

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 - 2nd Monthly EM&A Report for August 2007

(Revision: 4)

PREPARED FOR Chit Cheung Construction Company Limited

Quality Index

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Executive Summary

KT15 – 2nd Monthly EM&A Report for August 2007

- 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 2nd Monthly EM&A Report (August 2007) reporting the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting month **August 2007** during the period from 26 July to 25 August 2007.

Breach of Action and Limit (AL) Levels

ES.05 One Limit Level exceedance was recorded in ecology during this reporting period. The wetland dependent bird number and individual number recorded 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.

Complaints Log

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

Notifications of Any Summons and Successful Prosecutions

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

Reporting Changes

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



Future Key Issues

ES.09 Construction activities to be undertaken in September 2007 included erection of project sign board at Portion 6, 7 & 8, excavation works, tree transplanting works and erection of hoarding at Portion 5A1. Potential environmental impacts for this project generally include air quality, noise, ecology, surface runoff and construction waste. The contractor shall properly implement the required environmental mitigation measures as per the Implementation Schedule in the EM&A manual to ensure no significant adverse environmental impact arises from the construction works. The contractor was reminded to maintain good house-keeping throughout the construction phase.

EM&A Activities in the Reporting Period

ES.10 A summary of the monitoring activities in this reporting period is listed below:

•	1-Hour TSP Monitoring	18	Events
•	24-Hour TSP Monitoring	5	Events
•	Noise Monitoring	6	Events
•	Stream Water Quality	18	Events
•	Ecology (Fauna)	1	Event
•	Site Inspection Audit	4	Times

Air Quality

ES.11 No Action or Limit Level of 1-Hour and 24-Hour TSP exceedance was recorded in this reporting period.

Construction Noise

ES.12 No exceedance in construction noise measurements was recorded and no construction noise complaint was received in this reporting period.

Stream Water Quality

ES.13 No exceedance in stream water quality was recorded in the reporting period.

Ecology (Fauna)

ES.14 One Limit Level exceedance was found in the wetland dependent bird number and individual number recorded during the reporting period. 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.15 A summary of monitoring exceedances in this reporting period 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	Wetland Bird	0	Not Required for 0% Exceedance



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1.0 INTRODUCTION

- 1.01 Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter "the Project") on 03 April 2007. According to the contract specification requirements the Project should implemented an Environmental Monitoring & Audit (EM&A) program by an Independent Environmental Team (ET) throughout the construction period in compliance with the requirements as stated in the project particular specification, Environmental Permit (EP-231/2005/A) and EM&A Manual for KT15. 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 month **August 2007** during the period from 26 July to 25 August 2007.

REPORT STRUCTURE

- 1.05 The EM&A report is structured into the following sections:
 - **Section 1** Introduction
 - **Section 2** Project Organization and Construction Progress
 - **Section 3** Summary of Monitoring Requirements
 - **Section 4** Impact Monitoring Methodology
 - **Section 5** Impact Monitoring Results
 - **Section 6** Waste Management
 - **Section 7** Site Inspection
 - **Section 8** Environmental Complaint and Non-Compliance
 - **Section 9** Implementation Status of Mitigation Measures
 - **Section 10** Impact Forecast
 - **Section 11** Conclusions



2.0 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

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

CONSTRUCTION PROGRESS

- 2.02 The major construction activities undertaken in this reporting period are list below:-
 - Erection of project sign board at Portion 6 and Portion 8;
 - Site clearance; and
 - Tree transplanting works.

SUMMARY OF ENVIRONMENTAL SUBMISSIONS

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

Table 2-1 Status of Environmental Licenses and Permits

Item	Item Description	License/Permit Status
1	Environmental Permit (EP-231/2005/A)	-
2	Air Pollution Control (Construction Dust)	Notified EPD on 09 July 2007
3	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
11 /1	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
. /	Billing Account for Disposal of Construction Waste (Account Number : 7005311)	Valid on 07 May 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 TS	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	• Zinc (μg/L). Monthly monitoring of construction activities adjacent to the wetland areas to identify any intrusions of construction activities into the wetland areas; Monthly monitoring of wetland areas themselves to check that there is 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 fauna in the wetland areas during the wet season (April to July inclusive) for reptiles, amphibians, dragonflies, and butterflies, and throughout the year for birds.		

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 Construction Ecology Monitoring

Parameters	Action Level	Limit Level
Fauna: decrease in the total number of wetland dependent species or individuals of the surveyed faunal groups from baseline	20 – 40% of 1.2 individuals and 3 species	

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

^{*} 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 Location of 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

e: * 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 period was 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 18 monitoring events were carried out in this reporting period.

24-HOUR TSP MONITORING

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

NOISE MONITORING

4.05 Impact noise monitoring was undertaken at one location N10a once per week. Total of 6 monitoring events were carried out in this reporting period.

STREAM WATER QUALITY MONITORING

4.06 The stream water quality monitoring were undertaken at two locations W9A & W9B two time per week. Total of 18 monitoring events were carried out in this reporting period.

[#] 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.

MONITORING EQUIPMENT

4.08 The monitoring equipment used by the ET in the EM&A program is presented in the following table:

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

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

24-HOUR TSP MONITORING

- 4.09 24-Hour TSP monitoring was carried out by a High Volume Sampler (HVS) in compliance with the USEPA Standards Title 40, Code of Federal Regulations Chapter 1 (Part 50) specifications. The HVS employed complied with the PS specifications including.
 - Power supply of 220v/50 hz for 24-Hour continuous operation;
 - 0.6-1.7 m³/min (20-60 SCFM) adjustable flow rate;
 - A 7-day mechanical timer for 24-Hour operation;
 - An elapsed time indicator with ± 2 minutes accuracy for 24-Hour operation;
 - Minimum exposed area of 63 in²;
 - Flow control accuracy of $\pm 2.5\%$ deviation over 24-Hour operation;
 - An anodized aluminum shelter to protect the filter and sampler;
 - A motor speed-voltage control to control mass flow rate with accuracy of ±2.5% deviation over 24-Hour sampling period;
 - Provision of a flow recorder for continuous monitoring;
 - Provision of a peaked roof inlet;
 - Incorporation with a manometer; and
 - An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.
- 4.10 The filter papers used in 24-Hour TSP monitoring were of size 8"x10" and provided by a local HOKLAS-accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The filters papers after measurements were returned to the laboratory for the required treatment and analysis.



1-HOUR TSP MONITORING

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

WIND DATA MONITORING

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

NOISE MONITORING

- 4.13 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (Leq) measured in decibels (dB). Supplementary statistical results such as L_{10} and L_{90} were also obtained for reference.
- 4.14 Hand-held sound level meters (B&K Model 2238) and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specification were used for taking the impact noise measurements.
- 4.15 Windshield was fitted in all measurements. All noise measurements were made with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq).
- 4.16 No noise measurement was carried out in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s.

STREAM WATER QUALITY MONITORING

Water Depth

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

Water Temperature

4.19 Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20°C for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets. Calibration of the equipment will be regularly performed by ALS on quarterly basis.



Dissolved Oxygen (DO)

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

<u>рН</u>

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

Turbidity

4.23 A portable Hach 2100p turbidity Meter will be used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 – 1000 NTU. Calibration of the equipment will be regularly performed by ALS on quarterly basis.

Salinity

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

Water Sampler

4.25 Water samples will be collected by the ET using a water sampler and 'PE' (Poly-Ethylene) sampling bottles provided by the laboratory. The water sampler will be rinsed before collection with the sample to be taken. Kahlsico Water Sampler will be used for sampling. One liter or 1000mL water sample will be collected from each depth for SS determination. The samples collected are stored in a cool box maintained at 40°C and delivered to ALS upon completion of the sampling by end of each sampling day. Sampling in the stream with shallow water condition, plastic bucket will be used for sample collection.

Sample Container

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



Sample Storage

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

ECOLOGY MONITORING

Study Area

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

Survey Method

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

Equipment

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

EQUIPMENT CALIBRATION

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

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

ANALYTICAL LABORATORY

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

Table 4-3 Analytical Method applied to Water Quality Samples

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

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

DATA MANAGEMENT AND DATA QA/QC CONTROL

4.42 The impact monitoring data are handled by the ET's systematic data recording and management, which complies with in-house certified (ISO 9001:2000) Quality Management System. Standard Field Data Sheets (FDS) are used in the impact monitoring program.



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

5.0 IMPACT MONITORING RESULTS

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 period. The impact monitoring schedules are presented in Appendix G and the monitoring results are detailed in the following sub-sections.

AIR QUALITY

5.02 The 1-Hour and 24-Hour TSP impact air quality monitoring data are summarized in **Tables 5-1** and **5-2**. Graphical plots of the monitoring results are shown in **Appendix H** respectively.

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

Monitoring	Start Time	1st Result	2 nd Result		_	Limit Level
Date	Start Time	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$
27-Jul-07	9:09	33	38	40	> 307	> 500
2-Aug-07	9:18	32	40	44	> 307	> 500
7-Aug-07	13:09	37	47	53	> 307	> 500
13-Aug-07	13:12	67	72	78	> 307	> 500
18-Aug-07	13:04	254	273	284	> 307	> 500
24-Aug-07	13:01	45	58	53	> 307	> 500

Note: * Monitoring result was exceeded the Action Level # Monitoring result was exceeded the Limit Level

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

Monitoring Date	Monitoring Results (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
30-Jul-07	26	> 165	> 260
4-Aug-07	33	> 165	> 260
10-Aug-07	18	> 165	> 260
16-Aug-07	17	> 165	> 260
22-Aug-07	12	> 165	> 260

* Monitoring result was exceeded the Action Level Note: # Monitoring result was exceeded the Limit Level

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



CONSTRUCTION NOISE

5.05 The impact construction noise monitoring results are summarized in Table 5-3. Graphical plots of the monitoring data are presented in **Appendix H**.

Table 5-3 Summary of Noise Monitoring Results at N10a

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6 th Leq5	Leq30
27-Jul-07	10:07	44.6	43.4	43.3	44.3	44.6	44.9	44.2
2-Aug-07	10:15	42.9	42.2	43.4	43.3	43.4	50.1	45.3
7-Aug-07	10:07	50.7	41.5	41.6	42.7	52.5	44.3	47.9
13-Aug-07	10:26	52.5	44.6	43.5	56.0	46.1	45.9	50.7
18-Aug-07	10:19	47.6	55.8	45.8	51.3	45.3	46.3	50.6
24-Aug-07	10:15	47.2	47.4	47.7	46.6	44.5	45.3	46.6
Limit Level -						> 75 dB(A)		

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

5.06 No construction noise exceedance (Action/Limit Level) was recorded in this reporting period.

STREAM WATER QUALITY

The stream water quality monitoring results are summarized in Table 5-4. Details of 5.07 the monitoring results and graphical plots for each parameter are presented in Appendix H.

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

Monitoring	DO in	mg/L	Turbidit	ty (NTU)	p	H	SS in	mg/L	Ammon	ia (mg/L)	Zinc ((μg/L)
Date	W9A [#]	W9B	W9A [#]	W9B	W9A [#]	W9B	W9A [#]	W9B	W9A#	W9B	W9A [#]	W9B
27-Jul-07	1.9	0.8	43.4	30.1	7.8	7.6	76	39	63.90	15.70	96	84
31-Jul-07	0.8	1.1	89.6	21.0	7.6	7.4	79	33	89.60	9.58	132	104
2-Aug-07	1.5	0.5	50.1	37.8	7.8	7.7	58	47	108.00	18.00	123	111
7-Aug-07	2.3	2.9	100.4	36.0	7.8	7.6	102	91	107.00	5.01	369	148
9-Aug-07	3.5	4.3	39.3	20.4	7.6	7.7	77	19	9.58	2.59	317	56
13-Aug-07	3.0	3.8	13.9	7.7	7.6	7.7	17	10	5.24	3.59	65	20
18-Aug-07	3.8	5.1	66.2	22.9	7.6	7.3	6	24	3.30	2.58	33	45
21-Aug-07	3.5	4.3	6.8	14.7	6.6	7.5	4	12	5.49	5.15	16	33
24-Aug-07	1.8	0.9	14.2	23.1	7.7	7.7	15	18	18.40	4.50	53	36
Action Level	-	< 0.3*	-	> 73.5*	-	> 7.0*	-	> 148*	-	> 30.91*	-	> 242*
Limit Level	-	< 0.2**	-	> 78.2**	-	> 7.1**	-	> 159**	-	> 32.20**	-	> 252**

Notes: #

Act as Control Station for the Impact Water Quality Monitoring.

^{*} 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.



ECOLOGY

- 5.08 33 individuals of birds from 12 species were recorded during the survey for the present monthly monitoring. Among the bird recorded, one species was wetland dependent birds, but no individual from the two wetland bird species with abundance from the baseline (i.e. Cattle Egret and Chinese Pond Heron) was found. Compared with the average abundance of 1.2 individuals and 3 species of wetland dependent birds recorded during the study for the KT15 Project Profile, the species number recorded in the monitoring survey reached 33.3 % of the baseline while the individual number was zero. The wetland dependent bird species number and individual number recorded fell within the limit level for the monitoring requirements for ecology (i.e. decrease in the number of species or individuals > 40% from the baseline).
- 5.09 As the major construction works for the project was not commenced when the survey for the present monthly monitoring were conducted, the site basically remained the same conditions as reported in baseline monitoring report, and no intrusions of construction activities into the wetland areas nor adverse impact on the wetlands was found. Based on the findings on the monthly monitoring of construction activities. The non-compliance in wetland dependent bird species was not caused by the project.
- 5.10 Photographic records are scheduled in six-month intervals and thus are not required in the present monthly monitoring. Fauna survey is conducted during the wetland season (April to July), and thus are not required in the present monthly monitoring.
- 5.11 Ecology Impact Monitoring Results are presented in the **Table 5-5**.

Table 5-5 Summary of Ecology Impact Monitoring Results

Scientific Name	Common Name	Abundance reported in the project profile	Abundance recorded in the present survey
Birds			
Bubulcus ibis	Cattle Egret	0.4	
Ardeola bacchus	Chinese Pond Heron	0.8	
Amaurornis phoenicurus	White-breasted Waterhen	Recorded only	5
Streptopelia chinensis	Spotted Dove	Recorded only	4
Hirundo rustica	Barn Swallow	Recorded only	
Motacilla alba	White Wagtail	Recorded only	
Pycnonotus jocosus	Red-whiskered Bulbul	Recorded only	3
Pycnonotus sinesis	Chinese Bulbul	Recorded only	2
Lanius schach	Long-tailed Shrike	Recorded only	1
Copsychus saularis	Oriental Magpie Robin	Recorded only	2
Orthotomus sutorius	Common Tailorbird	Recorded only	
Lonchura striata	White-rumped Munia	Recorded only	
Passer montanus	Eurasian Tree Sparrow	Recorded only	6
Sturnus nigricollis	Black-collared Starling	Recorded only	1
Acridotheres cristatellus	Crested Myna	Recorded only	2
Prinia flaviventris	Yellow-bellied Prinia	1	4
Eudynamis scolopacea	Common Koel	1	1
Halcyon smyrnensis	White-throated Kingfisher	1	
Garrulax perspicillatus	Masked Laughingthrush	1	
Zosterops japonica	Japanese White Eye	1	2
Lonchura punctulata	Scaly-breasted Munia	1	
Species Number		15 spp. recorded, only 2 species with abundance	12
Individual Number		1.2	33

^{*}Wetland dependent species with the names bolded.



6.0 WASTE MANAGEMENT

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

RECORDS OF WASTE QUANTITIES

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

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

Type of Waste	Quantity	Disposal Location
Broken Concrete (Inert) (m ³)	0	Public Filling
Reused in this Contract (Inert) (m ³)	0	N/A
Reused in other Projects (Inert) (m ³)	0	N/A
Disposal as Public Fill (Inert) (m ³)	0	N/A

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

Type of Waste	Quantity	Disposal Location
Recycled Metal (kg)	0	NA
Recycled Paper / Cardboard Packing (kg)	0	NA
Recycled Plastic (kg)	0	NENT Landfill
Chemical Wastes (kg)	0	License Collector
General Refuses (kg)	3.5	NENT Landfill

7.0 SITE INSPECTION

7.01 According to the EM&A Manual Section 9.1.2, the environmental site inspection should been formulation by ET Leader. ET had carried out the environmental site inspection on 02, 09, 16, and 21 August 2007 with the Representatives of the Engineer and the Contractor to evaluate the site environmental performance in this reporting period. The monthly general site inspection conducted by IEC's representative on 21 August 2007 with the representatives of the Engineer, the Contractor and ET Leader. No non-compliance and four observations were noted.



- 7.02 The details of observation during the site inspections and monthly audit as follows:
 - Stagnant water accumulated in the site area within CH290 was observed, the Contractor was reminded to clean up as soon as possible;
 - Rain water accumulated in the site area at CH290 was observed, the Contractor was reminded to clean up after each rainy day;
 - Some wastes/excavated soil from site clearance accumulated next to stream edge was observed at CH675. To prevent any soil runoff into the stream, the Contractor was reminded to remove and prevent any C&D/excavated soil accumulated next to the stream; and
 - Some silty water seepage into the stream was observed (CH155) during the site inspection, the Contractor was reminded to confine the wastewater/runoff and divert to the sedimentation system prior to discharge.
- 7.03 The ET site inspection checklists as shown in **Appendix J**. In general, the construction area of KT15 was kept clean and tidy.

8.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

8.01 No environmental complaint, summons and prosecution was received in this reporting period. 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

Reporting Period	Environmental Complaint Statistics				
Reporting 1 criou	Frequency	Cumulative	Complaint Nature		
20 – 25 Jul 2007	0	0	NA		
26 Jul – 25 Aug 2007	0	0	NA		

Table 8-2 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics				
reporting remot	Frequency	Cumulative	Nature		
20 – 25 July 2007	0	0	NA		
26 Jul – 25 Aug 2007	0	0	NA		

Table 8-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics					
Reporting 1 criou	Frequency	Cumulative	Nature			
20 – 25 July 2007	0	0	NA			
26 Jul – 25 Aug 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 IMPACT FORECAST

KEY ISSUES FOR THE COMING MONTH

- 10.01 Key issues to be considered in the coming month include:
 - Implementation of dust suppression measures at all times;
 - Potential wastewater quality impact due to surface runoff;
 - Potential fugitive dust quality impact due to dry/windy season (November to March) from the dry/loose/exposure soil surface/dusty material;
 - Disposal of empty engine oil containers within site area;
 - Ensure dust suppression measures are implemented properly;
 - Sediment catch-pits and silt removal facilities should be regularly maintained;
 - Management of chemical wastes;
 - Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
 - Follow-up of improvement on general waste management issues; and
 - Implementation of construction noise preventative control measures.
- 10.02 The tentative 3-month rolling program is presented in **Appendix B**.

11.0 CONCLUSION

11.01 The EM&A program in August 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 period are presented as follows:

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 species or individuals of wetland dependent bird from baseline	0	Not Required for 0% Exceedance

- 11.02 No 1-Hour and 24-Hour TSP exceeded the Action/Limit Level was recorded in this reporting period.
- 11.03 All measured daytime construction noise levels were below the Limit level and no complaint was received in this reporting period.
- 11.04 No stream water quality exceeded the Action/Limit Level was recorded during the reporting period.



- 11.05 No intrusions into the wetland area/adverse impact on the wetlands was found during the reporting period. Although exceedance on the decrease of wetland dependent bird species number and individual number was recorded for Ecology, it was not caused by the project as the major construction works have not commenced.
- 11.06 No environmental complaint, summons or prosecution was received in this reporting period.

RECOMMENDATIONS

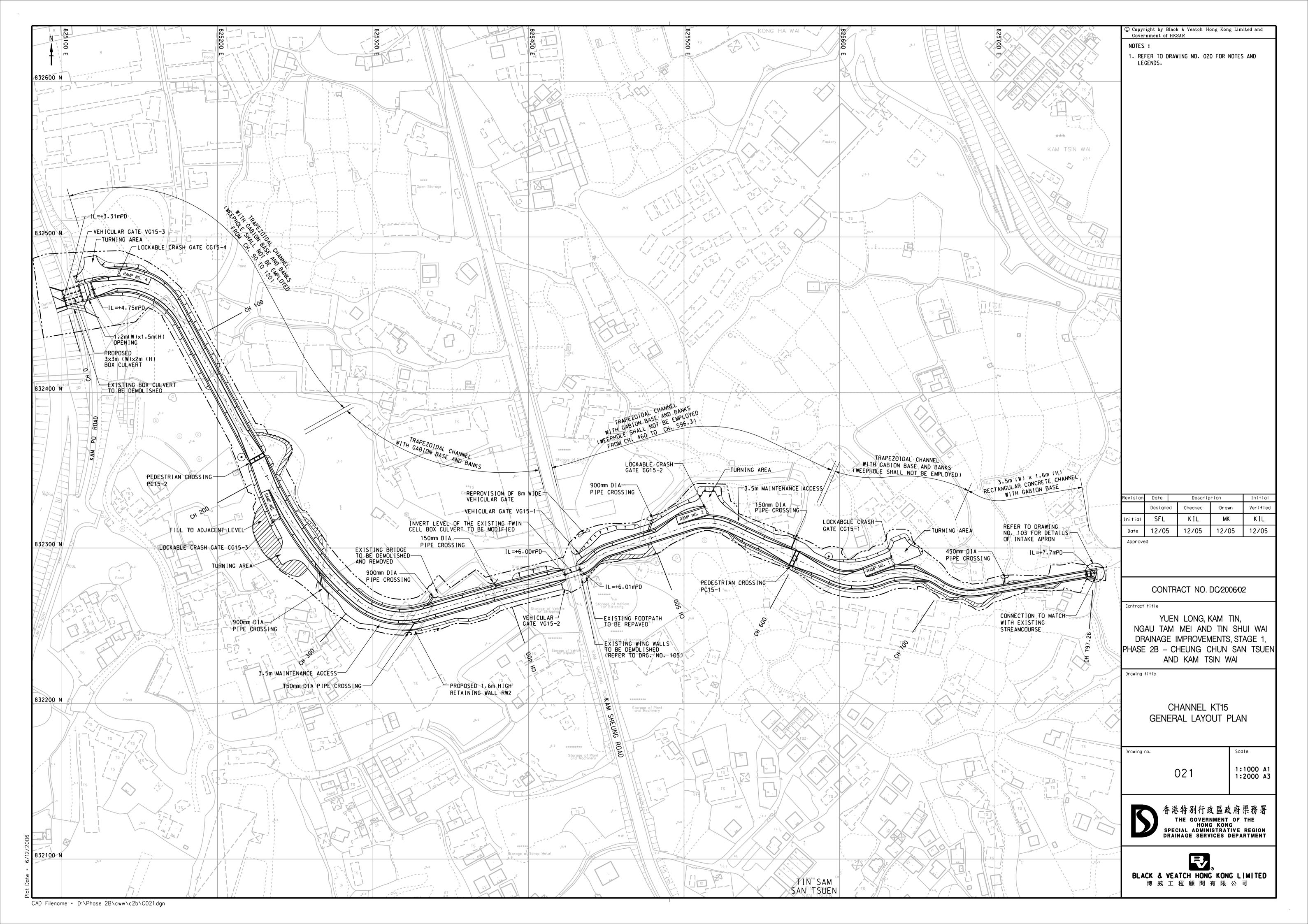
- 11.07 Based on the ET regular and monthly IEC site inspection records on 02, 09, 16 and 21 August 2007, no non-compliance and four observations were recorded. Details of the observations as follows:-
 - Stagnant water accumulated in the site area within CH 290 was observed, the Contractor was reminded to clean up as soon as possible;
 - Rain water accumulated in the site area at CH 290 was observed, the Contractor was reminded to clean up after each rainy day;
 - Some wastes/excavated soil from site clearance accumulated next to stream edge was observed at CH675. To prevent any soil runoff into the stream, the Contractor was reminded to remove and prevent any C&D/excavated soil accumulated next to the stream; and
 - Some silty water seepage into the stream was observed (CH155) during the site inspection, the Contractor was reminded to confine the wastewater/runoff and divert to the sedimentation system prior to discharge.
- 11.08 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.

1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai KT15 – 2nd Monthly EM&A Report for August 2007



Appendix A

Project Site Layout





Appendix B

Three-Month Construction Program

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

PROGRAMME OF WORKS - MP02 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

ter of Acceptance ter of Accep	Buration 1 day 839 days 830 days 830 days 90 days 91 days 1 day 91 days 91 days 91 days 91 days 91 days	'07 Mar 21 '07 Mar 30 '07 Jun 28 '07 Jun 28 '07 Jun 28 '07 Mar 30	Finish '07 Mar 21 '07 Mar 30 '07 Apr 3 '09 Jul 6 '07 Sep 25 '09 Jul 6 '07 Mar 30 '07 May 29 '07 Jun 28		Aug			<u> </u>		Oct		Nov		Dec	
e for commencement of Works cution of Article of Agreement Ster Programme of the Works Completion Dates Section I - portions 1, 2 and 3 Section II - portions 4, 5 and 5C Section III - portions 5A1, 5A2 and 5B Section IV - temp vehicular access at portion 5A1 Section V - preservation and protection of existing trees Possession of Site Portion 1 - channel KT2 Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15	1 day 1 day 1 day 1 day 839 days 830 days 830 days 830 days 90 days 90 days 830 days 1 day 61 days 91 days 1 day 91 days 91 days 91 days 91 days	'07 Mar 30 '07 Apr 3 '07 Mar 21 '07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Jun 28 '07 Jun 28 '07 Jun 28 '07 Mar 30	'07 Mar 30 '09 Jul 6 '07 Sep 25 '09 Jul 6 '07 Mar 30 '07 Mar 30 '07 May 29 '07 Jun 28					22222222 22222222 22222222							
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Section V - preservation and protection of existing trees Possession of Site Portion 1 - channel KT2 Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 4 - channel KT15 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	240 days 240 days 1 day 61 days 91 days 1 day 91 days 91 days 91 days 91 days	'07 Mar 30	'09 Jul 6 '07 Nov 24 '07 Mar 30 '07 May 29 '07 Jun 28						-0-0-0-0-0-0-0-0						
Possession of Site Portion 1 - channel KT2 Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 4 - channel KT15 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	240 days 1 day 61 days 91 days 1 day 91 days 91 days 91 days 91 days	'07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30	'07 Nov 24 '07 Mar 30 '07 May 29 '07 Jun 28			<u></u>			9/25						
Portion 1 - channel KT2 Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 4 - channel KT15 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	1 day 61 days 91 days 1 day 91 days 91 days 91 days 91 days	'07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30	'07 Mar 30 '07 May 29 '07 Jun 28			1	<u></u>				,,,,,,,,,,,,,,,,,		:::::::::::::::::::::::::::::::::::::::		
Portion 1 - channel KT2 Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 4 - channel KT15 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	1 day 61 days 91 days 1 day 91 days 91 days 91 days 91 days	'07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30	'07 Mar 30 '07 May 29 '07 Jun 28												
Portion 2 - channel KT2 Portion 3 - channel KT2 Portion 4 - channel KT15 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	61 days 91 days 1 day 91 days 91 days 91 days	'07 Mar 30 '07 Mar 30 '07 Mar 30 '07 Mar 30	'07 May 29 '07 Jun 28			i									
Portion 4 - channel KT15 Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	91 days 1 day 91 days 91 days 91 days	'07 Mar 30 '07 Mar 30	'07 Jun 28												
Portion 5 - channel KT15 Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	91 days 91 days 91 days	'07 Mar 30	107.14												
Portion 5A1 - channel KT15 Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	91 days 91 days		'07 Mar 30			1									
Portion 5A2 - channel KT15 Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	91 days	'07 Mar 30	'07 Jun 28			1									
Portion 5B - channel KT15 Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road		107 84- 00	'07 Jun 28			1									
Portion 5C - channel KT15 Portion 6 - Temp Storage Area at Chi Ho Road	l oo days	'07 Mar 30 '07 Sep 26	'07 Jun 28 '07 Nov 24			1		acio					11/24		
Portion 6 - Temp Storage Area at Chi Ho Road	91 days	'07 Mar 30	'07 Jun 28					3/20	<u> -:-:-:-:-:-:</u>	<u></u>	<u> </u>	<u> </u>	<u></u> 7' ''		
Portion 7 - Berthing Area	1 day	'07 Mar 30	'07 Mar 30												
	1 day	'07 Mar 30	'07 Mar 30			1									
Portion 8 - Site Accommodation	1 day	'07 Mar 30	'07 Mar 30			1									
A. Preliminary Works	830 42%	'07 Mar 21	9 Jul. 90'												
		'07 Mar 30		0-0-0-0-0-0	-3-3-3-3-3-3-							0-0-0-0-0-0-0-0-0-0		<u> </u>	
Environmental Monitoring and Audit	830 days	'07 Mar 30	'09 Jul 6												
2.1 Establishment of Environmental Team	14 days	'07 Mar 30	'07 Apr 12			i i									
2.2 approval by the Engineer	7 days	'07 Apr 13	'07 Apr 19			1									
	77 days	•				1									
						1									
						1									
2.4 Environmental impact monitoring and audit		'07 Jul 8	'09 Jul 6	3-3-3-3-3-3	-1-1-1-1-1-1-1-	-:*:-:-:-:-:-:		3-3-3-3-	1-1-1-1-1-1-1-1-				-3-3-3-3-3-3-3-3-3-		
3. Environmental Management and Environmental		'07 Mar 30	'07 Jun 10			<u> </u>							· · · · · · · · · · · · · · · · · · ·		
3.1 Submission of draft EMP	21 days	'07 Mar 30	'07 Apr 19			i									
		•				1									
						i									
		'07 Mar 30				1									
4.2 Equipment	51 days	'07 Mar 30	'07 May 19			1									
a. Contract telephone	21 days	'07 Mar 30	'07 Apr 19			1									
b. Survey equipment	45 days	'07 Mar 30	'07 May 13			1									
·	51 days	'07 Mar 30	'07 May 19			i									
						1									
installation	21 days	'07 Apr 22	'07 May 12												
testing & commissioning	7 days	'07 May 13	'07 May 19			1									
4.3 utilities servicing	33 days	'07 Mar 30	'07 May 1			1									
a. Water	1 day	'07 Mar 30	'07 Mar 30			1									
						1									
temporary service		'07 Mar 30	'07 Apr 30			1									
new service	19 days	'07 Apr 13	'07 May 1			1									
application	5 days	'07 Apr 13	'07 Apr 17			1									
installation	14 days	'07 Apr 18	'07 May 1			1									
d. Facsimile	33 days	'07 Mar 30	'07 May 1			1									
						1									
		-				1									
installation	14 days	'07 Apr 18	'07 May 1			i									
e. Internet broadband	33 days	'07 Mar 30	'07 May 1			1									
temporary service (56K)	32 days	'07 Mar 30	'07 Apr 30			1									
new service	19 days	'07 Apr 13	'07 May 1			i I									
	5 days	'07 Apr 13	'07 Apr 17			1									
application															
application OGRAMME OF WORKS Task		Progre			Summary		Rolled Up Critical Tas			p Progress			Group By Summary		
	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 baseline monitoring a. Technical proposal & methodology b. Approval by the Engineer c. Baseline monitoring 2.4 Environmental management and Environmental 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 d. Facsimile temporary service new service application installation e. Internet broadband temporary service (56K) new service	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 3. Technical proposal & methodology 4. Approval by the Engineer 5. Baseline monitoring 6. Approval by the Engineer 6. Baseline monitoring 7. days 7. days 8. Environmental impact monitoring and audit 7. days 7. days 7. days 7. days 7. days 8. Environmental impact monitoring and audit 7. days 8. Days equipment 8. Contract telephone 9. days 1. days 1	A. Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 2. Environmental Monitoring and Audit 3. days 2. Environmental Monitoring and Audit 2. Establishment of Environmental Team 14 days 107 Mar 30 2. approval by the Engineer 7 days 107 Apr 13 2. approval by the Engineer 7 days 107 Apr 20 a. Technical proposal & methodology 7 days 107 Apr 20 b. Approval by the Engineer 7 days 107 Apr 20 c. Baseline monitoring 83 days 107 May 4 2.4 Environmental impact monitoring and audit 3. Environmental impact monitoring and audit 3. Submission of draft EMP 3. Comment from the Engineer 7 days 107 Apr 20 3. Submission of draft EMP 3. Comment from the Engineer 7 days 107 Apr 20 3. Submission of EMP 45 days 107 Apr 27 4. Engineer's Accommodation 51 days 107 Mar 30 4.1 Renovation 30 days 107 Mar 30 4.2 Equipment 51 days 107 Mar 30 6. Survey equipment 45 days 107 Mar 30 6. Contract computer facilities 51 days 107 Mar 30 6. Survey equipment 107 Mar 30 6. Survey equipment 108 days 109 Mar 30 109	A. Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 2. Environmental Monitoring and Audit 330 days 300 Aways 300 Aw	A. Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 2. Environmental Monitoring and Audit 3. Statistishment of Environmental Team 4. days 7. da	A. Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 2. Environmental Monitoring and Audit 3. Submission of Environmental Team 4. Approval by the Engineer 5. Approval by the Engineer 6. Baseline monitoring 7. days 7.	A Preliminary Works 1. Setting out of Works 2. Environmental Monitoring and Audit 3. So days 2. Environmental Monitoring and Audit 3. So days 3. So days 3. So days 4. Le Stabishment of Environmental Team 1. days 7. day	Performancy Works	A. Preliminary Works 1. Seting ox of Works 2. Environmental Monitoring and Audit 2.1 Essablishment of Environmental Toam 1.4 days 7.	A. Preliminary Works	A. Perliminary Works	A Parliminary Works 1. Setting mort Works 8. Storage 1. Setting mort Works 8. Storage 1. Setting mort Works 2. Environmental Monitoring and Audet 2. Environmental Monitoring and Audet 2. Environmental Monitoring and Audet 2. Environmental Monitoring mort of the mortal mort	Particularion y Works 150 days 10 mar 21 10 July 10 July	Part Part	1. Series of Windows 1. Series of Windows

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

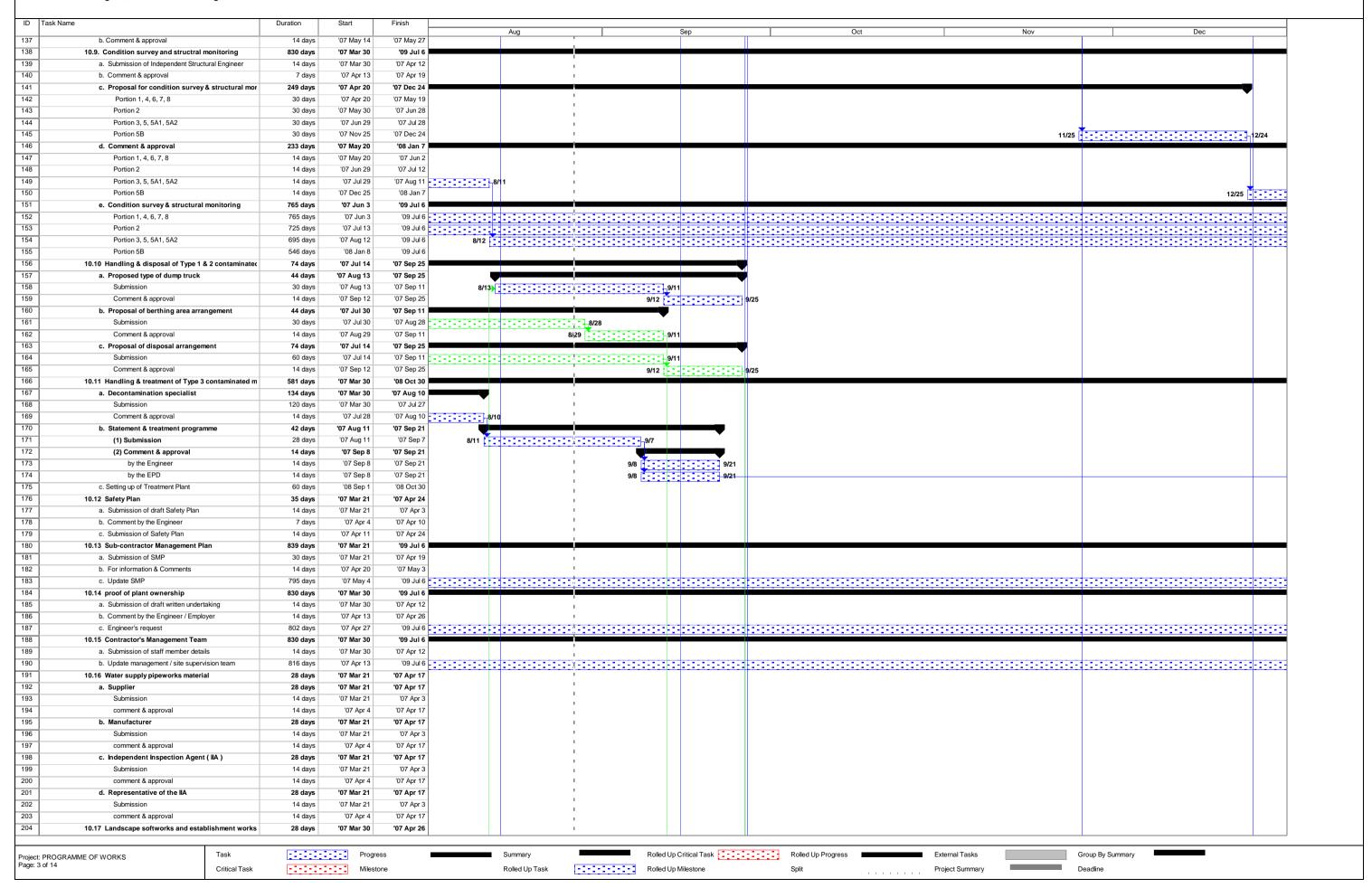
PROGRAMME OF WORKS - MP02 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

	ı	Duration	Start	Finish	Διια		Sep		Oct		Nov	Dec	
	installation	14 days	'07 Apr 18	'07 May 1	Aug	<u> </u>	Эер	<u> </u>	OG	<u> </u>	INU∜	l Dec	
+	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		1							
73	b. Toilet facilities	21 days	'07 Apr 23	'07 May 13		1							
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		1							
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		1							
81	6.2 comment & approval	14 days	'07 Apr 6	'07 Apr 19									
82	6.3 delivery	103 days	'07 Apr 20	'07 Jul 31 _ 7/31									
83	6.4 temp service	124 days	'07 Mar 30	'07 Jul 31 17/31		1							
84	·					1							
85	7. Transport (land) for Public Works Regional Laboratory	124 days	'07 Mar 30	'07 Jul 31		1							
	7.1 submission	7 days	'07 Mar 30	'07 Apr 5		1							
86 87	7.2 comment, approval & instruction	14 days	'07 Apr 6	'07 Apr 19		1							
	7.3 delivery	103 days	'07 Apr 20	'07 Jul 31 7/31									
88	8. Signboard	150 days	'07 Mar 30	'07 Aug 26		<u>Y</u>							
89	8.1 Major	150 days	'07 Mar 30	'07 Aug 26		V							
90	submission	90 days	'07 Mar 30	'07 Jun 27		1							
91	comment & approval	90 days	'07 Apr 29	'07 Jul 27		I							
92	erection	90 days	'07 May 29	'07 Aug 26		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		1							
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									
98	9.1 Engineer's instruction	1 day	'07 Apr 29	'07 Apr 30		1							
99	9.2 installation	14 days	'07 Apr 30	'07 May 13		1							
00	10. Contractual general submissions	839 days	'07 Mar 21	'09 Jul 6									
01	10.1 programmes	28 days	'07 Mar 21	'07 Apr 17		1							
02	a. GCC Clause 16 programme	14 days	'07 Mar 21	'07 Apr 3									
03	b. Works programme & financial programme	14 days	'07 Apr 4	'07 Apr 17		1							
104	c. 3-month rolling programme	14 days	'07 Apr 4	'07 Apr 17		1							
05	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							
07	b. Surveyor	14 days	'07 Mar 30	'07 Apr 12		1							
108	c. Sub-agent	14 days	'07 Mar 30	'07 Apr 12		1							
09	d. Geotechnical Engineer	7 days	'07 Mar 30	'07 Apr 5		1							
10	e. Geotechnical Supervisor	14 days	'07 Mar 30	'07 Apr 12		1							
111	f. Foreman - concrete	14 days	'07 Mar 30	'07 Apr 12		1							
112	g. Foreman - drainage	14 days	'07 Mar 30	'07 Apr 12		1							
13	h. Staff Organization Plan	14 days	'07 Mar 30	'07 Apr 12									
114	10.3 Safety Organization	14 days	'07 Mar 30	'07 Apr 12		1							
15	a. Safety Officer	14 days	'07 Mar 30	'07 Apr 12		1							
116	b. Safety Supervisor	14 days	'07 Mar 30	'07 Apr 12		1							
117	c. Safety Representative	14 days	'07 Mar 30	'07 Apr 12		1							
118	10.4 TTMS design	7 days	'07 Mar 30	'07 Apr 5									
119	a. Independent Traffic Consultant	7 days	'07 Mar 30	'07 Apr 5		1							
20	b. Traffic Engineer	7 days	'07 Mar 30	'07 Apr 5		1							
121	-		'07 Mar 30	'07 May 1		1							
22	10.5 Assistant to Engineer a. Chainmen (4)	33 days	'07 Mar 30	'07 May 1		1							
23	a. Chainmen (4) b. Watchmen (2)	33 days	'07 Mar 30	'07 May 1									
24	c. Field assistant (1)	33 days		The second secon		1							
- 1		33 days	'07 Mar 30	'07 May 1		1							
25	d. Technical assistant (1)	33 days	'07 Mar 30	'07 May 1		1							
26	e. Clerical assistant (1)	33 days	'07 Mar 30	'07 May 1		1							
- 1	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		1							
29	a. Submission	7 days	'07 Mar 30	'07 Apr 5		1							
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							
32	10.7 Independent Checking of Temporary Works	28 days	'07 Mar 30	'07 Apr 26		1							
33	Submission of independent checking engineer	14 days	'07 Mar 30	'07 Apr 12		1							
34	b. Comment & approval	14 days	'07 Apr 13	'07 Apr 26		1							
35	10.8 Trip ticket system for C & D material	59 days	'07 Mar 30	'07 May 27		1							
36	a. Submission of site management plan	45 days	'07 Mar 30	'07 May 13		1							
				I			1	ı				1	
	- .	-1-1-1-	Progres	s ==========	Summary		Rolled Up Critical Task	Rolled Up Pro	ress	External Tasks		Group By Summary	
	PROGRAMME OF WORKS Task		- Flogres	~	-arring y		AOIIOU OP OHIIOUH I don	Nolled Up PIC	g. 000	-Accida Lasks		Crosp by Cultilliary	

Contract No. : DC / 2006 / 02

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

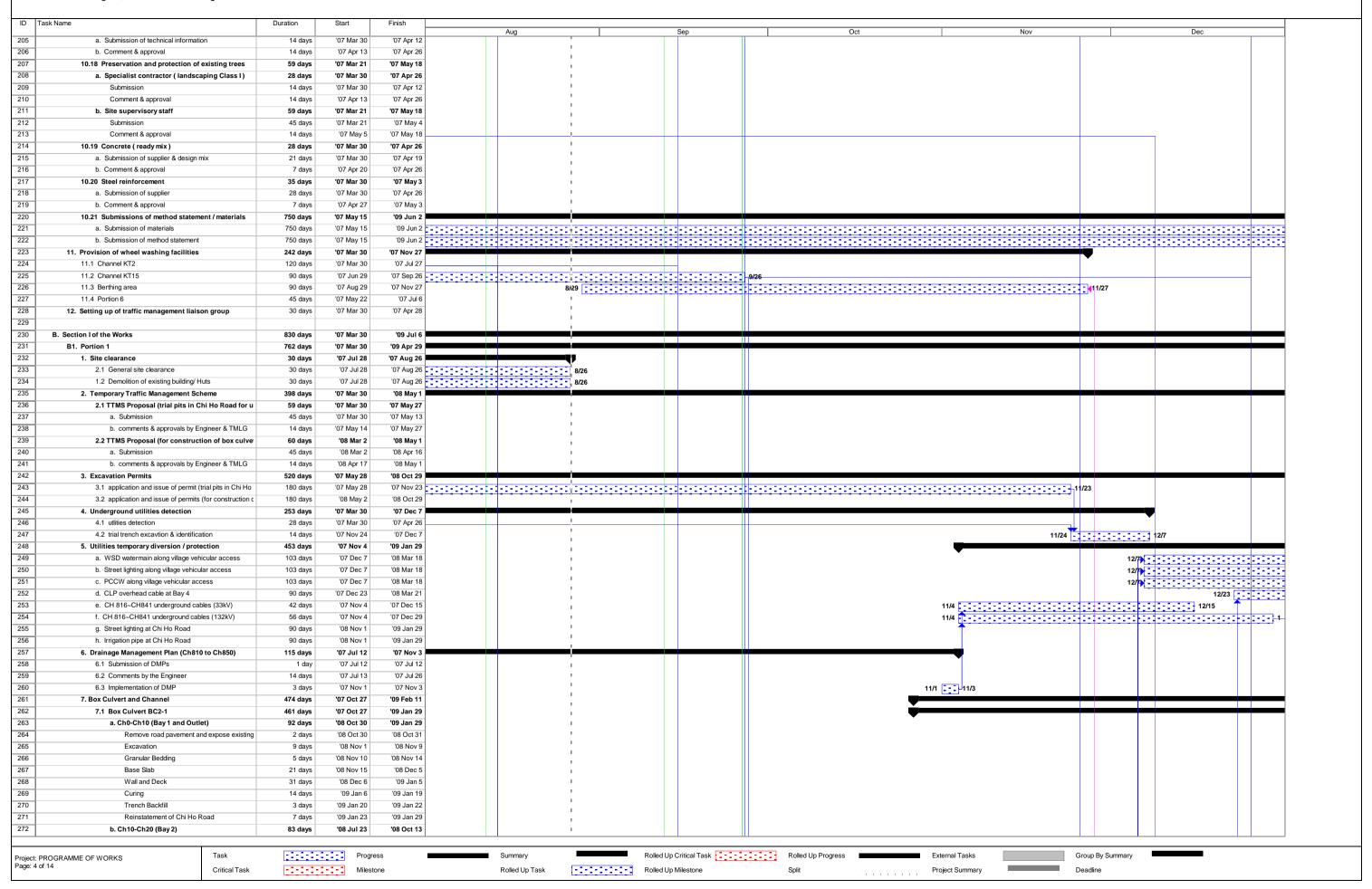
Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai



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



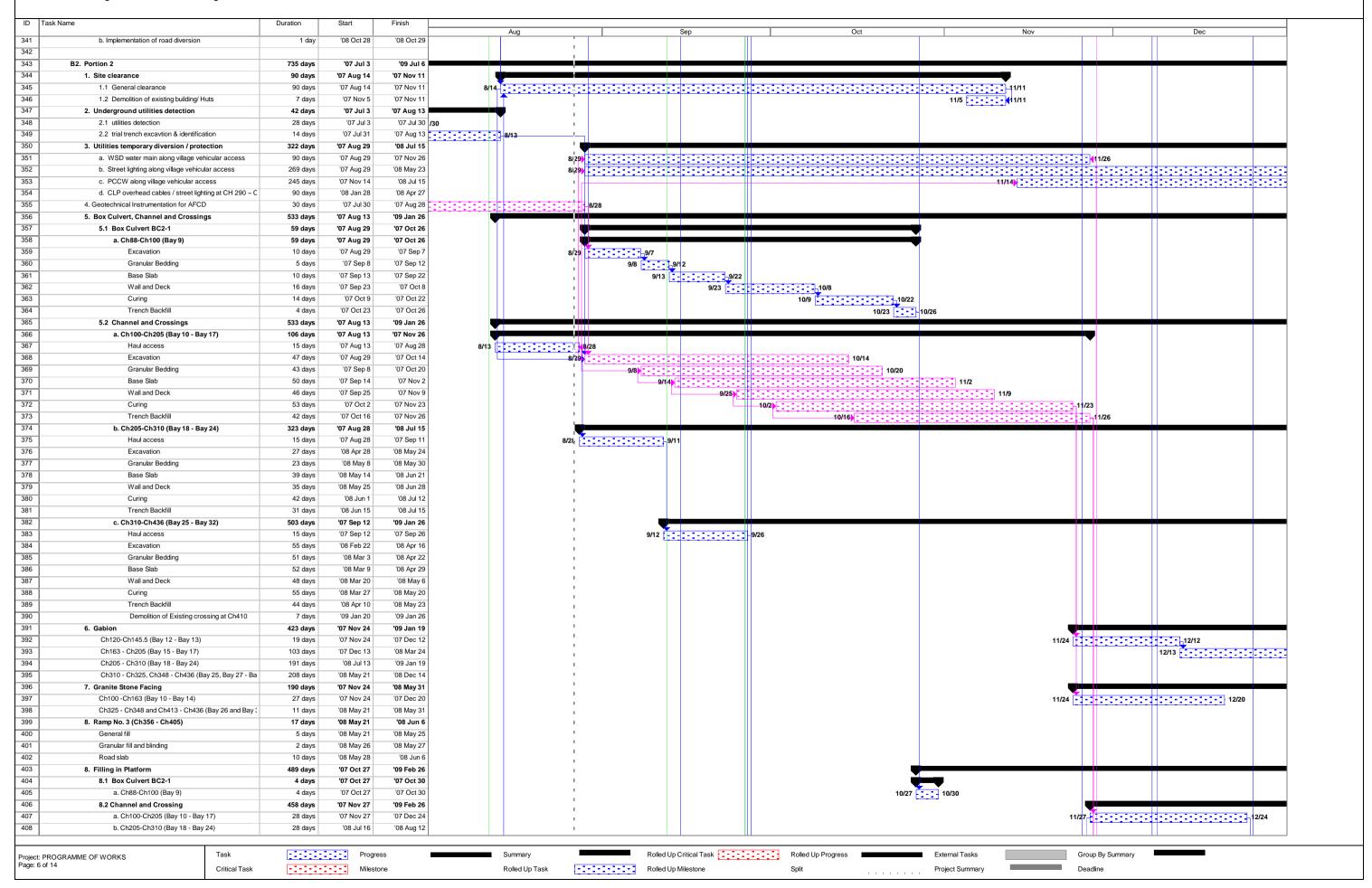
PROGRAMME OF WORKS - MP02 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

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 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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	9 days 5 days 21 days 31 days 14 days 3 days 57 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 4 days 51 days 5 days 9 days 16 days 10 days 11 days 11 days 12 days 13 days 14 days 14 days 15 days 16 days 16 days 17 days 18 days 19 days 10 days	'08 Jul 23 '08 Aug 1 '08 Aug 6 '08 Aug 6 '08 Aug 27 '08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 2 '08 Jan 27 '08 Feb 12 '08 Mar 13	'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 4 '07 Dec 22 '08 May 17 '08 Apr 29 '08 Apr 39 '08 Apr 39 '08 May 17 '08 May 17 '08 May 13 '08 May 17 '08 Mar 30 '08 Apr 39 '08 May 17 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 8 '08 Jan 17 '08 Feb 11	Aug	Sep	10/27	Nov 11/15 [12/1 12/2 12/2 12/18 12/19 12/22
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 Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill	21 days 31 days 31 days 31 days 14 days 3 days 57 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 57 days 9 days 16 days 17 days 18 days 19 days 103 days 25 days 8 days 9 days 16 days 17 days 18 days 19 days 19 days 103 days 25 days 25 days 31 days 32 days 33 days 34 days 4 days 55 days 56 days 57 days 58 days 59 days 59 days 50 days	'08 Aug 6 '08 Aug 27 '08 Sep 27 '08 Oct 11 '07 Oct 27 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'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 22 '08 May 17 '08 Apr 13 '08 Apr 29 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17			10/27	11/5 11/9 11/10	12/5 12/19 12/18
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. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill	31 days 14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 16 days 17 days 18 days 19 days 103 days 25 days 8 days 9 days 16 days 17 days 18 days 19 days 19 days 103 days 25 days 103 days 25 days 103 days 25 days	'08 Aug 27 '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 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'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 22 '08 May 17 '08 Apr 4 '08 Apr 29 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17			10/27	11/5 11/9 11/10 11/18 11/19	12/5 12/19 12/18 12/19 12/22
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 Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill	14 days 3 days 57 days 9 days 5 days 9 days 16 days 14 days 5 days 9 days 16 days 14 days 5 days 9 days 16 days 14 days 4 days 16 days 103 days 25 days 8 days 9 days 16 days 16 days 17 days 18 days 19 days 19 days 103 days 25 days 25 days 25 days 36 days 37 days 38 days 39 days 39 days 40 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 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'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 '08 Apr 13 '08 Apr 29 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17			10/27	11/5 11/4 11/5 11/10 11/9 11/10 11/19 11/18	12/5 12/19 12/18
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 Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Base Slab Granular Bedding Granular Bedding	3 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 16 days 14 days 57 days 9 days 16 days 16 days 16 days 16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 103 days 25 days 16 days 17 days 18 days 19 days 19 days 19 days 19 days 19 days 10 days	'08 Oct 11 '07 Oct 27 '07 Oct 27 '07 Nov 5 '07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 5 '07 B Mar 22 '08 Mar 31 '08 Apr 31 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'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 Apr 3 '08 Apr 4 '08 Apr 3 '08 Apr 43 '08 May 17 '08 May 17 '08 May 17 '08 May 13 '08 May 13 '08 May 17 '08 May 17 '08 May 13			10/27	11/16 11/19 11/10 11/19 11/19 11/19	12/5 12/19 12/18 12/19 12/12
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 Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Granular Bedding Base Slab	57 days 9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 16 days 16 days 16 days 14 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 11 days 11 days 12 days 13 days 14 days 15 days 16 days 17 days 18 days 19 days 19 days 19 days 10 days 10 days 10 days 11 days 12 days 13 days 14 days 15 days 16 days 16 days 17 days 18 days 19 days 19 days 19 days 19 days 10 days 10 days 10 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 30 '08 Apr 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 27 '08 Feb 12	'07 Dec 22 '07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 22 '08 May 17 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 17 '08 May 17 '08 May 17 '08 May 17 '08 May 13 '08 Apr 29 '08 May 13 '08 Apr 30 '08 Apr 4 '08 Apr 30			10/27	11/5 11/4 11/5 11/10 11/9 11/10 11/19 11/18	12/5
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 Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	9 days 5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 16 days 16 days 16 days 16 days 16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 16 days 103 days 25 days 16 days 17 days 18 days 25 days 25 days 25 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 14 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Nov 4 '07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 22 '08 May 17 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 17 '08 May 17 '08 May 17 '08 May 13 '08 Apr 29 '08 May 13 '08 Apr 30			10/27	11/5 11/4 11/5 11/9 11/10 11/18 11/19	12/5
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 Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	5 days 9 days 16 days 14 days 4 days 57 days 9 days 5 days 16 days 11 days 12 days 13 days 14 days 14 days 15 days 16 days 17 days 18 days 19 days 19 days 103 days 104 days 105 days 105 days 107 days 108 days 109 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 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Nov 9 '07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8			10/27	11/5 [12/5
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Mall and Deck Curing Trench Backfill	9 days 16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 103 days 25 days 9 days 104 days 105 days 105 days 107 days 108 days 109 days	'07 Nov 10 '07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Nov 18 '07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 17 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17				11/5 [12/5 12/19 12/18 12/19 12/12
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Mall and Deck	16 days 14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 4 days 103 days 25 days 9 days 16 days 103 days 25 days 8 days 9 days 16 days 16 days 17 days 18 days 19 days 19 days 10 days	'07 Nov 19 '07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Dec 4 '07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 17 '08 May 17 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8				11/10 <u> 1</u> 11/18 11/19 <u></u>	12/5 12/19 12/18 12/19 12/22
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab Mall and Deck	14 days 4 days 57 days 9 days 5 days 9 days 16 days 14 days 103 days 25 days 9 days 16 days 103 days 25 days 8 days 9 days 16 days 16 days 17 days 18 days 19 days 19 days 10 days 10 days 10 days 10 days 10 days 10 days	'07 Dec 5 '07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Dec 18 '07 Dec 22 '08 May 17 '08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8				11/19 [12/5 12/19 12/18 12/19 12/22
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab August Slab Granular Bedding Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	4 days 57 days 9 days 5 days 9 days 16 days 14 days 103 days 25 days 8 days 9 days 16 days 1103 days 25 days 16 days 17 days 18 days 19 days 19 days 10 days	'07 Dec 19 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'07 Dec 22 '08 May 17 '08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8					12/5 12/19 12/18 12/19 12/12
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	57 days 9 days 5 days 9 days 16 days 14 days 14 days 25 days 8 days 9 days 16 days 11 days 25 days 8 days 9 days 16 days 11 days 12 days 13 days 14 days 15 days 16 days 17 days 18 days 19 days 19 days 11 days	'08 Mar 22 '08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'08 May 17 '08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17					12/1
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	9 days 5 days 9 days 16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 14 days 16 days 17 days 18 days 19 days 19 days 10 days 10 days 10 days 10 days 10 days	'08 Mar 22 '08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'08 Mar 30 '08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17					12/1
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	5 days 9 days 16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 14 days 16 days 114 days 15 days 16 days 17 days 18 days 18 days 19 days 19 days 11 days	'08 Mar 31 '08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'08 Apr 4 '08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17	 				<u> </u>
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	9 days 16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 14 days 6 days 25 days	'08 Apr 5 '08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'08 Apr 13 '08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17					<u> </u>
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 f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay) Excavation Granular Bedding Base Slab	16 days 14 days 4 days 103 days 25 days 8 days 9 days 16 days 14 days 6 days 25 days	'08 Apr 14 '08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27	'08 Apr 29 '08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17	1				<u> </u>
Curing Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	14 days 4 days 103 days 25 days 8 days 9 days 16 days 14 days 6 days 103 days 25 days	'08 Apr 30 '08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'08 May 13 '08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8					<u> </u>
Trench Backfill e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	4 days 103 days 25 days 8 days 9 days 16 days 14 days 6 days 103 days 25 days	'08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17	1				<u> </u>
e. Ch42-Ch52 and Ch64-Ch76 (Bay 5 and Bay Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	4 days 103 days 25 days 8 days 9 days 16 days 14 days 6 days 103 days 25 days	'08 May 14 '07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'08 May 17 '08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17	1				<u> </u>
Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	103 days 25 days 8 days 9 days 16 days 14 days 6 days 103 days	'07 Dec 7 '07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'08 Mar 18 '07 Dec 31 '08 Jan 8 '08 Jan 17	1				<u> </u>
Excavation Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	25 days 8 days 9 days 16 days 14 days 6 days 103 days	'07 Dec 7 '08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'07 Dec 31 '08 Jan 8 '08 Jan 17	i i				<u> </u>
Granular Bedding Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	8 days 9 days 16 days 14 days 6 days 103 days 25 days	'08 Jan 1 '08 Jan 9 '08 Jan 27 '08 Feb 12	'08 Jan 8 '08 Jan 17					<u> </u>
Base Slab Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	9 days 16 days 14 days 6 days 103 days 25 days	'08 Jan 9 '08 Jan 27 '08 Feb 12	'08 Jan 17	The state of the s	1 1			
Wall and Deck Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	16 days 14 days 6 days 103 days 25 days	'08 Jan 27 '08 Feb 12		1				
Curing Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	14 days 6 days 103 days 25 days	'08 Feb 12		1				
Trench Backfill f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	6 days 103 days 25 days		'08 Feb 25	1				
f. Ch52-Ch64 and Ch76-Ch88 (Bay 6 and Bay Excavation Granular Bedding Base Slab	103 days 25 days	UK MIST 13	'08 Mar 18					
Excavation Granular Bedding Base Slab	25 days	'07 Dec 7	'08 Mar 18	i				
Granular Bedding Base Slab		'07 Dec 7	'07 Dec 31	i i				
Base Slab	U Maria			T I				12/
	8 days	'08 Jan 1	'08 Jan 8	1				1/1
14/-11 15 1	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	i				
	6 days	'08 Mar 13		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	1				
Granular Bedding	3 days	'08 Feb 16	'08 Feb 18					
Base Slab	22 days	'08 Feb 19	'08 Mar 11	i				
Wall and Deck	23 days	'08 Mar 12	'08 Apr 3	i i				
Curing	14 days	'08 Apr 4	'08 Apr 17	T. Control of the con				
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	i				
Excavation (including contamination material	12 days	'08 Dec 7	'08 Dec 18	i i				
Granular Bedding	3 days	'08 Dec 19	'08 Dec 21	1				
Base Slab	12 days	'08 Dec 22	'09 Jan 2	I I				
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	i				
			'09 Mar 3	1				
8.1 Box Culvert		'08 Mar 19	'08 Oct 20	T .				
				!				
				i				
				1				
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			I	 				
				i l				
			I	i i				
				T I				
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
16. Road Diversion in Chi Ho Road		'08 Oct 21	'08 Oct 29	i i				
Construction of temporary road above Bay 2	7 days	'08 Oct 21	'08 Oct 27	1				
	a. Ch832-Ch844 (Bay 56b) 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	Trench Backfill 6 days 7.2 Channel 387 days a. Ch832-Ch844 (Bay 56b) 91 days Excavation (including contamination material: 25 days Granular Bedding 3 days Base Slab 22 days Wall and Deck 23 days Curing 14 days 4 days 5 days 5 days 5 days 5 days 6	Trench Backfill 6 days 7.2 Channel 387 days 7.2 Channel 387 days 7.2 Channel 387 days 7.8 Jan 22 a. Ch832-Ch844 (Bay 56b) 91 days 7.8 Jan 22 Excavation (including contamination material 25 days 7.8 Jan 22 6 days 7.8 Jan 22 6 days 7.8 Jan 22 6 days 7.8 Jan 22 7	Trench Backfill 6 days 08 Mar 13 08 Mar 18 7.2 Channel 387 days 198 Jan 22 199 Feb 11 a. Ch832-Ch844 (Bay 56b) 91 days 198 Jan 22 198 Apr 21 Excavation (including contamination materials 25 days 198 Jan 22 198 Feb 15 Granular Bedding 3 days 198 Feb 16 19 198 Feb 18 Base Slab 22 days 198 Feb 19 198 Mar 11 Wall and Deck 23 days 198 Mar 12 198 Apr 37 Curring 14 days 198 Apr 4 198 Apr 17 Trench Backfill 4 days 198 Apr 18 198 Apr 17 Trench Backfill 4 days 198 Apr 18 198 Apr 17 Excavation (including contamination materials 12 days 198 Dec 7 198 Feb 18 198 Dec 21 Base Slab 12 days 198 Dec 7 198 Feb 11 198 Dec 18 198 Dec 21 198 Dec 21 199 Jan 24 199 Jan 24 199 Jan 24 199 Jan 25 199 Jan 24 199 Jan 25 199 Jan 26 199 Jan 26 199 Jan 26 199 Jan 27 199 Feb 11 198 Dec 199 Jan 28 199 Jan 29	Trench Backfill 6 days 108 Mar 13 1 08 Mar 18 7.2 Channel 387 days 108 Jan 22 109 Feb 11 a. Ch532-Ch644 (Bay 56b) 91 days 108 Jan 22 108 Feb 15 Excavation (including contamination materials 25 days 108 Jan 22 108 Feb 15 Granulus Bedding 3 days 108 Feb 19 108 Mar 11 Wall and Deck 23 days 108 Feb 19 108 Mar 11 Wall and Deck 23 days 108 Feb 19 108 Mar 11 Ternch Backfill 4 days 108 Apr 41 108 Apr 31 b. Demolition of existing crossing 20 days 108 New 17 108 Dec 6 c. Ch800-833 (Bay 56a) 67 days 108 Dec 7 108 Dec 18 Granulus Bedding 3 days 108 Dec 7 108 Dec 18 Granulus Bedding 12 days 108 Dec 7 108 Dec 18 Granulus Bedding 2 days 108 Dec 7 108 Dec 18 Granulus Bedding 2 days 108 Dec 7 108 Dec 18 Granulus Bedding 3 days 108 Dec 22 109 Jan 24 Curing 2 days 108 Dec 22 109 Jan 24 Wall and Deck 22 days 109 Jan 3 109 Feb 11 Excavation (including contamination materials 16 days 109 Jan 13 109 Feb 17 Trench Backfill 16 days 109 Jan 27 109 Feb 11 S. Filling in Platform 350 days 108 Mar 19 108 Dec 20 b. Ch20-Ch88 (Bay 3 to Bay 8) 41 days 108 Dec 14 108 Dec 20 b. Ch20-Ch88 (Bay 3 to Bay 8) 41 days 108 Mar 19 108 Ma	Tronch Backfill 6 days	Trever-Backill 6 days 200 Mar 12 00 Mar 12 1 7.2 Channell 337 days 37 days 20 43 as 22 00 64 pz 1 8. Ch82C-Ch84 (Bay Seb) 91 days 20 00 43 as 22 00 64 pz 1 6. Channell crediting proteomation material 3 days 100 45 days 1	Troch Bachil

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



PROGRAMME OF WORKS - MP02 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

Fask Name	Duration	Start	Finish	· · · · · · · · · · · · · · · · · · ·					
c. Ch310-Ch436 (Bay 25 - Bay 32)	31 days	'09 Jan 27	'09 Feb 26	Aug		Sep	Oct	Nov	Dec
9. Drainage works	496 days	'07 Dec 4	'09 Apr 12		1				
9.1 storm drain with manhole and headwall	472 days	'07 Dec 4	'09 Mar 19		1				
a. Ch100-Ch205 (Bay 10 - Bay 17)	20 days	'07 Dec 4	'07 Dec 23		1				12/4
b. Ch205-Ch310 (Bay 18 - Bay 24)	20 days	'08 Jul 23	'08 Aug 11		1				
c. Ch310-Ch436 (Bay 25 - Bay 32)	45 days	'09 Feb 3	'09 Mar 19		1				
9.2. surface drain	475 days	'07 Dec 25	'09 Apr 12		i i				
a. Ch100-Ch205 (Bay 10 - Bay 17)	45 days	'07 Dec 25	'08 Feb 7		1				12/25
b. Ch205-Ch310 (Bay 18 - Bay 24)	45 days	'08 Aug 13	'08 Sep 26						
c. Ch310-Ch436 (Bay 25 - Bay 32)	45 days	'09 Feb 27	'09 Apr 12						
10. Water supply pipeworks	60 days	'08 Jan 3	'08 Mar 2		1				
11. Roads and paving	157 days	'09 Jan 5	'09 Jun 10		1				
a. Ch90-Ch205 (Bay 9 - Bay 17)	52 days	'09 Jan 5	'09 Feb 26		1				
b. Ch205-Ch436 (Bay 18 - Bay 32) 12. Street furnitures / traffic sign / road marking	104 days 153 days	'09 Feb 27	'09 Jun 10 '09 Jul 6		i i				
a. Ch90-Ch205 (Bay 9 - Bay 17)	52 days	'09 Feb 4	'09 Mar 27		1				
b. Ch205-Ch436 (Bay 18 - Bay 32)	100 days	'09 Mar 29	'09 Jul 6		1				
13. Landscape softworks / hardworks	231 days	'08 Nov 18	'09 Jul 6						
a. Ch90-Ch205 (Bay 9 - Bay 17)	100 days	'08 Nov 18	'09 Feb 26		1				
b. Ch205-Ch436 (Bay 18 - Bay 32)	130 days	'09 Feb 27	'09 Jul 6		1				
14. Temporary Decking on Bay 10	10 days	'07 Nov 27	'07 Dec 6		1			11/	27
B3. Portion 3	726 days	'07 Jul 12	'09 Jul 6		_				
1. Site clearance	90 days	'07 Sep 15	'07 Dec 13		1	<u> </u>			
1.1 General clearance	90 days	'07 Sep 15	'07 Dec 13		1	9/15	:-:	<u> </u>	12/13
1.2 Demolition of existing building/ Huts	14 days	'07 Nov 30	'07 Dec 13			1			11/30
2. Underground utilities detection	42 days	'07 Jul 31	'07 Sep 10						
4.1 utilities detection	28 days	'07 Jul 31	01 Aug 21						
4.2 trial trench excavtion & identification	14 days	'07 Aug 28	'07 Sep 10		8/28	9/10			
3. Utilities temporary diversion / protection	153 days	'08 Nov 1	'09 Apr 2		1				
WSD water main along village access at CH 1150 Street lighting along village access at CH 1150	153 days	'08 Nov 1	'09 Apr 2 '09 Feb 1		1				
b. Street lighting along village access at CH 1150 c. PCCW along village access at CH 1150	93 days 153 days	'08 Nov 1	'09 Feb 1 '09 Apr 2		1				
4. Drainage Management Plan	716 days	'07 Jul 12	'09 Apr 2		· —————				
4.1 Submission of DMPs	1 day	'07 Jul 12	'07 Jul 12						
4.2 Comments by the Engineer	14 days	'07 Jul 13	'07 Jul 26		1				
4.3 Implementation of DMP	659 days	'07 Sep 7	'09 Jun 26		9/7 >	 	:=	<u></u>	 -
5. Channel and Crossings	598 days	'07 Sep 1	'09 Apr 20				· T		, -, , -, -, -, -, -, -, -, -, -, -, -,
a. Ch436-Ch530 (Bay 33 - Bay 39)	564 days	'07 Sep 27	'09 Apr 12				—		
Haul access	15 days	'07 Sep 27	'07 Oct 11		i		0/27		
Flow diversion	10 days	'09 Jan 14	'09 Jan 23		1				
Excavation (including contamination material)	49 days	'09 Jan 24	'09 Mar 13						
Granular Bedding	45 days	'09 Feb 3	'09 Mar 19						
Base Slab	39 days	'09 Feb 9	'09 Mar 19		1				
Wall and Deck	35 days	'09 Feb 20 '09 Feb 27	'09 Mar 26		1				
Curing Trench Backfill	42 days 31 days	'09 Feb 27	'09 Apr 9 '09 Apr 12						
b. Ch530-Ch630 (Bay 40 - Bay 45)	470 days	'07 Oct 12	'09 Apr 12		i				
Haul access	15 days	'07 Oct 12	'07 Oct 26		1		10/12		
Flow diversion	10 days	'08 Nov 2	'08 Nov 11				10/12 10/26		
Excavation (including contamination material)	45 days	'08 Nov 12	'08 Dec 26		i				
Granular Bedding	41 days	'08 Nov 22	'09 Jan 1		1				
Base Slab	33 days	'08 Nov 28	'08 Dec 30						
Wall and Deck	29 days	'08 Dec 9	'09 Jan 6						
Curing	36 days	'08 Dec 16	'09 Jan 20		1				
Trench Backfill	25 days	'08 Dec 30	'09 Jan 23						
c. Ch630-Ch730 (Bay 46 - Bay 52)	184 days	'07 Oct 27	'08 Apr 27				<u> </u>		
Haul access	15 days	'07 Oct 27	'07 Nov 10		1		10/27	11/10	
Flow diversion	10 days	'08 Feb 9	'08 Feb 18		1				
Excavation (including contamination material)	49 days	'08 Feb 9	'08 Mar 28		1				
Granular Bedding	45 days	'08 Feb 19	'08 Apr 3						
Base Slab	34 days	'08 Feb 25	'08 Mar 29		1				
Wall and Deck	35 days	'08 Mar 7	'08 Apr 10		1				
Curing Trench Backfill	42 days	'08 Mar 14	'08 Apr 24						
Trench Backfill d. Ch730-Ch800 (Bay 53 - Bay 55)	31 days	'08 Mar 28	'08 Apr 27						
		'07 Sep 1			0/4	9/6			
					9/1 - 1 - 1 - 1	0/46			
					917—	9/10			
Excavation (motioning contamination material)	Jo uays	J1 140V Z1	UU Jaii U		•			11/	<u> </u>
Haul access Flow diversion Excavation (including contamination material PROGRAMME OF WORKS Task	al)	6 days 10 days al) 38 days	6 days '07 Sep 1 10 days '07 Sep 7 38 days '07 Nov 27	6 days '07 Sep 1 '07 Sep 6 10 days '07 Sep 7 '07 Sep 16 al) 38 days '07 Nov 27 '08 Jan 3	6 days '07 Sep 1 '07 Sep 6 10 days '07 Sep 7 '07 Sep 16 al) 38 days '07 Nov 27 '08 Jan 3	6 days '07 Sep 1 '07 Sep 6 9/1	6 days '07 Sep 1 '07 Sep 6 10 days '07 Sep 7 '07 Sep 16 al) 38 days '07 Nov 27 '08 Jan 3	6 days '07 Sep 1 '07 Sep 6 10 days '07 Sep 7 '07 Sep 16 al) 38 days '07 Nov 27 '08 Jan 3	6 days '07 Sep 1 '07 Sep 6 9/1

PROGRAMME OF WORKS - MP02 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

Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch840-Ch1037 (Bay 56c - Bay 67) Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	34 days 34 days 34 days 30 days 37 days 26 days 432 days 10 days 10 days 66 days 64 days 75 days 75 days 71 days 582 days 10 days 582 days 41 days 54 days 33 days 29 days 44 days 41 days 30 days 499 days 5 days 10 days 33 days 34 days 35 days	'07 Dec 7 '07 Dec 7 '07 Dec 13 '07 Dec 24 '07 Dec 31 '08 Jan 14 '07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 16 '08 Aug 11 '08 Aug 12 '08 Aug 12 '08 Sep 2 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22 '08 Not 2 18	'08 Jan 9 '08 Jan 15 '08 Jan 22 '08 Feb 5 '08 Feb 8 '08 Nov 11 '07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 12 '09 Apr 3 '09 Apr 3 '09 Apr 3
Wall and Deck Curing Trench Backfill Ch840-Ch1037 (Bay 56c - Bay 67) Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1041-Ch105-C	30 days 37 days 26 days 432 days 10 days 10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 434 days 44 days 45 days 33 days 29 days 28 days 41 days 30 days 499 days 5 days	'07 Dec 24 '07 Dec 31 '08 Jan 14 '07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Jan 22 '08 Feb 5 '08 Feb 8 '08 Nov 11 '07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 17
Curing Trench Backfill Ch840-Ch1037 (Bay 56c - Bay 67) Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1046-Ch1330 (Bay 72 - Bay 84) Haul access	37 days 26 days 432 days 10 days 10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 41 days 30 days 49 days 5 days	'07 Dec 31 '08 Jan 14 '07 Sep 7 '07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Feb 5 '08 Feb 8 '08 Nov 11 '07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 17
Trench Backfill Ch840-Ch1037 (Bay 56c - Bay 67) Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1046-Ch1330 (Bay 72 - Bay 84) Haul access	26 days 432 days 10 days 10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 41 days 41 days 30 days 499 days 5 days	'08 Jan 14 '07 Sep 7 '07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Feb 8 '08 Nov 11 '07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 3
Ch840-Ch1037 (Bay 56c - Bay 67) Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1046-Ch1330 (Bay 72 - Bay 84) Haul access	432 days 10 days 10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 41 days 30 days 49 days 5 days	'07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 12 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '07 Sep 22	'08 Nov 11 '07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Haul access Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	10 days 10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'07 Sep 7 '08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'07 Sep 16 '08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Flow diversion Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	10 days 66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 41 days 30 days 499 days 5 days	'08 Jul 6 '08 Jul 16 '08 Jul 26 '08 Aug 12 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Jul 15 '08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Excavation (including contamination material) Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	66 days 64 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'08 Jul 16 '08 Jul 26 '08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Sep 19 '08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	64 days 79 days 79 days 75 days 82 days 71 days 582 days 10 days 33 days 29 days 28 days 41 days 30 days 499 days 5 days	'08 Jul 26 '08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22	'08 Sep 27 '08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Base Slab Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	79 days 75 days 82 days 71 days 582 days 5 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'08 Aug 1 '08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'08 Oct 18 '08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Wall and Deck Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	75 days 82 days 71 days 582 days 5 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'08 Aug 12 '08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'08 Oct 25 '08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 3
Curing Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	82 days 71 days 71 days 582 days 5 days 10 days 33 days 29 days 28 days 34 days 41 days 49 days 5 days	'08 Aug 19 '08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'08 Nov 8 '08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Apr 3 '09 Apr 17
Trench Backfill Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	71 days 582 days 5 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'08 Sep 2 '07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'08 Nov 11 '09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Ch1037-Ch1160 (Bay 68 - Bay 71) Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	582 days 5 days 10 days 33 days 29 days 28 days 34 days 41 days 49 days 5 days	'07 Sep 17 '07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Apr 20 '07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3
Haul access Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	5 days 10 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'07 Sep 21 '09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	5 days 10 days 10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'07 Sep 17 '09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Flow diversion Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	10 days 33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days	'09 Jan 23 '09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Feb 1 '09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Excavation and Handling of Type 3 Contaminated Granular Bedding Base Slab Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	33 days 29 days 28 days 34 days 41 days 30 days 499 days 5 days 10 days	'09 Feb 2 '09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Mar 6 '09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Granular Bedding Base Slab Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	29 days 28 days 34 days 41 days 30 days 499 days 5 days	'09 Feb 12 '09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Mar 12 '09 Mar 17 '09 Apr 3 '09 Apr 17
Base Slab Wall and Deck Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	28 days 34 days 41 days 30 days 499 days 5 days 10 days	'09 Feb 18 '09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Mar 17 '09 Apr 3 '09 Apr 17
Wall and Deck Curing Trench Backfill . Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	34 days 41 days 30 days 499 days 5 days	'09 Mar 1 '09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Apr 3 '09 Apr 17
Curing Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	41 days 30 days 499 days 5 days	'09 Mar 8 '09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	'09 Apr 17
Trench Backfill Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	30 days 499 days 5 days 10 days	'09 Mar 22 '07 Sep 22 '07 Sep 22 '08 Oct 22	
. Ch1146-Ch1330 (Bay 72 - Bay 84) Haul access	499 days 5 days 10 days	'07 Sep 22 '07 Sep 22 '08 Oct 22	US ADI ZU
Haul access	5 days 10 days	'07 Sep 22 '08 Oct 22	'09 Feb 1
	10 days	'08 Oct 22	'07 Sep 26
Flow diversion			'08 Oct 31
Demolition of existing crossing (Bay 72)	,0	'08 Nov 16	'08 Nov 18
Demolition of existing footbridge (Bay 83)	7 days	'08 Nov 17	'08 Nov 23
Excavation and Handling of Type 3 Contaminated		'08 Nov 1	'08 Dec 27
Granular Bedding	53 days	'08 Nov 11	'09 Jan 2
Base Slab	53 days	'08 Nov 17	'09 Jan 8
Wall and Deck	49 days	'08 Nov 28	'09 Jan 15
Curing	56 days	'08 Dec 5	'09 Jan 29
Trench Backfill	45 days	'08 Dec 19	'09 Feb 1
bion	507 days	'08 Feb 6	'09 Jun 26
. Bay 33- Bay39 (Ch436-Ch530)	100 days	'09 Mar 19	'09 Jun 26
Bay 40 - Bay 45 (CH530-Ch630)	120 days	'09 Jan 21	'09 May 20
Bay 46 - Bay 52 (Ch630-Ch730)	247 days	'08 Apr 25	'08 Dec 27
Bay 53 - Bay 55 (Ch730-Ch800)	37 days	'08 Feb 6	'08 Mar 13
. Bay 56c - Bay 67 (Ch840-Ch1037)	200 days	'08 Nov 9	'09 May 27
Bay 68 - Bay 71 (Ch1037-Ch1160)	60 days	'09 Apr 18	'09 Jun 16
Bay 72 - Bay 84 (Ch1160-Ch1330)	130 days	'09 Jan 30	'09 Jun 8
anite Stone Facing	460 days	'08 Feb 6	'09 May 10
ay 54 to Bay 55 (Ch738 - Ch800)	78 days	'08 Feb 6	'08 Apr 23
ay 68 and Bay 72 (Ch1038 - Ch1165)	23 days	'09 Apr 18	'09 May 10
ay 83 and Bay 84 (Ch1301-Ch1330)	7 days	'09 Jan 30	'09 Feb 5
mp Crossing at Bay 71 (Ch1145)	86 days	'08 Nov 10	'09 Feb 3
.1 Construction	5 days	'08 Nov 10	'08 Nov 14
.2 Pesdestrian diversion	1 day	'08 Nov 15	'08 Nov 15
.3 Demolition of Temp crossing	2 days	'09 Feb 2	'09 Feb 3
mp No. 2 (Ch752 - Ch800, Bay 55)		'08 Feb 6	'08 Feb 22
mp 140. = (0111 02 - 011000, Day 00)	17 days 5 days	'08 Feb 6	'08 Feb 10
eneral fill	2 days	'08 Feb 11	'08 Feb 12
eneral fill	10 days	'08 Feb 13	'08 Feb 22
ranular fill and blinding	31 days	'09 Apr 18	'09 May 18
eranular fill and blinding oad slab		-	'09 Apr 29
oranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68)			'09 May 9
oranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab			'09 May 14
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all	o uays		
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all	2 do		'09 May 16
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all ieneral fill iranular fill and blinding	2 days		'09 May 18
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all ireneral fill iranular fill and blinding oad slab	2 days		'09 Feb 3
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all seneral fill stranular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306)	2 days 85 days		'08 Nov 15
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306)	2 days 85 days 5 days	'08 Nov 16	'08 Nov 16
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306) 1.1 Construction 1.2 Pedestrian diversion	2 days 85 days 5 days 1 day	100 - 1	'09 Feb 3
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306) 1.1 Construction 1.2 Pedestrian diversion 1.3 Demolition of Temp crossing	2 days 85 days 5 days 1 day 2 days	'09 Feb 2	'08 Feb 21
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab Vall seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306) 1.1 Construction 1.2 Pedestrian diversion 1.3 Demolition of Temp crossing taining Wall RW1 (Ch430-Ch490)	2 days 85 days 5 days 1 day 2 days 113 days	'07 Nov 1	'07 Nov 25
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab /all seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306) 1.1 Construction 1.2 Pedestrian diversion 1.3 Demolition of Temp crossing staining Wall RW1 (Ch430-Ch490) xcavation	2 days 85 days 5 days 1 day 2 days 113 days 25 days	'07 Nov 1 '07 Nov 1	
ranular fill and blinding oad slab amp No. 1 (Ch1052 - Ch1100, Bay 68) ase slab Vall seneral fill branular fill and blinding oad slab destrian Temporary Crossing at Bay 83 (Ch1306) 1.1 Construction 1.2 Pedestrian diversion 1.3 Demolition of Temp crossing taining Wall RW1 (Ch430-Ch490)	2 days 85 days 5 days 1 day 2 days 113 days	'07 Nov 1	'07 Dec 2
ranula oad sl		10 days 1 days 1 days 5 days 5 days 7 fill and blinding 2 days 2 day	10 days '09 Apr 30 1 fill 5 days '09 May 10 1 fill and blinding 2 days '09 May 15 2 days '09 May 17 3 days '09 May 17 4 days '09 May 17 5 days '08 Nov 11 6 destrian diversion 1 day '08 Nov 16 6 emolition of Temp crossing 2 days '09 Feb 2 7 days '09 Feb 2 8 days '09 Feb 2 9 days '09 Feb 2 113 days '07 Nov 1 1 days '07 Nov

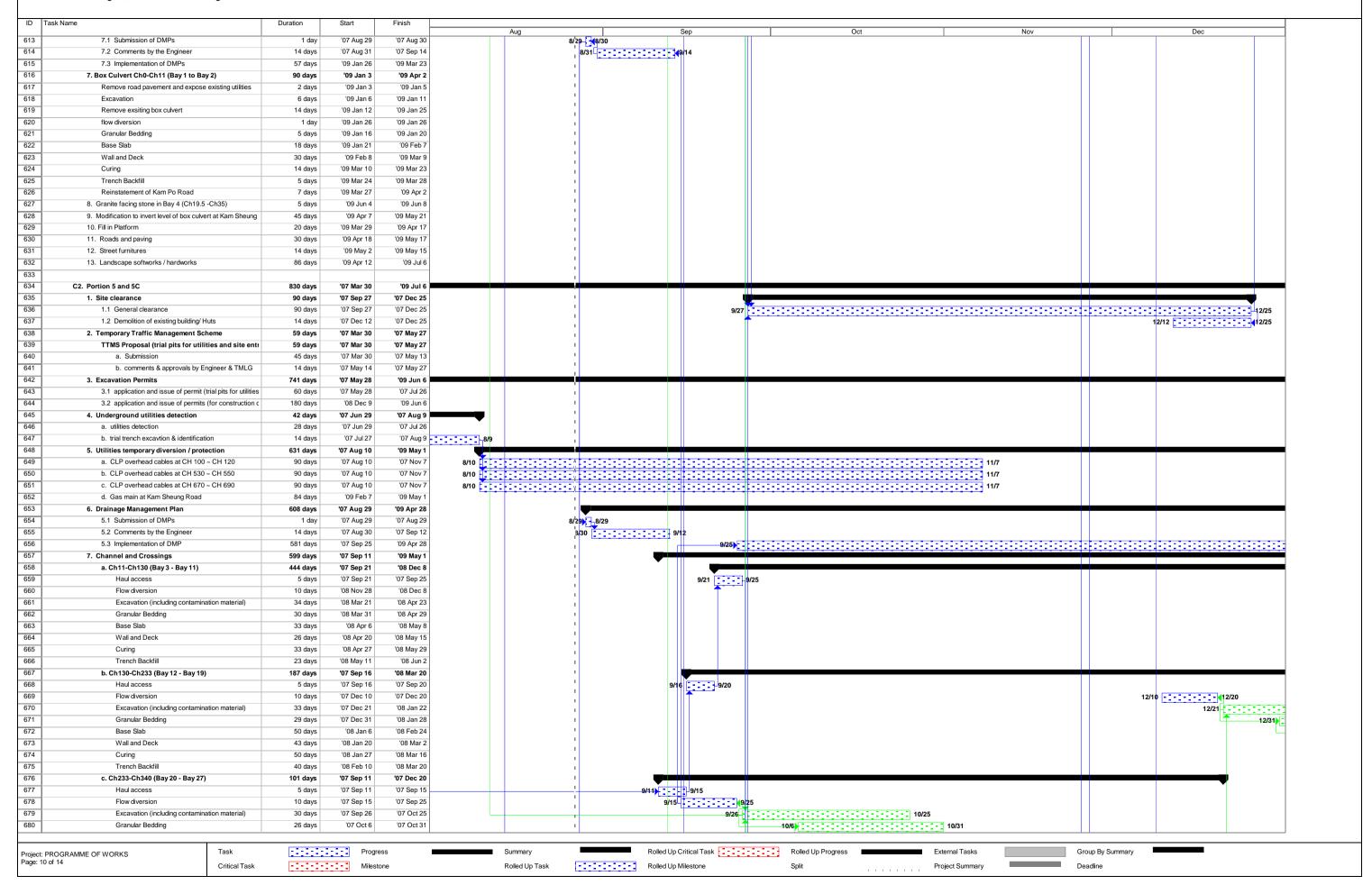
PROGRAMME OF WORKS - MP02 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

ID Tas	ik Name	Duration	Start	Finish	A	2	0-4	NI	D
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					
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					
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					
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		i			
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					
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 Mar 3		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					
567	b. Bay 40 - Bay 45 (CH530-Ch630)	45 days	'09 Feb 21	'09 Apr 6		The state of the s			
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					
570	e. Bay 56c - Bay 67 (Ch844-Ch1037)	45 days	'09 Jan 13	'09 Feb 26		i i			
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					
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					
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		T. Comments			
582	a. Bay 33- Bay39 (Ch436-Ch530)	30 days	'09 Jun 7	'09 Jul 6					
583	b. Bay 40 - Bay 45 (CH530-Ch630)	45 days	'09 Mar 23	'09 May 6		i			
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)	45 days	'08 Dec 18	'09 Feb 1		:			
587	e. Bay 56c - Bay 67 (Ch844-Ch1037) f. Bay 68 - Bay 71 (Ch1037-Ch1146)	45 days 45 days	'09 Feb 1 '09 May 23	'09 Mar 18 '09 Jul 6		i			
588	g. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	'09 Mar 18	'09 May 1		1			
589	g. 1.1, 1.1 (2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1								
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		i i			V
593	1.1 General clearance	14 days	'07 Dec 26	'08 Jan 8		1			12/26
594	1.2 Demolition of existing building/ Huts	2 days	'08 Jan 7	'08 Jan 8					Ţ
595 596	Temporary Traffic Management Scheme 2.1 TTMS Proposal (trial pits for utilities and sit	462 days	'07 Mar 31 '07 Mar 31	'08 Jul 5					
597	a. Submission	59 days 45 days	'07 Mar 31	'07 May 14		1			
598	b. comments & approvals by Engineer & TMLG		'07 May 15	'07 May 28					
599	2.2 TTMS Proposal (for construction of box cult		'08 May 6	'08 Jul 5		1			
600	a. Submission	45 days	'08 May 6	'08 Jun 20					
601	b. comments & approvals by Engineer & TMLG	14 days	'08 Jun 21	'08 Jul 5					
602	3. Excavation Permits	584 days	'07 May 29	'09 Jan 2					
303	3.1 application and issue of permit (trial pits for utiliti		'07 May 29	'07 Jul 27		1			
604	3.2 application and issue of permits (for construction		'08 Jul 6	'09 Jan 2					
305	4. Underground utilities detection	43 days	'07 Jun 29	'07 Aug 10	-	1			
606	4.1 utilities detection	28 days	'07 Jun 29	'07 Jul 27	-	1			
607 608	4.2 trial trench excavtion & identification	14 days	'07 Jul 28	'07 Aug 10	8/10				
608	Utilities temporary diversion / protection a. WSD water main along Kam Po Road	94 days	'09 Jan 6	'09 Apr 9					
610	b. Street lighting along Kam Po Road	94 days 94 days	'09 Jan 6	'09 Apr 9		1			
611	c. DSD storm Drain	94 days	'09 Jan 6	'09 Apr 9					
612	6. Drainage Management Plan	573 days	'07 Aug 29	'09 Mar 23					
		,-	3 .			▼	III	<u> </u>	1 1
roject: DD	OGRAMME OF WORKS Task	-1:1:1	Progres	s ====	Summary	Rolled Up Critical Task	Rolled Up Progress Ex	ternal Tasks Gro	up By Summary
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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



PROGRAMME OF WORKS - MP02 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		Duration	Start	Finish	Aug Sep	Oct	Nov	Dec
	Base Slab	45 days	'07 Oct 12	'07 Nov 25	1		11/25	
	Wall and Deck	38 days	'07 Oct 26	'07 Dec 2		10/26	1-	
	Curing	45 days	'07 Nov 2	'07 Dec 16		11/2		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		9/26 9/30		
	Flow diversion	10 days	'09 Jan 27	'09 Feb 6				
	Excavation (including contamination material) Granular Bedding	29 days 25 days	'09 Feb 7	'09 Mar 7 '09 Mar 13				
	Base Slab		'09 Feb 17	'09 Apr 6	i			
	Wall and Deck	43 days 36 days	'09 Mar 9	'09 Apr 13	ı			
	Curing	43 days	'09 Mar 16	'09 Apr 27	I I			
	Trench Backfill	33 days	'09 Mar 30	'09 May 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	ı	10/110/3		
	Flow diversion	5 days	'08 Aug 23	'08 Aug 28	ı	101 103		
	Excavation (including contamination material)	19 days	'08 Aug 29	'08 Sep 16				
-	Granular Bedding	15 days	'08 Sep 8	'08 Sep 22				
-	Base Slab	23 days	'08 Sep 14	'08 Oct 6				
	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				
	f. Ch608-Ch688 (Bay 48 - Bay 55)	492 days	'07 Oct 4	'09 Feb 6				
	Haul access	5 days	'07 Oct 4	'07 Oct 8		10/4		
	Flow diversion	3 days	'08 Nov 8	'08 Nov 11	!	" <u></u>		
	Excavation (including contamination material)	26 days	'08 Nov 12	'08 Dec 7				
1	Granular Bedding	22 days	'08 Nov 22	'08 Dec 13				
	Base Slab	46 days	'08 Nov 28	'09 Jan 12				
	Wall and Deck	39 days	'08 Dec 12	'09 Jan 19				
	Curing	46 days	'08 Dec 19	'09 Feb 2				
	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		<u>_</u>		
	Haul access	3 days	'07 Oct 9	'07 Oct 11		10/910/11		
	Flow diversion	3 days	'08 May 20	'08 May 23				
	Excavation (including contamination material)	13 days	'08 May 24	'08 Jun 5				
	Granular Bedding	10 days	'08 Jun 3	'08 Jun 12				
	Base Slab	20 days	'08 Jun 9	'08 Jun 28				
	Wall and Deck	15 days	'08 Jun 23	'08 Jul 7				
	Curing	22 days	'08 Jun 30	'08 Jul 21				
	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				
<u> </u>	Haul access	3 days	'07 Oct 12	'07 Oct 14		10/12 10/14		
<u> </u>	Flow diversion	3 days	'08 Jul 22	'08 Jul 25				
	Excavation (including contamination material)	16 days	'08 Jul 26	'08 Aug 10	•			
<u> </u>	Granular Bedding	12 days	'08 Aug 5	'08 Aug 16				
<u> </u>	Base Slab	20 days	'08 Aug 11	'08 Aug 30				
 	Wall and Deck Curing	15 days	'08 Aug 25	'08 Sep 8				
-	Trench Backfill	22 days	'08 Sep 1 '08 Sep 15	'08 Sep 22 '08 Sep 26				
-	8. Retaining Wall RW2 (Ch340-Ch350)	12 days		'08 Sep 26				
	Excavation	41 days 4 days	'08 Aug 29 '08 Aug 29	'08 Sep 1				
 	Granular bedding	4 days	'08 Sep 2	'08 Sep 5	1			
	Base slab	10 days	'08 Sep 6	'08 Sep 15	•			
-	Wall	6 days	'08 Sep 16	'08 Sep 21				
+-	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	1			
-	Bay 5- Bay 11 (Ch35-Ch130)	147 days	'08 May 30	'08 Oct 23				—
-	Bay 12 - Bay 19 (Ch130-Ch233)	93 days	'08 Mar 17	'08 Jun 17				
	Bay 20 - Bay 27 (Ch233-Ch340)	159 days	'07 Dec 17	'08 May 23				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				
-	10. Granite Stone Facing	37 days	'09 Apr 28	'09 Jun 3				
-	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				
	Bay 44 - Bay 47 (Ch549-Ch608)	6 days	'09 May 20	'09 May 25				
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CHIT CHEUNG CONSTRUCTION CO., LTD. DATE: July 2007

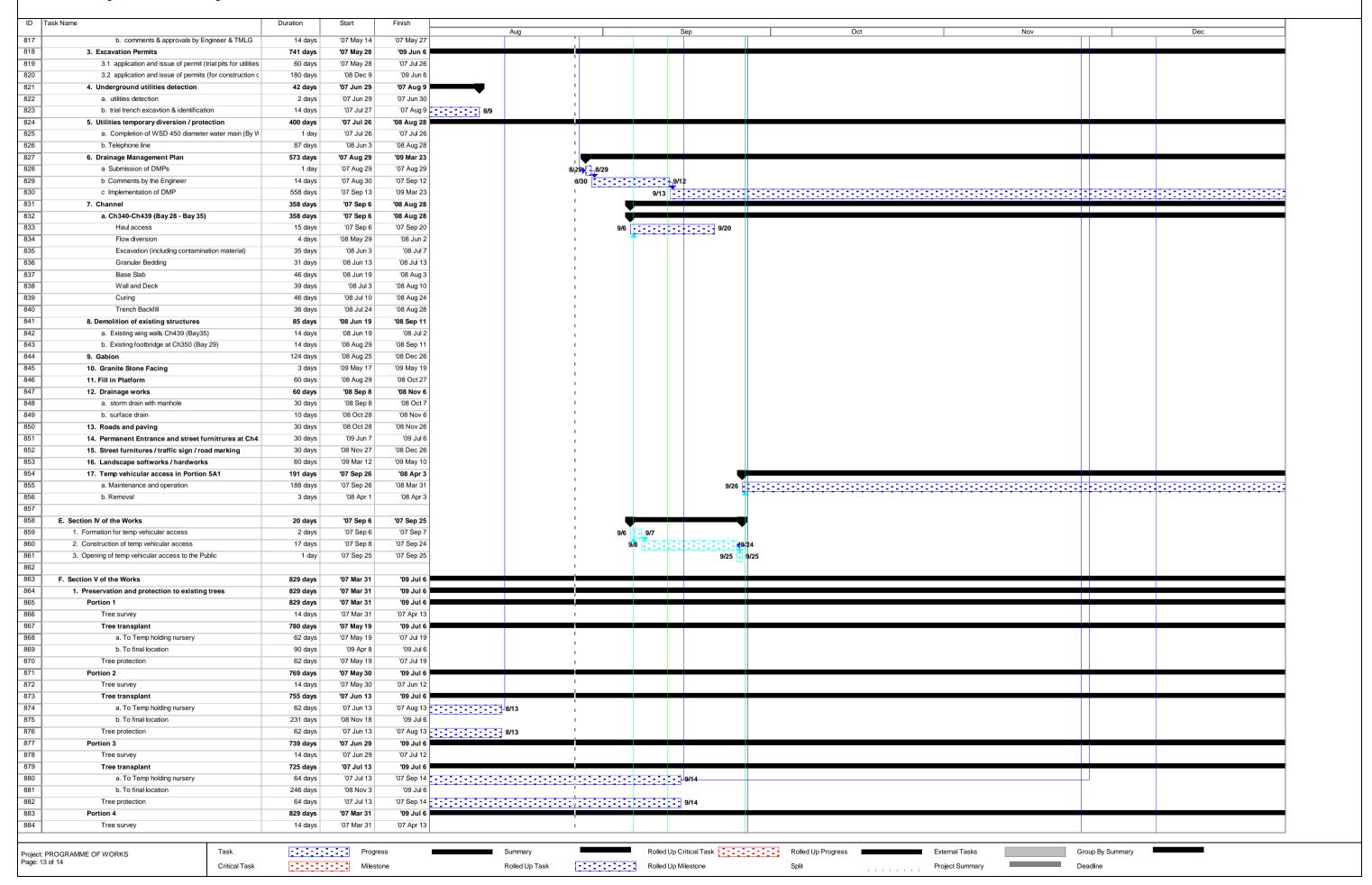
PROGRAMME OF WORKS - MP02 Contract No. : DC / 2006 / 02 Contract Title : Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B - Cheung Chun San Tsuen and Kam Tsin Wai

	·	1			Aug	l l	Sep		Oct		Nov	Dec
9	Bay 48 - Bay 55 (Ch608-Ch688)	9 days	'09 May 26	'09 Jun 3		: :		<u> </u>		'		
50	11. Ramp No. 1 (Ch650 - Ch675, Bay 52-Bay 53)	33 days	'09 Feb 3	'09 Mar 7		i						
751	base slab	12 days	'09 Feb 3	'09 Feb 14		1						
52	Wall	10 days	'09 Feb 15	'09 Feb 24								
753 754	General fill	5 days	'09 Feb 25	'09 Mar 1		i						
55	Granular fill and blinding Road slab	3 days	'09 Mar 2 '09 Mar 5	'09 Mar 4 '09 Mar 7		1						
756	12. Ramp No. 2 (Ch515 - Ch540, Bay 42)	3 days	'09 Apr 28	'09 May 30		1						
757	base slab	33 days 12 days	'09 Apr 28	'09 May 9								
758	Wall	10 days	'09 May 10	'09 May 19		i						
759	General fill	5 days	'09 May 20	'09 May 24		1						
760	Granular fill and blinding	3 days	'09 May 25	'09 May 27		1						
761	Road slab	3 days	'09 May 28	'09 May 30								
762	13. Ramp No. 3 (Ch210 - Ch235, Bay 18-Bay19)	33 days	'08 Mar 17	'08 Apr 18		i						
763	base slab	12 days	'08 Mar 17	'08 Mar 28		1						
64	Wall	10 days	'08 Mar 29	'08 Apr 7								
65	General fill	5 days	'08 Apr 8	'08 Apr 12								
66	Granular fill and blinding	3 days	'08 Apr 13	'08 Apr 15		1						
67	Road slab	3 days	'08 Apr 16	'08 Apr 18		1						
68	14 Ramp No. 4 (Ch20 - Ch45, Bay 4-Bay5)	28 days	'08 May 30	'08 Jun 26								
69	General fill	7 days	'08 May 30	'08 Jun 5		i						
70	Granular fill and blinding	4 days	'08 Jun 6	'08 Jun 9		1						
71	Sloping side wall and road slab	17 days	'08 Jun 10	'08 Jun 26		!						
72	15. Demolition of existing wing walls Ch449	14 days	'09 Feb 23	'09 Mar 8								
73	16. Filling in Platform	123 days	'08 Jun 3	'08 Oct 3		i						
74	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		!						
76	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		1						
778	17.1 storm drain with manhole and headwall	132 days	'08 Jun 13	'08 Oct 22		1						
80	a. Bay 3- Bay 27 (Ch11-Ch340) b. Bay 37 - Bay 55 (Ch449-Ch688)	20 days	'08 Jun 13 '08 Sep 8	'08 Jul 2 '08 Oct 22								
81	c. Bay 56 - Bay 63 (Ch688-Ch797)	45 days 14 days	'08 Oct 4	'08 Oct 17								
782	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						
84	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		i						
86	18. Roads and paving	275 days	'08 Sep 28	'09 Jun 29		1						
87	a. Ch233 - Ch340	30 days	'08 Sep 28	'08 Oct 27								
'88	b. Ch449 - Ch549	30 days	'08 Dec 1	'08 Dec 30								
89	c. Ch549 - Ch609	30 days	'08 Nov 1	'08 Nov 30		1						
90	d. Ch609 - Ch688	30 days	'08 Oct 2	'08 Oct 31		1						
'91	e. Permanent Entrance at Ch449	23 days	'09 Jun 7	'09 Jun 29								
92	19. Street furnitures	252 days	'08 Oct 28	'09 Jul 6		i						
93	a. Ch233 - Ch340	30 days	'08 Oct 28	'08 Nov 26		1						
794	b. Ch449 - Ch549	30 days	'08 Dec 31	'09 Jan 29								
795	c. Ch549 - Ch609	30 days	'08 Dec 1	'08 Dec 30								
796	d. Ch609 - Ch688	30 days	'08 Nov 1	'08 Nov 30		1						
797	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		i						
300	b. Ch449 - Ch549	45 days	'09 Jan 26	'09 Mar 11		1						
301	c. Ch549 - Ch609 d. Ch609 - Ch688	45 days	'08 Dec 12	'09 Jan 25 '08 Dec 11		!						
302	e. Ch688 - Ch797	45 days 10 days	'08 Oct 28	'08 Oct 27								
303	21. Road Diversion in Kam Po Road	10 days	'08 Dec 23	'09 Apr 3		i						
305	a. Temp Decking above Bay 3 and temp road pavemer	102 days	'08 Dec 23	'09 Apr 3		1						
806	b. Implementation of road diversion	1 day	'09 Jan 2	'09 Jan 2		:						
807	c. Removal of decking	1 day	'09 Apr 3	'09 Apr 3								
808		, 443,	22.40.0			1						
). Section III of the Works	830 days	'07 Mar 30	'09 Jul 6								
310	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								
312	1.1 General site clearance	4 days	'07 Sep 6	'07 Sep 9		ı g	/6 9/9					
813	1.2 Demolition of existing building/ Huts	4 days	'07 Sep 6	'07 Sep 9		ı g	/6) 9/9					
814	2. Temporary Traffic Management Scheme	59 days	'07 Mar 30	'07 May 27								
815	TTMS Proposal (trial pits for utilities and site enti	59 days	'07 Mar 30	'07 May 27								
816	a. Submission	45 days	'07 Mar 30	'07 May 13		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



PROGRAMME OF WORKS - MP02
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 Hallie	Duration	Start	1 11 11 311	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	5 - 5 - 5 - 5 - 5	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		å-d-d-d-d-d		9/19			
895	Portion 5A1	682 days	'07 Jun 29	'09 May 10		1					
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	: <u>#0808080808</u>	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		<u> </u>	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				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:-:-:-:-		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					<u> </u>
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						i					
914	H. Berthing Area	558 days	'07 Sep 12	'09 Mar 22		1	Ų		4		
915	Construction of Loading Facilities	14 days	'07 Sep 12	'07 Sep 25		1	9/12		9/25		
916	Removal of Loading Facilities	2 days	'09 Mar 14	'09 Mar 15		1					
917	Reinstatement of Berthing Area	7 days	'09 Mar 16	'09 Mar 22		1					

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



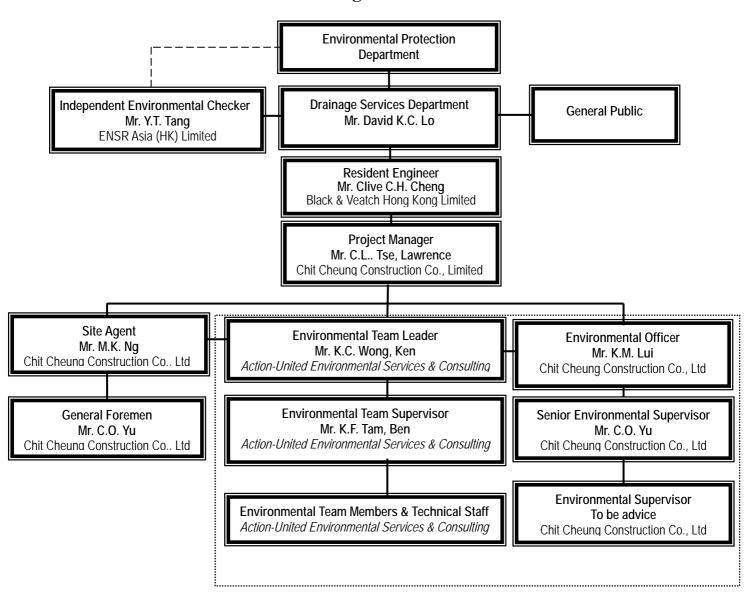


Appendix C

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	To be advice by CCC	-	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) B&V (Engineer) Drainage Services Department Black & Veatch Hong Kong Limited

Chit Cheung Construction Company Limited. ENSR Asia (HK) Ltd.

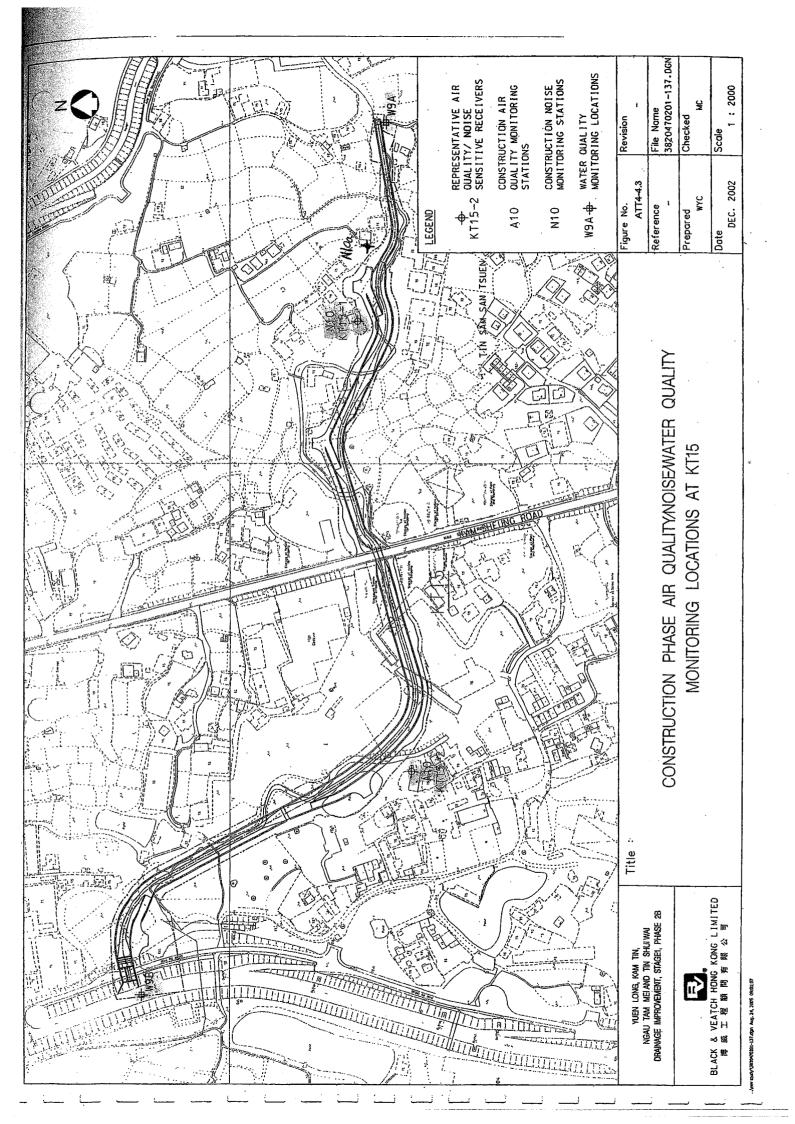
CCC (Contractor) ENSR (IEC)

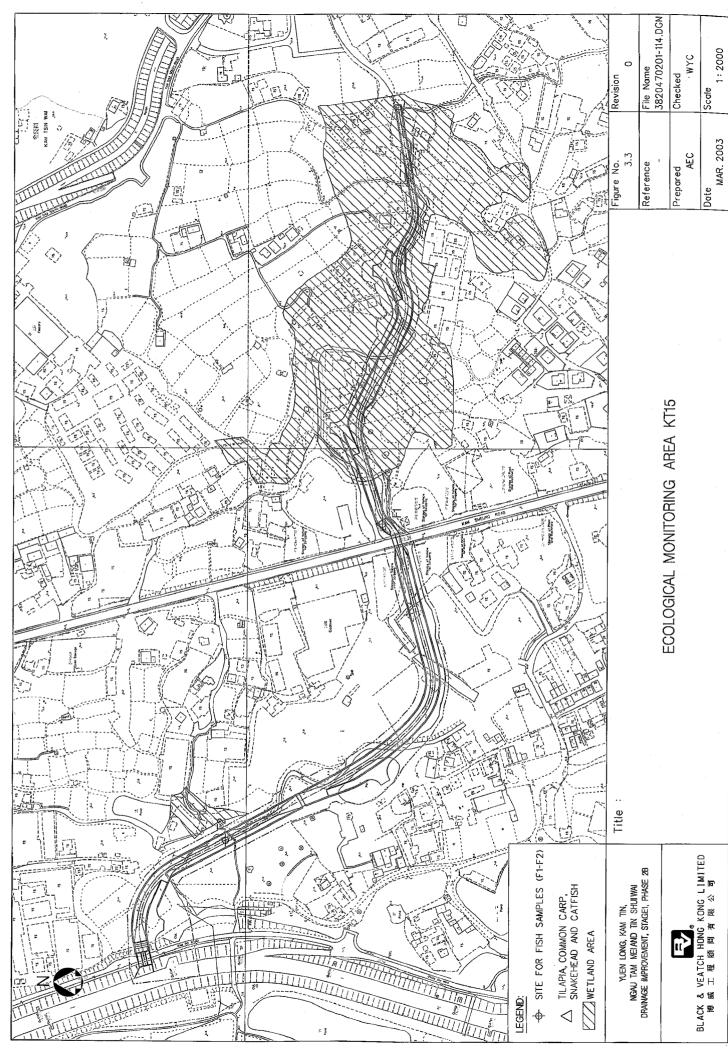
AUES (ET) Action-United Environmental Services & Consulting



Appendix D

Locations of Designated Monitoring Station/Locations/Area





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Appendix E

Event/Action Plan for Air Quality, Construction Noise, Stream Water Quality and Ecology



Event/Action Plan for Air Quality

EVENT		ACTION			
EVENI	ET	IEC	Engineer	Contractor	
ACTION LEVEL					
Exeedance for one sample	Identify source Inform IEC and Engineer Repeat measurement to confirm finding Increase monitoring frequency to daily	Check monitoring data submitted by ET Check Contractor's working method	Notify Contractor	Rectify any unacceptable practice Amend working methods if appropriate	
Exeedance for two or more consecutive samples	Identify source Inform IEC and Engineer Repeat measurements to confirm findings Increase monitoring frequency to daily Discuss with IEC and Contractor on remedial actions required Fexceedance continues, arrange meeting with IEC and Engineer T. If exceedance stops, cease additional monitoring	Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advice Engineer on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures	Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented	Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate	
LIMIT LEVEL					
Exeedance for one sample	Identify source Inform Engineer and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results	Check monitoring data submitted by ET Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advice Engineer on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures	Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented	Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate	
Exceedance for two or more consecutive samples	Notify IEC, Engineer and EPD Identify source Repeat measurement to confirm findings Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Arrange meeting with IEC and Engineer to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results If exceedance stops, cease additional monitoring	Discuss amongst Engineer, ET and Contractor on potential remedial actions Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented 4. Discuss amongst Environmental Team Leader and the Contractor potential remedial actions 5. Ensure remedial measures properly implemented 6. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals if problem still not under control 5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated	



Event/Action Plan for Construction Noise

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



Event and Action Plan for Stream Water Quality

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

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Event/Action Plan for Ecology

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

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Appendix F

Equipment Calibration Certificates



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

Item	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1	Air	Greasby Anderson GMWS2310 High Volume Sampler	04 Jul 07	04 Sep 07
2		EQ094 - Sibata LD-3 Laser Dust Meter	22 Jun 07	21 Jun 08
3		EQ096 - Sibata LD-3 Laser Dust Meter	22 Jun 07	21 Jun 08
4	Noise	Bruel & Kjaer 4231 Acoustical Calibrator	17 Apr 07	17 Apr 08
5		Bruel & Kjaer 2238 Integrating Sound Level Meter	17 Apr 07	17 Apr 08
6	Water	YSI 550A or YSI 85/10FT DO Meter	19 Jul 07	19 Oct 07
7		Hanna HI 98128	19 Jul 07	19 Oct 07
8		Hach 2100p	19 Jul 07	19 Oct 07
9		ATAGO refractometer	19 Jul 07	19 Oct 07

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

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Appendix G

Impact Monitoring Schedules



Impact Monitoring Schedules in this Reporting Period

Date		Air Q	Quality	Noise Leq 30min	Stream Water	Ecology Surveys
Date		1-Hour TSP	24-Hour TSP	1 tolse Leq 30mm	Quality	Ecology Bulveys
26-July-07	Thu					
27-July-07	Fri					
28-July-07	Sat					
29-July-07	Sun					
30-July-07	Mon					
31-July-07	Tue					
1-Aug-07	Wed					
2-Aug-07	Thu					
3-Aug-07	Fri					
4-Aug-07	Sat					
5-Aug-07	Sun					
6-Aug-07	Mon					
7-Aug-07	Tue					
8-Aug-07	Wed					
9-Aug-07	Thu					
10-Aug-07	Fri					
11-Aug-07	Sat					
12-Aug-07	Sun					
13-Aug-07	Mon					
14-Aug-07	Tue					
15-Aug-07	Wed					
16-Aug-07	Thu					
17-Aug-07	Fri					
18-Aug-07	Sat					
19-Aug-07	Sun					
20-Aug-07	Mon					
21-Aug-07	Tue					
22-Aug-07	Wed					
23-Aug-07	Thu					
24-Aug-07	Fri					
25-Aug-07	Sat					

Monitoring Day
Sunday or Public Holiday



Impact Monitoring Schedules in the Next Reporting Month

Date	,	Air Q	uality	Noise Leq 30min	Stream Water	Ecology Surveys
Date		1-Hour TSP	24-Hour TSP	Noise Leq 30mm	Quality	Leology Bulveys
26-Aug-07	Sun					
27-Aug-07	Mon					
28-Aug-07	Tue					
29-Aug-07	Wed					
30-Aug-07	Thu					
31-Aug-07	Fri					
1-Sep-07	Sat					
2-Sep-07	Sun					
3-Sep-07	Mon					
4-Sep-07	Tue					
5-Sep-07	Wed					
6-Sep-07	Thu					
7-Sep-07	Fri					
8-Sep-07	Sat					
9-Sep-07	Sun					
10-Sep-07	Mon					
11-Sep-07	Tue					
12-Sep-07	Wed					
13-Sep-07	Thu					
14-Sep-07	Fri					
15-Sep-07	Sat					
16-Sep-07	Sun					
17-Sep-07	Mon					
18-Sep-07	Tue					
19-Sep-07	Wed					
20-Sep-07	Thu					
21-Sep-07	Fri					
22-Sep-07	Sat					
23-Sep-07	Sun					
24-Sep-07	Mon					
25-Sep-07	Tue					

Monitoring Day
Sunday or Public Holiday

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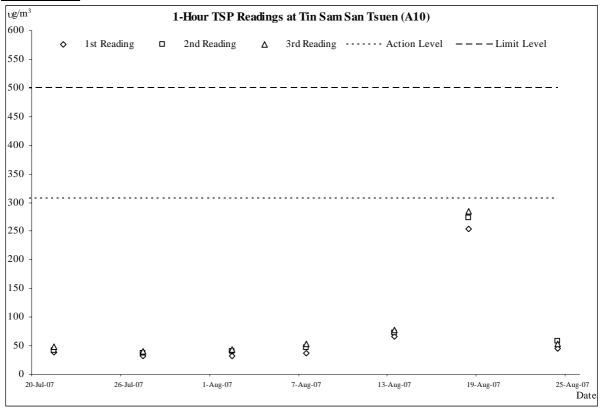


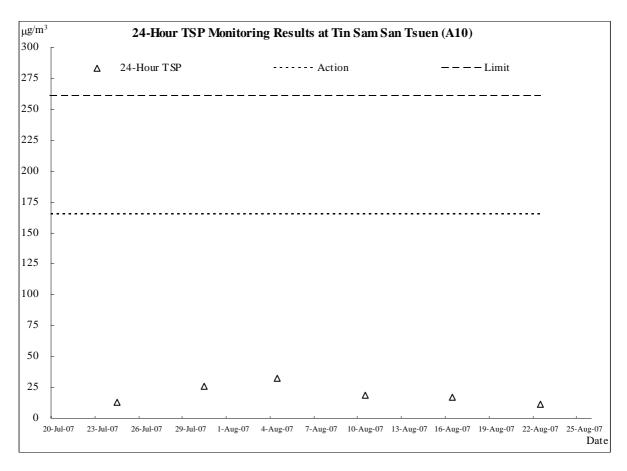
Appendix H

Graphical Plots of Air, Noise and Stream Water Quality Monitoring Results



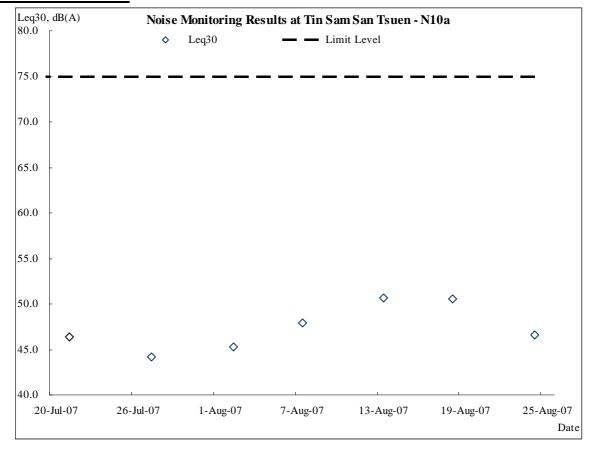
Air Quality





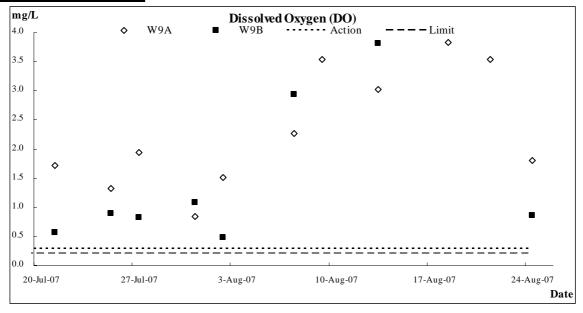


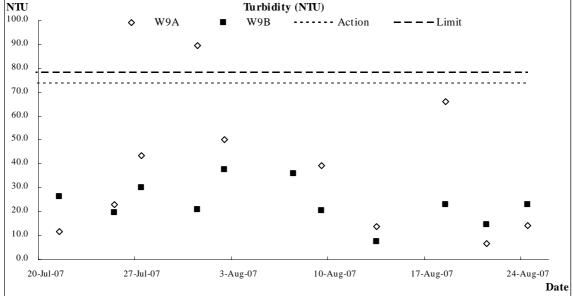
Construction Noise

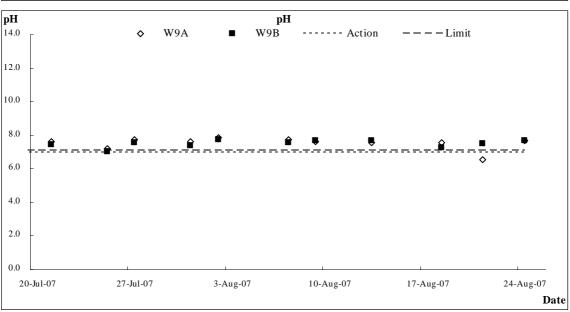




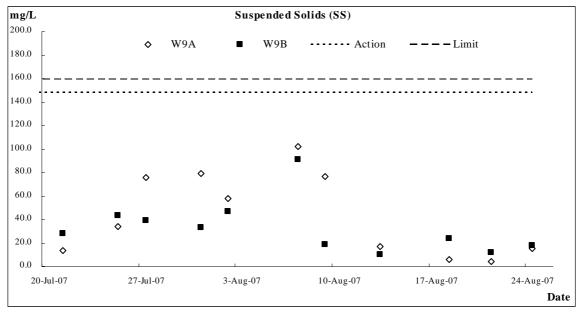
Stream Water Quality

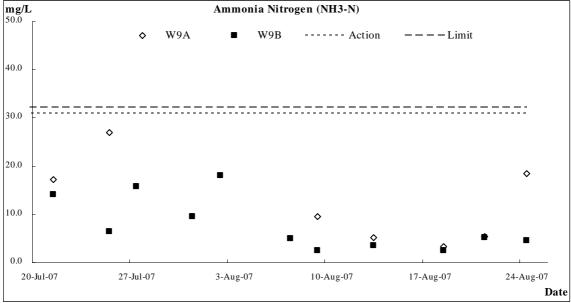


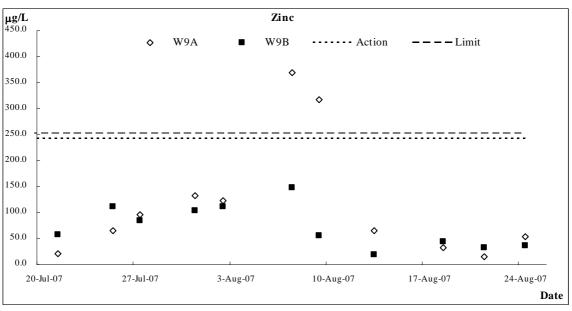




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DSD Contract No. DC/2006/02

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Date	2'	7-Jul-07															
Location	Time	Depth (m)	Tem	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity]	рH	SS	NH3-N	Zinc
W9A	10:48	0.19	28.8	28.9	1.93 1.94	1.94	24.8 25.0	24.9	42.5 44.2	43.4	0	0.0	7.77 7.76	7.77	76.0	63.9	96.0
W9B	10:57	0.25	30.2 30.2	30.2	0.82	0.83	10.8 11.2	11.0	29.1 31.1	30.1	0	0.0	7.59 7.59	7.59	39.0	15.7	84.0

Date	3	1-Jul-07															
Location	Time	Depth (m)	Tem	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity		рH	SS	NH3-N	Zinc
W9A	13:05	0.27	31.5	31.6	0.83	0.84	11.4	11.5	89.1	89.6	0	0.0	7.62	7.62	79.0	89.6	132.0
WAA	13.03	0.27	31.6	31.0	0.84	0.64	11.6	11.5	90.1	69.0	0	0.0	7.62	7.02	79.0	89.0	132.0
W9B	13:46	0.26	33.9	33.9	1.08	1.09	15.2	15.2	20.6	21.0	0	0.0	7.39	7.39	33.0	0.6	104.0
WAP	15:40	0.26	33.9	33.9	1.09	1.09	15.4	15.3	21.3	21.0	0	0.0	7.39	7.39	33.0	9.6	104.0

Date	2	-Aug-07															
Location	Time	Depth (m)	Tem	p (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity]	рH	SS	NH3-N	Zinc
W9A	11:02	0.27	29.3	29.3	1.5	1.51	19.6	19.7	51.4	50.1	0	0.0	7.83	7.84	58.0	108.0	123.0
WJA	11.02	0.27	29.3	29.3	1.51	1.51	19.8	19.7	48.8	30.1	0	0.0	7.84	7.04	36.0	106.0	123.0
W9B	11.27	0.24	31.0	31.0	0.48	0.49	6.2	6.2	37.6	27.9	0	0.0	7.73	7.74	47.0	18.0	111.0
WAD	11:27	0.24	31.0	31.0	0.49	0.49	6.4	6.3	38.0	37.8	0	0.0	7.74	7.74	47.0	10.0	111.0

Date	7	-Aug-07															
Location	Time	Depth (m)	Tem	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity		pН	SS	NH3-N	Zinc
W9A	10:46	0.38	28.0	28.0	2.26	2.27	28.8	29.0	99.7	100.4	0	0.0	7.76	7 77	102.0	107.0	369.0
WJA	10.40	0.36	28.0	20.0	2.28	2.21	29.2	29.0	101.0	100.4	0	0.0	7.77	1.77	102.0	107.0	309.0
W9B	11:24	0.55	29.2	29.2	2.94	2.94	38.4	38.4	35.7	36.0	0	0.0	7.57	7 57	01.0	5.0	148.0
W9D	11:24	0.33	29.2	29.2	2.94	2.94	38.4	36.4	36.2	30.0	0	0.0	7.57	1.57	91.0	3.0	148.0

Date	9	-Aug-07															
Location	Time	Depth (m)	Tem	p (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity		pН	SS	NH3-N	Zinc
W9A	11:32	0.31	28.3	28.3	3.52	3.53	45.2 45.6	45.4	38.0 40.6	39.3	0	0.0	7.60 7.61	7.61	77.0	9.6	317.0
W9B	14:34	0.62	28.7	28.7	4.25	4.26	54.8 55.0	54.9	20.4	20.4	0	0.0	7.70	7.70	19.0	2.6	56.0



Date	13	3-Aug-07															
Location	Time	Depth (m)	Tem	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)		Salinity]	рH	SS	NH3-N	Zinc
W9A	11:28	0.18	28.1	28.2	3.02	3.03	38.6	38.7	13.1 14.6	13.9	0	0.0	7.56 7.57	7.57	17.0	5.2	65.0
W9B	11:40	0.28	30.0 30.0	30.0	3.8 3.82	3.81	50.2 50.6	50.4	7.73 7.74	7.7	0	0.0	7.68 7.69	7.69	10.0	3.6	20.0

Date	18	3-Aug-07															
Location	Time	Depth (m)	Tem	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity		рH	SS	NH3-N	Zinc
W9A	11:20	0.24	28.3	28.3	3.82	3.83	49.0	49.2	65.7	66.2	0	0.0	7.56	7.56	6.0	3.30	33.0
WIA	11.20	0.24	28.3	20.3	3.84	3.03	49.4	47.2	66.7	00.2	0	0.0	7.56	7.50	0.0	3.30	33.0
W9B	11:32	0.44	29.4	29.4	5.07	5.08	66.4	66.5	22.7	22.9	0	0.0	7.26	7.26	24.0	2.58	45.0
WAD	11:32	0.44	29.4	29.4	5.08	3.08	66.6	00.5	23.0	22.9	0	0.0	7.25	7.20	24.0	2.36	43.0

Date	21	-Aug-07															
Location	Time	Depth (m)	Tem	p (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	Salinity]	pН	SS	NH3-N	Zinc
W9A	15:15	0.21	29.4 29.4	29.4	3.54 3.55	3.55	45.6 45.8	45.7	7.1 6.5	6.8	0	0.0	6.55 6.55	6.55	4.0	5.49	16.0
W9B	15:46	0.39	29.8 29.8	29.8	4.27 4.28	4.28	55.2 55.4	55.3	14.5 14.8	14.7	0	0.0	7.48 7.48	7.48	12.0	5.15	33.0

Date	24	1-Aug-07															
Location	Time	Depth (m)	Ten	ıp (oC)	DO	(mg/L)	DO	S (%)	Turbidi	ty (NTU)	S	alinity]	рH	SS	NH3-N	Zinc
W9A	11:05	0.24	29.1 29.0	29.1	1.79 1.81	1.80	24.2	24.4	13.6 14.7	14.2	0	0.0	7.70 7.71	7.71	15.0	18.40	53.0
W9B	11:20	0.38	31.0 31.0	31.0	0.86 0.87	0.87	11.9 12.1	12.0	23.2	23.1	0	0.0	7.66 7.66	7.66	18.0	4.50	36.0

Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0710509



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Aggi	regate Properties (QC Lot: 462717	')								
HK0710474-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	5	4	28.9		
HK0710509-002	W1B - 1&2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	39	40	0.0		
ED/EK: Inorganic Nonmet	allic Parameters (QC Lot: 462118)									
HK0710509-005	W9B - 1&2 (MIX)	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	15.7	15.6	0.6		
EG: Metals and Major Cati	EG: Metals and Major Cations (QC Lot: 462641)									
HK0710535-001	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	1330	1310	1.3		

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER	ype: WATER				Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL)s (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Propert	ties (QCLot: 462717)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115			
ED/EK: Inorganic Nonmetallic Paramete	ers (QCLot: 462118)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	94.9		85	115			
EG: Metals and Major Cations (QCLot:	462641)											
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	92.2		85	115			

Matrix Type: WATER	flatrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
					Spike Red	overy (%)	Recovery	Limits (%)	RPDs (%)				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	162118)											
HK0710509-001	W1A - 1&2 (MIX)	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined		75	125					
EG: Metals and Major Cat	tions (QCLot: 462641)												
HK0710509-001	W1A - 1&2 (MIX)	EG020: Zinc	7440-66-6	100 μg/L	83.5		75	125					

Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0710728



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Agg	regate Properties (QC Lot: 465073	3)									
HK0710667-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	3	3	0.0			
HK0710667-011	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	4	3	31.6			
EA/ED: Physical and Agg	regate Properties (QC Lot: 465074	k)									
HK0710728-005	W9B - 1 & 2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	33	35	5.6			
HK0710773-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	46	52	12.6			
ED/EK: Inorganic Nonmet	allic Parameters (QC Lot: 466052)										
HK0710823-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	13.6	13.5	0.7			
HK0710820-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	14.5	14.5	0.0			
EG: Metals and Major Cat	ions (QC Lot: 465575)										
HK0710659-001	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	18	17	0.0			
HK0710466-001	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	26	25	5.6			

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER			Method Blank (ME	3) Results		Single Co.	ntrol Spike (SCS) and D	uplicate Con	trol Spike (DC	S) Results	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD)s (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 465073)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 465074)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
ED/EK: Inorganic Nonmetallic Paramete	ers (QCLot: 466052)										
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	97.2		85	115		
EG: Metals and Major Cations (QCLot:	465575)										
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	86.2		85	115		

Matrix Type: WATER	atrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results							
					Spike Rec	overy (%)	Recovery	Limits (%)	RPDs (%)			
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	166052)										
HK0710820-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined		75	125				
EG: Metals and Major Cat	tions (QCLot: 465575)											
HK0710466-001	Anonymous	EG020: Zinc	7440-66-6	100 μg/L	82.8		75	125				

Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0710857



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Agg	regate Properties (QC Lot: 465573	3)									
HK0710823-001	Anonymous	EA025: Suspended Solids (SS)		3	mg/L	164	144	13.0			
HK0710853-002	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	3	3	0.0			
ED/EK: Inorganic Nonme	allic Parameters (QC Lot: 466053)										
HK0710822-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	15.0	15.4	2.6			
EG: Metals and Major Cat	ions (QC Lot: 465575)										
HK0710659-001	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	18	17	0.0			
HK0710466-001	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	26	25	5.6			

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Propert	ies (QCLot: 465573)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
ED/EK: Inorganic Nonmetallic Paramete	rs (QCLot: 466053)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	88.3		85	115			
EG: Metals and Major Cations (QCLot: 4	165575)											
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	86.2		85	115			

Matrix Type: WATER	atrix Type: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
					Spike Rec	overy (%)	Recovery	Limits (%)	RPDs (%)					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit				
ED/EK: Inorganic Nonme	etallic Parameters (QCLot:	466053)												
HK0710823-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined		75	125						
EG: Metals and Major Cations (QCLot: 465575)									·					
HK0710466-001	Anonymous	EG020: Zinc	7440-66-6	100 μg/L	82.8		75	125						

Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0711060



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Agg	regate Properties (QC Lot: 468133	3)									
HK0711012-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	4	4	0.0			
HK0711042-004	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	35	33	5.8			
ED/EK: Inorganic Nonme	allic Parameters (QC Lot: 468982)										
HK0711061-020	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.02	66.7			
HK0711061-022	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.01	0.0			
EG: Metals and Major Cat	ions (QC Lot: 468055)										
HK0710929-002	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	667000	671000	0.7			

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properti	ies (QCLot: 468133)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115			
ED/EK: Inorganic Nonmetallic Paramete	rs (QCLot: 468982)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	107		85	115			
EG: Metals and Major Cations (QCLot: 4	168055)											
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	93.4		85	115			

Matrix Type: WATER	latrix Type: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
					Spike Recovery (%)			Limits (%)	RPDs (%)					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit				
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	468982)												
HK0711061-011	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	90.3		75	125						
EG: Metals and Major Ca	tions (QCLot: 468055)													
HK0710929-001	Anonymous	EG020: Zinc	7440-66-6	100 μg/L	Not Determined		75	125						

Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0711189



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER					Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and Aggregate Properties (QC Lot: 470129)												
HK0711142-001	Anonymous	EA025: Suspended Solids (SS)		3	mg/L	144	158	8.7				
HK0711189-006	W9B -1 & 2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	19	22	13.0				
ED/EK: Inorganic Nonme	etallic Parameters (QC Lot: 47109	1)										
HK0711202-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	8.8	8.7	1.1				
HK0711166-007	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.2	0.2	0.0				
EG: Metals and Major Cations (QC Lot: 470105)												
HK0711189-002	W1B -1 & 2 (MIX)	EG020: Zinc	7440-66-6	10	μg/L	83	84	0.0				

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER			Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
				Spike	Spike Red	Spike Recovery (%)		Limits (%)	RPDs (%)				
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit		
EA/ED: Physical and Aggregate Properties (QCLot: 470129)													
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115				
ED/EK: Inorganic Nonmetallic Paramet	ters (QCLot: 471091)												
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.5		85	115				
EG: Metals and Major Cations (QCLot: 470105)													
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	111		85	115				

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
			Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 471091)												
HK0711195-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	101		75	125				
EG: Metals and Major Cations (QCLot: 470105)												
HK0711189-001	W1A -1 & 2 (MIX)	EG020: Zinc	7440-66-6	100 μg/L	93.8		75	125				

PRELIMINARY RESULTS FOR REFERENCE ONLY

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Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0711471



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER					Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and Aggregate Properties (QC Lot: 473708)												
HK0711426-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	268	260	3.0				
HK0711471-005	W9B - 1 & 2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	10	9	14.6				
ED/EK: Inorganic Nonme	tallic Parameters (QC Lot: 473347)											
HK0711471-005	W9B - 1 & 2 (MIX)	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	3.59	3.56	0.8				
EG: Metals and Major Cations (QC Lot: 473036)												
HK0711471-002	W1B - 1 & 2 (MIX)	EG020: Zinc	7440-66-6	10	μg/L	50	48	4.1				
HK0711219-002	Anonymous	EG020: Zinc	7440-66-6		-	Not Authorised	Not Authorised					

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Rec	overy (%)	Recovery	Limits (%)	RPD	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 473708)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	87.5		85	115			
ED/EK: Inorganic Nonmetallic Parameter	rs (QCLot: 473347)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	94.9		85	115			
EG: Metals and Major Cations (QCLot: 473036)												
EG020: Zinc	7440-66-6	10	μg/L	Not Authorised		Not Authorised		85	115			

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)			
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonmetallic Parameters (QCLot: 473347)												
HK0711447-004	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	104		75	125				
EG: Metals and Major Cations (QCLot: 473036)												
HK0711229-001	Anonymous	EG020: Zinc	7440-66-6		Not Authorised		75	125				

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Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0711778



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER	,,					Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and Aggi	EA/ED: Physical and Aggregate Properties (QC Lot: 477697)											
HK0711778-001	W1A -1 & 2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	16	18	12.1				
HK0711818-003	Anonymous	EA025: Suspended Solids (SS)		3	mg/L	241	222	8.2				
ED/EK: Inorganic Nonmet	allic Parameters (QC Lot: 479555)											
HK0711831-003	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0				
EG: Metals and Major Cati	EG: Metals and Major Cations (QC Lot: 478092)											
HK0711778-002	W1B -1 & 2 (MIX)	EG020: Zinc	7440-66-6	10	μg/L	58	58	0.0				

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD)s (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS DCS		Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 477697)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115			
ED/EK: Inorganic Nonmetallic Paramete	ers (QCLot: 479555)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	91.7		85	115			
EG: Metals and Major Cations (QCLot: 478092)												
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	88.9		85	115			

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER	trix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results								
					Spike Red	Recovery Limits (%)		RPDs (%)					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	479555)											
HK0711778-001	W1A -1 & 2 (MIX)	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	88.1		75	125					
EG: Metals and Major Ca	tions (QCLot: 478092)												
HK0711778-001	W1A -1 & 2 (MIX)	EG020: Zinc	7440-66-6	100 μg/L	84.0		75	125					

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Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0711841



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER	ix Type: WATER					Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)					
EA/ED: Physical and Agg	regate Properties (QC Lot: 478688	3)											
HK0711822-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	40	44	11.4					
HK0711839-001	Anonymous	EA025: Suspended Solids (SS)		2	mg/L	4	4	0.0					
ED/EK: Inorganic Nonme	tallic Parameters (QC Lot: 480436)											
HK0711830-004	Anonymous	EK055A: Ammonia as N	7664-41-7	0.10	mg/L	1.9	1.95	0.5					
HK0711841-005	W9B - 1&2 (MIX)	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	5.15	4.97	3.6					
EG: Metals and Major Ca	tions (QC Lot: 478527)												
HK0711841-002	W1B - 1&2 (MIX)	EG020: Zinc	7440-66-6	10	μg/L	40	40	0.0					

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

latrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Property	ties (QCLot: 478688)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			
ED/EK: Inorganic Nonmetallic Paramete	ers (QCLot: 480436)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.8		85	115			
EG: Metals and Major Cations (QCLot:	478527)											
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	88.8		85	115			

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER	ix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results							
				Spike	Spike Recovery (%)			Limits (%)	RPDs (%)			
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	480436)										
HK0711830-004	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	84.0		75	125				
EG: Metals and Major Cat	tions (QCLot: 478527)				·	·			·			
HK0711841-001	W1A - 1&2 (MIX)	EG020: Zinc	7440-66-6	100 μg/L	87.8		75	125				

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Client : ACTION UNITED ENVIRO SERVICES

Work Order HK0712055



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER	rix Type: WATER					Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)					
EA/ED: Physical and Ag	gregate Properties (QC Lot: 48036	6)											
HK0711708-001	Anonymous	EA025: Suspended Solids (SS)		0.1	mg/L	10	10	0.0					
HK0712022-006	Anonymous	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0					
EA/ED: Physical and Ag	gregate Properties (QC Lot: 48036	7)											
HK0712055-002	W1B 1 & 2 (MIX)	EA025: Suspended Solids (SS)		2	mg/L	53	52	1.9					
HK0712088-001	Anonymous	EA025: Suspended Solids (SS)		3	mg/L	156	144	8.4					
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot: 481291)											
HK0712103-010	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0					
HK0712103-020	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0					
EG: Metals and Major Ca	ations (QC Lot: 480352)												
HK0711601-035	Anonymous	EG020: Zinc	7440-66-6	10	μg/L	<10	11	12.3					

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: WATER		Method Blank (MB) Results				Single Co.	ntrol Spike (SCS) and De	uplicate Con	trol Spike (D	CS) Results	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properti	es (QCLot: 480366)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Properti	es (QCLot: 480367)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	90.5		85	115		
ED/EK: Inorganic Nonmetallic Parameter	rs (QCLot: 481291)										
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.1		85	115		
EG: Metals and Major Cations (QCLot: 4	80352)										
EG020: Zinc	7440-66-6	10	μg/L	<10	100 μg/L	90.6		85	115		

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: WATER	rix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results							
				Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPDs (%)			
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonme	tallic Parameters (QCLot: 4	l81291)										
HK0712050-001	Anonymous	EK055A: Ammonia as N	7664-41-7	5.0 mg/L	Not Determined		75	125				
EG: Metals and Major Cat	ions (QCLot: 480352)											
HK0711601-035	Anonymous	EG020: Zinc	7440-66-6	100 μg/L	89.2		75	125				



Appendix I

Meteorological Data in the Reporting Period



Meteorological Data Extracted from HKO in the Reporting Period

				Lau Fau Shan Weather Station						
Date		Weather	Total Rainfall (mm)	Mean Air Temperature s(°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			enance				
29-Jul-07	Sun	fine/very hot/isolated showers/moderate	Trace			enance				
30-Jul-07	Mon	fine/very hot/isolated showers/light winds	Trace		Mainte	enance				
31-Jul-07	Tue	fine/isolated showers/thunderstorms/very hot/light winds	Trace		Mainte	enance				
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	Е			
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			
	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	cludy/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/sunnary periods/light winds	10.3	28	12.5	82.5	E/SE			



Appendix J

ET Site Inspection Checklists

Projec	ct:	Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B –	2B –						
		Cheung Chun San Tsuen and Kam Tsin Wai	R	E/RE's rep	oresentat	ive:	A.F. Ng		
Inspe	ction		IE	C/IEC's re	presenta	itive:			
Date:		02 August 2007	E.	TL/ ET's re	epresenta	ative:	Ken Wor	ng	
Time:		15:30		ontractor'	-	entative:		/ K.M. Lu	<u>i</u>
			С	hecklist N	0.		KT15-02	0807	
PART	A:	GENERAL INFORMATION Environmenta	l Pe	_	EP-231/20	05/A			
Weath		✓ Sunny Fine Cloudy		Rainy					
•	erature:	30 °C							
Humic	•	High ✓ Moderate Low		¬					
Wind:		Strong Breeze		Calm					
PART	В:	SITE AUDIT							
				Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Section	on 1: Wa	ater Quality							
1.01	Is an e	ffluent discharge license obtained for the Project?					\checkmark		Application in progress
1.02	Is the	effluent discharged in accordance with the discharg ?	e	\checkmark					
1.03	Is the	discharge of turbid water avoided?		\checkmark					
1.04		ere proper desilting facilities in the drainage systems t SS levels in effluent?	0	\checkmark					
1.05		ere channels, sandbags or bunds to direct surface run-off t entation tanks?	0	\checkmark					
1.06		ere any perimeter channels provided at site boundaries t pt storm runoff from crossing the site?	0	\checkmark					
1.07	Is draii	nage system well maintained?		\checkmark					
1.08		avation proceeds, are temporary access roads protected b d stone or gravel?	у					\checkmark	
1.09	Are ter	nporary exposed slopes properly covered?						\checkmark	
1.10	Are ea	rthworks final surfaces well compacted or protected?						\checkmark	
1.11	Are ma	anholes adequately covered or temporarily sealed?			\checkmark				
1.12	Are the	ere any procedures and equipment for rainstorm protection?)		\checkmark				
1.13	Are wh	neel washing facilities well maintained?						\checkmark	
1.14	ls runc	ff from wheel washing facilities avoided?						\checkmark	
1.15	Are the	ere toilets provided on site?			\checkmark				
1.16	Are toi	lets properly maintained?			\checkmark				
1.17		e vehicle and plant servicing areas paved and located withi areas?	in					\checkmark	
1.18	Is the	oil leakage or spillage avoided?			\checkmark				
1.19		ere any measures to prevent leaked oil from entering th ge system?	е		\checkmark				
1.20		ere any measures to collect spilt cement and concretings during concreting works?	e					\checkmark	
1.21		ere any oil interceptors/grease traps in the drainage system icle and plant servicing areas, canteen kitchen, etc?	IS					\checkmark	

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



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

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

Remarks

Last Site Inspection:

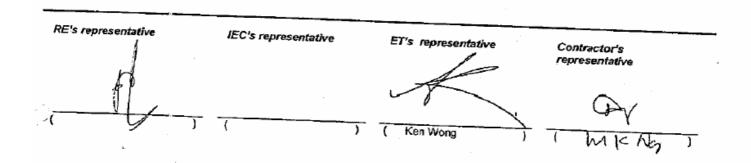
Relevant chemical label stick on the chemical containers stored at the site office chemical storage area (ref: KT15-250707 Obs1).

Findings of Site Inspection on 02 Aug 2007:

Site Inspection was carried out from CH290 - CH550.



Obs 1 – Stagnant water accumulated in the site area within CH 290 was observed, the Contractor was reminded to clean up as soon as possible.



Proje	ct: Contract No.: DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Wai Drainage Improvements, Stage 1, Pr Cheung Chun San Tsuen and Kam Tsin	Tin Shui ase 2B –	nspected b		vo:	A.F. Ng				
Inspe			RE/RE's representative: IEC/IEC's representative:							
Date:			TL/ ET's r	•		Ben Tam	1			
Time:			Contractor's representative:			M.K. Ng	/ K.M. Lui			
		С	Checklist No. KT15-090807							
PART	TA: GENERAL INFORMATION	Environmental Po	ermit No. I	EP-231/200	05/A					
Weath	her: Sunny Fine	✓ Rainy								
Temp	erature: 30 °C									
Humidity: High										
Wind: Strong Breeze Light Calm										
PART	B: SITE AUDIT									
			Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks		
Section	on 1: Water Quality						_			
1.01	Is an effluent discharge license obtained for the Pro	ject?		$\overline{\checkmark}$						
1.02	Is the effluent discharged in accordance with licence?	the discharge	$\overline{\checkmark}$							
1.03	Is the discharge of turbid water avoided?		\checkmark							
1.04	Are there proper desilting facilities in the draina reduce SS levels in effluent?	ige systems to	\checkmark							
1.05	Are there channels, sandbags or bunds to direct su sedimentation tanks?		\checkmark							
1.06	Are there any perimeter channels provided at site intercept storm runoff from crossing the site?	boundaries to	\checkmark							
1.07	Is drainage system well maintained?		\checkmark							
1.08	As excavation proceeds, are temporary access roa crushed stone or gravel?	ds protected by					$\overline{\checkmark}$			
1.09	Are temporary exposed slopes properly covered?						$\overline{\mathbf{V}}$			
1.10	Are earthworks final surfaces well compacted or pro	tected?					\checkmark			
1.11	Are manholes adequately covered or temporarily se	aled?		\checkmark						
1.12	Are there any procedures and equipment for rainsto	rm protection?		\checkmark						
1.13	Are wheel washing facilities well maintained?						\checkmark			
1.14	Is runoff from wheel washing facilities avoided?						$\overline{\checkmark}$			
1.15	Are there toilets provided on site?			\checkmark						
1.16	Are toilets properly maintained?			\checkmark						
1.17	Are the vehicle and plant servicing areas paved an roofed areas?	d located within					$\overline{\checkmark}$			
1.18	Is the oil leakage or spillage avoided?			\checkmark						
1.19	Are there any measures to prevent leaked oil frodrainage system?	m entering the		\checkmark						
1.20	Are there any measures to collect spilt cement washings during concreting works?	and concrete					$\overline{\checkmark}$			
1.21	Are there any oil interceptors/grease traps in the dr						$\overline{\checkmark}$			

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



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

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

Remarks

Last Site Inspection:

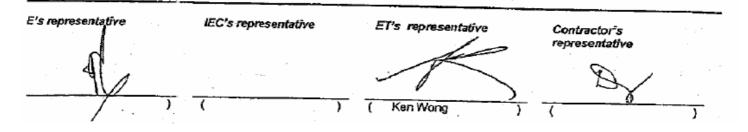


Stagnant water accumulated in the site area at CH 290 was clean up by the Contractor on 04 Aug 2007(ref: KT15-020807).

Findings of Site Inspection on 02 Aug 2007: Site Inspection was carried out at CH290.



Obs 1 – Rain water accumulated in the site area at CH 290 was observed, the Contractor was reminded to clean up after each rainy day.



Projec	ct:	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		spected b		ive:	A.F. Ng					
Inspe	ction		IE	C/IEC's re	epresenta	tive:						
Date:		16 August 2007	ETL/ ET's representative:				Ben Tam					
Time:		15:30	C	ontractor'	s represe	ntative:	M.K. Ng	/ K.M. Lui				
			Checklist No. KT15-160807									
PART		GENERAL INFORMATION Environmenta	_	_	EP-231/20	05/A						
Weath		Sunny Fine Cloudy 29 °C		Rainy								
Humic	erature:	29										
Wind: Strong Breeze ✓ Light Calm												
PART	B:	SITE AUDIT	_									
Not Yes No Follow N/A Photo/ Obs. Yes No up N/A Remarks												
		nter Quality										
1.01		ffluent discharge license obtained for the Project?		Ш	\checkmark	Ш	Ш					
1.02	Is the	effluent discharged in accordance with the discharg ?	е	\checkmark								
1.03	Is the	discharge of turbid water avoided?		\checkmark								
1.04		ere proper desilting facilities in the drainage systems t SS levels in effluent?	0	\checkmark								
1.05	Are there channels, sandbags or bunds to direct surface run-off sedimentation tanks?											
1.06		ere any perimeter channels provided at site boundaries t pt storm runoff from crossing the site?	0	\checkmark								
1.07	Is drain	nage system well maintained?		\checkmark								
1.08		avation proceeds, are temporary access roads protected b d stone or gravel?	у					\checkmark				
1.09	Are ter	nporary exposed slopes properly covered?						\checkmark				
1.10	Are ea	rthworks final surfaces well compacted or protected?						$\overline{\checkmark}$				
1.11	Are ma	anholes adequately covered or temporarily sealed?			\checkmark							
1.12	Are the	ere any procedures and equipment for rainstorm protection?			\checkmark							
1.13	Are wh	eel washing facilities well maintained?						$\overline{\checkmark}$				
1.14	ls runc	ff from wheel washing facilities avoided?						\checkmark				
1.15	Are the	ere toilets provided on site?			\checkmark							
1.16	Are toi	lets properly maintained?			\checkmark							
1.17		e vehicle and plant servicing areas paved and located withi areas?	n					\checkmark				
1.18		oil leakage or spillage avoided?			\checkmark							
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?			\checkmark							
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?											
1.21		ere any oil interceptors/grease traps in the drainage system icle and plant servicing areas, canteen kitchen, etc?	S					\checkmark				



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

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

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

Remarks

Last Site Inspection:



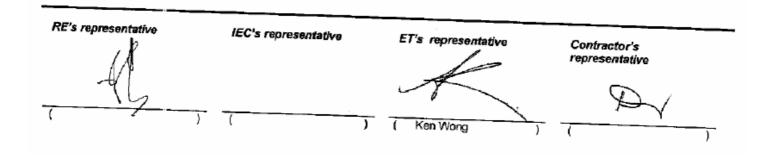
Rain water accumulated in the abandon wheel wash bay at CH 290 was still observed. The Contractor was reminded to clean up after each rainy day or fill up with soil to prevent any rainy water accumulated on site (ref: KT15-090807).

Findings of Site Inspection on 16 Aug 2007:

Site Inspection was covered the site area from CH221-CH688.



Obs 1 – Some wastes/excavated soil from site clearance accumulated next to stream edge was observed at CH675. To prevent any soil runoff into the stream, the Contractor was reminded to remove and prevent any C&D/excavated soil accumulated next to the stream.



Projec	ct:	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		pected b	oy presentati	ve:	A.F. Na	′ WL Chan				
Inspe	ction				epresenta		Benny Li					
Date:		21 August 2007	ETL	JET's r	epresenta	itive:	Ken Wong / Ben Tam					
Time:		13:30	Con	ntractor	's represe	ntative:	: M.K. Ng / K.M. Lui					
			Checklist No. KT15-210807									
PART	A:	GENERAL INFORMATION Environmental	Perr	nit No. I	EP-231/20	05/A						
Weath	ner:	✓ Sunny Fine Cloudy		Rainy								
Temp	erature:	27 °C										
Humic	dity:	High Moderate Low										
Wind:		Strong Breeze ✓ Light		Calm								
PART B: SITE AUDIT												
Not Yes No Follow N/A Photo/ Obs. up N/A Remarks												
Section	on 1: W	ater Quality		_	_							
1.01	Is an e	ffluent discharge license obtained for the Project?			\checkmark							
1.02	1.02 Is the effluent discharged in accordance with the discharged licence?											
1.03	Is the	discharge of turbid water avoided?				$\overline{\checkmark}$						
1.04	Are there proper desilting facilities in the drainage systems reduce SS levels in effluent?											
1.05		ere channels, sandbags or bunds to direct surface run-off to entation tanks?	0	\checkmark								
1.06		ere any perimeter channels provided at site boundaries to pt storm runoff from crossing the site?	0	\checkmark								
1.07	Is drai	nage system well maintained?		\checkmark								
1.08		eavation proceeds, are temporary access roads protected by d stone or gravel?	y					\checkmark				
1.09	Are te	mporary exposed slopes properly covered?						\checkmark				
1.10	Are ea	rthworks final surfaces well compacted or protected?						\checkmark				
1.11	Are ma	anholes adequately covered or temporarily sealed?			\checkmark							
1.12	Are the	ere any procedures and equipment for rainstorm protection?			\checkmark							
1.13	Are wh	neel washing facilities well maintained?						\checkmark				
1.14	ls runc	ff from wheel washing facilities avoided?						\checkmark				
1.15	Are the	ere toilets provided on site?			\checkmark							
1.16	Are toi	lets properly maintained?			\checkmark							
1.17		e vehicle and plant servicing areas paved and located within areas?	า					\checkmark				
1.18		pil leakage or spillage avoided?			\checkmark							
1.19	draina	ere any measures to prevent leaked oil from entering the ge system?			\checkmark							
1.20	washir	ere any measures to collect spilt cement and concrete logs during concreting works?						\checkmark				
1.21		ere any oil interceptors/grease traps in the drainage systems iicle and plant servicing areas, canteen kitchen, etc?	S					\checkmark				



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



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

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

Remarks

Last Site Inspection:



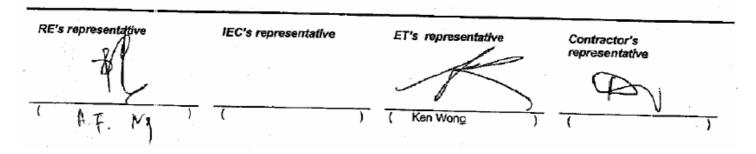
C&D wastes/excavated soil accumulated next to stream edge at CH200 had been remove. (ref: KT15-160807).

Findings of Site Inspection on 21 Aug 2007:

Site Inspection was covered the site area from CH145-CH688.



Obs 1 – Some silty water seepage into the stream was observed (CH155) during the site inspection, the Contractor was reminded to confine the wastewater/runoff and divert to the sedimentation system prior to discharge.



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NO. 427 P. 7/11

Environmental Site Inspection Checklist for KT15

Ellallollu		loen	ected by					
Project:	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	RE's	represent		- -	A.I.Na Benny	, WL	
Inspection Date: Time:	21 August 2007 13-30	IEC's representative: ET's representative: Contractor's representative: Checklist No.				Ken Wong, Ben Jam KM Lui, MKNg		
PART A: Weather. Temperatur Humidity: Wind: PART B:	GENERAL INFORMATION Environment Sunny Fine Cloudy Te: 2 0°C High Moderate Low Strong Breeze Light SITE AUDIT	al Per	mit No. EP Rainy Calm	-231/2005/	A			Photo/
			Not Obs.	Yes	No	Follow up	N/A	Remarks
1.01 Is 1.02 Is lice 1.03 Is 1.04 Are 1.05 Are 1.06 Are 1.07 Is 1.08 Are 1.09 Are 1.10 Are 1.11 Are 1.12 Are	an effluent discharge license obtained for the Project? the effluent discharged in accordance with the discharge? the discharge of turbid water avoided? the discharge of turbid water avoided? the there proper desilting facilities in the drainage system aduce SS levels in effluent? the there channels, sandbags or bunds to direct surface nuncimentation tanks? The there any perimeter channels provided at site boundaring the recept storm runoff from crossing the site? Its excavation proceeds, are temporary access roads protect crushed stone or gravel? Are temporary exposed slopes properly covered? Are earthworks final surfaces well compacted or protected? Are there any procedures and equipment for rainstorm protections are there any procedures and equipment for rainstorm protections are there are procedures and equipment for rainstorm protections are there are procedures and equipment for rainstorm protections are the procedures and equipment for rainstorm protections.	off to						
	Are wheel washing facilities well maintained?							
	Is runoff from wheel washing facilities avoided? Are there toilets provided on site?			Q				
	Are toilets properly maintained?			Ø				
1.17	Are the vehicle and plant servicing areas paved and located roofed areas?	d withi	n					
1.18	Is the oil leakage or spillage avoided?			Q'				
1.19	Are there any measures to prevent leaked oil from enter drainage system?							
1.20	Are there any measures to collect split cement and c washings during concreting works?							
1.21	Are there any oil interceptors/grease traps in the drainage for vehicle and plant servicing areas, canteen kitchen, etc?	systen	"³ ∐		L			
1.22	Are the oil interceptors/grease traps maintained properly?				L.			

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NO. 427 P. 8/11

Envir	onmental Site Inspection Checklist for KT15	Not	<u> </u>		No No	Follow	N/A	Photo/ Remarks
		Obs.	- 	es —		up		
4.50	is used bentonite recycled where appropriate?						 17-1	
	(what wash water	Ø		\supset				
1.24	provided and located at the stockholder and around 50m ³ capacities for sedimentation?		- -	_ Z				
1.25	Is excavation prohibited in the sattlement area?				П			_
1.26	Is concreting wastes water neutralized below the pH Action Levels before discharge?				<u> </u>		П	
1.27	Are mobile toilets provided on site and located away from the KY to							
1.25	stream course? Is License collector employed for handling the sewage of mobile toilet?	·		\square		لـا	دسسا	
Spelie	a. Air Ougidy			, 	11	_	\Box	
2,01	Are there wheel washing facilities with high pressure jets provided							
2.02	Are vehicles washed to remove any dusty materials from the hodies and wheels before leaving construction sites?		/					
2.03	Are the excavated materials sprayed with water during handling?	2	-		<u> </u>			
2.04	Are stockpiles of dusty materials sprayed with water, covered of		 了				☑	,
2.05	Is the exposed earth properly treated within six months after the		ے 1		<u> </u>			
2.06	Are the access roads sprayed with water to maintain the entire							,
2.07	Is the surface where any drilling, cutting, polishing or breaking to the surface where any drilling, cutting, polishing or breaking to the surface where any drilling, cutting, polishing or breaking.		u T					
2.08	Is the load on vehicles covered entirely by clean impervious		<u>7</u>					
2.09	Is the loading of materials to a level higher than the side and the si		<u> </u>					
2,10	is the road leading to the construction site within some or	_		4				<u> </u>
2,1	1 Is dark smoke emission from plant/equipment evoided?	7	<u>_</u>	回	اسما	L		
2.1	Are de-bagging, batching and mixing processes carried out sheltered areas during the use of bagged cement?					ــــا ــــا		
2.1	Are site vehicles travelling within the speed limit not more us			Ø		. L] <u>L</u>	
2.1	Are hoardings of not less than 2.4m high provided along the	site		₽		L	j ∟ ¬ -	ᆜ ¬
	Phateine de la company de la c			Ø] L	٠,
2.1 2. ²	Are excavated materials from the stream removed form site on same day and be stored in covered impermeable skips w	ı the vhile] [a
ė.	awaiting removal from site?							
3.0	Are noisy equipment and activities positioned as far as practic	able		V] [
3,	02 Is silenced equipment adopted?					j ∟ 	_) [-, -,	<u> </u>
3.	03 Is idle equipment turned off or throttled down?				-, .	_ L	_j ! !	
3.	04 Are all plant and equipment well maintained and in good condi-			<u> </u>	-		_	
3.	Are noise barriers or enclosures provided at areas v construction activities cause noise impact on sensitive receive] <u> </u>	_ <u> </u>	⊔
3	.06 Are hand held breakers fitted with valid noise emission i	abeis						년
3	.07 Are air compressors fitted with valid noise emission labels of						_	
3	Are flaps and panels of mechanical equipment closed (<u> </u>	<u> </u>			<u> </u>
3	Are Construction Noise Permit(s) applied for percussive works?	piling						Ø

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Envir	onmental Site Inspection Checklist for KT15	Not Obs.	Yes	No	Follow up	N/A	Remarks
	"			$\overline{\Box}$			
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?		[]			Ø	
	Assumed Construction Noise Permit(s) posted at site entrances?		لـا		<u> </u>		
3.11 3.12	Is quiet plant used on site to minimise the construction noise impact to the surrounding residences/dwellings (Level 1 mitigation	Ø					
3.13	measures?? Are temporary / moveable noise barrier or site hoarding provided or erected at the site boundary to minimise the noise impact of the closest NSRs or stationary equipments be shielded by the noise barrier which cannot be visible from NSRs (Level 2 mitigation						
3.14	measure)? Are temporary / moveable noise barrier equal to or more than 3m height with 10kg/m² provided for noise mitigation measures (Level 2 mitigation measures)?	Ø				لـا	
Secti	4: Moete/Chemical Management		. 2				
4.01	Is the Waste Management Plan submitted to Engineer for approval?						
4,02	Are receptacles available for general refuse collection?		Ø				
4.03	is general refuse sorting or recycling implemented?						
4.04	is general refuse disposed of properly and regularly?			<u></u>	<u></u>	_	
4.05	control of a chemical waste producer?						O
4.06			<u>7</u>				
4.07	Are the chemical wastes stored in proper storage areas?			_			1
4.08	s the chemical waste storage area properly labelled?	니 		_	, <u>.</u>	<u>-</u>	
4.09	440010 4.11) .)	\	' _ _
4,1	Are incompatible chemical wastes stored in different areas?	 ,_		•	, <u> </u>		- 1
4.1	1 Are the chemical wastes disposed of by licensed collectors?			1 <u> </u>	յ հատ -	ו ו	
4,1	Are trip tickets for chemical wastes disposal available inspection?	tor] <u> </u>	J L	J [, <u>r</u>	<u> </u>
4.1	3 Are chemical/fuel storage areas bunded?] [J	,	
4.1	Are designated areas identified for storage and sorting construction wastes?	of _] [] L.] L 7 F	
4.] [نا لـ 			
4.	16 Are construction wastes reused?	<u> </u>	₹ C	_] [_	
4.	17 Are construction wastes disposed of properly?		_			_]	
4.	Are site hoardings and signboards made of durable mate instead of timber?			<u> </u>		_ <u> </u>	-
4.	19 Is trip ticket system implemented for the disposal of constru-			Z] [→ [_]	-' ☑
4	Are appropriate procedures followed if contaminated materials and appropriate procedures followed if contaminated materials are appropriate procedures followed in contaminated materials are appropriated and appropriate procedures followed in contaminated materials are appropriated and appropriate procedures followed in contaminated materials are appropriated and appropriate procedures followed in contaminated materials are appropriated and appropriate procedures followed in contaminated materials are appropriated and appropriate procedures are appropriated and appropriated and appropriated and appropriate and appropriated and appropriated and appropriated and appropriate and appropriate and appropriate and appropriated ap			i	_	' 	<u> </u>
4	is relevant license/ permit for disposal of construction was excavated materials available for inspection?					_ _	
4	.22 is site cleanliness and appropriate waste management tra provided for the site workers?			<u></u>	<u> </u>		<u> </u>
4	Are contaminated sediments managed according to V No.12/2000 and EWTB TC(W) No. 34/2002?	ADIO	! !		<u> </u>		
5	Section 5: Landscape & Visual		 1			Γ	П
ŧ	5.01 Are retained and transplanted trees in health condition?		LJ	<u>7</u> 1	<u></u>	L	

Page 3 of 5

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ENSK	onmental Site Inspection Checklist for KT1	5				Follow	N/A	Photo/
FILVII	Offineria C.15	\	Not Obs.	Yes	No	up		Remarks
		L						
5,02	Are retained and transplanted trees properly protected?		\square	П				
5.03	Are surgery works carried out for the damaged trees?	d ion.				П		
5.04	Is damage to trees outside site boundary due to construe activities avoided?			□ ⊼i				
5.05	activities avoided? Is the night-time lighting controlled to minimize glare to sent receivers?	airi v e		L_		,		
Secti	on 6: Ecology	vanks		 1	П	П		
6.01	Are gabion banks and base provided for channel linings and befor typical sections of KT15?		\ <u></u>	I I				
6.02	Is site effluent/runoff discharge to the seasonal wetlands at prevented?			□			П	
6.03	prevented? Are stockpiling or disposal of materials, and any dredgi construction activities at the seasonal wetlands at prohibited?	₹ T15		<u> </u>	نسا	<u>.</u>		
Sect	tion 7: Others	a cita		V	П			
7.01	Are relevant Environmental Permits posted at all vehicl entrances/exits?	E Site		IX.	نــا	<u> </u>		

Remarks

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The major construction activities activities was deserved.

Contractor's representative ET's representative IEC's representative RE's representative Page 5 of 5

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Appendix K

Response to Comments

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 – 2nd Monthly EM&A Report for August 2007



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 Monthly EM&A Report for August 2007 (Revision 0) [Received from e-mail on 03 Sep 2007 15:43]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	ES.09	Please include ecology as potential environmental impacts for this project	-	Noted
	5.08	Please provide total number of wetland dependent species observed in this survey and compared with baseline. Please also check if the number of species in this survey is complied with A/L level.	-	Section 5.08 had been amended.
		"1.2 individuals from 15 species" this statement is incorrect as 1.2 individuals were recorded from Cattle Egret and Chinese Pond Heron (2 species only in baseline). Therefore, direct compare the no. of individuals (i.e. 33 vs. 1.2) is not appropriate. Please provide a representative quantitative comparison.		
2	6.01	Please explain how to implement the waste management by Environmental Officer or Environmental Supervisor	-	Section 6.01 had been revised.
3	6.03	Please updated waste disposal record by referring to email from Environmental Officer on 31 August 2007	-	Noted
4	Appendix C	Please update the detail of Environmental Supervisor once confirmed	-	To be advice by CCC.
5	Appendix D	Please provide calibration certificate For water quality monitoring, please provide QA/QC results	EM&A Manual 10.3.4 (v)	Noted.

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 – 2nd Monthly EM&A Report for August 2007



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 Monthly EM&A Report for August 2007 (Revision 1) [Received from e-mail on 05 Sep 2007 15:50]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	5.08	Please amend underlined "Compared with the average abundance of 1.2 individuals and 3 species of wetland dependent birds recorded" Please clarify whether the wetland dependent bird species numbers recorded fell within the Action / Limit level.	-	Noted. Text will be amended accordingly. The wetland dependent bird species numbers recorded fell within the Action level (i.e. 20-40% decrease from the baseline (i.e. 3 species).
2	5.09	We recommend adding the underlined "the wetlands was found. <u>Based on the findings on the monthly monitoring of construction activities</u> . The non-compliance in wetland dependent bird species was not caused by the project."	-	Noted. Text will be amended accordingly.

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 – 2nd Monthly EM&A Report for August 2007



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 Monthly EM&A Report for August 2007 (Revision 2) [Received from e-mail on 07 Sep 2007 17:56]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	5.08	For the species number recorded in the monitoring survey, only one wetland dependent bird was	-	There was a decrease >40%
		recorded, which indicated a decrease > 40% of 3 species from baseline, please clarify.		from baseline in the wetland
				dependent bird species number.
				The text will be corrected.

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 – 2nd Monthly EM&A Report for August 2007



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 Monthly EM&A Report for August 2007 (Revision 3) [Received from e-mail on 11 Sep 2007 14:10]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	5.08	Further to our previous comment, as 1.2 individuals were recorded from Cattle Egret and Chinese Pond	-	Noted. Text will be amended.
		Heron (2 species only in baseline). Therefore, direct compare the no. of individuals (i.e. 5 vs. 1.2) is not		
		appropriate. Since the number of individual was not provided in the ES for White-breasted Waterhen, it		
		would be more appropriate NOT to include this when comparing the number of individual recorded		
		during impact phase. Yet, they could be included when comparing the number of species.		