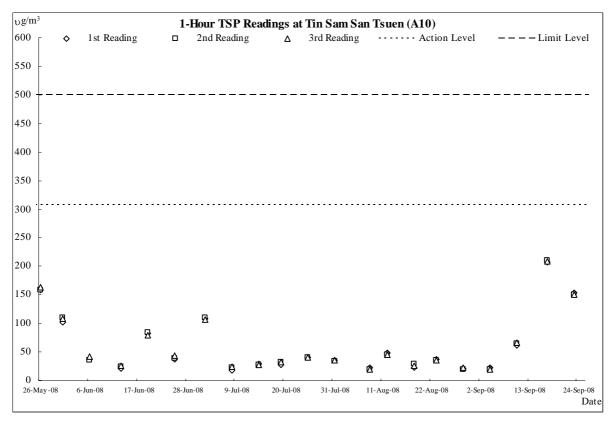


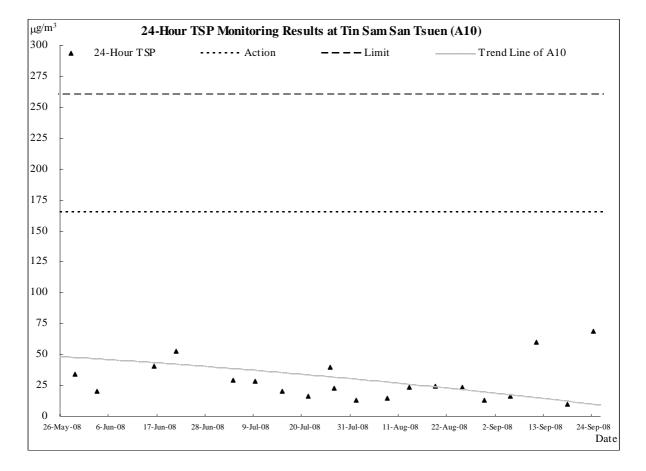
# **APPENDIX H**

### **GRAPHICAL PLOTS OF AIR QUALITY, CONSTRUCTION NOISE AND** STREAM WATER QUALITY MONITORING RESULTS



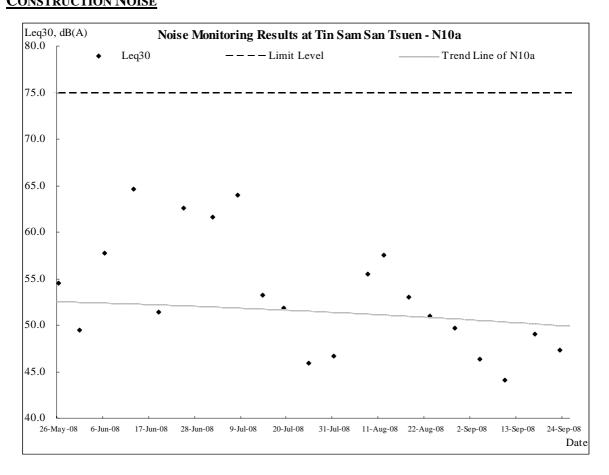
AIR QUALITY





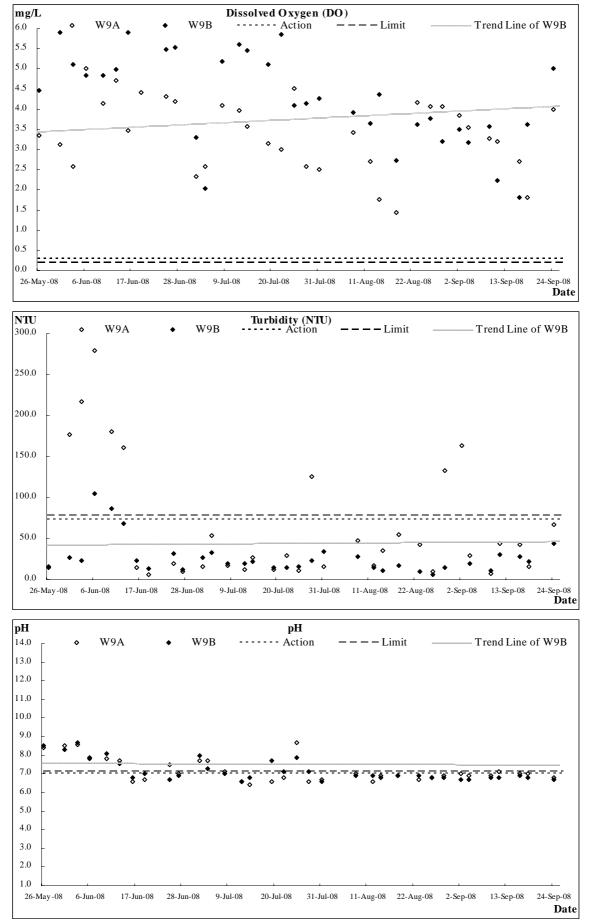


**CONSTRUCTION NOISE** 





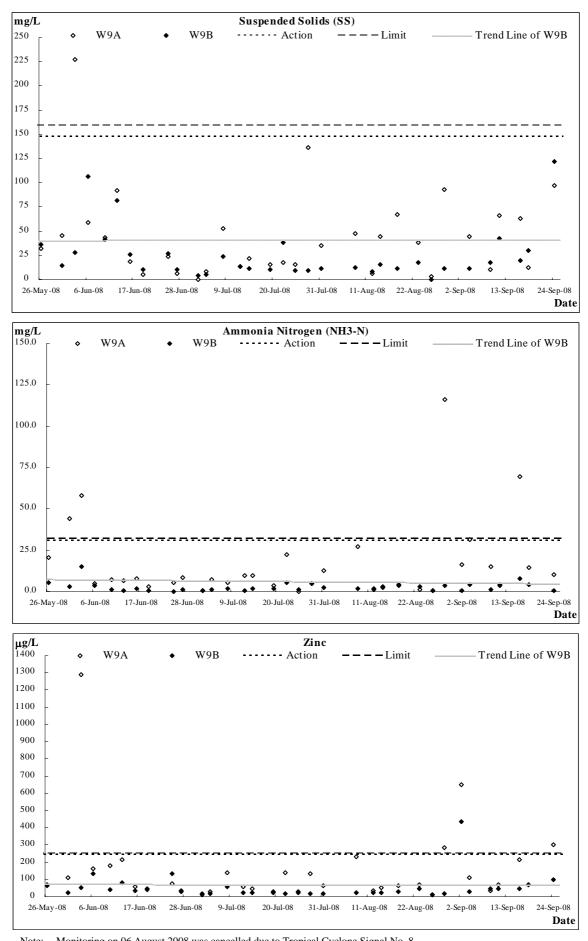
#### STREAM WATER QUALITY



DSD Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai



KT15 – Monthly EM&A Report for September 2008 (No. 15)



Note: Monitoring on 06 August 2008 was cancelled due to Tropical Cyclone Signal No. 8 Monitoring on 23 September 2008 was cancelled due to Tropical Cyclone, Heavy Rainfall and Thunderstorm Signal Warning.

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Date	20	6-Aug-08													
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	<b>DOS</b> (%)	Turbidity (NTU)	Salinity	рН	SS	NH3-N	Zinc				
W9A	12:20	0.21	28.3 28.3 28.3	<u>4.02</u> 4.09 4.06	<u>49.7</u> 50.4 50.1	<u>10.9</u> 8.7 9.8	0 0.0	6.80 6.80 6.80	3.0	0.5	13.0				
W9B	12:40	0.36	<u>29.2</u> 29.2 29.2	<u>3.77</u> <u>3.78</u> 3.78	<u>47.2</u> 47.4 47.3	<u>6.7</u> <u>4.3</u> 5.5	0 0.0	6.80 6.80 6.80	<2	0.4	11.0				
Date	29 Time		<b>T</b>				G - 1''4		SS	NILO N	7.				
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	pH	55	NH3-N	Zinc				
W9A	14:30	0.12	<u>29.1</u> 29.1 29.1	4.07         4.06           4.04         4.06	<u>51.4</u> 50.7 51.1	<u>134.0</u> 132.0 133.0	0 0.0	6.90 6.90 6.90	93.0	116.0	285.0				
W9B	14:00	0.27	<u>29.2</u> 29.2 29.2	<u>3.22</u> <u>3.18</u> 3.20	44.5 44.1	<u>14.7</u> 14.4 14.6	0 0.0	6.80 6.80 6.80	11.0	3.7	18.0				
Date	Date 2-Sep-08														
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	<b>DOS</b> (%)	Turbidity (NTU)	Salinity	рН	SS	NH3-N	Zinc				
W9A	14:40	0.16	<u>28.7</u> 28.7 28.7	<u>3.86</u> <u>3.84</u> 3.85	<u>47.2</u> 46.9 47.1	$\frac{167.0}{161.0}$ 164.0	0 0.0	7.00 7.00 7.00	255.0	16.4	651.0				
W9B	14:25	0.34	<u>29.2</u> 29.2 29.2	<u>3.53</u> 3.47 3.50	<u>41.6</u> 40.5 41.1	727.0 715.0 <b>721.0</b>	0 0.0	<u>6.70</u> 6.70 6.70	489.0	0.6	438.0				
				1 1							<u>,</u>				
Date	4	-Sep-08													
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU) Salinity		pH	SS	NH3-N	Zinc				
W9A	12:20	0.13	28.9 28.9 28.9	<u>3.54</u> <u>3.56</u> 3.55	<u>43.9</u> 44.3 44.1	<u>29.6</u> 29.1 29.4	0 0.0	6.90 6.90	44.0	31.6	109.0				
W9B	12:35	0.29	<u>29.1</u> 29.1 29.1	<u>3.17</u> <u>3.2</u> 3.19	40.5 40.7	<u>20.1</u> 18.3 19.2	0 0.0	6.70 6.70 6.70	11.0	4.3	27.0				
							1 ~ 1		1	1					
Date	9	-Sep-08													
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	<b>DOS</b> (%)	Turbidity (NTU)	Salinity	pН	SS	NH3-N	Zinc				
W9A	12:00	0.11	<u>27.5</u> 27.5 27.5	<u>3.26</u> <u>3.28</u> 3.27	40.6 40.4	7.3 7.1	0 0.0	6.90 6.90 6.90	10.0	15.4	34.0				
W9B	12:10	0.18	27.3 27.3 27.3	3.59 3.57 3.58	<u>44.6</u> 44.2 44.4	<u>11.2</u> 11.4	0 0.0	6.80 6.80 6.80	18.0	1.4	44.0				
	·														
Date	1	1-Sep-08													
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	рН	SS	NH3-N	Zinc				
W9A	11:50	0.18	28.6 28.6 28.6	<u>3.21</u> <u>3.18</u> 3.20	<u>44.3</u> 43.6 44.0	<u>43.4</u> 43.2 43.3	0 0.0	7.10 7.10	66.0	4.5	72.0				

31.2

30.8

6.80

6.80

6.80

42.0

3.5

49.0

0

0

31.0

0.0

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0.31

12:05

W9B

29.2

29.2

2.24

2.22

2.23

29.2

25.8

25.2

25.5

Date	1	6-Sep-08															
Location	Time	Depth (m)	Ten	np (oC)	DO	DO (mg/L)		b) <b>DOS</b> (%)		Turbidity (NTU)		) Salinity		pН		NH3-N	Zinc
W9A	11.25	0.16	29.4	29.4	2.72	2.71	38.4	38.2	42.5	42.3	0	0.0	7.00	7.00	63.0	69.6	216.0
W9A	11.23	0.10	29.4	29.4	2.7	2.71	38.0	30.2	42.1	42.5	0	0.0	7.00	7.00	05.0	09.0	210.0
W9B	11:45	0.28	29.6	29.6	1.81	1.80	26.4	26.1	28.7	28.5	0	0.0	6.90	( 00	20.0	8.0	47.0
W9B	11:45	0.28	29.6	29.0	1.79	1.80	25.8	26.1	28.3	28.5	0	0.0	6.90	6.90	20.0	8.0	47.0

Date	18	8-Sep-08															
Location	Time	Depth (m)	Ten	np (oC)	DO	(mg/L)	DC	<b>DS (%)</b>	Turbidi	ity (NTU)	S	Salinity		pН	SS	NH3-N	Zinc
W9A	11:15	0.15	28.9	28.9	1.81	1.81	26.2	26.2	15.8	15 7	0	0.0	7.00	7.00	12.0	14.5	71.0
W 9A	11.15	0.15	28.9	20.9	1.8	1.01	26.1	20.2	15.6	15.7	0	0.0	7.00	7.00	12.0	14.5	/1.0
W9B	11:30	0.28	29.5	29.5	3.62	3.62	44.4	44.3	22.0	21.0	0	0.0	6.80	6.80	30.0	4.4	60.0
W9D	11:30	0.28	29.5	29.3	3.61 3.02	44.2	44.5	21.6	21.8	0	0.0	6.80	0.80 50.	50.0	4.4	69.0	

Date	24	4-Sep-08															
Location	Time	Depth (m)	Ten	ıp (oC)	DO	(mg/L)	DC	<b>S</b> (%)	Turbidi	ity (NTU)	•	Salinity		pН	SS	NH3-N	Zinc
W9A	13.55	0.22	27.6	27.6	4.01	3.99	50.4	50.1	67.7	67.7	0	0.0	6.80	6.80	97.0	10.1	304.0
w 9A	15.55	0.22	27.6	27.0	3.97	3.99	49.8	50.1	67.6	07.7	0	0.0	6.80	0.80	97.0	10.1	304.0
W9B	14:10	0.54	28.4	28.4	5.02	5.00	60.4	60.2	44.0	43.9	0	0.0	6.70	6.70	122.0	0.6	08.0
W9D	14:10	0.54	28.4	4.98	5.00	59.9	60.2	43.8	43.9	0	0.0 6.7	6.70	0.70 122.0	122.0	0.6	98.0	

Note: Monitoring on 23 September 2008 was cancelled due to Tropical Cyclone, Heavy Rainfall and Thunderstorm Signal Warning.



# **APPENDIX I**

# METEOROLOGICAL DATA IN THE REPORTING PERIOD



### Meteorological Data Extracted from HKO in the Reporting Period

				Lau Fau Shan Weather Station					
Date		Weather	Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction		
26-Aug-08	Tue	fine/very hot/light winds	0	28.8	Maintenance	77	Maintenance		
27-Aug-08	Wed	fine/hot/moderate	0	28.8	Maintenance	75.5	Maintenance		
28-Aug-08	Thu	fine/hot/isolated showers/moderate	0	28.9	Maintenance	71	Maintenance		
29-Aug-08	Fri	fine/hot/isolated showers/moderate	0	29.7	Maintenance	75	Maintenance		
30-Aug-08	Sat	fine/hot/isolated showers/moderate	0	29.7	Maintenance	74.5	Maintenance		
31-Aug-08	Sun	fine/very hot/moderate	0	29.3	Maintenance	71	Maintenance		
1-Sep-08	Mon	fine/isolated showers/moderate	0	28.8	Maintenance	79	Maintenance		
2-Sep-08	Tue	cloudy/a few showers/thunderstorm/sunny intervals/light winds	6.7	27.8	11.5	80	S/SE		
3-Sep-08	Wed	a few showers/squally thunderstorm/sunny intervals/light winds	9	28	8.5	79.5	Е		
4-Sep-08	Thu	a few showers/squally thunderstorm/sunny intervals/moderate	Trace	28.9	7.9	64.1	Е		
5-Sep-08	Fri	a few showers/squally thunderstorm/sunny intervals/light winds	6.3	27.7	10.5	84.5	E/SE		
6-Sep-08	Sat	a few showers/squally thunderstorm/sunny intervals/moderate	25.8	27.6	11.5	82.5	E/NE		
7-Sep-08	Sun	fine/isolated showers/hot/moderate	5.5	28.9	17.5	73.5	E/NE		
8-Sep-08	Mon	fine/isolated showers/hot/moderate	Trace	28.7	10	71.5	E/NE		
9-Sep-08	Tue	fine/hot/moderate	0.2	29.4	10.7	71	E/SE		
10-Sep-08	Wed	fine/very hot/moderate	0	29.6	11	68	E/SE		
11-Sep-08	Thu	fine/haze/very hot/isolated showers/light winds	0	29.1	10.2	67	S/SE		
12-Sep-08	Fri	very hot/fine/hazy/isolated showers/light winds	0	30.5	14.5	71.2	W/SW		
13-Sep-08	Sat	very hot/fine/dry/hazy/isolated showers/moderate	0	30.5	12	68.5	Ν		
14-Sep-08	Sun	very hot/fine/dry/hazy/isolated showers/moderate	0	30.5	10.5	62.4	N		
15-Sep-08	Mon	Holiday							
16-Sep-08	Tue	fine/dry/very hot/haze/light winds	0	30.6	9.2	63.2	N		
17-Sep-08	Wed	fine/hazy/very hot/isolated showers/light winds	0	28.7	10.5	70	S/SE		
18-Sep-08	Thu	cloudy/a few showers/thunderstorm/sunny intervals/light winds	1.6	28.5	12.5	84	S/SE		
19-Sep-08	Fri	thunderstorm/sunny periods/moderate	23.5	29	10	80	Е		
20-Sep-08	Sat	fine/isolated showers/moderate	0	30.2	9	77	E/NE		
21-Sep-08	Sun	fine/isolated showers/moderate	0	29.6	12	66.5	W/SW		
22-Sep-08	Mon	fine/hazy/very hot/isolated/moderate	0	31.4	12.5	77	W/NW		
23-Sep-08	Tue	fresh/strong/cloudy/squally showers	34.1	28.6	21	61	Ν		
24-Sep-08	Wed	strong/gales/cloudy/squally showers/thunderstorm	43.7	25.4	37.5	74.5	E/SE		
25-Sep-08	Thu	sunny intervals/a few showers/moderate/fresh	0.4	29.3	19	79.5	E/SE		



# **APPENDIX J**

# **ENVIRONMENTAL TEAM SITE INSPECTION CHECKLISTS**



Proje	ct:	Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui	Inspected by							
		Wai Drainage Improvements, Stage 1, Phase 2B –								
		Cheung Chun San Tsuen and Kam Tsin Wai	RE/RE's re	•		Mr. A.F.I	Ng			
Inspe Date:		28 August 2008	IEC/IEC's I ETL/ ET's I	-		Ben Tam				
Time:		14:30	Contractor							
			Checklist I	-						
PART	- Δ·	GENERAL INFORMATION Environmental	Permit No.	FP-231/20	05/A					
Weath		Sunny Fine Cloudy	Rainy	21 201/20						
Temp	erature:	30 °C								
Humio		High 🖌 Moderate 🗌 Low								
Wind:		Strong Breeze Light	✓ Calm							
PART	в:	SITE AUDIT								
			Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks		
Section	on 1: Wa	ater Quality								
1.01	ls an e	ffluent discharge license obtained for the Project?		$\checkmark$						
1.02	Is the licence	effluent discharged in accordance with the discharge ?		$\checkmark$						
1.03	Is the	discharge of turbid water avoided?		$\checkmark$						
1.04		ere proper desilting facilities in the drainage systems to a SS levels in effluent?	р П	$\checkmark$						
1.05		ere channels, sandbags or bunds to direct surface run-off to entation tanks?	р П	$\checkmark$						
1.06		ere any perimeter channels provided at site boundaries to pt storm runoff from crossing the site?	р П	$\checkmark$						
1.07	Is drai	nage system well maintained?		$\checkmark$						
1.08		cavation proceeds, are temporary access roads protected by ed stone or gravel?		$\checkmark$						
1.09	Are ter	mporary exposed slopes properly covered?				$\checkmark$				
1.10	Are ea	rthworks final surfaces well compacted or protected?					$\checkmark$			
1.11	Are ma	anholes adequately covered or temporarily sealed?		$\checkmark$						
1.12	Are the	ere any procedures and equipment for rainstorm protection?		$\checkmark$						
1.13	Are wh	neel washing facilities well maintained?		$\checkmark$						
1.14	ls runc	off from wheel washing facilities avoided?		$\checkmark$						
1.15	Are the	ere toilets provided on site?		$\checkmark$						
1.16		lets properly maintained?		$\checkmark$						
1.17		e vehicle and plant servicing areas paved and located within areas?	י 🗌				$\checkmark$			
1.18		oil leakage or spillage avoided?		$\checkmark$						
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?		$\checkmark$						
1.20	washir	nere any measures to collect spilt cement and concrete ngs during concreting works?					$\checkmark$			
1.21		ere any oil interceptors/grease traps in the drainage systems nicle and plant servicing areas, canteen kitchen, etc?	s 🗌				$\checkmark$			

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?					$\checkmark$	
1.23	Is used bentonite recycled where appropriate?					$\checkmark$	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.					$\checkmark$	
1.25	No excavation is undertaken in the settlement area.					$\checkmark$	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.					$\checkmark$	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.		$\checkmark$				
1.25	License collector should be employed for handling the sewage of mobile toilet.		$\checkmark$				
1.26	Prevent any stagnant water accumulated within the excavation trench or site working area.		$\checkmark$				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		$\checkmark$				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?					$\checkmark$	
2.03	Are the excavated materials sprayed with water during handling?		$\checkmark$				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?					$\checkmark$	
2.05	Is the exposed earth properly treated within six months after the last construction activities?		$\checkmark$				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		$\checkmark$				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		$\checkmark$				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		$\checkmark$				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		$\checkmark$				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		$\checkmark$				
2.11	Is dark smoke emission from plant/equipment avoided?		$\checkmark$				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?					$\checkmark$	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		$\checkmark$				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?		$\checkmark$				
2.15	Is open burning avoided?		$\checkmark$				
2.16	Excavated materials from the stream must be removed from site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.					$\checkmark$	
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		$\checkmark$				
3.02	Is silenced equipment adopted?		$\checkmark$				
3.03	Is idle equipment turned off or throttled down?		$\checkmark$				
3.04	Are all plant and equipment well maintained and in good condition?		$\checkmark$				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?		$\checkmark$				
3.06	Are hand held breakers fitted with valid noise emission labels during operation?					$\checkmark$	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?					$\checkmark$	
3.08	Are flaps and panels of mechanical equipment closed during operation?		$\checkmark$				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?					$\checkmark$	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?					$\checkmark$	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?					$\checkmark$	
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).		$\checkmark$				
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)		$\checkmark$				
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).		$\checkmark$				
Sectio	n 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		$\checkmark$				
4.02	Are receptacles available for general refuse collection?		$\checkmark$				
4.03	Is general refuse sorting or recycling implemented?		$\checkmark$				
4.04	Is general refuse disposed of properly and regularly?		$\checkmark$				
4.05	Is the Contractor registered as a chemical waste producer?		$\checkmark$				
4.06	Are the chemical waste containers properly labelled?		$\checkmark$				
4.07	Are the chemical wastes stored in proper storage areas?		$\checkmark$				
4.08	Is the chemical waste storage area properly labelled?		$\checkmark$				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		$\checkmark$				
4.10	Are incompatible chemical wastes stored in different areas?		$\checkmark$				
4.11	Are the chemical wastes disposed of by licensed collectors?		$\checkmark$				
4.12	Are trip tickets for chemical wastes disposal available for inspection?		$\checkmark$				
4.13	Are chemical/fuel storage areas bunded?		$\checkmark$				
4.14	Are designated areas identified for storage and sorting of construction wastes?		$\checkmark$				
4.15	Are construction wastes sorted (inert and non-inert) on site?		$\checkmark$				
4.16	Are construction wastes reused?		$\checkmark$				
4.17	Are construction wastes disposed of properly?		$\checkmark$				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		$\checkmark$				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		$\checkmark$				
4.20	Are appropriate procedures followed if contaminated material exists?		$\checkmark$				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		$\checkmark$				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		$\checkmark$				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		$\checkmark$				
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		$\checkmark$				
5.02	Are retained and transplanted trees properly protected?		$\checkmark$				
5.03	Are surgery works carried out for the damaged trees?					$\checkmark$	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		$\checkmark$				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		$\checkmark$				
Sectio	n 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?					$\checkmark$	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?		$\checkmark$				
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?		$\checkmark$				
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		$\checkmark$				

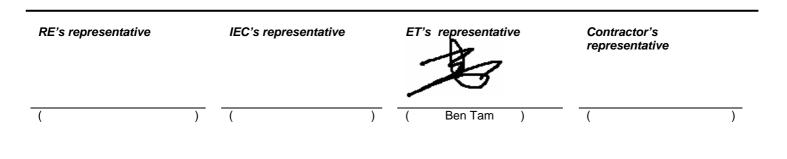
Last Site Inspection (21 August 2008):

Nil

### Finding of Site Inspection on 28 August 2008:

Site inspection was covered the site area from CH000-800 and Portion 8 (Site office).

No environmental issue was observed during the site inspection, as reminder water spraying is needed to prevent dust generation.





Proje	ct:	Contract No.: DC/2006/02	Inspected	l by						
		Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B –								
		Cheung Chun San Tsuen and Kam Tsin Wai	RE/RE's I	representa	tive:	Mr. A.F.Ng				
Inspe	ction		IEC/IEC's	represent	ative:					
Date:		04 September 2008	ETL/ ET's	represent	ative:	Ben Tan	า			
Time:	:	15:00	Contracto	or's repres	entative:	M.K.Ng/Man				
			Checklist	No.		KT15-04	0908			
PART	- A:	GENERAL INFORMATION Environmenta	I Permit No	. EP-231/2	005/A					
Weath	ner:	Sunny Fine Cloudy	Rain	y						
Temp	erature:	29 <sup>0</sup> C								
Humic	dity:	High ✓ Moderate Low								
Wind:		Strong Breeze Light	✓ Calm	1						
PART	В:	SITE AUDIT								
			Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks		
Section	on 1: W	ater Quality								
1.01	ls an e	ffluent discharge license obtained for the Project?		$\checkmark$						
1.02	Is the licence	effluent discharged in accordance with the discharg ?	e 🗌	$\checkmark$						
1.03	Is the	discharge of turbid water avoided?		$\checkmark$						
1.04		ere proper desilting facilities in the drainage systems to SS levels in effluent?	•	$\checkmark$						
1.05		ere channels, sandbags or bunds to direct surface run-off tentation tanks?	•	$\checkmark$						
1.06		ere any perimeter channels provided at site boundaries to pt storm runoff from crossing the site?	°	$\checkmark$						
1.07	ls drai	nage system well maintained?		$\checkmark$						
1.08		avation proceeds, are temporary access roads protected b d stone or gravel?	у	$\checkmark$						
1.09	Are te	nporary exposed slopes properly covered?				$\checkmark$				
1.10	Are ea	rthworks final surfaces well compacted or protected?					$\checkmark$			
1.11	Are m	anholes adequately covered or temporarily sealed?		$\checkmark$						
1.12	Are the	ere any procedures and equipment for rainstorm protection?								
1.13	Are wh	neel washing facilities well maintained?		$\checkmark$						
1.14	ls runo	ff from wheel washing facilities avoided?								
1.15	Are the	ere toilets provided on site?								
1.16		lets properly maintained?		$\checkmark$						
1.17		e vehicle and plant servicing areas paved and located within areas?	n				$\checkmark$			
1.18		pil leakage or spillage avoided?								
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?		$\checkmark$						
1.20	washir	ere any measures to collect spilt cement and concretings during concreting works?					$\checkmark$			
1.21	Are the for vert	ere any oil interceptors/grease traps in the drainage system nicle and plant servicing areas, canteen kitchen, etc?	s				$\checkmark$			

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?					$\checkmark$	
1.23	Is used bentonite recycled where appropriate?					$\checkmark$	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.					$\checkmark$	
1.25	No excavation is undertaken in the settlement area.					$\checkmark$	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.					$\checkmark$	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.		$\checkmark$				
1.25	License collector should be employed for handling the sewage of mobile toilet.		$\checkmark$				
1.26	Prevent any stagnant water accumulated within the excavation trench or site working area.		$\checkmark$				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		$\checkmark$				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?					$\checkmark$	
2.03	Are the excavated materials sprayed with water during handling?		$\checkmark$				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?					$\checkmark$	
2.05	Is the exposed earth properly treated within six months after the last construction activities?		$\checkmark$				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		$\checkmark$				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		$\checkmark$				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		$\checkmark$				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		$\checkmark$				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		$\checkmark$				
2.11	Is dark smoke emission from plant/equipment avoided?		$\checkmark$				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?					$\checkmark$	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		$\checkmark$				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?		$\checkmark$				
2.15	Is open burning avoided?		$\checkmark$				
2.16	Excavated materials from the stream must be removed from site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.					$\checkmark$	
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		$\checkmark$				
3.02	Is silenced equipment adopted?		$\checkmark$				
3.03	Is idle equipment turned off or throttled down?		$\checkmark$				
3.04	Are all plant and equipment well maintained and in good condition?		$\checkmark$				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?		$\checkmark$				
3.06	Are hand held breakers fitted with valid noise emission labels during operation?					$\checkmark$	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?					$\checkmark$	
3.08	Are flaps and panels of mechanical equipment closed during operation?		$\checkmark$				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?					$\checkmark$	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?					$\checkmark$	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?					$\checkmark$	
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).		$\checkmark$				
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)		$\checkmark$				
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).		$\checkmark$				
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		$\checkmark$				
4.02	Are receptacles available for general refuse collection?		$\checkmark$				
4.03	Is general refuse sorting or recycling implemented?		$\checkmark$				
4.04	Is general refuse disposed of properly and regularly?		$\checkmark$				
4.05	Is the Contractor registered as a chemical waste producer?		$\checkmark$				
4.06	Are the chemical waste containers properly labelled?		$\checkmark$				
4.07	Are the chemical wastes stored in proper storage areas?		$\checkmark$				
4.08	Is the chemical waste storage area properly labelled?		$\checkmark$				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		$\checkmark$				
4.10	Are incompatible chemical wastes stored in different areas?		$\checkmark$				
4.11	Are the chemical wastes disposed of by licensed collectors?		$\checkmark$				
4.12	Are trip tickets for chemical wastes disposal available for inspection?		$\checkmark$				
4.13	Are chemical/fuel storage areas bunded?		$\checkmark$				
4.14	Are designated areas identified for storage and sorting of construction wastes?		$\checkmark$				
4.15	Are construction wastes sorted (inert and non-inert) on site?		$\checkmark$				
4.16	Are construction wastes reused?		$\checkmark$				
4.17	Are construction wastes disposed of properly?		$\checkmark$				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		$\checkmark$				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		$\checkmark$				
4.20	Are appropriate procedures followed if contaminated material exists?		$\checkmark$				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		$\checkmark$				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		$\checkmark$				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		$\checkmark$				
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		$\checkmark$				
5.02	Are retained and transplanted trees properly protected?		$\checkmark$				
5.03	Are surgery works carried out for the damaged trees?					$\checkmark$	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		$\checkmark$				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		$\checkmark$				
Sectio	n 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?					$\checkmark$	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?		$\checkmark$				
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?		$\checkmark$				
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		$\checkmark$				

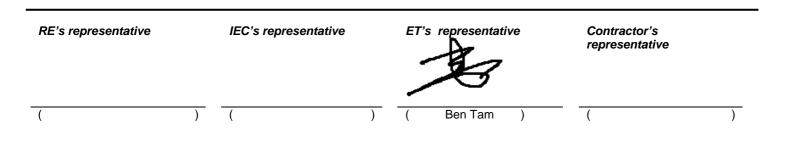
Last Site Inspection (28 August 2008):

Nil

### Finding of Site Inspection on 04 September 2008:

Site inspection was covered the site area from CH000-800 and Portion 8 (Site office).

No environmental issue was observed during the site inspection, as reminder water spraying is needed to prevent dust generation.





Proje	ct:	Contract No.: DC/2006/02	Ins	spected b	у							
-		Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B –		-	-							
		Cheung Chun San Tsuen and Kam Tsin Wai	RE	/RE's re	presentati	ve:	Mr. A.F.Ng					
Inspe	ction		IEC	C/IEC's r	epresenta	tive:						
Date:		11 September 2008	ET	'L/ ET's r	epresenta	tive:	T. W. Ta	m				
Time:		14:00	Co	ontractor	's represe	ntative:	M.K.Ng/Man					
			ecklist N	lo.		KT15-11	0908					
PART	A:	GENERAL INFORMATION Environmenta	al Pei	rmit No. I	EP-231/20	05/A						
Weath	ner:	Sunny Fine Cloudy		Rainy								
Temp	erature:	32 °C										
Humic	dity:	High 🖌 Moderate Low										
Wind:		Strong Breeze Light	√	Calm								
PART	В:	SITE AUDIT										
				Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks			
Section	on 1: W	ater Quality										
1.01		offluent discharge license obtained for the Project?			$\checkmark$							
1.02	Is the licence	e effluent discharged in accordance with the discharg e?	ge		$\checkmark$							
1.03	Is the	discharge of turbid water avoided?			$\checkmark$							
1.04		nere proper desilting facilities in the drainage systems to SS levels in effluent?	to		$\checkmark$							
1.05		ere channels, sandbags or bunds to direct surface run-off t entation tanks?	to		$\checkmark$							
1.06		ere any perimeter channels provided at site boundaries t ept storm runoff from crossing the site?	to		$\checkmark$							
1.07	ls drai	nage system well maintained?			$\checkmark$							
1.08		cavation proceeds, are temporary access roads protected bed stone or gravel?	by		$\checkmark$							
1.09	Are te	mporary exposed slopes properly covered?					$\checkmark$					
1.10	Are ea	arthworks final surfaces well compacted or protected?						$\checkmark$				
1.11	Are m	anholes adequately covered or temporarily sealed?			$\checkmark$							
1.12	Are the	ere any procedures and equipment for rainstorm protection?	?		$\checkmark$							
1.13	Are wh	neel washing facilities well maintained?			$\checkmark$							
1.14	ls runo	off from wheel washing facilities avoided?			$\checkmark$							
1.15	Are the	ere toilets provided on site?			$\checkmark$							
1.16		ilets properly maintained?			$\checkmark$							
1.17		e vehicle and plant servicing areas paved and located with areas?	in					$\checkmark$				
1.18		oil leakage or spillage avoided?			$\checkmark$							
1.19	draina	ere any measures to prevent leaked oil from entering th ge system?			$\checkmark$							
1.20	washir	nere any measures to collect spilt cement and concretings during concreting works?						$\checkmark$				
1.21		ere any oil interceptors/grease traps in the drainage system nicle and plant servicing areas, canteen kitchen, etc?	ns					$\checkmark$				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?					$\checkmark$	
1.23	Is used bentonite recycled where appropriate?					$\checkmark$	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.					$\checkmark$	
1.25	No excavation is undertaken in the settlement area.					$\checkmark$	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.					$\checkmark$	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.		$\checkmark$				
1.25	License collector should be employed for handling the sewage of mobile toilet.		$\checkmark$				
1.26	Prevent any stagnant water accumulated within the excavation trench or site working area.		$\checkmark$				
Sectio	on 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		$\checkmark$				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?					$\checkmark$	
2.03	Are the excavated materials sprayed with water during handling?		$\checkmark$				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?					$\checkmark$	
2.05	Is the exposed earth properly treated within six months after the last construction activities?		$\checkmark$				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		$\checkmark$				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		$\checkmark$				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		$\checkmark$				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		$\checkmark$				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		$\checkmark$				
2.11	Is dark smoke emission from plant/equipment avoided?		$\checkmark$				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?					$\checkmark$	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		$\checkmark$				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?		$\checkmark$				
2.15	Is open burning avoided?		$\checkmark$				
2.16	Excavated materials from the stream must be removed from site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.					$\checkmark$	
Sectio	on 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		$\checkmark$				
3.02	Is silenced equipment adopted?		$\checkmark$				
3.03	Is idle equipment turned off or throttled down?		$\checkmark$				
3.04	Are all plant and equipment well maintained and in good condition?		$\checkmark$				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?		$\checkmark$				
3.06	Are hand held breakers fitted with valid noise emission labels during operation?					$\checkmark$	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?					$\checkmark$	
3.08	Are flaps and panels of mechanical equipment closed during operation?		$\checkmark$				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?					$\checkmark$	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?					$\checkmark$	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?					$\checkmark$	
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).		$\checkmark$				
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)		$\checkmark$				
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).		$\checkmark$				
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		$\checkmark$				
4.02	Are receptacles available for general refuse collection?		$\checkmark$				
4.03	Is general refuse sorting or recycling implemented?		$\checkmark$				
4.04	Is general refuse disposed of properly and regularly?		$\checkmark$				
4.05	Is the Contractor registered as a chemical waste producer?		$\checkmark$				
4.06	Are the chemical waste containers properly labelled?		$\checkmark$				
4.07	Are the chemical wastes stored in proper storage areas?		$\checkmark$				
4.08	Is the chemical waste storage area properly labelled?		$\checkmark$				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		$\checkmark$				
4.10	Are incompatible chemical wastes stored in different areas?		$\checkmark$				
4.11	Are the chemical wastes disposed of by licensed collectors?		$\checkmark$				
4.12	Are trip tickets for chemical wastes disposal available for inspection?		$\checkmark$				
4.13	Are chemical/fuel storage areas bunded?		$\checkmark$				
4.14	Are designated areas identified for storage and sorting of construction wastes?		$\checkmark$				
4.15	Are construction wastes sorted (inert and non-inert) on site?		$\checkmark$				
4.16	Are construction wastes reused?		$\checkmark$				
4.17	Are construction wastes disposed of properly?		$\checkmark$				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		$\checkmark$				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		$\checkmark$				
4.20	Are appropriate procedures followed if contaminated material exists?		$\checkmark$				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		$\checkmark$				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		$\checkmark$				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		$\checkmark$				
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		$\checkmark$				
5.02	Are retained and transplanted trees properly protected?		$\checkmark$				
5.03	Are surgery works carried out for the damaged trees?					$\checkmark$	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		$\checkmark$				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		$\checkmark$				
Sectio	n 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?					$\checkmark$	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?		$\checkmark$				
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?		$\checkmark$				
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		$\checkmark$				

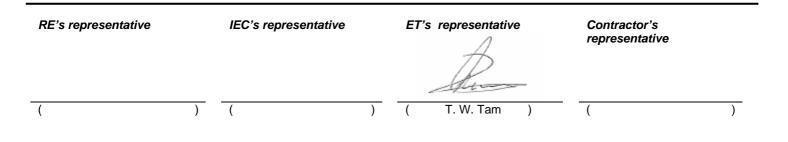
Last Site Inspection (04 September 2008):

Nil

### Finding of Site Inspection on 11 September 2008:

Site inspection was covered the site area from CH000-800 and Portion 8 (Site office).

No environmental issue was observed during the site inspection, as reminder water spraying is needed to prevent dust generation.





Proje	ct:	Contract No.: DC/2006/02	Inspected by							
		Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B –				Mr. A.F.Ng				
		Cheung Chun San Tsuen and Kam Tsin Wai	RE/RE's r	epresentat	tive:					
Inspe	ction		IEC/IEC's	representa	ative:					
Date:		17 September 2008	ETL/ ET's	represent	ative:	F.N.Wor	ng			
Time:	:	14:00	Contracto	or's represe	entative:	M.K.Ng/Man				
			Checklist	No.		KT15-170908				
PART	- A:	GENERAL INFORMATION Environmental	I Permit No	. EP-231/20	005/A					
Weath	ner:	Sunny Fine Cloudy	Rainy	/						
Temp	erature:									
Humic	dity:	High 🗸 Moderate Low								
Wind:		Strong Breeze Light	✓ Calm							
PART	В:	SITE AUDIT								
			Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks		
Section	on 1: Wa	ater Quality								
1.01	ls an e	ffluent discharge license obtained for the Project?		$\checkmark$						
1.02	Is the licence	effluent discharged in accordance with the discharge?	e 🗌	$\checkmark$						
1.03	Is the	discharge of turbid water avoided?		$\checkmark$						
1.04		ere proper desilting facilities in the drainage systems to SS levels in effluent?	•	$\checkmark$						
1.05		ere channels, sandbags or bunds to direct surface run-off to entation tanks?	•	$\checkmark$						
1.06		ere any perimeter channels provided at site boundaries to pt storm runoff from crossing the site?	•	$\checkmark$						
1.07	Is drai	nage system well maintained?		$\checkmark$						
1.08		avation proceeds, are temporary access roads protected by d stone or gravel?	у 🗌	$\checkmark$						
1.09	Are ter	nporary exposed slopes properly covered?		$\checkmark$						
1.10	Are ea	rthworks final surfaces well compacted or protected?					$\checkmark$			
1.11	Are ma	anholes adequately covered or temporarily sealed?		$\checkmark$						
1.12	Are the	ere any procedures and equipment for rainstorm protection?		$\checkmark$						
1.13	Are wh	neel washing facilities well maintained?		$\checkmark$						
1.14	ls runc	ff from wheel washing facilities avoided?		$\checkmark$						
1.15	Are the	ere toilets provided on site?		$\checkmark$						
1.16		lets properly maintained?		$\checkmark$						
1.17		e vehicle and plant servicing areas paved and located within areas?	n				$\checkmark$			
1.18		pil leakage or spillage avoided?		$\checkmark$						
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?		$\checkmark$						
1.20	washir	nere any measures to collect spilt cement and concrete ngs during concreting works?					$\checkmark$			
1.21	Are the for ver	ere any oil interceptors/grease traps in the drainage system nicle and plant servicing areas, canteen kitchen, etc?	s				$\checkmark$			

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?					$\checkmark$	
1.23	Is used bentonite recycled where appropriate?					$\checkmark$	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.					$\checkmark$	
1.25	No excavation is undertaken in the settlement area.					$\checkmark$	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.					$\checkmark$	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.		$\checkmark$				
1.25	License collector should be employed for handling the sewage of mobile toilet.		$\checkmark$				
1.26	Prevent any stagnant water accumulated within the excavation trench or site working area.		$\checkmark$				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		$\checkmark$				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?					$\checkmark$	
2.03	Are the excavated materials sprayed with water during handling?		$\checkmark$				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?					$\checkmark$	
2.05	Is the exposed earth properly treated within six months after the last construction activities?		$\checkmark$				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		$\checkmark$				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		$\checkmark$				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		$\checkmark$				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		$\checkmark$				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		$\checkmark$				
2.11	Is dark smoke emission from plant/equipment avoided?		$\checkmark$				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?					$\checkmark$	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		$\checkmark$				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?		$\checkmark$				
2.15	Is open burning avoided?		$\checkmark$				
2.16	Excavated materials from the stream must be removed from site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.					$\checkmark$	
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		$\checkmark$				
3.02	Is silenced equipment adopted?		$\checkmark$				
3.03	Is idle equipment turned off or throttled down?		$\checkmark$				
3.04	Are all plant and equipment well maintained and in good condition?		$\checkmark$				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?		$\checkmark$				
3.06	Are hand held breakers fitted with valid noise emission labels during operation?					$\checkmark$	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?					$\checkmark$	
3.08	Are flaps and panels of mechanical equipment closed during operation?		$\checkmark$				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?					$\checkmark$	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?					$\checkmark$	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?					$\checkmark$	
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).		$\checkmark$				
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)		$\checkmark$				
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).		$\checkmark$				
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		$\checkmark$				
4.02	Are receptacles available for general refuse collection?		$\checkmark$				
4.03	Is general refuse sorting or recycling implemented?		$\checkmark$				
4.04	Is general refuse disposed of properly and regularly?		$\checkmark$				
4.05	Is the Contractor registered as a chemical waste producer?		$\checkmark$				
4.06	Are the chemical waste containers properly labelled?		$\checkmark$				
4.07	Are the chemical wastes stored in proper storage areas?		$\checkmark$				
4.08	Is the chemical waste storage area properly labelled?		$\checkmark$				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		$\checkmark$				
4.10	Are incompatible chemical wastes stored in different areas?		$\checkmark$				
4.11	Are the chemical wastes disposed of by licensed collectors?		$\checkmark$				
4.12	Are trip tickets for chemical wastes disposal available for inspection?		$\checkmark$				
4.13	Are chemical/fuel storage areas bunded?		$\checkmark$				
4.14	Are designated areas identified for storage and sorting of construction wastes?		$\checkmark$				
4.15	Are construction wastes sorted (inert and non-inert) on site?		$\checkmark$				
4.16	Are construction wastes reused?		$\checkmark$				
4.17	Are construction wastes disposed of properly?		$\checkmark$				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		$\checkmark$				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		$\checkmark$				
4.20	Are appropriate procedures followed if contaminated material exists?		$\checkmark$				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		$\checkmark$				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		$\checkmark$				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		$\checkmark$				
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		$\checkmark$				
5.02	Are retained and transplanted trees properly protected?		$\checkmark$				
5.03	Are surgery works carried out for the damaged trees?					$\checkmark$	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		$\checkmark$				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		$\checkmark$				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?					$\checkmark$	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?		$\checkmark$				
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?		$\checkmark$				
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		$\checkmark$				

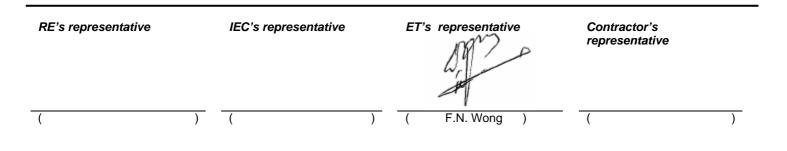
### Last Site Inspection (11 September 2008):

No adverse construction dust impacts were observed during the site inspection.

#### Finding of Site Inspection on 17 September 2008:

No adverse environmental impacts were observed during the site inspection, however, full implementation of the mitigation measures set out in the Mitigation Measure Implementation Schedule of the EM&A Manual is reminded:

- 1) Dust suppression during dusty works, including vehicle movement within the site, in dry and windy days;
- 2) Mosquito control measures for stagnant water ponding within the site, preferably drying off or filling up the water ponding.





Proje	ct:	Contract No.: DC/2006/02	Inspected k							
		Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B –			Mr. A.F.Ng					
			RE/RE's re	ve:						
Inspe	ction		IEC/IEC's r	epresenta	tive:					
Date:		24 September 2008	ETL/ ET's r	epresenta	tive:	F.N.Wor	g			
Time:	:	9:30 a.m.	Contractor	's represe	ntative:	M.K.Ng/Man				
			Checklist N	lo.		KT15-240908				
PART	- A:	GENERAL INFORMATION Environmental	Permit No. I	EP-231/20	05/A					
Weath	ner:	Sunny Fine 🗸 Cloudy	Rainy							
Temp	erature:									
Humic		High Moderate Low								
Wind:		Strong Breeze Light	Calm							
PART	В:	SITE AUDIT								
			Not	Yes	No	Follow	N/A	Photo/		
Section	om 1. 14/	ator Quality	Obs.			up		Remarks		
		ater Quality	_		_	—				
1.01		offluent discharge license obtained for the Project?		$\checkmark$				_		
1.02	Is the licence	e effluent discharged in accordance with the discharge e?		$\checkmark$						
1.03	Is the	discharge of turbid water avoided?		$\checkmark$						
1.04		nere proper desilting facilities in the drainage systems to e SS levels in effluent?		$\checkmark$						
1.05		ere channels, sandbags or bunds to direct surface run-off to entation tanks?		$\checkmark$						
1.06		ere any perimeter channels provided at site boundaries to ept storm runoff from crossing the site?		$\checkmark$						
1.07	Is drai	nage system well maintained?		$\checkmark$						
1.08		cavation proceeds, are temporary access roads protected by ad stone or gravel?		$\checkmark$						
1.09	Are te	mporary exposed slopes properly covered?		$\checkmark$						
1.10	Are ea	arthworks final surfaces well compacted or protected?					$\checkmark$			
1.11	Are m	anholes adequately covered or temporarily sealed?		$\checkmark$						
1.12	Are the	ere any procedures and equipment for rainstorm protection?		$\checkmark$						
1.13	Are wh	neel washing facilities well maintained?		$\checkmark$						
1.14	ls runo	off from wheel washing facilities avoided?		$\checkmark$						
1.15	Are the	ere toilets provided on site?								
1.16		ilets properly maintained?		$\checkmark$						
1.17		e vehicle and plant servicing areas paved and located within areas?					$\checkmark$			
1.18		oil leakage or spillage avoided?								
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?		$\checkmark$						
1.20	washir	nere any measures to collect spilt cement and concrete ngs during concreting works?					$\checkmark$			
1.21	Are the for vert	ere any oil interceptors/grease traps in the drainage systems nicle and plant servicing areas, canteen kitchen, etc?					$\checkmark$			

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
1.22	Are the oil interceptors/grease traps maintained properly?					$\checkmark$	
1.23	Is used bentonite recycled where appropriate?					$\checkmark$	
1.24	Designated settlement area for runoff/wheel wash waste is provide and located at the streambed with 1-2m deep, 12m long and around 50m3 capacities for sedimentation.					$\checkmark$	
1.25	No excavation is undertaken in the settlement area.					$\checkmark$	
1.26	Concreting wastes water should be neutralized below the pH Action Levels before discharge.					$\checkmark$	
1.27	Mobile toilets should provide on site and located away the KT15 stream course.		$\checkmark$				
1.25	License collector should be employed for handling the sewage of mobile toilet.		$\checkmark$				
1.26	Prevent any stagnant water accumulated within the excavation trench or site working area.		$\checkmark$				
Sectio	n 2: Air Quality						
2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?		$\checkmark$				
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?					$\checkmark$	
2.03	Are the excavated materials sprayed with water during handling?		$\checkmark$				
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?					$\checkmark$	
2.05	Is the exposed earth properly treated within six months after the last construction activities?		$\checkmark$				
2.06	Are the access roads sprayed with water to maintain the entire road surface wet or paved?		$\checkmark$				
2.07	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?		$\checkmark$				
2.08	Is the load on vehicles covered entirely by clean impervious sheeting?		$\checkmark$				
2.09	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		$\checkmark$				
2.10	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		$\checkmark$				
2.11	Is dark smoke emission from plant/equipment avoided?		$\checkmark$				
2.12	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?					$\checkmark$	
2.13	Are site vehicles travelling within the speed limit not more than 15km/hour?		$\checkmark$				
2.14	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?		$\checkmark$				
2.15	Is open burning avoided?		$\checkmark$				
2.16	Excavated materials from the stream must be removed from site on the same day. The materials shall be stored in covered impermeable skips awaiting removal from site.					$\checkmark$	
Sectio	n 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?		$\checkmark$				
3.02	Is silenced equipment adopted?		$\checkmark$				
3.03	Is idle equipment turned off or throttled down?		$\checkmark$				
3.04	Are all plant and equipment well maintained and in good condition?		$\checkmark$				
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?		$\checkmark$				
3.06	Are hand held breakers fitted with valid noise emission labels during operation?					$\checkmark$	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?					$\checkmark$	
3.08	Are flaps and panels of mechanical equipment closed during operation?		$\checkmark$				
3.09	Are Construction Noise Permit(s) applied for percussive piling works?					$\checkmark$	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?					$\checkmark$	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?					$\checkmark$	
3.12	Use of quiet plant had been used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation measures).		$\checkmark$				
3.13	Temporary/Moveable noise barrier or site hoarding are provide or erect at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments shield by the noise barrier which cannot visible from NSRs (Level 2 mitigation measure)		$\checkmark$				
3.14	Temporary/Moveable noise barrier equal to or more than 3m height with 10kg/m2 are provide for noise mitigation measures (Level 2 mitigation measures).		$\checkmark$				
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		$\checkmark$				
4.02	Are receptacles available for general refuse collection?		$\checkmark$				
4.03	Is general refuse sorting or recycling implemented?		$\checkmark$				
4.04	Is general refuse disposed of properly and regularly?		$\checkmark$				
4.05	Is the Contractor registered as a chemical waste producer?		$\checkmark$				
4.06	Are the chemical waste containers properly labelled?		$\checkmark$				
4.07	Are the chemical wastes stored in proper storage areas?		$\checkmark$				
4.08	Is the chemical waste storage area properly labelled?		$\checkmark$				
4.09	Is the chemical waste storage area used for storage of chemical waste only?		$\checkmark$				
4.10	Are incompatible chemical wastes stored in different areas?		$\checkmark$				
4.11	Are the chemical wastes disposed of by licensed collectors?		$\checkmark$				
4.12	Are trip tickets for chemical wastes disposal available for inspection?		$\checkmark$				
4.13	Are chemical/fuel storage areas bunded?		$\checkmark$				
4.14	Are designated areas identified for storage and sorting of construction wastes?		$\checkmark$				
4.15	Are construction wastes sorted (inert and non-inert) on site?		$\checkmark$				
4.16	Are construction wastes reused?		$\checkmark$				
4.17	Are construction wastes disposed of properly?		$\checkmark$				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		$\checkmark$				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		$\checkmark$				
4.20	Are appropriate procedures followed if contaminated material exists?		$\checkmark$				
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		$\checkmark$				
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.		$\checkmark$				

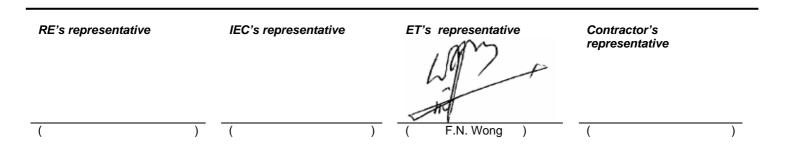
		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.23	Contaminated sediments will managed according to WBTC No.12/2000 and EWTB TC(W) No. 34/2002.		$\checkmark$				
Sectio	on 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		$\checkmark$				
5.02	Are retained and transplanted trees properly protected?		$\checkmark$				
5.03	Are surgery works carried out for the damaged trees?					$\checkmark$	
5.04	Is damage to trees outside site boundary due to construction activities avoided?		$\checkmark$				
5.05	Is the night-time lighting controlled to minimize glare to sensitive receivers?		$\checkmark$				
Sectio	on 6: Ecology						
6.01	Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?					$\checkmark$	
6.02	Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?		$\checkmark$				
6.03	Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?		$\checkmark$				
Sectio	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?		$\checkmark$				

### Last Site Inspection (17 September 2008):

1) No adverse construction dust impacts were observed after rain (Rain storm signalled No. 8), Case closed. 2) No signs of mosquito breeding after rain storm signalled No. 8. Case closed.

### Finding of Site Inspection on 24 September 2008:

No adverse environmental impacts were observed during the site inspection, however, full implementation of the mitigation measures set out in the Mitigation Measure Implementation Schedule of the EM&A Manual is reminded, in particular those messed up by the rain storm signalled No. 8.





## **APPENDIX K**

## **RESPONSE TO COMMENT**



### DSD Contract No.: DC/2006/02

Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai KT15 – Monthly EM&A Summary Report for September 2008 (R0925 Revision 1) submit on 11 October 08 (12:52) Response to IEC's comments [Received from e-mail on 13 October 2008 20:49]

No.	Section / Paragraph	Comments	Ref.	<b>Response to Comments</b>
1	ES05., ES14., 5.09, Table	The date of ecological survey is not consistent with the impact monitoring schedule listed in Appendix	-	Appendix G had been
	5-5, 11.05, Appendix G	G. The text in Section 5.09 is not consistent with other sections'. Please check and revise accordingly.		updated.
2	4.21	Please check and revise the standard temperature of DO Meter.	-	Noted.
3	4.25	Please check and revise the temperature for sample storage.	-	Noted.
4	Table 5-4, Appendix H / Appendix G	The stream water quality monitoring result on 09, 23 & 25 Sep 2008 (according to the monitoring schedule in Appendix G) is missing in Table 5-4 and Appendix H. The stream water monitoring result on 24 Sep 2008 is missing in Appendix G. If any scheduled monitoring event was cancelled/re-scheduled, please state out the reason(s) for cancellation/re-schedule in both text and related tables. Please provide all monitoring results in the reporting monitoring period and keep consistency of data in the related sections.	-	Please Refer Section 5.08 about the cancellation of monitoring on 23 September 2008. Appendix G and H had been updated.
5	Appendix C	In the table of Contact Details of Key Personnel, the Engineer's Representative, Mr. Clive C.H. CHENG, cannot be reached by the Fax No. listed. Please check and update the table.	-	Noted.
6	Appendix H	The data of Leq30 on 10 September 2008 is missing in the graphical presentation of noise monitoring results.		Noted.
7	Appendix J	The date of "Last Site Inspection" of Environmental Site Inspection Checklist for KT 15 dated on 24 September 2008 should be 17 September 2008 instead of 18 September 2008. Please amend.	-	Noted.



### DSD Contract No.: DC/2006/02

Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai KT15 – Monthly EM&A Summary Report for September 2008 (R0925 Revision 2) submit on 14 October 08 (14:01) Response to IEC's comments [Received from e-mail on 14 October 2008 19:07]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	ES05., 5.09, Table 5-5	The text in Section 5.09 is not consistent with other sections' text. Wetland birds (Chinese Pond	-	Table of ES.05 had been updated.
		Heron) were observed (according to Table 5-5) during the survey and the number of species of		
		wetland birds exceeeded the limit level as according to Table 5-5. Please check and revise		
		accordingly.		
2	ES05.	Wordings of "Exceedance of ecology monitoring" should be written as	-	ES.05 had been revised.
		"Exceedance of stream water quality and ecology monitoring".		The investigation report had issued
		Exceedance on limit level for ecology monitoring should be recorded for number of species of		to relevant parties by facsimile (Our
		wetland birds only.		Ref.: TCS00371/07/300/F0958)
		Investigation report for the exceedance item is still outstanding.		
3	ES10.	The number of stream water quality monitoring events should be 18 instead of 20.	-	Noted.
4	ES13., 5.07, 11.04	Since the water quality exceedance of Turbidity and SS on 2 September 2008 are significant, and	-	Noted.
		there was no heavy rain event on and before the day according to the information provided by the		The investigation report had issued
		Hong Kong Observatory, please provide more information regarding how the conclusion "not		to relevant parties by facsimile (Our
		caused by the project activities" could be jumped to, such as the construction activities undertaken		Ref.: TCS00371/07/300/F0959a)
		on/before the day, condition of the sedimentation tank, possible reasons for such exceedance, etc.		
		Investigation report for the exceedance item is still outstanding.		