

PROJECT NO.: TCS00371/07

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 – Quarterly EM&A Summary Report (July 2007 to September 2007) (No.1)

(Revision: 1)

PREPARED FOR Chit Cheung Construction Company Limited

Quality Index

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Executive Summary

- ES.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 an Environmental Monitoring & Audit program to be implemented by an Independent Environmental Team (ET) throughout the contract period.
- ES.02 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).
- ES.03 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.
- ES.04 This is the 1st Quarterly Summary Report (July 2007 September 2007) reporting the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting quarter from 20 July to 25 September 2007.

Breach of Action and Limit (AL) Levels

ES.05 Two Limit Level exceedances were recorded in ecology during this reporting quarter. The wetland dependent bird in August and September 2007 fell within the limit level, but the non-compliance was not considered to be caused by the project, as the major construction works have not commenced. No Action/Limit Level exceedance was recorded for air, noise and stream water in this reporting period. No Action/Limit Level exceedance was recorded for air, noise and stream water in this reporting period.

Complaints Log

ES.06 No environmental complaint was received in this reporting quarter.

Notifications of Any Summons and Successful Prosecutions

ES.07 There was no environmental summons or successful prosecution was recorded in this reporting quarter.

Reporting Changes

ES.08 There are no changes to be reported in this reporting quarter.



Construction Activities in the Reporting Quarter

ES.09 Construction activities in the reporting quarter (20 July 2007 – 25 September 2007) are listed in the following table:-

Reporting Period	Construction Activities
20 July – 25 July 2007	Erection of project sign board at Portion 8;
	Site clearance;
	 Erection of hoarding at CH040 - 070; and
	Tree transplanting works.
26 July – 25 August 2007	Erection of project sign board at Portion 6 and Portion 8;
	Site clearance; and
	Tree transplanting works.
26 August – 25 September	Provision of temporary entrance at portion 5;
2007	• Construction of temporary noise barrier along ch.230 to ch.327 of
	portion5;
	• Construction of hoarding at ch.419 and ch.427 of portion5;
	Installation of geotechnical instruments;
	• Channel wall construction at ch.290 of portion 5;
	Tree protection and tree transplanting works;
	Site Clearance work;
	 Construction and excavation works at portion 5;
	• Utilities companies liaison and underground utility ducting detection;
	and
	Carrying out joined survey.

ES.10 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 Quarter

ES.11 A summary of the monitoring activities in this reporting quarter is listed below:

•	1-Hour TSP Monitoring	36	Events
•	24-Hour TSP Monitoring	12	Events
•	Noise Monitoring	12	Events
•	Stream Water Quality	38	Events
•	Ecology (Fauna)	3	Event
•	Site Inspection Audit	10	Times

Air Quality

ES.12 No Action or Limit Level of 1-Hour and 24-Hour TSP exceedance was recorded in this reporting quarter.

Construction Noise

ES.13 No exceedance in construction noise measurements was recorded and no construction noise complaint was received in this reporting quarter.



Stream Water Quality

ES.14 No exceedance in stream water quality was recorded in the reporting quarter.

Ecology (Fauna)

ES.15 Two Limit Level exceedances were found in the wetland dependent bird recorded during the reporting quarter. But it was not considered a consequence of the project as the major construction works for the project have not commenced.

Summary of Monitoring Exceedances

ES.16 A summary of monitoring exceedances in this reporting quarter of air quality, noise, stream water quality and ecology (fauna) monitoring are presented below:

Env. Quality	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air Quality	1-Hour TSP	0	Not Required for 0% Exceedance
	24-Hour TSP	0	Not Required for 0% Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Exceedance
Stream Water	Dissolve Oxygen (DO)	0	Not Required for 0% Exceedance
	Suspended Solids (SS)	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	рН	0	Not Required for 0% Exceedance
	Ammonia Nitrogen	0	Not Required for 0% Exceedance
	Zinc	0	Not Required for 0% Exceedance
Ecology	Fauna	0	Not Required for 0% Exceedance



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. The location of the project site is presented in **Appendix A**. The project 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 quarter **July 2007** to **September 2007** during the period from 20 July to 25 September 2007.

REPORT STRUCTURE

- 1.05 The Quarterly Summary 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** 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 quarter were summaries in **Table 2-1**.

Table 2-1 Major Construction Activities in the Reporting Quarter

Reporting Period	Construction Activities
20 July – 25 July 2007	 Erection of project sign board at Portion 8;
	Site clearance;
	 Erection of hoarding at CH040 - 070; and
	Tree transplanting works.
26 July – 25 August 2007	 Erection of project sign board at Portion 6 and Portion 8;
	Site clearance; and
	Tree transplanting works.
26 August – 25 September	 Provision of temporary entrance at portion 5;
2007	 Construction of temporary noise barrier along ch.230 to ch.327 of
	portion5;
	 Construction of hoarding at ch.419 and ch.427 of portion5;
	 Installation of geotechnical instruments;
	 Channel wall construction at ch.290 of portion 5;
	 Tree protection and tree transplanting works;
	Site Clearance work;
	 Construction and excavation works at portion 5;
	 Utilities companies liaison and underground utility ducting detection;
	and
	Carrying out joined survey.

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 quarter are presented in **Table 2-2**.

Table 2-2 Status of Environmental Licenses and Permits

Item	Item Description	License/Permits Status
1	Environmental Permit (EP-231/2005/A)	-
2	Air Pollution Control (Construction Dust)	Notified EPD on 09 July 2007
3	Chemical Waste Producer Registration WPN:5296-519-C3430-01 (Portion 8, Ma Fung Ling Road, Tong Yan San Tsuen, 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
5	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	Dumping at Sea Permit of Type II Contaminated Material (Permit No. EP/MD/08-044)	Obtained on 20 September 2007



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**.

Table 3-1 Summary of EM&A Requirements

Environmental Aspect	Monitoring Parameters		Monitoring Stations
Air Quality	1-Hour and 24-Hour To	SP	A10
Construction Noise	Leq _(30min) during norma	l working hours	N10a*
	Supplementary data of	L_{10} and L_{90} for reference.	
Stream Water Quality	In Situ Measurement	Dissolved Oxygen Concentration (mg/L);	W9A & W9B
		Dissolved Oxygen Saturation (% Sat);	
		Turbidity (NTU);	
		• pH;	
		• Salinity (%); Water Depth (m) and	
	Temperature (°C). Laboratory Analysis Suspended Solids (mg/L);		
	Ammonia Nitrogen (mg/L); and		
	• Zinc (µg/L).		
Ecology	areas to identify any wetland areas; Monthly monitoring of	f construction activities adjacent to the wetland intrusions of construction activities into the f wetland areas themselves to check that there is the wetlands as a consequence of changes to the	
	no adverse impact on the wetlands as a consequence of changes to the water table that are attributable to the project, if any; Photographic records at six-month intervals; and		
	Monthly surveys of fa (April to July inclusi- butterflies, and through		

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 location W9A & W9B twice per week. Dissolved Oxygen (DO), pH, 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.
- 3.06 Ecological monitoring is conducted in the seasonal wetland area as shown in Project profile of KT15 Figure ATT 4-7.2). Bird survey should be conducted in monthly and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted in wet season (April to July inclusive).



3.07 A summary of the Action/Limit (A/L) Levels for air quality, construction noise, stream water quality and ecology are shown in **Tables 3-2, 3-3, 3-4** and **3-5.**

Table 3-2 Action and Limit Levels for Air Quality Monitoring

Monitoring Station	Action Level (μg/m³)		Limit Level (µg/m³)	
Withitto ing 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 Noise 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 70dB(A) for schools and 65dB(A) during the school examination periods.

Table 3-4 Action and Limit Levels for Stream Water Quality Monitoring

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

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

Table 3-5 Action and Limit Levels for Ecology Monitoring

Parameters	Action Level	Limit Level
Bird: decrease in the total number of wetland dependent bird species or individuals of the wetland dependent bird species from baseline	20 – 40% of 1.2 individuals and 3 species	> 40% of 1.2 individuals and 3 species

^{*} Alternative Action Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 120% of upstream control station of same day.

^{**} Alternative Limit Level of the Turbidity, pH, Suspended Solid, Ammonia Nitrogen and Zinc are 130% of upstream control station of same day.



4.0 IMPACT MONITORING METHDOLOGY

MONITORING LOCATIONS

4.01 The 1-Hour TSP 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 4-1 Air Quality, Noise & Stream Water Quality Monitoring Station/Locations

Air Quality Station	
A10	Village House in Tin Sam San Tsuen
Construction Noise I	Location
N10*	Village House in Tin Sam San Tsuen
N10a	Village House in Tin Sam San Tsuen
Water Quality Locat	ions
W9A [#]	Tin Sam San Tsuen
W9B	Tin Sam San Tsuen

* 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

4.02 The meteorological data during the reporting quarter were obtained from the Lau Fau Shan Station of the Hong Kong Observatory (HKO).

MONITORING FREQUENCY AND PERIOD

1-HOUR TSP MONITORING

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 36 monitoring events were carried out in this reporting quarter.

24-HOUR TSP MONITORING

4.04 The 24-Hour TSP monitoring was conducted at station A10 once every six days. Total of 12 monitoring events were carried out in this reporting quarter.

NOISE MONITORING

4.05 Impact noise monitoring was undertaken at one location N10a once per week. Total of 12 monitoring events were carried out in this reporting quarter.

STREAM WATER QUALITY MONITORING

4.06 The stream water quality monitoring were undertaken at two locations W9A & W9B two time per week. Total of 38 monitoring events were carried out in this reporting quarter.

[#] Act as control station in impact monitoring



ECOLOGY MONITORING

4.07 Bird survey should be conducted in monthly and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted in wet season (April to July inclusive) in the seasonal wetland area.

5.0 IMPACT MONITORING IN THIS REPORTING QUARTER

5.01 The impact EM&A program was carried out by the ET in compliance with the project specific EM&A Manual in this reporting quarter. The impact monitoring schedules were presented in pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007). All the impact monitoring were undertaken in according to the monitoring schedule. Details monitoring results are present in the pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007).

AIR QUALITY

- 5.02 No 1-Hour/24-Hour TSP Action or Limit Level exceedance was recorded in this reporting quarter. Details of the impact air quality monitoring data were present in the pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007). Graphical plots of the 1-Hour and 24-Hour TSP monitoring results are shown in **Appendix E**.
- 5.03 The meteorological data of this reporting quarter are summarized in **Appendix F**.

CONSTRUCTION NOISE

5.04 No construction noise exceedance (Action/Limit Level) was recorded in this reporting quarter. Details of the impact noise monitoring data were present in the pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007). Graphical plots of the monitoring data are presented in **Appendix E**.

STREAM WATER QUALITY

5.05 No stream water quality exceedance was recorded in this reporting quarter. Details of the monitoring results were present in the pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007) and graphical plots for each parameter are presented in **Appendix E**.

ECOLOGY

- 5.06 Exceedances in ecology were recorded in this reporting quarter. Details of the monitoring results were presented in the pervious Monthly EM&A Reports (July 2007, August 2007 and September 2007) and a summary of the exceedences is presented in **Table 5-1** below.
- 5.07 Fauna survey is conducted during the wetland season (April to July), and thus are not required in the August and September monitoring. Exceedances of Limit Level at wetland birds were found in August and September monitoring. As the major construction works for the project was not commenced when those monitoring surveys were conducted, the records of non-compliance were not considered to be caused by the project.



- 5.08 Photographic records are scheduled in six-month intervals and thus are not required in this reporting quarter. No intrusions into the wetland area, or adverse impact on the wetlands, was found during the reporting quarter.
- 5.09 Exceedances in Ecology during the reporting quarter are presented in the **Table 5-1**.

Action Level Limit Level Exceedance Month Taxa **Parameters** July 2007 Bird Species no. Individual no. Fauna Species no. Individual no. Bird Limit Level August 2007 Species no. Breach Individual no. Breach Limit Level September 2007 Bird Species no. Breach

Breach

Table 5-1 Summary of Exceedances in Ecology Impact Monitoring

6.0 WASTE MANAGEMENT

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

Individual no.

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; and
 - General Refuse.
- 6.03 The quantities of waste for disposal in this reporting quarter were 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	July 2007	August 2007	September 2007
Broken Concrete (Inert) (m ³)	0	0	0
Reused in this Contract (Inert) (m ³)	0	0	0
Reused in other Projects (Inert) (m ³)	0	0	0
Disposal as Public Fill (Inert) (m ³)	0	0	0.364

Table 6-2 Summary of Quantities of C&D Wastes

Type of Waste	July 2007	August 2007	September 2007
Recycled Metal (kg)	0	0	0.65
Recycled Paper/Cardboard Packing (kg)	0	0	0
Recycled Plastic (kg)	0	0	0
Chemical Wastes (kg)	0	0	0
General Refuses (kg)	0.0175	3.5	182



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. Date of ET's environmental site inspection and monthly audit conducted by IEC were summaries in the **Table 7-1**.

Table 7-1 Date of Environmental Weekly Site Inspection and Monthly Audit

Date	Involved Parties
20 July 2007	ER, CCC and ET
25 July 2007*	ER, IEC, CCC and ET
02 August 2007	ER, CCC and ET
09 August 2007	ER, CCC and ET
16 August 2007	ER, CCC and ET
21 August 2007*	ER, IEC, CCC and ET
29 August 2007	ER, CCC and ET
06 September 2007	ER, CCC and ET
12 September 2007*	ER, IEC, CCC and ET
21 September 2007	ER, CCC and ET

Note: *Monthly IEC site audit.

7.02 No non-compliance and nine observations were recorded in this reporting quarter. The ET site inspection checklists and IEC monthly audit checklists were present in the pervious Monthly EM&A Reports (July 2007, August 2007 & September 2007).

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 quarter. The statistical summary table of environmental complaint is presented in **Table 8-1, 8-2** and **8-3**.

Table 8-1 Statistical Summary of Environmental Complaints

Donouting Dowied	Enviro	onmental Complaints S	tatistics
Reporting Period	Frequency	Cumulative	Complaint Nature
20 – 25 Jul 2007	0	0	NA
26 Jul – 25 Aug 2007	0	0	NA
26 Aug – 25 Sep 2007	0	0	NA

Table 8-2 Statistical Summary of Environmental Summons

Donauting Davied	Envi	ronmental Summons St	atistics
Reporting Period	Frequency	Cumulative	Nature
20 – 25 July 2007	0	0	NA
26 Jul – 25 Aug 2007	0	0	NA
26 Aug – 25 Sep 2007	0	0	NA

Table 8-3 Statistical Summary of Environmental Prosecution

Donouting Davied	Enviro	nmental Prosecution St	tatistics
Reporting Period	Frequency	Cumulative	Nature
20 – 25 July 2007	0	0	NA
26 Jul – 25 Aug 2007	0	0	NA
26 Aug – 25 Sep 2007	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 minimise 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.

10.0 CONCLUSION

10.01 The EM&A program in this reporting quarter (July 2007 – September 2007) 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 quarter are presented in **Table 10-1**.

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Table 10-1 Summary of the Exceedances for Impact Monitoring

Env. Quality	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air Quality	1-Hour TSP	0	Not Required for 0% Exceedance
	24-Hour TSP	0	Not Required for 0% Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Exceedance
Stream Water	DO in mg/L	0	Not Required for 0% Exceedance
	SS in mg/L	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	pН	0	Not Required for 0% Exceedance
	Ammonia Nitrogen (mg/L)	0	Not Required for 0% Exceedance
	Zinc (µg/L)	0	Not Required for 0% Exceedance
Ecology	Decrease in the total number of wetland dependent species or individuals of the surveyed faunal groups from baseline	0	Not Required for 0% Exceedance

- 10.02 No 1-Hour and 24-Hour TSP exceeded the Action/Limit Level was recorded in this reporting quarter.
- 10.03 All measured daytime construction noise levels were below the Limit level and no complaint was received in this reporting quarter.
- 10.04 No stream water quality exceeded the Action/Limit Level was recorded during the reporting quarter.
- 10.05 No exceedance on the parameters for Ecology due to the project, nor intrusions into the wetland area/adverse impact on the wetlands, was found during the reporting quarter.
- 10.06 No environmental complaint, summons or prosecution was received in this reporting quarter.

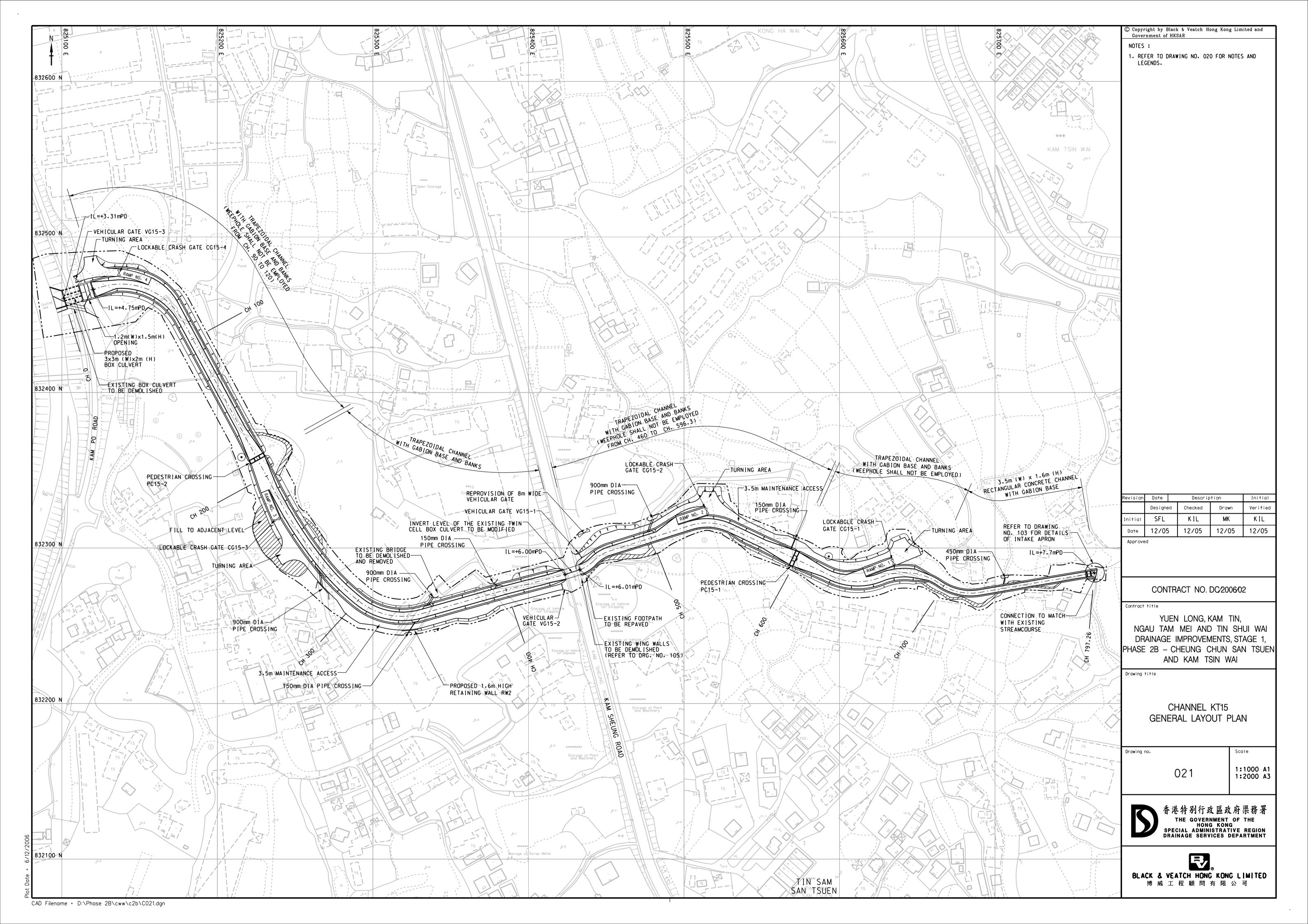
RECOMMENDATIONS

- 10.07 Based on the ET regular site inspection and IEC monthly audit in this reporting quarter (July 2007 September 2007), no non-compliance and nine observations were recorded. Details of the observations can refer to the pervious Monthly EM&A report (July 2007, August 2007 and September 2007). In general, the environmental performance of proposed channel KT15 was accepted.
- 10.08 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.



Appendix A

Project Site Layout





Appendix B

Three-Month Construction Program

CHIT CHEUNG CONSTRUCTION CO., LTD. DATE : July 2007

ask Name	Duration	Start	Finish									
				Aug		Sep		Oct		Nov		Dec
·	1 day		I .		i i							
	1 day		'07 Apr 3		1							
<u> </u>			•		1							
Master Programme of the Works	839 days	'07 Mar 21	'09 Jul 6									
		107.11	100 1 10									
-					<u> </u>							
•				<u> </u>	<u> </u>	<u> </u>	<u>+2+2+2+2+2+2+2+2+2+</u> unununununununununu	<u> </u>	<u></u>	<u></u>		<u> </u>
Section III - portions 5A1, 5A2 and 5B	740 days		'09 Jul 6									
Section IV - temp vehicular access at portion 5A1	90 days	'07 Jun 28	'07 Sep 25				9/25					
Section V - preservation and protection of existing tre	es 830 days	'07 Mar 30	'09 Jul 6		<u> </u>							1,1,1,1,1,1,1,1,1,1,1,1,1
		107.11	107.11		1					1	_	
					i					· ·	•	
Portion 2 - channel KT2					1							
Portion 3 - channel KT2	91 days		'07 Jun 28		-							
Portion 4 - channel KT15	1 day	'07 Mar 30	'07 Mar 30		1							
Portion 5 - channel KT15			'07 Jun 28		T.							
					1							
					1	ane	 				- 11/24	
Portion 5C - channel KT15			'07 Jun 28		· 1	3/20	4-1-1-1-1-1-1-1	<u>-:-:-:-:-:-:-:-:-</u>	<u>:-:-:-:-:-:-:-:-:-</u>	<u> </u>	- · · · - ·	
Portion 6 - Temp Storage Area at Chi Ho Road	1 day		'07 Mar 30		1							
Portion 7 - Berthing Area	1 day		'07 Mar 30		1							
Portion 8 - Site Accommodation	1 day	'07 Mar 30	'07 Mar 30		1							
A. Preliminary Works	830 4010	'07 Mar 21	9 Jul 60'		1							
				<u> </u>								
Environmental Monitoring and Audit	830 days		'09 Jul 6						·			
2.1 Establishment of Environmental Team	14 days	'07 Mar 30	'07 Apr 12		ī							
2.2 approval by the Engineer	7 days		'07 Apr 19		1							
	77 days	-			1							
					I							
					1							
2.4 Environmental impact monitoring and audit			'09 Jul 6	<u> </u>		1-1-1-1-1-1-1	-1-1-1-1-1-1-1-1-1-1-1					
3. Environmental Management and Environmen			'07 Jun 10		·							
3.1 Submission of draft EMP	21 days		'07 Apr 19		i							
					1							
					1							
					1							
4.2 Equipment	51 days		'07 May 19		1							
a. Contract telephone	21 days	'07 Mar 30	'07 Apr 19		i							
b. Survey equipment	45 days		'07 May 13		1							
c. Contract computer facilities	51 days	'07 Mar 30	'07 May 19		i							
					1							
installation			'07 May 12		1							
testing & commissioning	7 days		'07 May 19		1							
4.3 utilities servicing	33 days		'07 May 1		1							
a. Water	1 day		'07 Mar 30		1							
<u> </u>					I I							
·					i i							
new service	19 days		'07 May 1		1							
application	5 days		'07 Apr 17		ı							
installation			'07 May 1		1							
d. Facsimile	33 days		'07 May 1		1							
temporary service	32 days		•		1							
		-			1							
installation	14 days		'07 May 1		1							
e. Internet broadband	33 days	·	'07 May 1		1							
temporary service (56K)	32 days		'07 Apr 30		1							
new service	19 days		'07 May 1		i i							
application	5 days	'07 Apr 13	'07 Apr 17		I							
арріісацоп												
application Ta		Progre	ı	Summary		Up Critical Task		rogress			Group By Summary	
	Letter of Acceplance Date for commencement of Works Execution of Article of Agreement Master Programme of the Works Completion Dates Section II - portions 1, 2 and 3 Section III - portions 5A1, 5A2 and 5B Section IV - temp vehicular access at portion 5A1 Section V - preservation and protection of existing tree Possession of Site Portion 1 - channel KT2 Portion 3 - channel KT2 Portion 3 - channel KT2 Portion 5 - channel KT5 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5B - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road Portion 7 - Berthing Area Portion 8 - Site Accommodation A. Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 2.1 Establishment of Environmental Team 2.2 approval by the Engineer 2.3 Environmental impact monitoring a. Technical proposal & methodology b. Approval by the Engineer c. Baseline monitoring 3.1 Submission of draft EMP 3.2 Comment from the Engineer 3.3 Submission of EMP 4. Engineer's Accommodation 4.1 Renovation 4.2 Equipment a. Contract telephone b. Survey equipment c. Contract computer facilities submission approval installation testing & commissioning 4.3 utilities servicing a. Water b. Electricity c. Telephone temporary service new service application installation testinglia contract telephone temporary service new service new service application installation e. Internet broadband temporary service new service	1 day	### action of Acceptance 1 day 07 Mar 21	### Completion Dates 1 day	April Acceptance	### A 1	March 1998	1987 1987	March Marc	March Marc	March Marc	March Marc

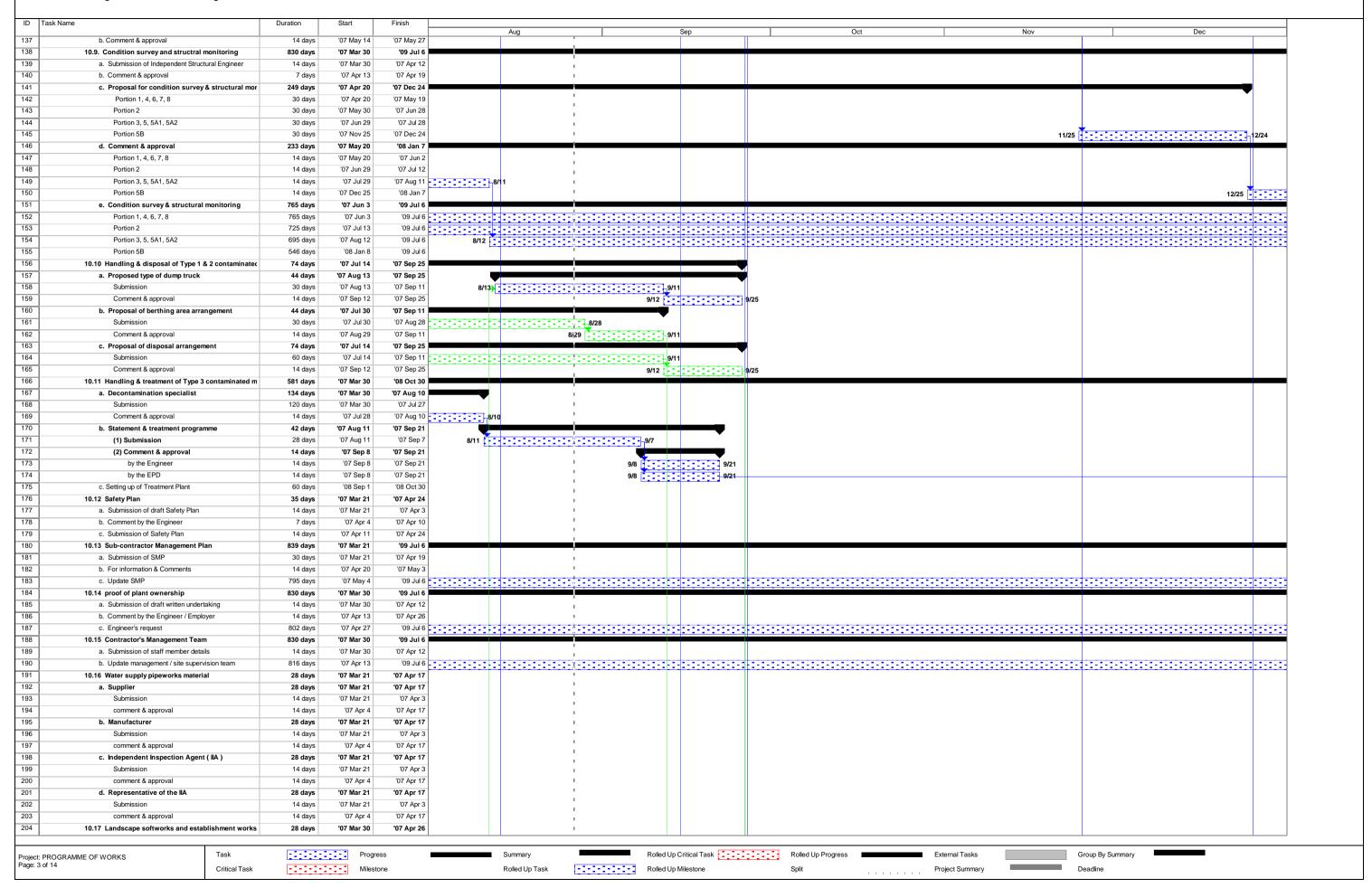
CHIT CHEUNG CONSTRUCTION CO., LTD. DATE : July 2007

	Fask Name	Duration	Start	Finish	Διια		Sep	1	Oct		Nov	Dec	
+	installation	14 days	'07 Apr 18	'07 May 1	Aug	· · ·	Эер		Oct	<u> </u>	INUV	l Dec	
\dashv	5. Contractor's Accommodation	45 days	'07 Mar 30	'07 May 13		1							
1	5.1 Provision	45 days	'07 Mar 30	'07 May 13		1							
2	a. Premises	45 days	'07 Mar 30	'07 May 13		i .							
73	b. Toilet facilities	21 days	'07 Apr 23	'07 May 13		I							
74	c. Telephone service	30 days	'07 Apr 14	'07 May 13		1							
75	d. Fascimile service	30 days	'07 Apr 14	'07 May 13		1							
76	e. Internet broadband service	30 days	'07 Apr 14	'07 May 13		ı							
77	f. Water	1 day	'07 Mar 30	'07 Mar 30		I							
78	g. electricity	1 day	'07 Mar 30	'07 Mar 30		1							
79	6. Transport (land) for the Engineer	124 days	'07 Mar 30	'07 Jul 31		1							
80	6.1 submission	7 days	'07 Mar 30	'07 Apr 5		i							
81	6.2 comment & approval	14 days	'07 Apr 6	'07 Apr 19		1							
82	6.3 delivery	103 days	'07 Apr 20	'07 Jul 31 -7/31		T.							
83	6.4 temp service	124 days	'07 Mar 30	'07 Jul 31 (7/31		1							
84	7. Transport (land) for Public Works Regional Laboratory	124 days	'07 Mar 30	'07 Jul 31		1							
35	7.1 submission	7 days	'07 Mar 30	'07 Apr 5		I							
86	7.2 comment, approval & instruction	14 days	'07 Apr 6	'07 Apr 19		ı							
37	7.3 delivery	103 days	'07 Apr 20	'07 Jul 31 7/31		1							
38	8. Signboard	150 days	'07 Mar 30	'07 Aug 26		Ų .							
89	8.1 Major	150 days	'07 Mar 30	'07 Aug 26		V							
90	submission	90 days	'07 Mar 30	'07 Jun 27		I							
91	comment & approval	90 days	'07 Apr 29	'07 Jul 27		1							
92	erection	90 days	'07 May 29	'07 Aug 26	1-1-1-1-1-1-1	8/26							
93	8.2 Minor	150 days	'07 Mar 30	'07 Aug 26		V							
94	submission	90 days	'07 Mar 30	'07 Jun 27		1							
95	comment & approval	90 days	'07 Apr 29	'07 Jul 27		I							
96	erection	90 days	'07 May 29	'07 Aug 26	-1-1-1-1-1-1-1	8/26							
97	9. Telephone hotline	15 days	'07 Apr 29	'07 May 13		1							
98	9.1 Engineer's instruction	1 day	'07 Apr 29	'07 Apr 30		ı							
99	9.2 installation	14 days	'07 Apr 30	'07 May 13		I							
100	10. Contractual general submissions	839 days	'07 Mar 21	'09 Jul 6									
101	10.1 programmes	28 days	'07 Mar 21	'07 Apr 17		1							
102	a. GCC Clause 16 programme	14 days	'07 Mar 21	'07 Apr 3		i .							
103	b. Works programme & financial programme	14 days	'07 Apr 4	'07 Apr 17		T.							
104	c. 3-month rolling programme	14 days	'07 Apr 4	'07 Apr 17		I .							
105	10.2 contractor's superintendence	14 days	'07 Mar 30	'07 Apr 12		1							
106	a. Agent	7 days	'07 Mar 30	'07 Apr 5		1							
107	b. Surveyor	14 days	'07 Mar 30	'07 Apr 12		I							
108	c. Sub-agent	14 days	'07 Mar 30	'07 Apr 12		I .							
109	d. Geotechnical Engineer	7 days	'07 Mar 30	'07 Apr 5		1							
110	e. Geotechnical Supervisor	14 days	'07 Mar 30	'07 Apr 12		1							
111	f. Foreman - concrete	14 days	'07 Mar 30	'07 Apr 12		i .							
112	g. Foreman - drainage	14 days	'07 Mar 30	'07 Apr 12		I							
113	h. Staff Organization Plan	14 days	'07 Mar 30	'07 Apr 12		1							
114	10.3 Safety Organization	14 days	'07 Mar 30	'07 Apr 12		1							
115	a. Safety Officer	14 days	'07 Mar 30	'07 Apr 12		ı							
116	b. Safety Supervisor	14 days	'07 Mar 30	'07 Apr 12		I .							
117	c. Safety Representative	14 days	'07 Mar 30	'07 Apr 12		1							
118 119	10.4 TTMS design a. Independent Traffic Consultant	7 days	'07 Mar 30	'07 Apr 5		1							
119	a. Independent Framic Consultant b. Traffic Engineer	7 days	'07 Mar 30	'07 Apr 5 '07 Apr 5		ı							
121	-	7 days	'07 Mar 30	'07 Apr 5		I							
122	10.5 Assistant to Engineer a. Chainmen (4)	33 days	'07 Mar 30	'07 May 1		1							
123	b. Watchmen (2)	33 days	'07 Mar 30	'07 May 1		1							
24	c. Field assistant (1)	33 days	'07 Mar 30	'07 May 1		i .							
25	d. Technical assistant (1)	33 days	'07 Mar 30	'07 May 1		I							
26	e. Clerical assistant (1)	33 days	'07 Mar 30	'07 May 1		1							
127	f. Office assistant (1)	33 days	'07 Mar 30	'07 May 1		1							
28	10.6 Underground service detection equipment	35 days	'07 Mar 30	'07 May 3		ı							
29	a. Submission	7 days	'07 Mar 30	'07 Apr 5		ı							
30	b. Comment & approval	14 days	'07 Apr 6	'07 Apr 19		1							
31	c. Provision	14 days	'07 Apr 20	'07 May 3		1							
132	10.7 Independent Checking of Temporary Works	28 days	'07 Mar 30	'07 Apr 26		1							
133	a. Submission of independent checking engineer	14 days	'07 Mar 30	'07 Apr 12		i .							
134	b. Comment & approval	14 days	'07 Apr 13	'07 Apr 26		I .							
135	10.8 Trip ticket system for C & D material	59 days	'07 Mar 30	'07 May 27		1							
136	a. Submission of site management plan	45 days	'07 Mar 30	'07 May 13		1							
	a. Cashington of the management plant	-to uayo	57 Mar 50	5. may .0	<u> </u>	-							
					0		Rolled Up Critical Task			Fitamel To 1		Out of the Comment	
	I Took	17-7-	Progres	S	Summary		Rolled Up Critical Task	Rolled Up Progr	SS	External Tasks		Group By Summary	
oject: F ige: 2 d	PROGRAMME OF WORKS	-1-1-1	Milestor			-1-1-1-1-1-1						· · · · · · · · · · · · · · · · · · ·	

Contract No. : DC / 2006 / 02

Contract Title: Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements,

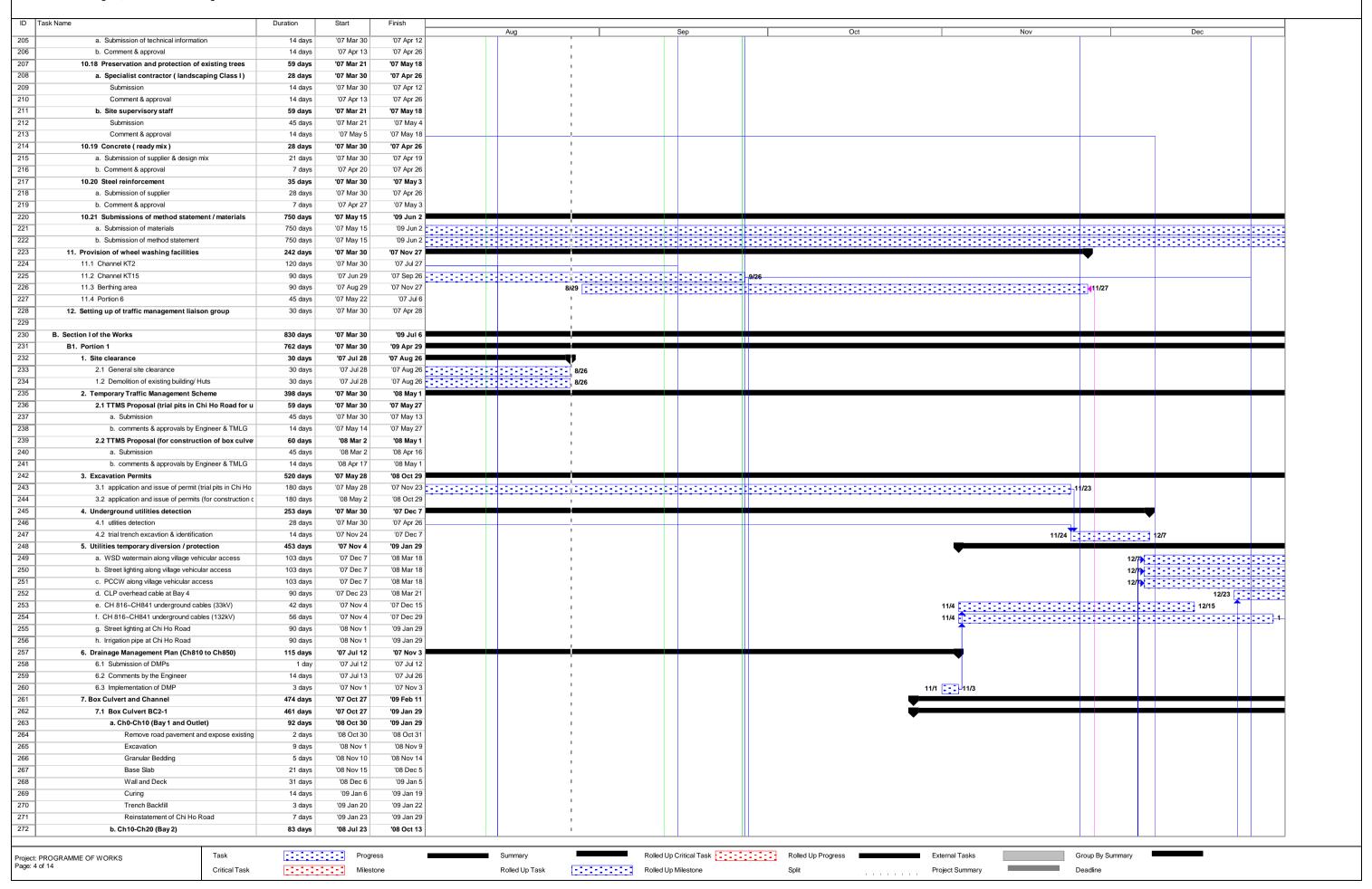
Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai



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

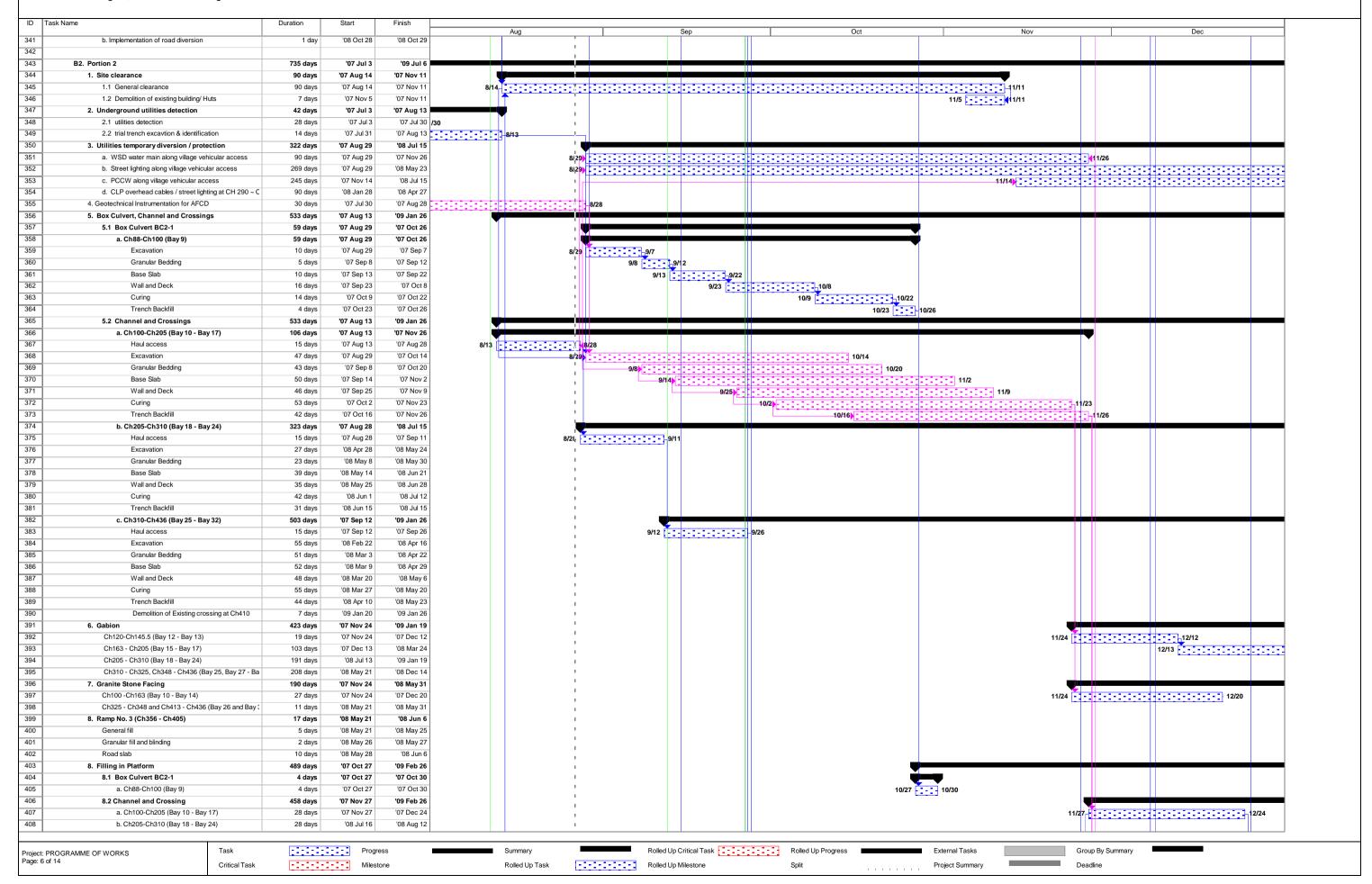


Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Excavation Granular Bedding Base Slab	9 days 5 days 21 days 31 days 14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 5 days 9 days 14 days 4 days 14 days 14 days 14 days	'08 Jul 23 '08 Aug 1 '08 Aug 6 '08 Aug 27 '08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Jul 31 '08 Aug 5 '08 Aug 26 '08 Sep 26 '08 Oct 10 '08 Oct 13 '07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30 '08 Apr 4	Aug	Sep	Oct 10/27	Nov 11/10	Dec
Base Slab Wall and Deck Curing Trench Backfill c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	21 days 31 days 31 days 14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 4 days 5 days 9 days 4 days 4 days 5 days 9 days 16 days 14 days 4 days	'08 Aug 6 '08 Aug 27 '08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Aug 26 '08 Sep 26 '08 Oct 10 '08 Oct 13 '07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 11/9 11/10 - 11/19 11/10 11/19	12/4
Wall and Deck Curing Trench Backfill c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	31 days 14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 4 days 4 days 5 days 9 days 16 days 14 days 4 days 4 days	'08 Aug 27 '08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Sep 26 '08 Oct 10 '08 Oct 13 '07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 11/9 11/10 - 11/19 11/10 11/19	12/4
Curing Trench Backfill c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay) Excavation Granular Bedding Base Slab Wall and Deck	14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 4 days 57 days 9 days 16 days 14 days 4 days 5 days 4 days 4 days 5 days 9 days 16 days 14 days 4 days	'08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Oct 10 '08 Oct 13 '07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 11/9 11/10 - 11/19 11/10 11/19	12/4
Trench Backfill c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill c. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay) Excavation Granular Bedding Base Slab Wall and Deck	3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 4 days 4 days 5 days 9 days 16 days 14 days 4 days	'08 Oct 11 '07 Oct 27 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Oct 13 '07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 4 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/10 - 11/19 11/10 - 11/19	12/4
c. Ch20-Ch32 (Bay 3) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing	57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 4 days 4 days 5 days 4 days 5 days 4 days 4 days 4 days 4 days	'07 Oct 27 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 11/9 11/10 - 11/9 11/10 11/19	12/4
Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days	'07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 11/9 11/10 - 11/19 11/10 11/19 11/18	
Granular Bedding Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days	'07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30			10/27	11/5 - 1-1-11/9 11/10 - 1-1-1-11/18 11/19 - 1-1-1-1	
Base Slab Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days	'07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30				11/5 [
Wall and Deck Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days	'07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30				11/10	12/4
Curing Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days	'07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30				11/19	12/4
Trench Backfill d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days	'07 Dec 19 '08 Mar 22 '08 Mar 22 '08 Mar 31 '08 Apr 5	'07 Dec 22 '08 May 17 '08 Mar 30	1				_ * _ * _ * _ \
d. Ch32-Ch42 (Bay 4) Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	57 days 9 days 5 days 9 days 16 days 14 days 4 days	'08 Mar 22 '08 Mar 22 '08 Mar 31 '08 Apr 5	'08 May 17 '08 Mar 30	1				12/19 12/18
Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	9 days 5 days 9 days 16 days 14 days 4 days	'08 Mar 22 '08 Mar 31 '08 Apr 5	'08 Mar 30	1				12/19 12/22
Granular Bedding Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	5 days 9 days 16 days 14 days 4 days	'08 Mar 31 '08 Apr 5		The state of the s				
Base Slab Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay) Excavation Granular Bedding Base Slab Wall and Deck	9 days 16 days 14 days 4 days	'08 Apr 5	'08 Apr 4					
Wall and Deck Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	16 days 14 days 4 days		1.5	:				
Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	14 days 4 days	'08 Apr 14	'08 Apr 13	i				
Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	4 days		'08 Apr 29	l l				
e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck	4 days	'08 Apr 30	'08 May 13	1				
Excavation Granular Bedding Base Slab Wall and Deck		'08 May 14	'08 May 17	I				
Excavation Granular Bedding Base Slab Wall and Deck	103 days	'07 Dec 7	'08 Mar 18	!				
Granular Bedding Base Slab Wall and Deck	25 days	'07 Dec 7	'07 Dec 31					12/
Base Slab Wall and Deck	8 days	'08 Jan 1	'08 Jan 8	i i				1/1
Wall and Deck	9 days	'08 Jan 9	'08 Jan 17	1				"'
	16 days	'08 Jan 27	'08 Feb 11	1				
Curing	14 days	'08 Feb 12	'08 Feb 25					
Trench Backfill	6 days	'08 Mar 13	'08 Mar 18					
f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay	103 days	'07 Dec 7	'08 Mar 18					
Excavation		'07 Dec 7	'07 Dec 31	1				130
	25 days			1				12/4
Granular Bedding	8 days	'08 Jan 1	'08 Jan 8	1				1/1
Base Slab	9 days	'08 Jan 18	'08 Jan 26	!				
Wall and Deck	16 days	'08 Feb 12	'08 Feb 27					
Curing	14 days	'08 Feb 28	'08 Mar 12					
Trench Backfill	6 days	'08 Mar 13	'08 Mar 18	i i				
7.2 Channel	387 days	'08 Jan 22	'09 Feb 11	1				
a. Ch832-Ch844 (Bay 56b)	91 days	'08 Jan 22	'08 Apr 21	1				
Excavation (including contamination material:	25 days	'08 Jan 22	'08 Feb 15	!				
Granular Bedding	3 days	'08 Feb 16	'08 Feb 18					
Base Slab	22 days	'08 Feb 19	'08 Mar 11	i i				
Wall and Deck	23 days	'08 Mar 12	'08 Apr 3	1				
Curing	14 days	'08 Apr 4	'08 Apr 17	1				
Trench Backfill	4 days	'08 Apr 18	'08 Apr 21	1				
b. Demolition of existing crossing	20 days	'08 Nov 17	'08 Dec 6	!				
c. Ch800-833 (Bay 56a)	67 days	'08 Dec 7	'09 Feb 11					
Excavation (including contamination material:	12 days	'08 Dec 7	'08 Dec 18					
Granular Bedding	3 days	'08 Dec 19	'08 Dec 21	1				
Base Slab	12 days	'08 Dec 22	'09 Jan 2	·				
Wall and Deck	22 days	'09 Jan 3	'09 Jan 24	!				
Curing	26 days	'09 Jan 13	'09 Feb 7					
Trench Backfill		'09 Jan 27	'09 Feb 11					
			'09 Mar 3	1				
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				1				
14. Landscape softworks / hardworks (except Bays 56a an		'09 Jan 30	'09 Apr 29					_
15. Diversion of Village Vehicular Access	1 day	'07 Dec 6		i l				12/6 -12/6
16. Road Diversion in Chi Ho Road		'08 Oct 21	'08 Oct 29	1				
Construction of temporary road above Bay 2	7 days	'08 Oct 21	'08 Oct 27		<u> </u>			
	Excavation (including contamination material: Granular Bedding Base Slab Wall and Deck Curing Trench Backfill b. Demolition of existing crossing c. Ch800-833 (Bay 56a) Excavation (including contamination material: Granular Bedding Base Slab Wall and Deck Curing Trench Backfill 8. Filling in Platform 8.1 Box Culvert a. Ch10-Ch20 (Bay 2) b. Ch20-Ch88 (Bay 3 to Bay 8) 8.2 Channel a. Ch832-Ch844 (Bay 56b) b. Ch800-833 (Bay 56a) 9. Geotechnical Instrumentation for CLP Pylon 10. Drainage works (except Bays 56a and 56b) a. storm drain with manhole b. surface drain 11. Water supply pipeworks 12. Roads and paving (except Bays 56a and 56b) 13. Street furnitures / traffic sign / road marking (except Bay 14. Landscape softworks / hardworks (except Bays 56a and 15. Diversion of Village Vehicular Access 16. Road Diversion in Chi Ho Road	Excavation (including contamination material: Granular Bedding	Excavation (including contamination material: Granular Bedding 3 days 108 Feb 16 Base Slab 22 days 108 Feb 19 Wall and Deck 23 days 108 Mar 12 Curing 14 days 108 Apr 4 Trench Backfill 4 days 108 Apr 18 b. Demolition of existing crossing 20 days 108 Nov 17 c. Ch800-833 (Bay 56a) 67 days 108 Dec 7 Excavation (including contamination material: 12 days 108 Dec 7 Granular Bedding 3 days 109 Dec 7 Granular Bedding 3 days 108 Dec 7 Granular Bedding 3 days 109 Days 109 Jan 13 Trench Backfill 16 days 109 Jan 27 8. Filling in Platform 350 days 108 Mar 19 8.1 Box Culvert 216 days 108 Mar 19 8.1 Box Culvert 216 days 108 Mar 19 8.1 Box Culvert 216 days 108 Mar 19 8.2 Channel 112 days 108 Mar 19 8.2 Channel 112 days 108 Mar 19 8.2 Channel 112 days 108 Mov 12 a. Ch832-Ch844 (Bay 56b) 5 days 108 Nov 12 b. Ch800-833 (Bay 56a) 20 days 109 Feb 12 9. Geotechnical Instrumentation for CLP Pylon 30 days 107 Jul 30 10. Drainage works (except Bays 56a and 56b) 90 days 108 Apr 29 a. storm drain with manhole 90 days 108 Apr 29 b. surface drain 45 days 108 Apr 29 12. Roads and paving (except Bays 56a and 56b) 52 days 109 Feb 4 14. Landscape softworks / hardworks (except Bays 56a and 90 days 109 Jan 30 15. Diversion of Village Vehicular Access 1 day 107 Dec 6 16. Road Diversion in	Excavation (including contamination material 25 days '08 Jan 22 '08 Feb 15 Garanular Bedding 3 days '08 Feb 16 '08 Feb 18 Base Slab 22 days '08 Feb 19 '08 Mar 11 Wall and Deck 23 days '08 Mar 12 '08 Apr 37 Curing 14 days '08 Apr 18 '08 Apr 47 Wall and Deck 23 days '08 Mar 12 '08 Apr 17 Trench Backfill 4 days '08 Apr 18 '08 Apr 47 Wall and Deck 08 Apr 18 '08 Apr 18 Wall Apr 21 Wall Apr 22 Wall Apr 23 Wall Apr 24 Wall Apr 24 Wall Apr 25 Wall Apr 26 Wall Apr 27 Wall Apr 27 Wall Apr 28 Wall Apr 29 Wall Apr 28 Wall Apr 29 Wall Apr 29 Wall Apr 29 Wall Apr 28 Wall Apr 29 Wall Apr 28 Wall Apr 29 Wall Apr 29 Wall Apr 28 Wall Apr 29 Wall	Excavation (including contamination material	Exavation (including contamination material 25 days 08 land 22 08 e76 l 5	Exemption (including contamination material)	Execution lacturing conternation materials 25 days 10 Ms Jun 22 Ms 10 Ms 12 Ms

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



1.2 Denotition of exciting building Huse 14 days 07 Nov 30 07 Dec 13 1	Oct Nov Dec
1.	12/4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 12/23
### 10	12/4
1.	 12/4
C. Child Child (Bull 2015)	1223
15 2. surface data 15 15 15 15 15 15 15 1	
14	
1. 1. 1. 1. 1. 1. 1. 1.	
10	12/25
10 Wiley angly prevented 10 days 10 da	
11 Reads and packing 17 40p	
142 S. C. CORD CLASS (16 pt 1 pt 1 pt 2 pt 2 pt 1 pt 1 pt 2 pt 1 pt 1	
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12 Street furnitures Frantis cligar From annahring 153 clays 99 Fib.4 93 Fib.4 93 Fib.4 93 Fib.4 93 Fib.4 94 Fib.4 94 Fib.4 95 Fib.4	
22	
10	
13. Landscape orthworks Nacritowins 21 days 10 No. 16 10 Per 24	
22	
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1.	
19. Periton 1. Six clearance	11/27 [
1.	11/41 <u> </u>
132 1.1 Germatic destination (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
13.3 1.2 Derrotion of existing bulleting Hubbs 1 14 days (V. Nov. 30) (V. Dec 13) 44. 2. Uniferround willing extension (Part Adapts (V. Nov. 30) (V. Nov. 30) 45. 4.1 utilises detection (2.4 days (V. Nov. 30) (V. Nov. 31) 4.1 utilises detection (1.4 days (V. Nov. 30) (V. Nov. 31) 4.2 mill renor household is detection (1.4 days (V. Nov. 30) (V. Nov. 30) 5. Unificial temporary diversion / protection (1.53 days (V. Nov. 1) (V. Nov. 20) 5. Soeree (pring large access as CH 1150) (1.53 days (V. Nov. 1) (V. Nov. 1) 5. Description of significant (V. Nov. 1) (V. Nov. 1) 5. Description of protection of Protection (V. Nov. 1) 5. Description of Protection (-1
2. Underground utilities detection	11/30
1.	1.40 <u></u> 7-10
14 15 15 15 15 15 15 15	
337 3. Utilities temporary diversion / protection 153 days 108 Nov 1 109 Apr 2 338 a. IVSD vater main along village access of CH 1150 153 days 108 Nov 1 109 Feb 1 340 c. PC/W abrg village access at CH 1150 153 days 108 Nov 1 109 Feb 1 341 4. Parliange Management Plan 716 days 107 Jul 12 342 4.1 Submission of DMPs 1 day 107 Jul 12 343 4.2 Comments by the Engineer 14 days 107 Jul 12 345 4.2 Comments by the Engineer 14 days 107 Jul 12 35 5. Channell and Crossings 586 days 107 Sep 27 109 Jun 28 346 5. Channell and Crossings 586 days 107 Sep 27 109 Jun 28 347 Hual access 15 days 100 Jun 12 347 Hual access 15 days 100 Jun 12 348 Excention (Including contamination material) 45 days 109 Jun 28 349 Excention (Including contamination material) 45 days 109 Feb 2 109 Mar 13 350 Garnau's Bedding 42 days 109 Feb 2 109 Mar 29 351 Guring 42 days 100 Feb 2 109 Mar 29 352 Curing 42 days 100 Feb 2 100 Mar 19 353 Curing 42 days 100 Feb 2 100 Mar 19 355 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 19 355 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 19 355 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 19 356 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 20 357 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 20 358 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 20 359 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 20 350 D. Christo-Chisto (Bay 40 - Bay 45) 470 days 100 Feb 2 100 Mar 20 351 D. Christo-Chisto	
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140 C. P.CCW lang vilage access at CH 1150 153 days 108 Nov1 109 Apr 2 1 141	
41	
42 4.1 Subrinsianon of DMPs	
444 4.3 Implementation of DMP 669 days 77 Sep 7 99 Jun 26 99 Apr 20 445 5. Channel and Crossings 598 days 77 Sep 7 109 Apr 20 446 a. Ch436-Ch530 (Bay 33 - Bay 39) 564 days 77 Sep 27 109 Apr 20 107 Oct 11 447 Haul access 156 days 107 Sep 27 109 Apr 12 107 Oct 11 468 Flow diversion 15 days 109 Jan 24 109 Mar 13 10 days 109 Jan 24 109 Mar 13 10 Sep 27 109 Apr 10 Sep 28 109 Sep 28 109 Sep 28 109 Sep 28 109 Sep 29 109	
S. Channel and Crossings S98 days V7 Sep 1 V9 Apr 20	
	, истороно на поделена на п
Haul access 15 days 07 Sep 27 07 Oct 11	
Flow diversion	
Flow diversion 10 days 09 Jan 14 09 Jan 23	10/11
Base Slab 39 days 109 Feb 9 109 Mar 19 109 Mar 19 109 Mar 26 109 Mar 27 109 Mar 13 109 Mar 12 109 Mar 28 108 Mov 2 108 Mov 2 108 Mov 11 109 Mar 26 109 Mar 27 109 Mar 27 109 Mar 28	
Wall and Deck 35 days '09 Feb 20 '09 Mar 26	
153 Curing	
Trench Backfill 31 days '09 Mar 13 '09 Apr 12 '09 Jan 23 '05	
155 15	
Haul access	
Flow diversion	
Excavation (including contamination material) 45 days '08 Nov 12 '08 Dec 26	10/12 10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Granular Bedding	
Base Slab 33 days '08 Nov 28 '08 Dec 30	
Wall and Deck 29 days '08 Dec 9 '09 Jan 6	
Curing 36 days 108 Dec 16 109 Jan 20	
10 10 10 10 10 10 10 10	
164 c. Ch630-Ch730 (Bay 46 - Bay 52) 184 days '07 Oct 27 '08 Apr 27 165 Haul access 15 days '07 Oct 27 '07 Nov 10 166 Flow diversion 10 days '08 Feb 9 '08 Feb 18 167 Excavation (including contamination material) 49 days '08 Feb 9 '08 Mar 28 168 Granular Bedding 45 days '08 Feb 19 '08 Apr 3 169 Base Slab 34 days '08 Feb 25 '08 Mar 29 170 Wall and Deck 35 days '08 Mar 7 '08 Apr 10 171 Curing 42 days '08 Mar 14 '08 Apr 24	
Haul access 15 days '07 Oct 27 '07 Nov 10	
10 days 108 Feb 9 108 Feb 18 108 Feb 18 108 Feb 19 108 Feb	10/27
Excavation (including contamination material)	10/27 11/10
Granular Bedding	
69 Base Slab 34 days '08 Feb 25 '08 Mar 29 70 Wall and Deck 35 days '08 Mar 7 '08 Apr 10 71 Curing 42 days '08 Mar 14 '08 Apr 24	
70 Wall and Deck 35 days '08 Mar 7 '08 Apr 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
171 Curing 42 days '08 Mar 14 '08 Apr 24	
473 d. Ch730-Ch800 (Bay 53 - Bay 55) 161 days '07 Sep 1 '08 Feb 8	
474 Haul access 6 days '07 Sep 1 '07 Sep 6	
475 Flow diversion 10 days '07 Sep 7 '07 Sep 16	
476 Excavation (including contamination material) 38 days '07 Nov 27 '08 Jan 3	11/27)
epiect: PROGRAMME OF WORKS Task Task Task Progress Summary Rolled Up Critical Task	Rolled Up Progress External Tasks Group By Summary

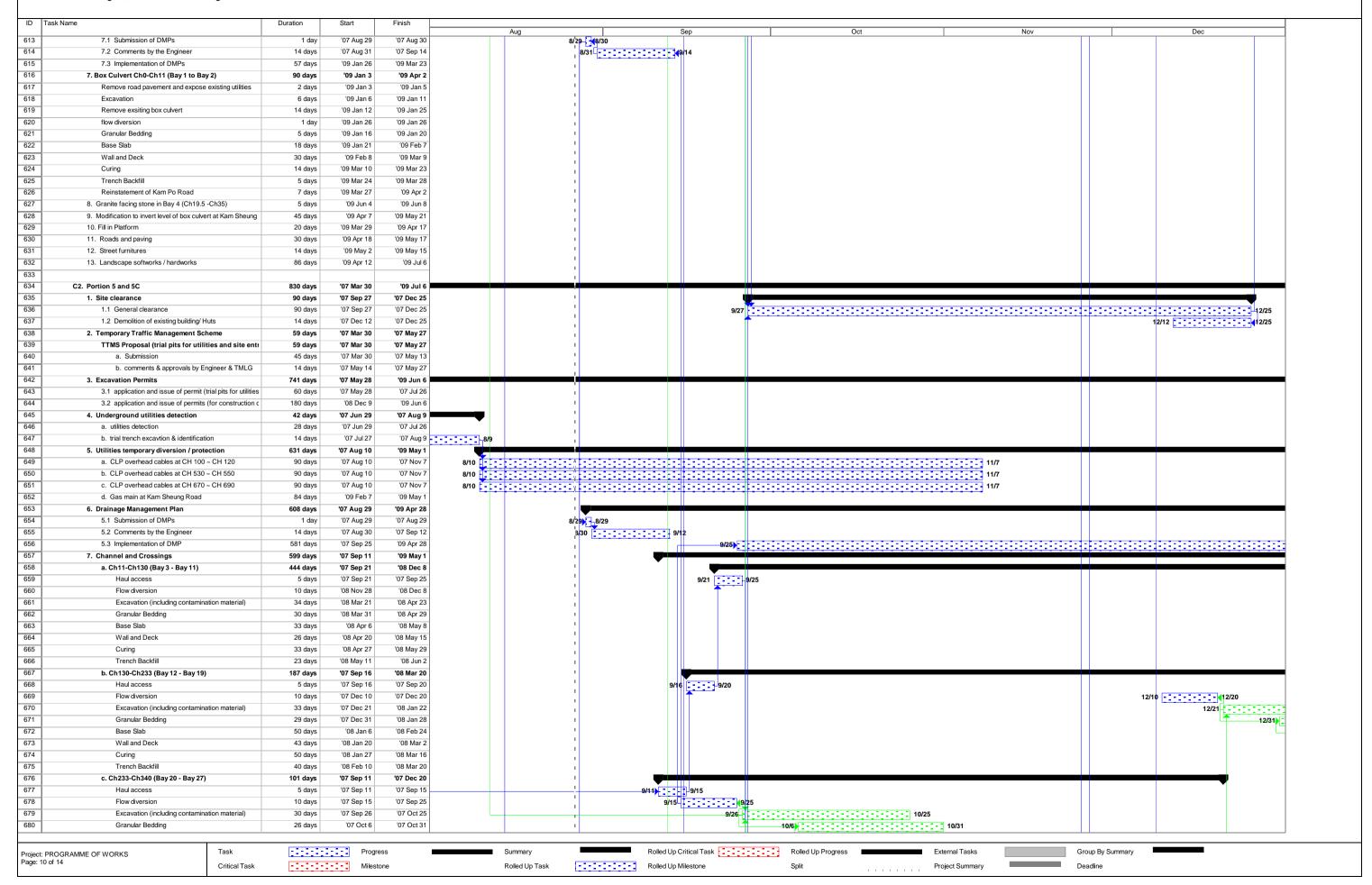
ID Task	k Nama	Duration	Stort	Einich									
ID Task	KName	Duration	Start	Finish	Aug		Sep		Oct		Nov	Dec	
477	Granular Bedding	34 days		'08 Jan 9								12/7	
478	Base Slab	34 days		'08 Jan 15		i						12/13	
479	Wall and Deck	30 days		'08 Jan 22		1						12/2	
480	Curing	37 day		'08 Feb 5		1							12/31
481	Trench Backfill	26 days		'08 Feb 8		i							
482 483	e. Ch840-Ch1037 (Bay 56c - Bay 67)	432 days		'08 Nov 11		1	7						
484	Haul access Flow diversion	10 days		'07 Sep 16 '08 Jul 15		9//	/ 9/16						
485	Excavation (including contamination ma	10 days aterial) 66 days		'08 Sep 19		1							
486	Granular Bedding	64 days		'08 Sep 27		i							
487	Base Slab	79 days		'08 Oct 18		1							
488	Wall and Deck	75 days		'08 Oct 25		1							
489	Curing	82 days		'08 Nov 8									
490	Trench Backfill	71 day:	-	'08 Nov 11		1							
491	f. Ch1037-Ch1160 (Bay 68 - Bay 71)	582 days		'09 Apr 20		1							
492	Haul access	5 days		'07 Sep 21			9/17 9/21						
493	Flow diversion	10 days	s '09 Jan 23	'09 Feb 1		i							
494	Excavation and Handling of Type 3 Co	ntaminated 33 days	s '09 Feb 2	'09 Mar 6		1							
495	Granular Bedding	29 days		'09 Mar 12		1							
496	Base Slab	28 days	s '09 Feb 18	'09 Mar 17		1							
497	Wall and Deck	34 days		'09 Apr 3		1							
498	Curing	41 day:		'09 Apr 17		1							
499	Trench Backfill	30 days		'09 Apr 20		1							
500	g. Ch1146-Ch1330 (Bay 72 - Bay 84)	499 days		'09 Feb 1		1							
501	Haul access	5 days		'07 Sep 26		1	9/22	9/26					
502	Flow diversion	10 day:		'08 Oct 31		1							
503 504	Demolition of existing crossing (Bay 72			'08 Nov 18 '08 Nov 23		1							
505	Demolition of existing footbridge (Bay 8 Excavation and Handling of Type 3 Co			'08 Dec 27		i							
506	Granular Bedding	ntaminated 57 days		'09 Jan 2		1							
507	Base Slab	53 day		'09 Jan 8									
508	Wall and Deck	49 days		'09 Jan 15									
509	Curing	56 day		'09 Jan 29		1							
510	Trench Backfill	45 day:		'09 Feb 1		1							
511	6. Gabion	507 days		'09 Jun 26		1							
512	a. Bay 33- Bay39 (Ch436-Ch530)	100 day		'09 Jun 26		i							
513	b. Bay 40 - Bay 45 (CH530-Ch630)	120 days	s '09 Jan 21	'09 May 20		1							
514	c. Bay 46 - Bay 52 (Ch630-Ch730)	247 days	s '08 Apr 25	'08 Dec 27									
515	d. Bay 53 - Bay 55 (Ch730-Ch800)	37 days	s '08 Feb 6	'08 Mar 13									
516	e. Bay 56c - Bay 67 (Ch840-Ch1037)	200 days	s '08 Nov 9	'09 May 27		1							
517	f. Bay 68 - Bay 71 (Ch1037-Ch1160)	60 days	s '09 Apr 18	'09 Jun 16		1							
518	g. Bay 72 - Bay 84 (Ch1160-Ch1330)	130 days		'09 Jun 8									
519	7. Granite Stone Facing	460 days		'09 May 10		1							
520	Bay 54 to Bay 55 (Ch738 - Ch800)	78 day:		'08 Apr 23		1							
521	Bay 68 and Bay 72 (Ch1038 -Ch1165)	23 day		'09 May 10									
522 523	Bay 83 and Bay 84 (Ch1301-Ch1330)	7 day:		'09 Feb 5		1							
523	8. Temp Crossing at Bay 71 (Ch1145) 8.1 Construction	86 days		'09 Feb 3 '08 Nov 14		1							
525	8.2 Pesdestrian diversion	5 days		'08 Nov 15		1							
526	8.3 Demolition of Temp crossing	2 day		'09 Feb 3		1							
527	9. Ramp No. 2 (Ch752 - Ch800, Bay 55)	17 days		'08 Feb 22		1							
528	General fill	5 days		'08 Feb 10		1							
529	Granular fill and blinding	2 days		'08 Feb 12		1							
530	Road slab	10 days		'08 Feb 22		1							
531	10. Ramp No. 1 (Ch1052 - Ch1100, Bay 68)	31 days		'09 May 18		1							
532	base slab	12 days		'09 Apr 29		1							
533	Wall	10 days		'09 May 9		1							
534	General fill	5 days	s '09 May 10	'09 May 14		1							
535	Granular fill and blinding	2 days		'09 May 16		1							
536	Road slab	2 days	s '09 May 17	'09 May 18		1							
537	11. Pedestrian Temporary Crossing at Bay 8	3 (Ch1306) 85 days	s '08 Nov 11	'09 Feb 3		1							
538	11.1 Construction	5 days		'08 Nov 15		1							
539	11.2 Pedestrian diversion	1 da		'08 Nov 16		1							
540	11.3 Demolition of Temp crossing	2 days		'09 Feb 3		1				_			
541	12. Retaining Wall RW1 (Ch430-Ch490)	113 days		'08 Feb 21		1							
542	Excavation	25 day:		'07 Nov 25		i				11/1		1/25	
543	Granular bedding	7 day:		'07 Dec 2		1					11/26	12/2	
544	Base slab	24 days	s '07 Dec 3	'07 Dec 26		ı						12/3	12/26
	OGRAMME OF WORKS	sk	Progre	ess	Summary		Rolled Up Critical Task	Rolled Up F	Progress	External Tasks		Group By Summary	
age: 8 of 1	4	tical Task	Milesto	one	Rolled Up Task	-0-0-0-0-0	Rolled Up Milestone	Split		Project Summary		Deadline	
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ID Tas	ik Name	Duration	Start	Finish	A	-	0	2 .		1	De-
545	Wall	26 days	'07 Dec 27	'08 Jan 21	Aug		Sep	Oct	Nov		Dec 12/27
546	Curing	14 days	'08 Jan 22	'08 Feb 4		1					
547	Backfilling	17 days	'08 Feb 5	'08 Feb 21		i					
548	13. Filling in Platform	454 days	'08 Feb 9	'09 May 7		1					
549	a. Bay 33- Bay39 (Ch436-Ch530)	25 days	'09 Apr 13	'09 May 7		1					
550 551	b. Bay 40 - Bay 45 (CH530-Ch630)	28 days	'09 Jan 24	'09 Feb 20		1					
552	c. Bay 46 - Bay 52 (Ch630-Ch730) d. Bay 53 - Bay 55 (Ch730-Ch800)	28 days 19 days	'08 Apr 28 '08 Feb 9	'08 May 25 '08 Feb 27		1					
553	e. Bay 56c - Bay 67 (Ch844-Ch1037)	62 days	'08 Nov 12	'09 Jan 12		1					
554	f. Bay 68 - Bay 71 (Ch1037-Ch1146)	10 days	'09 Apr 21	'09 Apr 30		1					
555	g. Bay 72 - Bay 84 (Ch1146-Ch1330)	14 days	'09 Feb 2	'09 Feb 15		1					
556	14. Drainage works	489 days	'08 Feb 19	'09 Jun 21		1					
557	14.1 storm drain with manhole	459 days	'08 Feb 19	'09 May 22		1					
558	a. Bay 33- Bay39 (Ch436-Ch530)	30 days	'09 Apr 23	'09 May 22		1					
559	b. Bay 40 - Bay 45 (CH530-Ch630)	20 days	'09 Feb 3	'09 Feb 22		1					
560	c. Bay 46 - Bay 52 (Ch630-Ch730)	20 days	'08 May 8	'08 May 27		1					
561	d. Bay 53 - Bay 55 (Ch730-Ch800)	20 days	'08 Feb 19	'08 Mar 9		1					
562 563	e. Bay 56c - Bay 67 (Ch844-Ch1037) f. Bay 68 - Bay 71 (Ch1037-Ch1146)	90 days	'08 Nov 22 '09 May 1	'09 Feb 19 '09 May 20							
564	g. Bay 72 - Bay 84 (Ch1146-Ch1330)	20 days 20 days	'09 Feb 12	'09 May 20		1					
565	14.2. surface drain	480 days	'08 Feb 28	'09 Jun 21							
566	a. Bay 33- Bay39 (Ch436-Ch530)	45 days	'09 May 8	'09 Jun 21		1					
567	b. Bay 40 - Bay 45 (CH530-Ch630)	45 days	'09 Feb 21	'09 Apr 6		1					
568	c. Bay 46 - Bay 52 (Ch630-Ch730)	45 days	'08 May 26	'08 Jul 9							
569	d. Bay 53 - Bay 55 (Ch730-Ch800)	45 days	'08 Feb 28	'08 Apr 12		1					
570	e. Bay 56c - Bay 67 (Ch844-Ch1037)	45 days	'09 Jan 13	'09 Feb 26		1					
571	f. Bay 68 - Bay 71 (Ch1037-Ch1146)	45 days	'09 May 1	'09 Jun 14		1					
572	g. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	'09 Feb 16	'09 Apr 1		1					
573	15. Roads and paving	168 days	'09 Jan 13	'09 Jun 29		i					
574	a. Ch800-Ch881	60 days	'09 Jan 13	'09 Mar 13		1					
575 576	b. Ch881-CH1037 c. CH1037-CH1165	52 days 60 days	'09 Mar 14 '09 May 1	'09 May 4 '09 Jun 29		1					
577	16. Street furnitures / traffic sign / road marking	145 days	'09 Feb 12	'09 Jul 6		i					
578	a. Ch800-Ch881	37 days	'09 Feb 12	'09 Mar 20		1					
579	b. Ch881-CH1037	37 days	'09 Apr 13	'09 May 19		!					
580	c. CH1037-CH1165	37 days	'09 May 31	'09 Jul 6		i					
581	17. Landscape softworks / hardworks	246 days	'08 Nov 3	'09 Jul 6		1					
582	a. Bay 33- Bay39 (Ch436-Ch530)	30 days	'09 Jun 7	'09 Jul 6		1					
583	b. Bay 40 - Bay 45 (CH530-Ch630)	45 days	'09 Mar 23	'09 May 6		1					
584	c. Bay 46 - Bay 52 (Ch630-Ch730)	45 days	'08 Nov 3	'08 Dec 18		1					
585 586	d. Bay 53 - Bay 55 (Ch730-Ch800) e. Bay 56c - Bay 67 (Ch844-Ch1037)	45 days 45 days	'08 Dec 18 '09 Feb 1	'09 Feb 1 '09 Mar 18							
587	f. Bay 68 - Bay 71 (Ch1037-Ch1146)	45 days	'09 May 23	'09 Jul 6		1					
588	g. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	'09 Mar 18	'09 May 1		1					
589		,		-		1					
590	C. Section II of the Works	830 days	'07 Mar 30	'09 Jul 6							_
591	C1. Portion 4	829 days	'07 Mar 31	'09 Jul 6							-
592	1. Site clearance	14 days	'07 Dec 26	'08 Jan 8		1					V
593 594	1.1 General clearance	14 days	'07 Dec 26	'08 Jan 8		1					12/26
594 595	1.2 Demolition of existing building/ Huts 2. Temporary Traffic Management Scheme	2 days	'08 Jan 7	'08 Jan 8							
596	2.1 TTMS Proposal (trial pits for utilities and sit	462 days	'07 Mar 31	'07 May 28		1					
597	a. Submission	45 days	'07 Mar 31	'07 May 14		1					
598	b. comments & approvals by Engineer & TMLG		'07 May 15	'07 May 28		i					
599	2.2 TTMS Proposal (for construction of box cul-		'08 May 6	'08 Jul 5		1					
600	a. Submission	45 days	'08 May 6	'08 Jun 20		1					
601	b. comments & approvals by Engineer & TMLG	14 days	'08 Jun 21	'08 Jul 5		1					
602	3. Excavation Permits	584 days	'07 May 29	'09 Jan 2							
603	3.1 application and issue of permit (trial pits for utiliti		'07 May 29	'07 Jul 27							
504	3.2 application and issue of permits (for construction		'08 Jul 6	'09 Jan 2		1					
05	4. Underground utilities detection	43 days	'07 Jun 29	'07 Aug 10		1					
606 607	4.1 utilities detection 4.2 trial trench excavtion & identification	28 days	'07 Jun 29	'07 Jul 27		1					
608	trial trench excavtion & identification Utilities temporary diversion / protection	14 days 94 days	'07 Jul 28 '09 Jan 6	'07 Aug 10	8/10	1					
609	a. WSD water main along Kam Po Road	94 days	'09 Jan 6	'09 Apr 9		i					
610	b. Street lighting along Kam Po Road	94 days	'09 Jan 6	'09 Apr 9		1					
611	c. DSD storm Drain	94 days	'09 Jan 6	'09 Apr 9		1					
612	6. Drainage Management Plan	573 days	'07 Aug 29	'09 Mar 23		· •					
						▼					
roiect: PR	OGRAMME OF WORKS Task	111111	Progres	SS	Summary		Rolled Up Critical Task	Rolled Up Progress	External Tasks	Group By Summary	
					· ·						

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



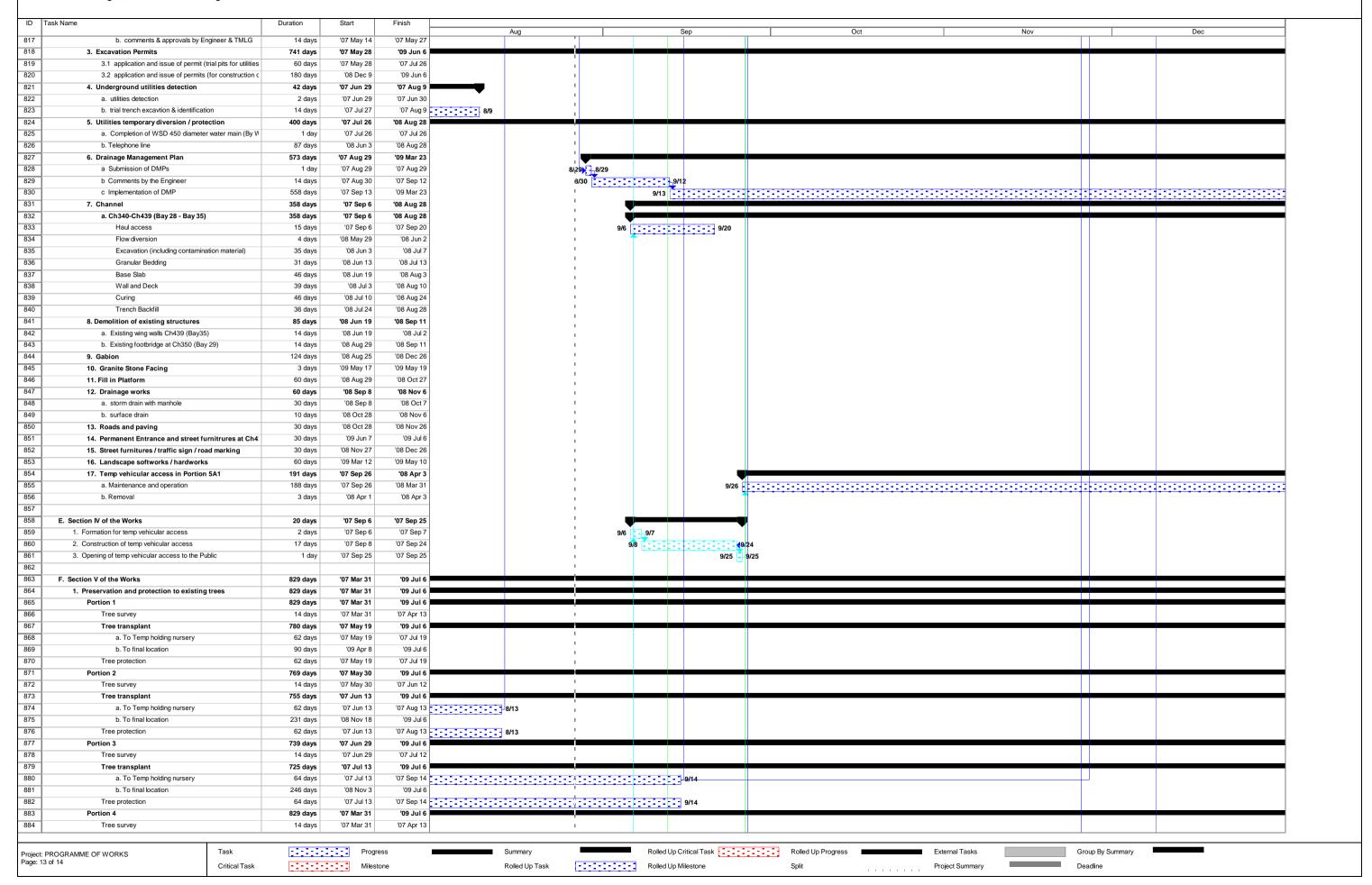
81					Aug	Sep	Oct	Nov		Dec
	Base Slab	45 days	'07 Oct 12	'07 Nov 25		10/12				
	Wall and Deck	38 days	'07 Oct 26	'07 Dec 2	1		10/26		12/2	
	Curing	45 days	'07 Nov 2	'07 Dec 16			11/2	-1		12/16
	Trench Backfill	35 days	'07 Nov 16	'07 Dec 20				11/16		12/20
	d. Ch449-Ch549 (Bay 37 - Bay 43)	584 days	'07 Sep 26	'09 May 1						
	Haul access	5 days	'07 Sep 26	'07 Sep 30	1	9/26 9/30				
	Flow diversion	10 days	'09 Jan 27	'09 Feb 6						
	Excavation (including contamination material)	29 days	'09 Feb 7	'09 Mar 7	1					
	Granular Bedding	25 days	'09 Feb 17	'09 Mar 13						
	Base Slab	43 days	'09 Feb 23	'09 Apr 6						
	Wall and Deck	36 days	'09 Mar 9	'09 Apr 13	i i					
	Curing	43 days	'09 Mar 16	'09 Apr 27	1					
	Trench Backfill	33 days	'09 Mar 30	'09 May 1	1					
	e. Ch549-Ch608 (Bay 44 - Bay 47)	408 days	'07 Oct 1	'08 Nov 11	!					
	Haul access	3 days	'07 Oct 1	'07 Oct 3		10/110/3				
	Flow diversion	5 days	'08 Aug 23	'08 Aug 28						
	Excavation (including contamination material)	19 days	'08 Aug 29	'08 Sep 16	1					
	Granular Bedding	15 days	'08 Sep 8	'08 Sep 22						
	Base Slab	23 days	'08 Sep 14	'08 Oct 6	1					
	Wall and Deck	27 days	'08 Sep 28	'08 Oct 24						
	Curing	34 days	'08 Oct 5	'08 Nov 7						
	Trench Backfill	24 days	'08 Oct 19	'08 Nov 11	i i					
	f. Ch608-Ch688 (Bay 48 - Bay 55)	492 days	'07 Oct 4	'09 Feb 6	1					
	Haul access	5 days	'07 Oct 4	'07 Oct 8	1	10/4	1/8			
	Flow diversion	3 days	'08 Nov 8	'08 Nov 11						
	Excavation (including contamination material)	26 days	'08 Nov 12	'08 Dec 7						
-	Granular Bedding	22 days	'08 Nov 22	'08 Dec 13	i i					
	Base Slab	46 days	'08 Nov 28	'09 Jan 12	1					
+-	Wall and Deck	39 days	'08 Dec 12	'09 Jan 19	1					
-	Curing	46 days	'08 Dec 19	'09 Feb 2	1					
-	Trench Backfill	36 days	'09 Jan 2	'09 Feb 6						
_	g. Ch688-Ch745 (Bay 56 - Bay 59)	291 days	'07 Oct 9	'08 Jul 25	il il					
	Haul access	3 days	'07 Oct 9	'07 Oct 11	1	10/9				
-	Flow diversion	3 days	'08 May 20	'08 May 23	1	10/3	<u> </u>			
	Excavation (including contamination material)	13 days	'08 May 24	'08 Jun 5	·					
	Granular Bedding	10 days	'08 Jun 3	'08 Jun 12						
	Granular Bedding Base Slab		'08 Jun 9							
	Wall and Deck	20 days		'08 Jun 28						
		15 days	'08 Jun 23	'08 Jul 7	1					
	Curing Transh Roalfill	22 days	'08 Jun 30	'08 Jul 21	1					
-	Trench Backfill	12 days	'08 Jul 14	'08 Jul 25						
<u> </u>	h. Ch745-Ch797 (Bay 60 - Bay 63)	351 days	'07 Oct 12	'08 Sep 26			2011			
-	Haul access	3 days	'07 Oct 12	'07 Oct 14		10/12	2 10/14			
	Flow diversion	3 days	'08 Jul 22	'08 Jul 25	1					
<u> </u>	Excavation (including contamination material)	16 days	'08 Jul 26	'08 Aug 10	1					
	Granular Bedding	12 days	'08 Aug 5	'08 Aug 16						
	Base Slab	20 days	'08 Aug 11	'08 Aug 30						
<u> </u>	Wall and Deck	15 days	'08 Aug 25	'08 Sep 8						
	Curing	22 days	'08 Sep 1	'08 Sep 22	1					
<u> </u>	Trench Backfill	12 days	'08 Sep 15	'08 Sep 26	1					
	8. Retaining Wall RW2 (Ch340-Ch350)	41 days	'08 Aug 29	'08 Oct 8						
	Excavation	4 days	'08 Aug 29	'08 Sep 1						
	Granular bedding	4 days	'08 Sep 2	'08 Sep 5						
	Base slab	10 days	'08 Sep 6	'08 Sep 15	1					
	Wall	6 days	'08 Sep 16	'08 Sep 21	1					
	Curing	14 days	'08 Sep 22	'08 Oct 5						
	Backfilling	3 days	'08 Oct 6	'08 Oct 8						
	9. Gabion	568 days	'07 Dec 17	'09 Jul 6						V
1	Bay 5- Bay 11 (Ch35-Ch130)	147 days	'08 May 30	'08 Oct 23	1					
	Bay 12 - Bay 19 (Ch130-Ch233)	93 days	'08 Mar 17	'08 Jun 17	1					1
	Bay 20 - Bay 27 (Ch233-Ch340)	159 days	'07 Dec 17	'08 May 23	1					12/17
	Bay 37 - Bay 43 (Ch449-Ch549)	70 days	'09 Apr 28	'09 Jul 6						
	Bay 48 - Bay 55 (Ch608-Ch688)	79 days	'09 Feb 3	'09 Apr 22	!					
	Bay 56 - Bay 59 (Ch688-Ch745)	20 days	'08 Jul 22	'08 Aug 10						
	Bay 60 - Bay 63 (Ch745-Ch797)	17 days	'08 Sep 23	'08 Oct 9	i i					
	10. Granite Stone Facing	37 days	'09 Apr 28	'09 Jun 3	1					
+	Bay 12 - Bay 19 (Ch130-Ch233)	12 days	'09 May 5	'09 May 16						
-	Bay 37 - Bay 43 (Ch449-Ch549)	7 days	'09 Apr 28	'09 May 4	1					
3	Bay 44 - Bay 47 (Ch549-Ch608)	6 days	'09 May 20	'09 May 25	1					

7749 7750 7751 7752 7753 7754 7755 7755 7756 7757 7758 7760 7761 7762 7768 766 767 768 769 7770 7771	Bay 48 - Bay 55 (Ch608-Ch688) 11. Ramp No. 1 (Ch650 - Ch675, Bay 52-Bay 53) base slab Wall General fill Granular fill and blinding Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill General fill Granular fill and blinding Road slab 7. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding Road slab	9 days 33 days 12 days 10 days 5 days 3 days 3 days 12 days 10 days 5 days 3 days 3 days 33 days 12 days 10 days 5 days 3 days 3 days 3 days	'09 May 26 '09 Feb 3 '09 Feb 3 '09 Feb 15 '09 Feb 25 '09 Mar 2 '09 Mar 5 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20 '09 May 20 '09 May 25	'09 Jun 3 '09 Mar 7 '09 Feb 14 '09 Feb 24 '09 Mar 1 '09 Mar 4 '09 Mar 7 '09 May 30 '09 May 9 '09 May 19	Aug	1	•	Sep		Oct	-	Nov		Dec	
51	base slab Wall General fill Granular fill and blinding Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	12 days 10 days 5 days 3 days 3 days 12 days 10 days 5 days 3 days 33 days 33 days 33 days 33 days 33 days	'09 Feb 3 '09 Feb 15 '09 Feb 25 '09 Mar 2 '09 Mar 5 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 Feb 14 '09 Feb 24 '09 Mar 1 '09 Mar 4 '09 Mar 7 '09 May 30 '09 May 9											
2 3 4 5 6 6 7 8 9 0 0 1 1 2 2 3 3 4 4 5 6 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 6 6 6 7 7 8 8 9 9 0 0 1 1 2 2 1 3 3 4 4 6 6 6 6 7 7 8 8 9 9 0 0 1 1 1 2 2 1 3 3 4 4 6 6 6 6 7 7 8 8 9 9 0 0 1 1 1 2 2 1 3 3 4 4 6 6 6 6 7 7 8 8 9 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wall General fill Granular fill and blinding Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	10 days 5 days 3 days 3 days 12 days 10 days 5 days 3 days 3 days 3 days 3 days 3 days	'09 Feb 15 '09 Feb 25 '09 Mar 2 '09 Mar 5 '09 Apr 28 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 Feb 24 '09 Mar 1 '09 Mar 4 '09 Mar 7 '09 May 30 '09 May 9		1									
3 4 5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 6 6 6 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 6 7 7 8 8 7 9 9 0 0 1 1 2 2 1 3 3 4 4 6 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	General fill Granular fill and blinding Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	5 days 3 days 3 days 33 days 12 days 10 days 5 days 3 days 3 days 3 days	'09 Feb 25 '09 Mar 2 '09 Mar 5 '09 Apr 28 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 Mar 1 '09 Mar 4 '09 Mar 7 '09 May 30 '09 May 9											1
4 5 6 6 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Granular fill and blinding Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	3 days 3 days 33 days 12 days 10 days 5 days 3 days 3 days 3 days	'09 Mar 2 '09 Mar 5 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 Mar 4 '09 Mar 7 '09 May 30 '09 May 9											
555 566 577 588 599 500 511 522 533 544 555 566 567 777 588 599 700 711 772 773 774 774 775	Road slab 12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	3 days 33 days 12 days 10 days 5 days 3 days 3 days 3 days	'09 Mar 5 '09 Apr 28 '09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 Mar 7 '09 May 30 '09 May 9											
566 577 588 599 600 611 622 633 644 655 666 667 668 669 770 771 772 773 774	12. Ramp No. 2 (Ch515 - Ch540, Bay 42) base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	33 days 12 days 10 days 5 days 3 days 3 days 33 days	'09 Apr 28 '09 Apr 28 '09 May 10 '09 May 20	'09 May 30 '09 May 9											
7557 758 759 760 761 762 763 764 765 766 766 770 771 772 773	base slab Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	12 days 10 days 5 days 3 days 3 days 33 days	'09 Apr 28 '09 May 10 '09 May 20	'09 May 9											
758	Wall General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	10 days 5 days 3 days 3 days 33 days	'09 May 10 '09 May 20			1									
7759 7760 7761 7762 7763 7764 7765 7766 7777 7770 7771 7772 7773	General fill Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	5 days 3 days 3 days 33 days	'09 May 20	'09 May 19		1									
760	Granular fill and blinding Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	3 days 3 days 33 days													
761 762 763 764 765 766 766 767 768 777 777 777	Road slab 13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	3 days	'09 May 25	'09 May 24											
762	13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19) base slab Wall General fill Granular fill and blinding	33 days	, 20	'09 May 27		i									
763 764 765 766 767 768 769 770 771	base slab Wall General fill Granular fill and blinding		'09 May 28	'09 May 30		1									
764 765 766 767 768 769 770 771 772 773	Wall General fill Granular fill and blinding		'08 Mar 17	'08 Apr 18		1									
765 766 767 768 769 770 771 772 773	General fill Granular fill and blinding	12 days	'08 Mar 17	'08 Mar 28		:									
666 667 668 669 770 771 772 773	Granular fill and blinding	10 days	'08 Mar 29	'08 Apr 7											
67 68 69 70 71 72 73	-	5 days	'08 Apr 8	'08 Apr 12		1									
68 69 70 71 72 73	Road slab	3 days	'08 Apr 13	'08 Apr 15		1									
70 71 72 73 74	I I	3 days	'08 Apr 16	'08 Apr 18		1									
770 771 772 773	14 Ramp No. 4 (Ch20 - Ch45, Bay 4-Bay5)	28 days	'08 May 30	'08 Jun 26											
771 772 773	General fill	7 days	'08 May 30	'08 Jun 5		i									
72 73 74	Granular fill and blinding	4 days	'08 Jun 6	'08 Jun 9		1									
773	Sloping side wall and road slab	17 days	'08 Jun 10	'08 Jun 26		1									
774	15. Demolition of existing wing walls Ch449	14 days	'09 Feb 23	'09 Mar 8		!									
	16. Filling in Platform	123 days	'08 Jun 3	'08 Oct 3											
	a. Bay 3- Bay 27 (Ch11-Ch340)	34 days	'08 Jun 3	'08 Jul 6		1									
775	b. Bay 37 - Bay 55 (Ch449-Ch688)	34 days	'08 Aug 29	'08 Oct 1		1									
776	c. Bay 56 - Bay 63 (Ch688-Ch797)	7 days	'08 Sep 27	'08 Oct 3		!									
777	17. Drainage works	146 days	'08 Jun 13	'08 Nov 5											
78	17.1 storm drain with manhole and headwall	132 days	'08 Jun 13	'08 Oct 22		1									
779	a. Bay 3- Bay 27 (Ch11-Ch340)	20 days	'08 Jun 13	'08 Jul 2		1									
80	b. Bay 37 - Bay 55 (Ch449-Ch688)	45 days	'08 Sep 8	'08 Oct 22		1									
81	c. Bay 56 - Bay 63 (Ch688-Ch797)	14 days	'08 Oct 4	'08 Oct 17											
82	17.2 surface drain	122 days	'08 Jul 7	'08 Nov 5		1									
83	a. Bay 3- Bay 27 (Ch11-Ch340)	34 days	'08 Jul 7	'08 Aug 9		1									
784	b. Bay 37 - Bay 55 (Ch449-Ch688)	35 days	'08 Oct 2	'08 Nov 5		!									
85	c. Bay 56 - Bay 63 (Ch688-Ch797)	14 days	'08 Oct 4	'08 Oct 17											
86 87	18. Roads and paving a. Ch233 - Ch340	275 days	'08 Sep 28	'09 Jun 29		1									
788	a. Cn233 - Cn340 b. Ch449 - Ch549	30 days	'08 Sep 28	'08 Oct 27 '08 Dec 30		1									
89	c. Ch549 - Ch609	30 days	'08 Dec 1	'08 Nov 30											
790	d. Ch609 - Ch688	30 days	'08 Nov 1	'08 Oct 31											
791	e. Permanent Entrance at Ch449	23 days	'09 Jun 7	'09 Jun 29		1									
92	19. Street furnitures	252 days	'08 Oct 28	'09 Jul 6		1									
93	a. Ch233 - Ch340	30 days	'08 Oct 28	'08 Nov 26											
94	b. Ch449 - Ch549	30 days	'08 Dec 31	'09 Jan 29											
95	c. Ch549 - Ch609	30 days	'08 Dec 1	'08 Dec 30		1									
96	d. Ch609 - Ch688	30 days	'08 Nov 1	'08 Nov 30		1									
97	e. Permanent Entrance at Ch449	7 days	'09 Jun 30	'09 Jul 6		1									
798	20. Landscape softworks / hardworks	250 days	'08 Oct 18	'09 Jun 24											
799	a. Ch35 - Ch340	45 days	'09 May 11	'09 Jun 24		1									
300	b. Ch449 - Ch549	45 days	'09 Jan 26	'09 Mar 11		1									
01	c. Ch549 - Ch609	45 days	'08 Dec 12	'09 Jan 25		1									
02	d. Ch609 - Ch688	45 days	'08 Oct 28	'08 Dec 11		i									
03	e. Ch688 - Ch797	10 days	'08 Oct 18	'08 Oct 27		1									
04	21. Road Diversion in Kam Po Road	102 days	'08 Dec 23	'09 Apr 3		1									
05	a. Temp Decking above Bay 3 and temp road pavemer	10 days	'08 Dec 23	'09 Jan 2		!									
306	b. Implementation of road diversion	1 day	'09 Jan 2	'09 Jan 2		i									
307	c. Removal of decking	1 day	'09 Apr 3	'09 Apr 3		1									
08						1									
09 1	D. Section III of the Works	830 days	'07 Mar 30	'09 Jul 6					#						=
10	D1. Portions 5A1, 5A2 and 5B	830 days	'07 Mar 30	'09 Jul 6											=
11	1. Site clearance	4 days	'07 Sep 6	'07 Sep 9		1	_								
12	1.1 General site clearance	4 days	'07 Sep 6	'07 Sep 9		1	9/6 9/	/9							
313	1.2 Demolition of existing building/ Huts	4 days	'07 Sep 6	'07 Sep 9		1	9/6) - 9/	/9							
314	2. Temporary Traffic Management Scheme	59 days	'07 Mar 30	'07 May 27		!	1								
315	TTMS Proposal (trial pits for utilities and site entr	59 days	'07 Mar 30	'07 May 27		i									
316	a. Submission	45 days	'07 Mar 30	'07 May 13		1									
															_
oiect: DDC		-1-1-1-			_									<u>——</u>	
roject: PRO age: 12 of 1	OGRAMME OF WORKS		Progress		Summary		Rolle	ed Up Critical Task	- Rolled L	Jp Progress	External Tasks		Group By Summary		

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 I	Task Name	Duration	Start	Finish							
	Task Name	Duration	Start	1 11 1311	Aug			Sep	Oct	Nov	Dec
885	Tree transplant	780 days	'07 May 19	'09 Jul 6	·						
886	a. To Temp holding nursery	62 days	'07 May 19	'07 Jul 19		i					
887	b. To final location	86 days	'09 Apr 12	'09 Jul 6		1					
888	Tree protection	62 days	'07 May 19	'07 Jul 19		1					
889	Portion 5	739 days	'07 Jun 29	'09 Jul 6		-			4		
890	Tree survey	14 days	'07 Jun 29	'07 Jul 12		1					
891	Tree transplant	725 days	'07 Jul 13	'09 Jul 6		-					
892	a. To Temp holding nursery	69 days	'07 Jul 13			X - 1 - 1 - 1 - 1 - 1		9/19	4		
893	b. To final location	262 days	'08 Oct 18	'09 Jul 6		1					
894	Tree protection	69 days	'07 Jul 13	'07 Sep 19			- 1-1-1-1-	9/19			
895	Portion 5A1	682 days	'07 Jun 29	'09 May 10		Ŷ ~~~					
896	Tree survey	7 days	'07 Jun 29	'07 Jul 5		1					
897	Tree transplant	675 days	'07 Jul 6	'09 May 10							
898	a. To Temp holding nursery	62 days	'07 Jul 6	'07 Sep 5	-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	: (0 - 0 - 0 - 0 - 0 - 0 - 1	9/5				
899	b. To final location	60 days	'09 Mar 12	'09 May 10							
900	Tree protection	62 days	'07 Jul 6	'07 Sep 5		ŷ	9/5				
901	Portion 5A2	682 days	'07 Jun 29	'09 May 10							
902	Tree survey	14 days	'07 Jun 29	'07 Jul 12		1					
903	Tree transplant	668 days	'07 Jul 13	'09 May 10		•					
904	a. To Temp holding nursery	62 days	'07 Jul 13	'07 Sep 12	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,			9/12			
905	b. To final location	60 days	'09 Mar 12	'09 May 10		1					
906	Tree protection	62 days	'07 Jul 13	'07 Sep 12		A 2 - 2 - 2 - 2 - 2 - 2		9/12			
907	Portion 5B	533 days	'07 Nov 25	'09 May 10		1					
908	Tree survey	14 days	'07 Nov 25	'07 Dec 8						11/25	12/8
909	Tree transplant	519 days	'07 Dec 9	'09 May 10		i					
910	a. To Temp holding nursery	62 days	'07 Dec 9	'08 Feb 8		1					12/9
911	b. To final location	60 days	'09 Mar 12	'09 May 10		1					
912	Tree protection	62 days	'07 Dec 9	'08 Feb 8		1					12/9
913						1					
914	H. Berthing Area	558 days	'07 Sep 12	'09 Mar 22		i i	The state of the s		4		
915	Construction of Loading Facilities	14 days	'07 Sep 12	'07 Sep 25		1	9/12	<u> </u>	9/25		
916	Removal of Loading Facilities	2 days	'09 Mar 14	'09 Mar 15		1					
917	3. Reinstatement of Berthing Area	7 days	'09 Mar 16	'09 Mar 22		1					

CHIT CHEUNG CONSTRUCTION CO., LTD. DATE: July 2007



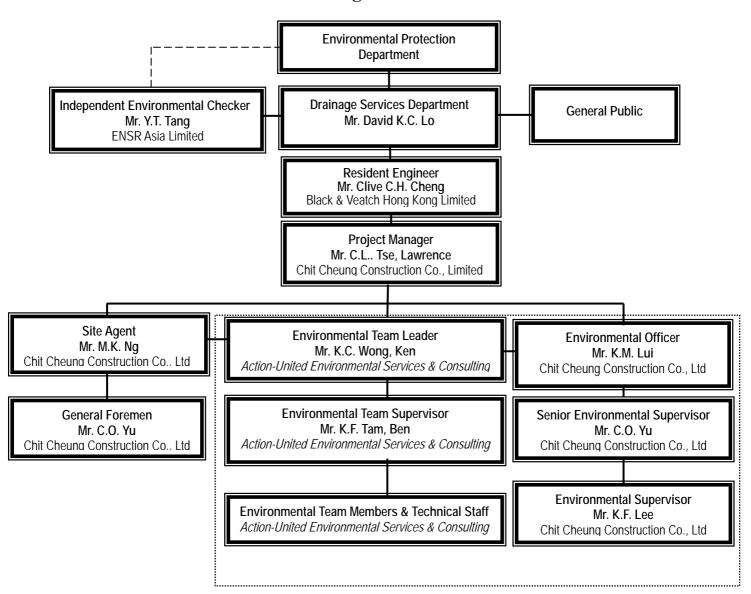


Appendix C

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	2443-1442	2443-7307
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	Mr. LEE Kwok Fai	9868-9908	2479-1365
CCC	Safety Officer	Mr. SHEA Yan Keung	6086-4658	2479-1365
AUES	Environmental Team Leader	Ken Wong	2959-6059	2959-6079
AUES	Ecologist	Vincent Lai	9406-9784	2959-6079
AUES	Decontamination Specialist	David Yeung	2959-6059	2959-6079

Legend:

DSD (Employer) Drainage Services Department B&V (Engineer) Black & Veatch Hong Kong Limited

CCC (Contractor) ENSR (IEC) Chit Cheung Construction Company Limited.

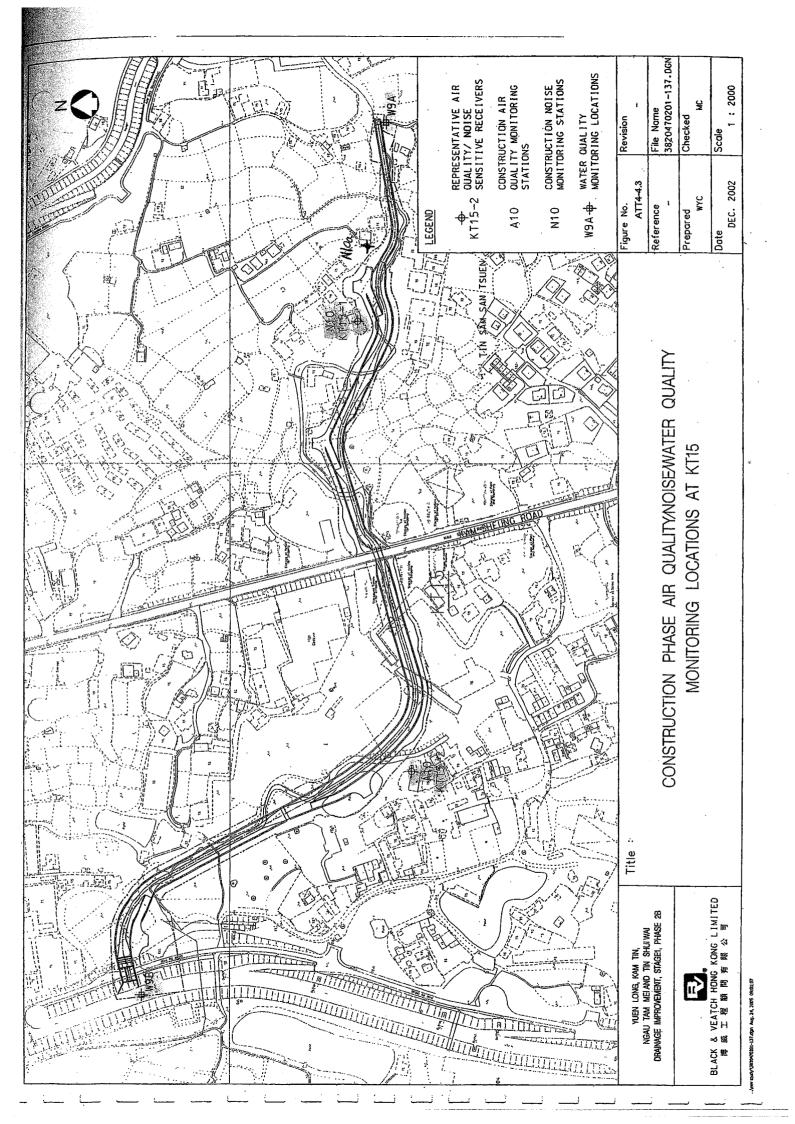
ENSR Asia (HK) Ltd.

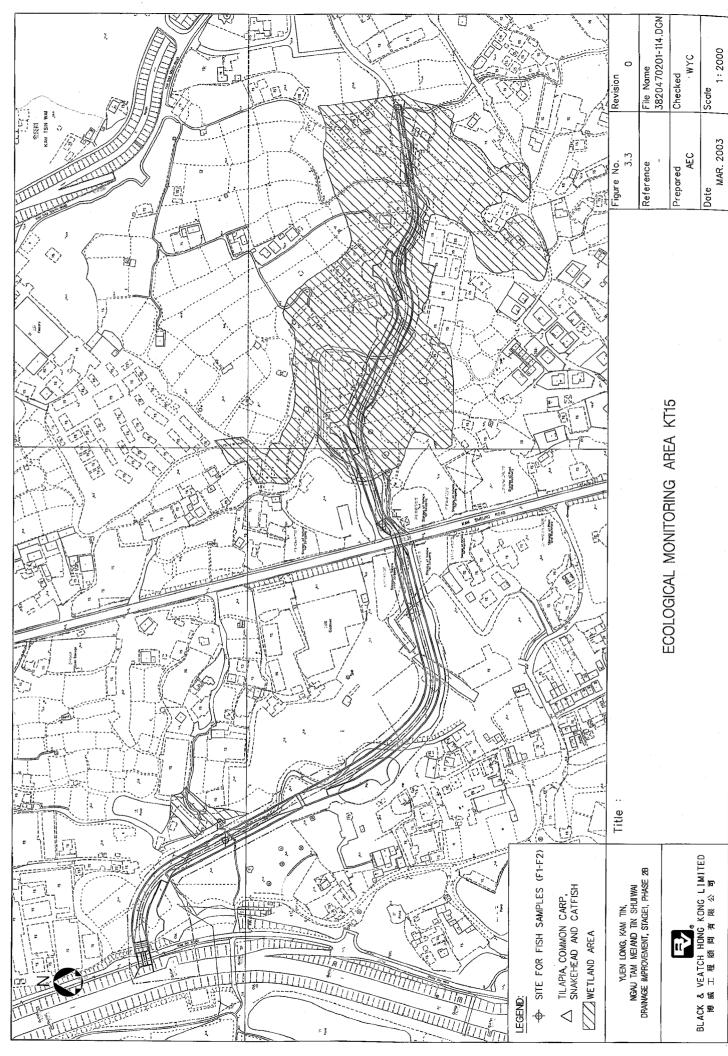
AUES (ET) Action-United Environmental Services & Consulting



Appendix D

Locations of Designated Monitoring Station/Locations/Area





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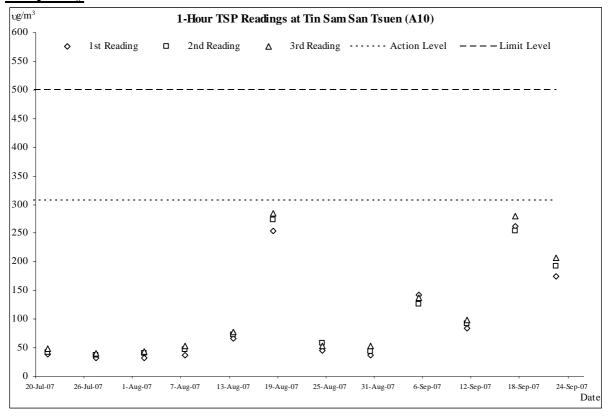


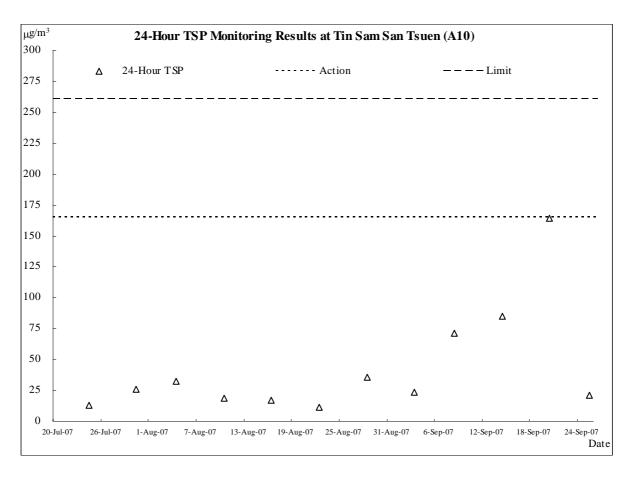
Appendix E

Graphical Plots of Air Quality, Construction Noise &
Stream Water Quality Monitoring



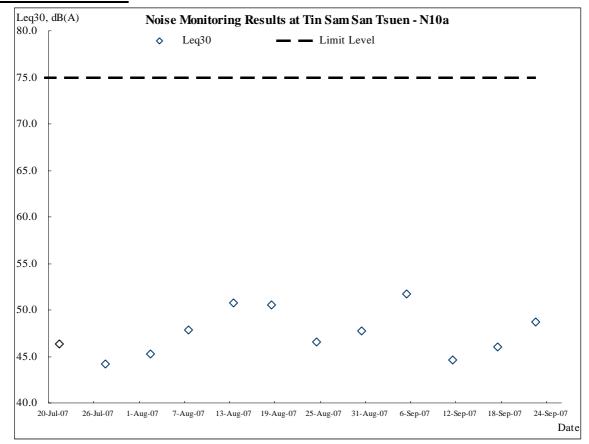
Air Quality





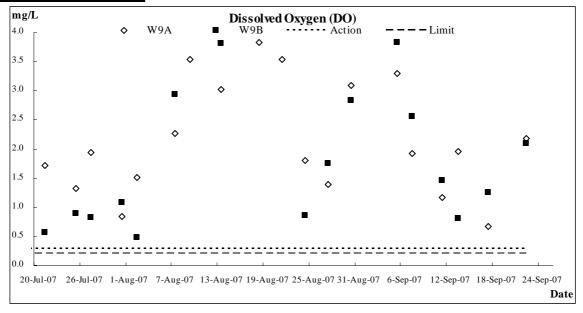


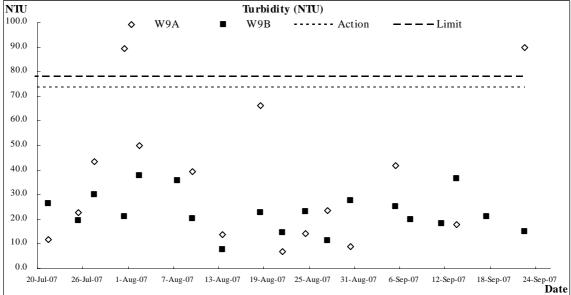
Construction Noise

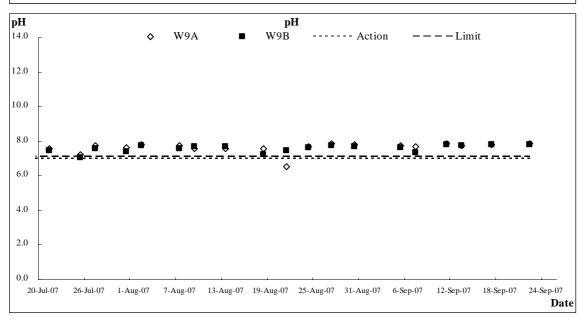




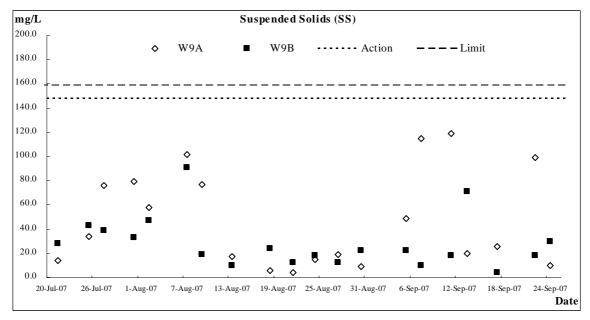
Stream Water Quality

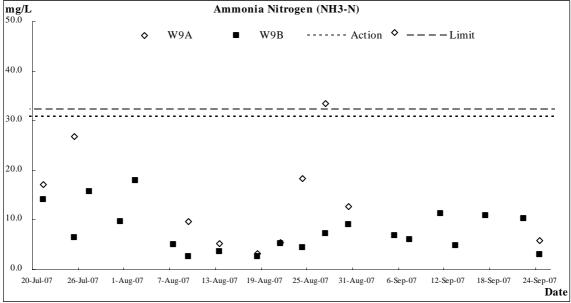


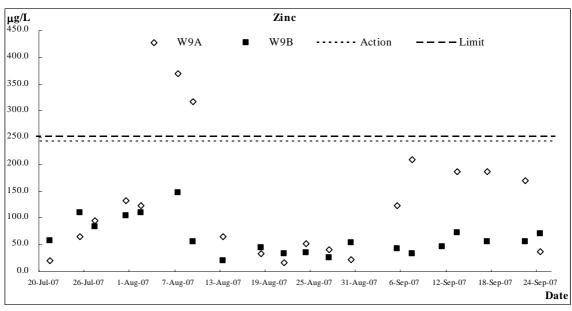














Appendix F

Meteorological Data in the Reporting Quarter



Meteorological Data Extracted from HKO in the Reporting Quarter

				Lau Fau Shan Weather Station				
Date		Weather	Total Rainfall (mm)	Mean Air Temperatures (°C)	Wind Speed (km/h)	Kelative	Wind Direction	
20-Jul-07	Fri	fine/very hot/fresh/moderate/isolate showers	0	30.8	22.5	72	S/SW	
21-Jul-07	Sat	fine/very hot/moderate	0	30.5	20	73	S/SW	
22-Jul-07	Sun	fine/very hot/moderate	0	31	16.5	70.5	S/SW	
23-Jul-07	Mon	fine/very hot/moderate	0	30.6	13.5	79.5	S/SW	
24-Jul-07	Tue	fine/very hot/moderate	0	31	17	74	S/SW	
25-Jul-07	Wed	fine/very hot/moderate	0	30.2	16	71.5	S/SW	



				Lau Fau Shan Weather Station			
Date		Weather	Total Rainfall (mm)	Mean Air Temperatures (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
26-Jul-07	Thu	fine/very hot/moderate	0	28.3	15.5	72	W
27-Jul-07	Fri	fine/very hot/isolated showers/light winds	Trace	29.5	15.5	72.5	S/SE
28-Jul-07	Sat	fine/very hot/isolated showers/moderate	Trace		Mainte	enance	
29-Jul-07	Sun	fine/very hot/isolated showers/moderate	Trace	Maintenance			
30-Jul-07	Mon	fine/very hot/isolated showers/light winds	Trace	Maintenance			
31-Jul-07	Tue	fine/isolated showers/thunderstorms/very hot/light winds	Trace	Maintenance			
1-Aug-07	Wed	fine/very hot/isolated showers/thunderstorms/light winds	0	29.7	17	77	S/SE
2-Aug-07	Thu	fine/very hot/isolated showers/light winds	0	30.1	17.5	77	S/SE
3-Aug-07	Fri	fine/very hot/light winds	0	31	13	72.5	S/SE
4-Aug-07	Sat	fine/very hot/a few showers/moderate	0	30.3	15	66	Е
5-Aug-07	Sun	hot/isolated showers/squally thunderstorms	7.7	30.8	10.5	73.5	E/SE
6-Aug-07	Mon	cloudy/scattered showers/squally thunderstorms/moderate/fresh	100.4	27.3	14	88	E/NE
7-Aug-07	Tue	cloudy/a few showers/thunderstorms/sunny intervals/moderate/fresh	17.4	29	13.5	82	E
8-Aug-07	Wed	cloudy/haze/squally showers/thunderstorms/moderate/fresh/strong	17.9	29.7	10.5	73	E/SE
9-Aug-07	Thu	cloudy/overcast/rain/squalls/fresh	33.6	28.2	22	78.5	E/NE
10-Aug-07	Fri	cloudy/overcast/squally showers/moderate/fresh/strong	57.8	25.5	16	85	E/SE
11-Aug-07	Sat	cloudy/rain/fresh/strong/squally thunderstorms	39.9	25.6	23.5	89.5	S/SW
12-Aug-07	Sun	cloudy/rain/mist/moderate	5.3	26.7	8	91.5	W/SW
13-Aug-07	Mon	cloudy/a few showers/thunderstorms/moderate	Trace	28.3	13	89	S/SE
14-Aug-07	Tue	cloudy/overcast/rain/squally thunderstorms/moderate	14.7	26.3	21.5	85	W/SW
15-Aug-07	Wed	cloudy/rain moderate	10.9	27.7	14	85	NW
16-Aug-07	Thu	cloudy/a few showers/moderate	60.7	25.6	12	81	E/NE
17-Aug-07	Fri	sunny intervals/a few showers/fresh/strong	27.9	27.8	13.5	81.5	Е
18-Aug-07	Sat	fine/very hot/haze/moderate/squally thunderstorms/moderate	1.2	28.5	13.5	79.5	W/NW
19-Aug-07	Sun	fine/very hot/light winds	0	29	17.7	71	W/SW
20-Aug-07	Mon	cloudy/scattered showers/squally thunderstorms/fresh	Trace	27.4	25.5	84	SW
21-Aug-07	Tue	cloudy/moderate/fresh/scattered showers/squally thunderstorms	Trace	28.1	21	79	S/SW
22-Aug-07	Wed	cloudy/fresh/moderate/squally thunderstorms/scattered showers	15.1	26.6	25	85.5	S/SW
23-Aug-07	Thu	cloudy/scattered showers/squally thunderstorms/light winds	Trace	28.3	16	84.5	S/SE
24-Aug-07	Fri	fine/isolated showers/light winds	15.3	28.1	17	85	E/SE
25-Aug-07	Sat	a few showers/sunny periods/light winds	10.3	28	12.5	82.5	E/SE



Date				Lau Fau Shan Weather Station				
		Weather	Total Rainfall (mm)	Mean Air Temperatures (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction	
26-Aug-07	Sun	sunny intervals/a few showers/moderate	Trace	27.9	12	73	S/SE	
27-Aug-07	Mon	a few showers/sunny intervals/moderate	25	28.5	12	78	E	
28-Aug-07	Tue	a few showers/sunny intervals/moderate	25.9	28.5	13	83.5	Е	
29-Aug-07	Wed	sunny periods/isolated showers/moderate	1.3	29.3	12	80	Е	
30-Aug-07	Thu	fine/isolated showers/thunderstorms/light winds	0.1	28.1	12	79.5	SE	
31-Aug-07	Fri	fine/hot/isolated showers/light winds	0	28.4	14	79.5	SE	
1-Sep-07	Sat	fine/hot/isolated showers/thunderstorms/light winds	0	28.3	12	75	S/SE	
2-Sep-07	Sun	sunny intervals/a few showers/squally	3.7	27.7	9.5	84	E/SE	
3-Aug-07	Mon	cloudy/a few showers/squally thunderstorms/light winds	Trace	28.9	14.5	77	SE	
4-Sep-07	Tue	cloudy/a few showers/light winds	2.3	27	15	81.5	S/SE	
5-Sep-07	Wed	cloudy/a few showers/sunny intervals/moderate	1.5	26.6	15	78.5	E/NE	
6-Sep-07	Thu	cloudy/sunny intervals/hazy/moderate	0	26.1	14.5	69.5	E/NE	
7-Sep-07	Fri	sunny periods/hazy/moderate	0.1	26.7	8.2	72	E/SE	
8-Sep-07	Sat	sunny periods/cloudy/moderate	Trace	28.3	9.5	74	E	
9-Sep-07	Sun	sunny periods/cloudy/moderate	Trace	28.3	16	74	E/SE	
10-Sep-07	Mon	cloudy/sunny intervals/rain moderate fresh	Trace	28.6	16.5	74.5	E	
11-Sep-07	Tue	Sunny periods/rain/moderate/fresh	10.7	28.7	16.5	68.7	Е	
12-Sep-07	Wed	fine/isolated showers/moderate	Trace	28.3	13	72.5	E	
13-Sep-07	Thu	fine/dry/moderate/fresh	0	28.9	14	63.5	Е	
14-Sep-07	Fri	fine/hazy/dry/light winds	0	27.9	8	64.5	E/SE	
15-Sep-07	Sat	fine/hazy/isolated showers/light winds	0	28.6	9	69.5	S/SE	
16-Sep-07	Sun	hazy/isolated showers/light winds	6	28.9	7.5	77	E/SE	
17-Sep-07	Mon	hazy/isolated showers/light winds	0.5	28.5	6	81	Е	
18-Sep-07	Tue	fine/very dry/haze/moderate/fresh	0	28.5	20	56	N	
19-Sep-07	Wed	fine/dry/hazy/fresh/strong	0	27.6	24.2	51	N/NW	
20-Sep-07	Thu	sunny periods/dry/moderate/fresh	0.1	28.4	21	53.5	NE	
21-Sep-07	Fri	sunny periods/haze/rain/moderate/fresh	1.7	27.8	13.5	66.5	E/NE	
22-Sep-07	Sat	fine/dry/haze/moderate/fresh	0	28.2	15.5	6.12	NE	
23-Sep-07	Sun	cloudy/overcast/rain/fresh/strong	12.5	25.4	24.5	83.5	N/NE	
24-Sep-07	Mon	cloudy/overcast/rain/fresh/strong	60.1	24.8	17	94	E/NE	
25-Sep-07	Tue	cloudy/rain/thunderstorms/fresh/strong	2.1	26.8	15.5	88	Е	

Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai KT15 – Quarterly EM&A Summary Report (July 2007 to September 2007) (No.1)



Appendix G

Response to Comments

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 – Quarterly EM&A Summary Report (July 2007 to September 2007) (No.1)



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 Response to IEC's comments on KT15 – Quarterly EM&A Summary Report (Revision 0) [Received e-mail on 22 Oct 2007 10:02]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	ES.05, ES.15	For the exceedance of ecology monitoring, please note that A / L level is	-	Noted.
		the "decrease in the total number of wetland dependent bird species or		
		individuals of the wetland dependent bird species from baseline" If		
		exceedance was found in both the number of wetland dependent bird		
		species and individuals of the wetland dependent bird species, it should		
		be counted as 1 exceedance. Please revise		
2	6.01	Please explain how to implement the waste management by	-	Section 6.01 had been revised.
		Environmental Officer or Environmental Supervisor		