

**JOB No.: TCS00371/07**

**REVISION No.: 1**



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

**YUEN LONG, KAM TIN, NGAU TAM MEI AND TIN SHUI  
WAI DRAINAGE IMPROVEMENTS, STAGE 1, PHASE  
2B – CHEUNG CHUN SAN TSUEN AND KAM TSIN WAI  
KT15 - MONTHLY EM&A REPORT FOR APRIL 2008  
(No. 10)**

**PREPARED FOR**

**CHIT CHEUNG CONSTRUCTION COMPANY LIMITED**

**Quality Index**

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## EXECUTIVE SUMMARY

- ES.01 Chit Cheung Construction Company Limited (CCC) has been awarded the Drainage Services Department (DSD) Contract No. DC/2006/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai (hereinafter “the Project”) on 03 April 2007. According to the contract specification requirements an Environmental Monitoring & Audit program to be implemented by an Independent Environmental Team (ET) throughout the contract period.
- ES.02 Under the Project Profile for Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai, Drainage Improvement Stage 1 Phase 2B – Kam Tin Secondary Drainage Channels KT14 & KT15 (Ref.: 382047/E/PP/Issue 5), KT14 & KT15 was defined as Designated Project and governed by Environmental Permit (EP-231/2005/A).
- ES.03 Action-United Environmental Services and Consulting (AUES) has been commissioned by CCC to be an Independent Environmental Team (ET) to implement the EM&A program in compliance with the requirements as stated in the Environmental Permit (EP-231/2005/A) and Environmental Monitoring & Audit Manual (EM&A Manual) for Secondary Channel KT14 & KT15 (August 2005). For this Contract (DC/2006/02) only covered KT15 and KT14 will carried out under other contract.
- ES.04 This Monthly EM&A Report for **April 2008 (No. 10)** is present the environmental impact monitoring and audit (EM&A) results of the project EM&A program for the reporting month **April 2008** during the period from **26 March 2008 to 25 April 2008**.

### **Breach of Action and Limit (AL) Levels**

- ES.05 The Limit Level exceedance was recorded in ecology (16 April 2008) during this reporting month. The wetland dependent bird individual number and species number as well as the fauna individual number and species number fell within the limit level (decrease > 40%). 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 **May 2008** included Construction and Excavation works, Stream Diversion, Tree protection and tree transplanting works, Carrying out joined survey, Utilities companies liaison, Dumping activities and Gabion installation. Potential environmental impacts for this project generally include air quality, noise, ecology, surface runoff and construction waste. The contractor shall properly implement the required environmental mitigation measures as per the Implementation Schedule in the EM&A manual to ensure no significant adverse environmental impact arises from the construction works. The contractor was reminded to maintain good house-keeping throughout the construction phase.

### **EM&A Activities in the Reporting Period**

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

• 1-Hour TSP Monitoring	15 Events
• 24-Hour TSP Monitoring	6 Events
• Noise Monitoring	5 Events
• Stream Water Quality	18 Events
• Ecology (Fauna)	1 Event
• Site Inspection Audit	5 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 Non-compliance (Limit Level) was recorded in ecology (16 April 2008) during this reporting month. The recorded wetland dependent bird individual number and species number as well as the fauna individual number and species number fell within the limit level (decrease > 40%). No intrusions of construction activities into the wetland areas nor adverse impact was observed. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.

### Summary of Monitoring Exceedances

ES.15 A summary of monitoring exceedances during the reporting period for air quality, construction 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) in mg/L	0	Not Required for 0% Exceedance
	Suspended Solids (SS) in mg/L	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	pH	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
	Decrease in the total number of species or individuals of wetland faunal from baseline	0	Not Required for 0% Exceedance

### Site Inspection by External Parties

ES.16 No site inspection was undertaken by external parties in this reporting period.

## 1.0 INTRODUCTION

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

### REPORT STRUCTURE

- 1.05 The EM&A report is structured into the following sections:

- Section 1 INTRODUCTION**
- Section 2 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS**
- Section 3 SUMMARY OF MONITORING REQUIREMENTS**
- Section 4 IMPACT MONITORING METHODOLOGY**
- Section 5 IMPACT MONITORING RESULTS**
- Section 6 WASTE MANAGEMENT**
- Section 7 SITE INSPECTION**
- Section 8 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE**
- Section 9 IMPLEMENTATION STATUS OF MITIGATION MEASURES**
- Section 10 IMPACT FORECAST**
- Section 11 CONCLUSIONS**

## 2.0 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

### PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

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

### CONSTRUCTION PROGRESS

2.02 The major construction activities undertaken in this reporting period are list below:-

- Construction and excavation works;
- Dumping activities;
- Sheet pile driving;
- Tree protection and tree transplanting works;
- Utilities companies liaison;
- Carrying out joined survey; and
- Gabion Installation.

### SUMMARY OF ENVIRONMENTAL SUBMISSIONS

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

**Table 2-1 Status of Environmental Licenses and Permits**

Items	Item Description	License/Permit Status
1	Environmental Permit (EP-231/2005/A)	-
2	Air Pollution Control (Construction Dust)	Notified EPD on 09 July 2007
3	Chemical Waste Producer Registration WPN:5296-519-C3430-01 (Portion 8, Ma Fung Ling Road, Tong Yan San Tsuen, Yuen Long)	Registration on 20 April 2007
4	Chemical Waste Producer Registration WPN:5113-533-C3434-09 (Kam Tsin Wai, Kam Tin, Yuen Long)	Registration on 20 April 2007
5	Chemical Waste Producer Registration WPN:5213-424-C3431-01 (Portion 7, Birthing Area, Hoi Wan Road, Tuen Mun)	Registration on 20 April 2007
6	Water Pollution Control Ordinance (Discharge License) License No.: 1U450/1	Obtained on 20 July 2007
7	Billing Account for Disposal of Construction Waste (Account Number : 7005311)	Valid on 07 May 2007
8	Dumping at Sea Permit of Type 1 Contaminated Material (Permit No. EP/MD/08-051)	Validity period (10 Oct 2007 – 09 Apr 2008)

## 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 TSP	A10
Construction Noise	Leq <sub>(30min)</sub> during normal working hours Supplementary data of L <sub>10</sub> and L <sub>90</sub> for reference.	N10a*
Stream Water Quality	In Situ Measurement <ul style="list-style-type: none"> <li>• Dissolved Oxygen Concentration (mg/L);</li> <li>• Dissolved Oxygen Saturation (% Sat);</li> <li>• Turbidity (NTU);</li> <li>• pH;</li> <li>• Salinity (%); Water Depth (m) and</li> <li>• Temperature (°C).</li> </ul> Laboratory Analysis <ul style="list-style-type: none"> <li>• Suspended Solids (mg/L);</li> <li>• Ammonia Nitrogen (mg/L); and</li> <li>• Zinc (µg/L).</li> </ul>	W9A & W9B
Ecology	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<sub>(30min)</sub> shall be taken between 0700 and 1900 with supplementary L<sub>10</sub> and L<sub>90</sub> 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 and Turbidity (NTU) were measured in-situ, water depth, temperature and salinity will be collected for relevant data. Suspended Solids (SS), Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory respectively.
- 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 through the year and other faunal groups (reptiles, amphibians, dragonflies and butterflies) are conducted monthly in wet season (April to July inclusive) only. Photographic record should be made at six month intervals.
- 3.07 A summary of the Action/Limit (A/L) Levels for air quality, construction noise, stream water quality and ecology 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/m <sup>3</sup> )		Limit Level (µg/m <sup>3</sup> )	
	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) <sup>#</sup>	W9B (Downstream)
Action Level	NA	< 0.3
Limit Level	NA	< 0.2
<b>Turbidity (NTU)</b>		
Action Level	NA	> 73.5*
Limit Level	NA	> 78.2**
<b>pH</b>		
Action Level	NA	> 7.0*
Limit Level	NA	> 7.1**
<b>Suspended Solids (mg/L)</b>		
Action Level	NA	> 148*
Limit Level	NA	> 159**
<b>Ammonia Nitrogen (mg/L)</b>		
Action Level	NA	> 30.91*
Limit Level	NA	> 32.20**
<b>Zinc (µg/L)</b>		
Action Level	NA	> 242*
Limit Level	NA	> 252**

Notes: <sup>#</sup> 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.

**Table 3-5 Action and Limit Levels for Construction Ecology Monitoring**

Parameters	Action Level	Limit Level
Fauna: decrease in the total number of wetland dependant species or individuals of the surveyed faunal groups from baseline	20 – 40% of 1.2 individuals and 3 species	> 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](#).

## 4.0 IMPACT MONITORING METHDOLOGY

### MONITORING LOCATIONS

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

**Table 4-1 Location of Air Quality, Construction Noise & Stream Water Quality Monitoring Station/Locations**

<b>Air Quality Station</b>	
A10	Village House in Tin Sam San Tsuen
<b>Construction Noise Location</b>	
N10*	Village House in Tin Sam San Tsuen
N10a	Village House in Tin Sam San Tsuen
<b>Water Quality Locations</b>	
W9A <sup>#</sup>	Tin Sam San Tsuen
W9B	Tin Sam San Tsuen

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

4.02 The meteorological data during the reporting period was 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 **15** 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 **6** monitoring events were carried out in this reporting period.

##### **NOISE MONITORING**

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

##### **STREAM WATER QUALITY MONITORING**

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

##### **ECOLOGY MONITORING**

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

#### **MONITORING EQUIPMENT**

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

**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
pH	pH Meter	Hanna HI 98128
Turbidity	Turbidimeter	Hach 2100P
Salinity	Salinometer	ATAGO refractometer
-	Water Sampler	Teflon bailer / bucket
-	Sample Container	High density polythene bottles (provided by laboratory)
-	Storage Container	'Willow' 33-litter plastic cool box

### **24-HOUR TSP MONITORING**

4.09 The 24-Hour TSP monitoring was carried out by a High Volume Sampler (HVS) in compliance with the USEPA Standards Title 40, Code of Federal Regulations Chapter 1 (Part 50) specifications. The HVS employed complied with the PS specifications including.

- Power supply of 220v/50 hz for 24-Hour continuous operation;
- 0.6-1.7 m<sup>3</sup>/min (20-60 SCFM) adjustable flow rate;
- A 7-day mechanical timer for 24-Hour operation;
- An elapsed time indicator with  $\pm 2$  minutes accuracy for 24-Hour operation;
- Minimum exposed area of 63 in<sup>2</sup>;
- Flow control accuracy of  $\pm 2.5\%$  deviation over 24-Hour operation;
- An anodized aluminum shelter to protect the filter and sampler;
- A motor speed-voltage control to control mass flow rate with accuracy of  $\pm 2.5\%$  deviation over 24-Hour sampling period;
- Provision of a flow recorder for continuous monitoring;
- Provision of a peaked roof inlet;
- Incorporation with a manometer; and
- An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.

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

### **1-HOUR TSP MONITORING**

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

### WIND DATA MONITORING

- 4.12 The meteorological data during the reporting period was 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 ( $L_{eq}$ ) measured in decibels (dB). Supplementary statistical results such as  $L_{10}$  and  $L_{90}$  were also obtained for reference.
- 4.14 Hand-held sound level meters (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 ( $L_{eq}$ ).
- 4.16 No noise measurement was carried out in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s.

### STREAM WATER QUALITY MONITORING

#### 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.

pH

- 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 (NTU)

- 4.23 A portable Hach 2100p turbidity Meter will be used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 – 1000 NTU. 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 (NTU), pH, salinity and water depth were measured in-situ whereas SS, Ammonia Nitrogen and Zinc were determined in a HOKLAS accredited laboratory (ALS).

### **ECOLOGY MONITORING**

#### **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.
- 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 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 Date	Start Time	1 <sup>st</sup> Result ( $\mu\text{g}/\text{m}^3$ )	2 <sup>nd</sup> Result ( $\mu\text{g}/\text{m}^3$ )	3 <sup>rd</sup> Result ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
31-Mar-08	9:20	87	101	103	> 307	> 500
07-Apr-08	9:40	79	84	88	> 307	> 500
12-Apr-08	13:25	106	113	116	> 307	> 500
18-Apr-08	9:17	78	82	77	> 307	> 500
24-Apr-08	9:09	273	259	251	> 307	> 500

Note: Bold and italic is exceed the Action Level.  
 Bold and underline is exceed the Limit Level

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

Monitoring Date	Monitoring Results ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
26-Mar-08	55	> 165	> 260
31-Mar-08	36	> 165	> 260
05-Apr-08	18	> 165	> 260
11-Apr-08	34	> 165	> 260
17-Apr-08	73	> 165	> 260
23-Apr-08	70	> 165	> 260

Note: Bold and italic is exceed the Action Level.  
 Bold and underline is exceed the Limit Level

5.03 No 1-Hour and 24-Hour TSP Action or Limit Level exceedance was recorded in this 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 <sup>th</sup> Leq5	Leq30	
31-Mar-08	10:20	50.9	48.6	49.5	52.1	50.0	50.2	50.4	
07-Apr-08	13:35	49.0	53.0	54.5	49.7	50.2	51.7	51.8	
12-Apr-08	15:42	50.5	51.4	53.0	51.2	51.9	52.4	51.8	
18-Apr-08	10:58	52.0	49.4	50.8	51.3	49.4	49.1	50.5	
24-Apr-08	10:31	53.4	63.8	55.1	53.2	56.4	52.6	58.0	
<b>Limit Level</b>		-						<b>&gt; 75 dB(A)</b>	

Note: \* 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**

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

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

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

Monitoring Date	DO in mg/L		Turbidity (NTU)		pH		SS in mg/L		Ammonia (mg/L)		Zinc (µg/L)	
	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B	W9A#	W9B
27-Mar-08	3.2	3.3	15.1	40.0	8.2	7.8	11	32	37.20	10.40	30	45
31-Mar-08	3.3	3.1	11.4	18.1	7.5	7.7	6	18	28.10	9.58	32	57
02-Apr-08	2.7	2.3	89.3	16.1	7.4	7.0	42	14	102.00	10.60	147	36
07-Apr-08	2.1	2.5	55.6	30.0	7.6	7.0	24	29	62.80	8.99	81	82
12-Apr-08	2.5	0.8	124.5	30.8	8.0	7.8	27	22	132.00	11.50	95	59
15-Apr-08	2.4	2.7	49.3	25.8	8.0	7.8	7	21	108.00	10.80	31	64
18-Apr-08	2.5	3.3	15.8	18.9	8.0	7.7	19	30	25.70	7.33	63	71
21-Apr-08	4.6	4.6	5.2	9.7	7.3	7.3	5	17	52.40	4.36	16	26
24-Apr-08	5.2	5.2	5.6	10.3	7.7	7.4	14	16	52.40	3.54	38	38
<b>Action Level</b>	-	< 0.3*	-	> 73.5*	-	> 7.0*	-	> 148*	-	> 30.91*	-	> 242*
<b>Limit Level</b>	-	< 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

- 5.09 40 individuals of birds from 15 species were recorded during the survey for the present monthly monitoring on 16 April 2008. Among the birds recorded, no individual of any wetland bird species with abundance from the baseline (i.e. Cattle Egret and Chinese Pond Heron) was recorded. Compared with the average abundance of 1.2 individuals from 2 species of wetland dependent birds recorded during the baseline study for the KT15 Project Profile, the individual number and the species number of wetland dependent bird recorded fell within the Limit Level for the monitoring requirements for ecology (i.e. decrease in the number of species or individuals > 40% from the baseline).
- 5.10 11 individuals of fauna from 4 species were recorded during the survey for the present monthly monitoring on 16 April 2008. Compared with the total average abundance of 44.99 individuals from 21 species of fauna recorded during the baseline study for the KT15 Project Profile, the individual number and the species number of fauna recorded fell within the Limit Level for the monitoring requirements for ecology (i.e. decrease in the number of species or individuals > 40% from the baseline).
- 5.11 No intrusions of construction activities into the wetland areas nor adverse impact on the wetlands was found. Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.
- 5.12 Photographic records are scheduled in six-month intervals, while fauna survey is conducted during the wetland season (April to July), and thus both are not required in the present monthly monitoring.
- 5.13 Ecology Impact Monitoring Results are presented in the [Table 5-5](#) and [5-6](#).

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

Scientific Name	Common Name	Abundance reported in the project profile	Abundance recorded in the present survey (16 Apr 08)
<b>Birds</b>			
<i>Bubulcus ibis</i>	Cattle Egret	<b>0.4</b>	
<i>Ardeola bacchus</i>	Chinese Pond Heron	<b>0.8</b>	
<i>Amaurornis phoenicurus</i>	White-breasted Waterhen	<b>Recorded only</b>	
<i>Streptopelia chinensis</i>	Spotted Dove	Recorded only	6
<i>Hirundo rustica</i>	Barn Swallow	Recorded only	4
<i>Motacilla alba</i>	White Wagtail	Recorded only	2
<i>Pycnonotus jocosus</i>	Red-whiskered Bulbul	Recorded only	3
<i>Pycnonotus sinensis</i>	Chinese Bulbul	Recorded only	3
<i>Lanius schach</i>	Long-tailed Shrike	Recorded only	
<i>Copsychus saularis</i>	Oriental Magpie Robin	Recorded only	2
<i>Orthotomus sutorius</i>	Common Tailorbird	Recorded only	1
<i>Lonchura striata</i>	White-rumped Munia	Recorded only	
<i>Passer montanus</i>	Eurasian Tree Sparrow	Recorded only	5
<i>Sturnus nigricollis</i>	Black-collared Starling	Recorded only	3
<i>Acridotheres cristatellus</i>	Crested Myna	Recorded only	2
<i>Prinia flaviventris</i>	Yellow-bellied Prinia	\	2
<i>Eudynamis scolopacea</i>	Common Koel	\	1
<i>Halcyon smyrnensis</i>	White-throated Kingfisher	\	
<i>Garrulax perspicillatus</i>	Masked Laughingthrush	\	
<i>Zosterops japonica</i>	Japanese White Eye	\	3
<i>Lonchura punctulata</i>	Scaly-breasted Munia	\	
<i>Egretta garzetta</i>	Little Egret	\	
<i>Anthus hodgsoni</i>	Olive-backed Pipit	\	
<i>Phylloscopus subaffinis</i>	Dusky Warbler	\	1
<i>Phylloscopus inornatus</i>	Yellow-Browed Warbler	\	
<i>Parus major</i>	Great Tit	\	2
<i>Anthus hodgsoni</i>	Olive-backed Pipit	\	
<i>Prinia inornata</i>	Plain Prinia	\	
<i>Sturnus sericeus</i>	Red-bellied Starling		
<b>Species Number</b>		<b>15 spp. recorded, (only 2 species of wetland birds with abundance)</b>	<b>15 spp. (0 sp. from the wetland birds with abundance in the baseline)</b>
<b>Individual Number</b>		<b>1.2 (from the 2 species of wetland birds with abundance)</b>	<b>40 (0 from the wetland birds with abundance in the baseline)</b>

\*Wetland dependent species recorded with abundance during the baseline study with the names bolded

**Table 5-6 Summary of Fauna Impact Monitoring Surveys**

Scientific Name	Common Name	Abundance reported in the Project Profile	Abundance recorded in the present survey (16 Apr 08)
<b>Mammals</b>			
\	\	\	\
<b>Herpetofauna</b>			
<i>Bufo melanostictus</i>	Asian Common Toad	2	\
<i>Rana guentheri</i>	Gunther's Frog	2.33	\
<i>Polyedates megacephalus</i>	Brown Tree Frog	1.33	\
<i>Calotes versicolor</i>	Changeable Lizard	0.33	\
<b>Odonata</b>			
<i>Ischnura senegalensis</i>	Common Bluetail	4.5	2
<i>Ceriagrion auranticum</i>	Orange-tailed Sprite	6	\
<i>Orthetrum pruinosum</i>	Common Red Skimmer	1.5	\
<i>Trithemis aurora</i>		0.5	\
<i>Tramea virginia</i>		1	\
<i>Pantala flavescens</i>	Wandering Glider	8.5	3
<b>Butterfly</b>			
<i>Graphium sarpedon</i>	Common Bluebottle	0.5	\
<i>Papilio polytes</i>	Common Mormon	1.5	1
<i>Ariadne ariadne</i>	Angled Castor	2	\
<i>Euploea midamus</i>	Blue-spotted Crow	2.5	\
<i>Ideopsis similis</i>	Ceylon Blue Glassy Tiger	1.5	\
<i>Mycalesis mineus</i>	Dark-branded Bush Brown	1.5	\
<i>Catapsyllia pomona</i>	Lemon Emirgrant	0.5	\
<i>Eurema hecabe</i>	Common Grass Yellow	1	\
<i>Zizeeria maha</i>	Pale Grass Blue	2.5	5
<i>Astictopterus jama</i>	Forest Hopper	0.5	\
<i>Erionota torus</i>	Banana Skipper	3	\
<i>Hypolimnas bolina</i>	Great Egg-fly	\	\
<i>Pieris canidia</i>	Indian Cabbage White	\	\
<i>Hebomoia glaucippe</i>	Great Orange Tip	\	\
<i>Danaus genutia</i>	Common Tiger	\	\
<i>Papilio memnon</i>	Great Mormon	\	\
<b>Total species number</b>		<b>21 species with abundance</b>	<b>4 spp.</b>
<b>Total individual number</b>		<b>44.99</b>	<b>11</b>

## 6.0 WASTE MANAGEMENT

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

### RECORDS OF WASTE QUANTITIES

6.02 All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material;
- Chemical Waste;
- General Refuse; and
- Excavated Soil.

6.03 The quantities of waste for disposal in this reporting period are summarized in **Tables 6-1** and **6-2**. Whenever possible, materials were reused on-site as far as practicable.

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

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

**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)	5	NA
Recycled Plastic (kg)	0	NENT Landfill
Chemical Wastes (kg)	0	License Collector
General Refuses (m <sup>3</sup> )	14	NENT Landfill

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

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

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

## 7.0 SITE INSPECTION

7.01 According to the EM&A Manual Section 9.1.2, the environmental site inspection should be formulation by ET Leader. ET had carried out the environmental site inspection on 27 March 2008, 03, 10, 17 and 25 April 2008 with the Representatives of the Engineer and the Contractor to evaluate the site environmental performance in this reporting period. The monthly IEC site audit conducted on 17 April 2008 by IEC's representative with the Engineer's, the Contractor's and ET's representative. No non-compliance and four observations were noted.

7.02 The details of observation during the site inspections and monthly audit as follows:

- C&D waste was accumulated at the CH200, the Contractor was reminded to clean more frequency;
- Some C&D material scattered on-site was observed at CH230, the Contractor was reminded to tight up the working area;
- Water spraying should be needed when loading or unloading material to minimize the dust generation; and
- Some C&D material scattered on site was observed at CH680, the Contractor was reminded to tight up the working area.

7.03 The ET site inspection checklists are shown in [Appendix J](#). In general, the construction area of KT15 was kept clean and tidy.

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

## 8.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

### ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

- 8.01 No environmental complaint, summons and prosecution was received in this reporting period. 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		
	Frequency	Cumulative	Complaint Nature
July – December 2007	0	0	NA
January – March 2008	0	0	NA
April 2008	0	0	NA

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

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Nature
July – December 2007	0	0	NA
January – March 2008	0	0	NA
April 2008	0	0	NA

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

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Nature
July – December 2007	0	0	NA
January – March 2008	0	0	NA
April 2008	0	0	NA

## 9.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

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

### Water Quality

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

### Air Quality

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



### Noise

- Works and equipment were located to 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 **April 2008** was undertaken in compliance with the EM&A Manual for KT15. A summary of environmental compliance of air, noise, stream water quality and ecology in this reporting period are presented in [Table 11-1](#).

**Table 11-1 Summary of the Exceedances for Impact Monitoring**

Env. Quality	Parameters	Work-Related Exceedance %	Investigation & Corrective Actions
Air Quality	1-Hour TSP	0	Not Required for 0% Exceedance
	24-Hour TSP	0	Not Required for 0% Exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% Exceedance
Stream Water	Dissolve Oxygen (DO) in mg/L	0	Not Required for 0% Exceedance
	Suspended Solids (SS) in mg/L	0	Not Required for 0% Exceedance
	Turbidity (NTU)	0	Not Required for 0% Exceedance
	pH	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
	Decrease in the total number of species or individuals of wetland faunal 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 were found during the reporting period. Fauna and wetland bird individual number and species number on 16 April 2008 fell within the Limit Level (decrease >40 % from baseline). Based on the findings in the pervious monthly monitoring, the non-compliance in wetland dependent bird species and individual number was not caused by the project.
- 11.06 No environmental complaint, summons or prosecution was received in this reporting period.

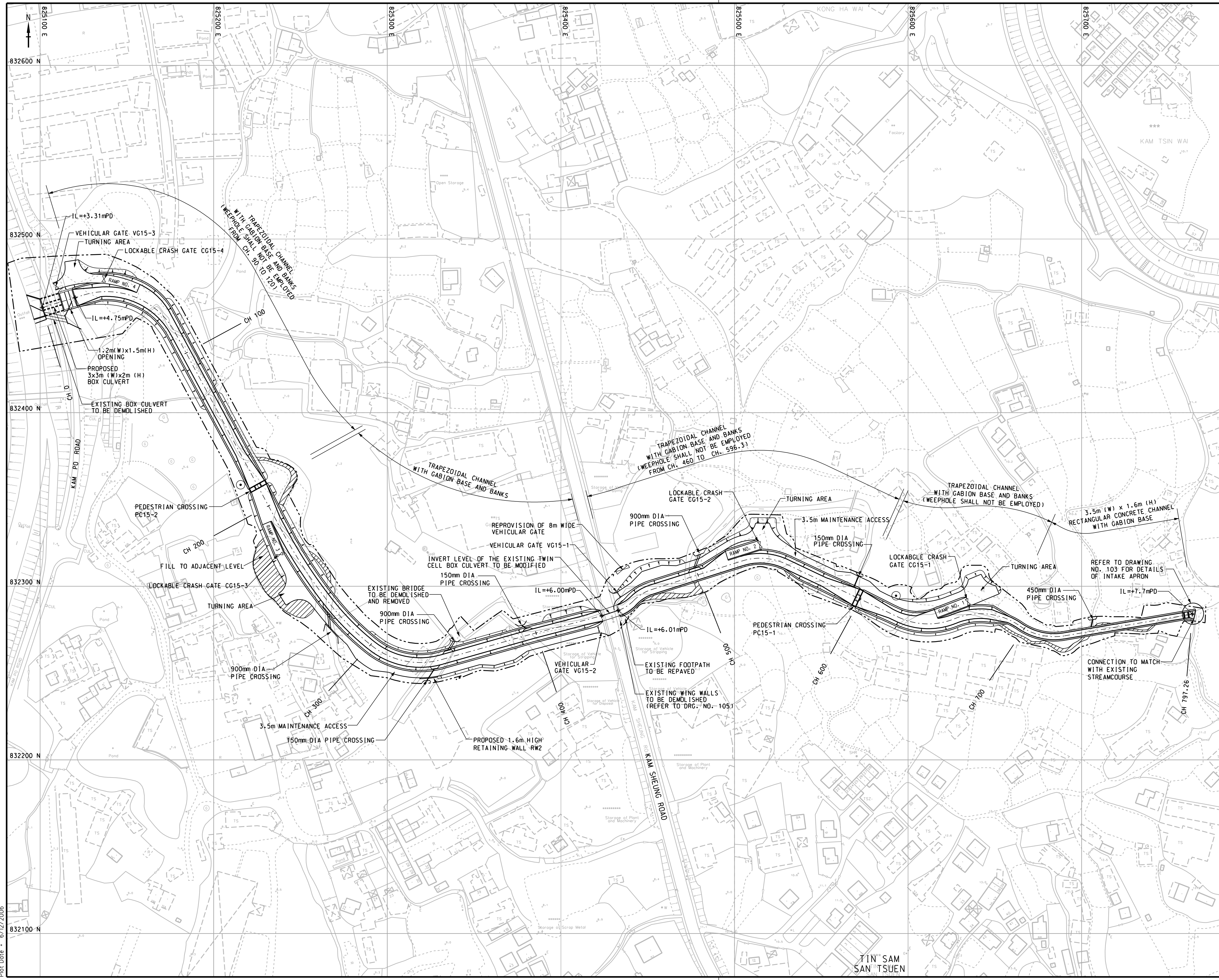
**RECOMMENDATIONS**

- 11.07 Based on the ET regular and monthly IEC site audit inspection records on 27 March 2008, 03, 10, 17 and 25 April 2008, no non-compliance and four observations were recorded. Details of the observations as follows:-
- C&D waste was accumulated at the CH200, the Contractor was reminded to clean more frequency;
  - Some C&D material scattered on-site was observed at CH230, the Contractor was reminded to tight up the working area;
  - Water spraying should be needed when loading or unloading material to minimize the dust generation; and
  - Some C&D material scattered on site was observed at CH680, the Contractor was reminded to tight up the working area.
- 11.08 No site inspection was undertaken by external parties in this reporting period.
- 11.09 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.

## **Appendix A**

### **Project Site Layout**





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NOTES :  
 1. REFER TO DRAWING NO. 020 FOR NOTES AND LEGENDS.

Revision	Date	Description	Initial
	Designed	Checked	Drawn
	SFL	KIL	MK
Date	12/05	12/05	12/05
Approved			

CONTRACT NO. DG200602

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

Drawing title  
 CHANNEL KT15 GENERAL LAYOUT PLAN

Drawing no.	Scale
021	1:1000 A1 1:2000 A3

香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Plot Date : 6/12/2005

## **Appendix B**

### **Three-Month Construction Program**

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
1	Letter of Acceptance	1 day	Wed 21/3/07	Wed 21/3/07					
2	Date for commencement of Works	1 day	Fri 30/3/07	Fri 30/3/07					
3	Execution of Article of Agreement	1 day	Tue 3/4/07	Tue 3/4/07					
4									
5	<b>Master Programme of the Works</b>	<b>839 days</b>	<b>Wed 21/3/07</b>	<b>Mon 6/7/09</b>					
6									
7	<b>Completion Dates</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
8	Section I - portions 1, 2 and 3	830 days	Fri 30/3/07	Mon 6/7/09	2SS				
9	Section II - portions 4, 5 and 5C	830 days	Fri 30/3/07	Mon 6/7/09	2SS				
10	Section III - portions 5A1, 5A2 and 5B	740 days	Thu 28/6/07	Mon 6/7/09	20FS-1 day				
11	Section IV - temp vehicular access at portion 5A1	90 days	Thu 28/6/07	Tue 25/9/07	20FS-1 day				
12	Section V - preservation and protection of existing trees	830 days	Fri 30/3/07	Mon 6/7/09	2SS				
13									
14	<b>Possession of Site</b>	<b>200 days</b>	<b>Fri 30/3/07</b>	<b>Mon 15/10/07</b>					
15	Portion 1 - channel KT2	1 day	Fri 30/3/07	Fri 30/3/07	2SS				
16	Portion 2 - channel KT2	61 days	Fri 30/3/07	Tue 29/5/07	2SS				
17	Portion 3 - channel KT2	91 days	Fri 30/3/07	Thu 28/6/07	2SS				
18	Portion 4 - channel KT15	1 day	Fri 30/3/07	Fri 30/3/07	2SS				
19	Portion 5 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS				
20	Portion 5A1 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS				
21	Portion 5A2 - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS				
22	Portion 5B - channel KT15	20 days	Wed 26/9/07	Mon 15/10/07	11				
23	Portion 5C - channel KT15	91 days	Fri 30/3/07	Thu 28/6/07	2SS				
24	Portion 6 - Temp Storage Area at Chi Ho Road	1 day	Fri 30/3/07	Fri 30/3/07	2SS				
25	Portion 7 - Berthing Area	1 day	Fri 30/3/07	Fri 30/3/07	2SS				
26	Portion 8 - Site Accommodation	1 day	Fri 30/3/07	Fri 30/3/07	2SS				
27									
28	<b>A. Preliminary Works</b>	<b>839 days</b>	<b>Wed 21/3/07</b>	<b>Mon 6/7/09</b>					
29	<b>1. Setting out of Works</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>	2SS				
30	<b>2. Environmental Monitoring and Audit</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
31	2.1 Establishment of Environmental Team	14 days	Fri 30/3/07	Thu 12/4/07	8SS				
32	2.2 approval by the Engineer	7 days	Fri 13/4/07	Thu 19/4/07	31				
33	2.3 Environmental baseline monitoring	77 days	Fri 20/4/07	Thu 5/7/07					
34	a. Technical proposal & methodology	7 days	Fri 20/4/07	Thu 26/4/07	32				
35	b. Approval by the Engineer	7 days	Fri 27/4/07	Thu 3/5/07	34				
36	c. Baseline monitoring	63 days	Fri 4/5/07	Thu 5/7/07	35				
37	2.4 Environmental impact monitoring and audit	730 days	Sun 8/7/07	Mon 6/7/09	36,8FF				
38	<b>3. Environmental Management and Environmental Management Plan</b>	<b>73 days</b>	<b>Fri 30/3/07</b>	<b>Sun 10/6/07</b>					
39	3.1 Submission of draft EMP	21 days	Fri 30/3/07	Thu 19/4/07	2SS				
40	3.2 Comment from the Engineer	7 days	Fri 20/4/07	Thu 26/4/07	39				
41	3.3 Submission of EMP	45 days	Fri 27/4/07	Sun 10/6/07	40				
42	<b>4. Engineer's Accommodation</b>	<b>51 days</b>	<b>Fri 30/3/07</b>	<b>Sat 19/5/07</b>					
43	4.1 Renovation	30 days	Fri 30/3/07	Sat 28/4/07	26SS				
44	4.2 Equipment	51 days	Fri 30/3/07	Sat 19/5/07					
45	a. Contract telephone	21 days	Fri 30/3/07	Thu 19/4/07	26SS				
46	b. Survey equipment	45 days	Fri 30/3/07	Sun 13/5/07	26SS				
47	c. Contract computer facilities	51 days	Fri 30/3/07	Sat 19/5/07					
48	submission	14 days	Fri 30/3/07	Thu 12/4/07	26SS				
49	approval	7 days	Fri 13/4/07	Thu 19/4/07	48				
50	installation	21 days	Sun 22/4/07	Sat 12/5/07	49,43FS-7 days				
51	testing & commissioning	7 days	Sun 13/5/07	Sat 19/5/07	50				
52	4.3 utilities servicing	33 days	Fri 30/3/07	Tue 1/5/07					
53	a. Water	1 day	Fri 30/3/07	Fri 30/3/07	26SS				
54	b. Electricity	1 day	Fri 30/3/07	Fri 30/3/07	26SS				
55	c. Telephone	33 days	Fri 30/3/07	Tue 1/5/07					
56	temporary service	32 days	Fri 30/3/07	Mon 30/4/07	26SS				
57	new service	19 days	Fri 13/4/07	Tue 1/5/07					
58	application	5 days	Fri 13/4/07	Tue 17/4/07	56SS+14 days				
59	installation	14 days	Wed 18/4/07	Tue 1/5/07	58				
60	d. Facsimile	33 days	Fri 30/3/07	Tue 1/5/07					
61	temporary service	32 days	Fri 30/3/07	Mon 30/4/07	26SS				
62	new service	19 days	Fri 13/4/07	Tue 1/5/07					
63	application	5 days	Fri 13/4/07	Tue 17/4/07	61SS+14 days				
64	installation	14 days	Wed 18/4/07	Tue 1/5/07	63				
65	e. Internet broadband	33 days	Fri 30/3/07	Tue 1/5/07					
66	temporary service (56K)	32 days	Fri 30/3/07	Mon 30/4/07	26SS				

Task		Progress		Summary		Rolled Up Critical Task		Rolled Up Progress		External Tasks		Group By Summary	
Critical Task		Milestone		Rolled Up Task		Rolled Up Milestone		Split		Project Summary		Deadline	



ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
67	new service	19 days	Fri 13/4/07	Tue 1/5/07					
68	application	5 days	Fri 13/4/07	Tue 17/4/07	66SS+14 days				
69	installation	14 days	Wed 18/4/07	Tue 1/5/07	68				
70	<b>5. Contractor's Accommodation</b>	<b>45 days</b>	<b>Fri 30/3/07</b>	<b>Sun 13/5/07</b>					
71	5.1 Provision	45 days	Fri 30/3/07	Sun 13/5/07					
72	a. Premises	45 days	Fri 30/3/07	Sun 13/5/07	26SS				
73	b. Toilet facilities	21 days	Mon 23/4/07	Sun 13/5/07	72FF				
74	c. Telephone service	30 days	Sat 14/4/07	Sun 13/5/07	72FF				
75	d. Facsimile service	30 days	Sat 14/4/07	Sun 13/5/07	72FF				
76	e. Internet broadband service	30 days	Sat 14/4/07	Sun 13/5/07	72FF				
77	f. Water	1 day	Fri 30/3/07	Fri 30/3/07	26SS				
78	g. electricity	1 day	Fri 30/3/07	Fri 30/3/07	26SS				
79	<b>6. Transport (land) for the Engineer</b>	<b>124 days</b>	<b>Fri 30/3/07</b>	<b>Tue 31/7/07</b>					
80	6.1 submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
81	6.2 comment & approval	14 days	Fri 6/4/07	Thu 19/4/07	80				
82	6.3 delivery	103 days	Fri 20/4/07	Tue 31/7/07	81				
83	6.4 temp service	124 days	Fri 30/3/07	Tue 31/7/07	2SS,82FF				
84	<b>7. Transport (land) for Public Works Regional Laboratory</b>	<b>124 days</b>	<b>Fri 30/3/07</b>	<b>Tue 31/7/07</b>					
85	7.1 submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
86	7.2 comment, approval & instruction	14 days	Fri 6/4/07	Thu 19/4/07	85				
87	7.3 delivery	103 days	Fri 20/4/07	Tue 31/7/07	86				
88	<b>8. Signboard</b>	<b>150 days</b>	<b>Fri 30/3/07</b>	<b>Sun 26/8/07</b>					
89	8.1 Major	150 days	Fri 30/3/07	Sun 26/8/07					
90	submission	90 days	Fri 30/3/07	Wed 27/6/07	2SS				
91	comment & approval	90 days	Sun 29/4/07	Fri 27/7/07	90SS+30 days				
92	erection	90 days	Tue 29/5/07	Sun 26/8/07	91SS+30 days				
93	8.2 Minor	150 days	Fri 30/3/07	Sun 26/8/07					
94	submission	90 days	Fri 30/3/07	Wed 27/6/07	2SS				
95	comment & approval	90 days	Sun 29/4/07	Fri 27/7/07	94SS+30 days				
96	erection	90 days	Tue 29/5/07	Sun 26/8/07	95SS+30 days				
97	<b>9. Telephone hotline</b>	<b>15 days</b>	<b>Sun 29/4/07</b>	<b>Sun 13/5/07</b>					
98	9.1 Engineer's instruction	1 day	Sun 29/4/07	Mon 30/4/07	99SF				
99	9.2 installation	14 days	Mon 30/4/07	Sun 13/5/07	74FF				
100	<b>10. Contractual general submissions</b>	<b>839 days</b>	<b>Wed 21/3/07</b>	<b>Mon 6/7/09</b>					
101	10.1 programmes	28 days	Wed 21/3/07	Tue 17/4/07					
102	a. GCC Clause 16 programme	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
103	b. Works programme & financial programme	14 days	Wed 4/4/07	Tue 17/4/07	102				
104	c. 3-month rolling programme	14 days	Wed 4/4/07	Tue 17/4/07	102				
105	10.2 contractor's superintendence	14 days	Fri 30/3/07	Thu 12/4/07					
106	a. Agent	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
107	b. Surveyor	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
108	c. Sub-agent	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
109	d. Geotechnical Engineer	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
110	e. Geotechnical Supervisor	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
111	f. Foreman - concrete	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
112	g. Foreman - drainage	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
113	h. Staff Organization Plan	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
114	10.3 Safety Organization	14 days	Fri 30/3/07	Thu 12/4/07					
115	a. Safety Officer	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
116	b. Safety Supervisor	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
117	c. Safety Representative	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
118	10.4 TTMS design	7 days	Fri 30/3/07	Thu 5/4/07					
119	a. Independent Traffic Consultant	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
120	b. Traffic Engineer	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
121	10.5 Assistant to Engineer	33 days	Fri 30/3/07	Tue 1/5/07					
122	a. Chainmen (4)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
123	b. Watchmen (2)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
124	c. Field assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
125	d. Technical assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
126	e. Clerical assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
127	f. Office assistant (1)	33 days	Fri 30/3/07	Tue 1/5/07	2SS				
128	10.6 Underground service detection equipment	35 days	Fri 30/3/07	Thu 3/5/07					
129	a. Submission	7 days	Fri 30/3/07	Thu 5/4/07	2SS				
130	b. Comment & approval	14 days	Fri 6/4/07	Thu 19/4/07	129				
131	c. Provision	14 days	Fri 20/4/07	Thu 3/5/07	130				
132	10.7 Independent Checking of Temporary Works	28 days	Fri 30/3/07	Thu 26/4/07					
133	a. Submission of independent checking engineer	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
134	b. Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	133				
135	10.8 Trip ticket system for C & D material	59 days	Fri 30/3/07	Sun 27/5/07					

Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary  
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
136	a. Submission of site management plan	45 days	Fri 30/3/07	Sun 13/5/07	2SS				
137	b. Comment & approval	14 days	Mon 14/5/07	Sun 27/5/07	136				
138	10.9. Condition survey and structural monitoring	830 days	Fri 30/3/07	Mon 6/7/09					
139	a. Submission of Independent Structural Engineer	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
140	b. Comment & approval	7 days	Fri 13/4/07	Thu 19/4/07	139				
141	c. Proposal for condition survey & structural monitoring	209 days	Fri 20/4/07	Wed 14/11/07					
142	Portion 1, 4, 6, 7, 8	30 days	Fri 20/4/07	Sat 19/5/07	140				
143	Portion 2	30 days	Wed 30/5/07	Thu 28/6/07	16				
144	Portion 3, 5, 5A1, 5A2	30 days	Fri 29/6/07	Sat 28/7/07	17,19,20,21				
145	Portion 5B	30 days	Tue 16/10/07	Wed 14/11/07	22				
146	d. Comment & approval	193 days	Sun 20/5/07	Wed 28/11/07					
147	Portion 1, 4, 6, 7, 8	14 days	Sun 20/5/07	Sat 2/6/07	142				
148	Portion 2	14 days	Fri 29/6/07	Thu 12/7/07	143				
149	Portion 3, 5, 5A1, 5A2	14 days	Sun 29/7/07	Sat 11/8/07	144				
150	Portion 5B	14 days	Thu 15/11/07	Wed 28/11/07	145				
151	e. Condition survey & structural monitoring	765 days	Sun 3/6/07	Mon 6/7/09					
152	Portion 1, 4, 6, 7, 8	765 days	Sun 3/6/07	Mon 6/7/09	147				
153	Portion 2	725 days	Fri 13/7/07	Mon 6/7/09	148				
154	Portion 3, 5, 5A1, 5A2	695 days	Sun 12/8/07	Mon 6/7/09	149				
155	Portion 5B	546 days	Thu 29/11/07	Wed 27/5/09	150				
156	10.10 Handling & disposal of Type 1 & 2 contaminated material:	74 days	Sat 14/7/07	Tue 25/9/07					
157	a. Proposed type of dump truck	44 days	Sun 15/7/07	Mon 27/8/07					
158	Submission	30 days	Sun 15/7/07	Mon 13/8/07	705SS-44 days				
159	Comment & approval	14 days	Tue 14/8/07	Mon 27/8/07	158				
160	b. Proposal of berthing area arrangement	44 days	Mon 30/7/07	Tue 11/9/07					
161	Submission	30 days	Mon 30/7/07	Tue 28/8/07					
162	Comment & approval	14 days	Wed 29/8/07	Tue 11/9/07	161				
163	c. Proposal of disposal arrangement	74 days	Sat 14/7/07	Tue 25/9/07					
164	Submission	60 days	Sat 14/7/07	Tue 11/9/07					
165	Comment & approval	14 days	Wed 12/9/07	Tue 25/9/07	164				
166	10.11 Handling & treatment of Type 3 contaminated material	581 days	Fri 30/3/07	Thu 30/10/08					
167	a. Decontamination specialist	134 days	Fri 30/3/07	Fri 10/8/07					
168	Submission	120 days	Fri 30/3/07	Fri 27/7/07	2SS				
169	Comment & approval	14 days	Sat 28/7/07	Fri 10/8/07	168				
170	b. Statement & treatment programme	42 days	Sat 11/8/07	Fri 21/9/07					
171	(1) Submission	28 days	Sat 11/8/07	Fri 7/9/07	169				
172	(2) Comment & approval	14 days	Sat 8/9/07	Fri 21/9/07					
173	by the Engineer	14 days	Sat 8/9/07	Fri 21/9/07	171				
174	by the EPD	14 days	Sat 8/9/07	Fri 21/9/07	171				
175	c. Setting up of Treatment Plant	60 days	Mon 1/9/08	Thu 30/10/08	174,529SS-61 days				249 days
176	10.12 Safety Plan	35 days	Wed 21/3/07	Tue 24/4/07					
177	a. Submission of draft Safety Plan	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
178	b. Comment by the Engineer	7 days	Wed 4/4/07	Tue 10/4/07	177				
179	c. Submission of Safety Plan	14 days	Wed 11/4/07	Tue 24/4/07	178				
180	10.13 Sub-contractor Management Plan	839 days	Wed 21/3/07	Mon 6/7/09					
181	a. Submission of SMP	30 days	Wed 21/3/07	Thu 19/4/07	1SS				
182	b. For information & Comments	14 days	Fri 20/4/07	Thu 3/5/07	181				
183	c. Update SMP	795 days	Fri 4/5/07	Mon 6/7/09	182				
184	10.14 proof of plant ownership	830 days	Fri 30/3/07	Mon 6/7/09					
185	a. Submission of draft written undertaking	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
186	b. Comment by the Engineer / Employer	14 days	Fri 13/4/07	Thu 26/4/07	185				
187	c. Engineer's request	802 days	Fri 27/4/07	Mon 6/7/09	186				
188	10.15 Contractor's Management Team	830 days	Fri 30/3/07	Mon 6/7/09					
189	a. Submission of staff member details	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
190	b. Update management / site supervision team	816 days	Fri 13/4/07	Mon 6/7/09	189				
191	10.16 Water supply pipeworks material	28 days	Wed 21/3/07	Tue 17/4/07					
192	a. Supplier	28 days	Wed 21/3/07	Tue 17/4/07					
193	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
194	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	193				
195	b. Manufacturer	28 days	Wed 21/3/07	Tue 17/4/07					
196	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
197	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	196				
198	c. Independent Inspection Agent ( IIA )	28 days	Wed 21/3/07	Tue 17/4/07					
199	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
200	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	199				
201	d. Representative of the IIA	28 days	Wed 21/3/07	Tue 17/4/07					
202	Submission	14 days	Wed 21/3/07	Tue 3/4/07	1SS				
203	comment & approval	14 days	Wed 4/4/07	Tue 17/4/07	202				

Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary  
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

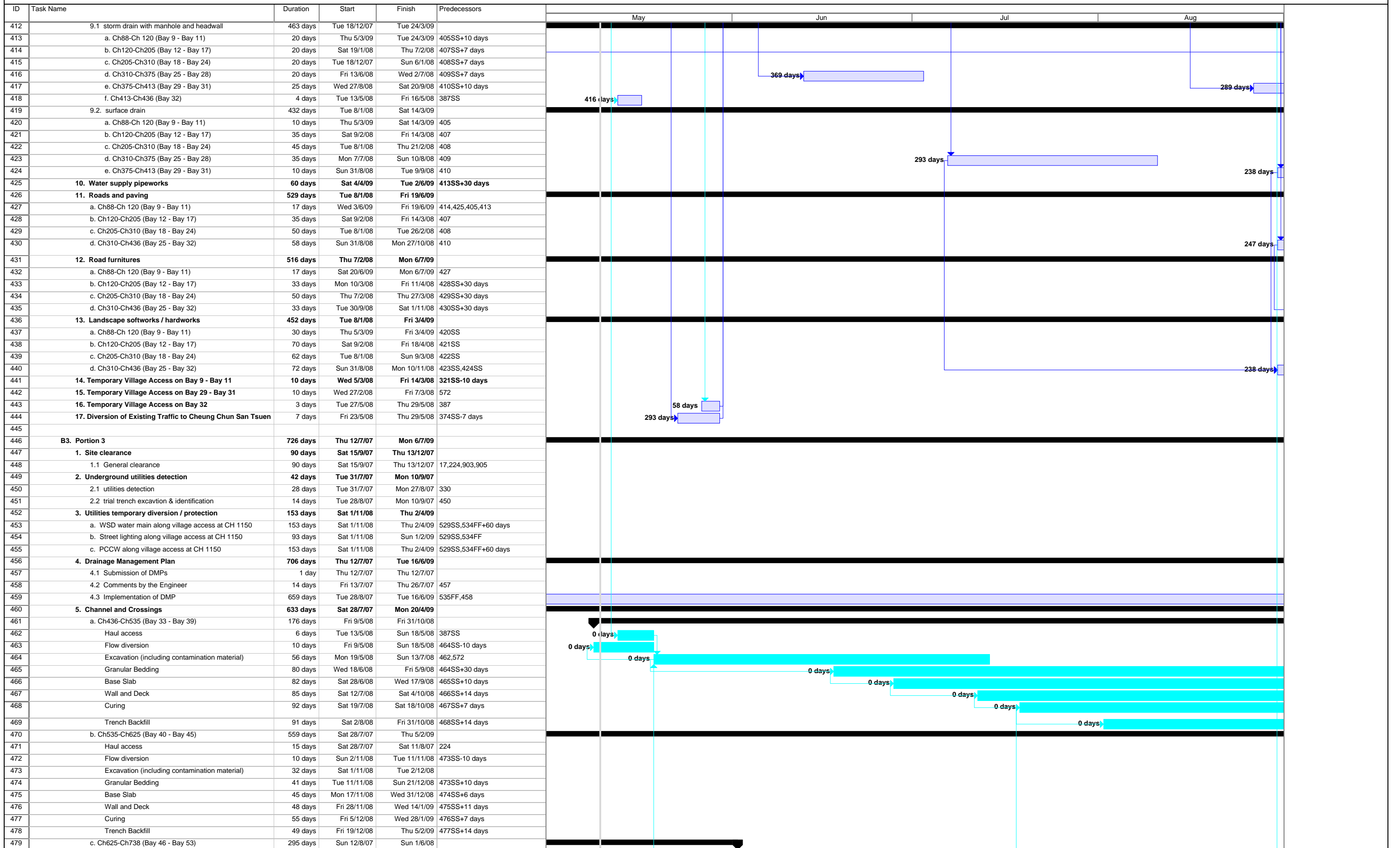


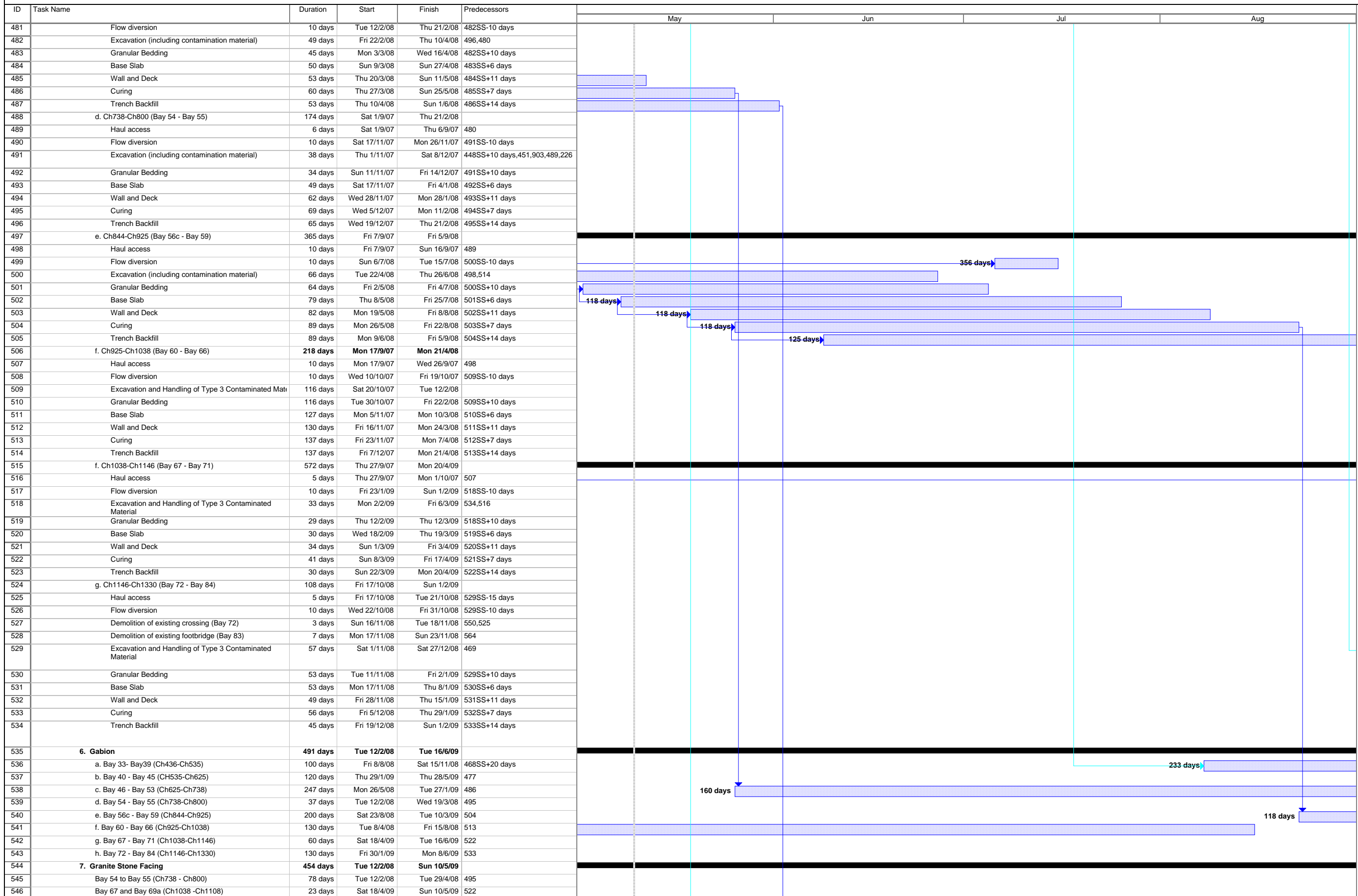
ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
205	a. Submission of technical information	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
206	b. Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	205				
207	10.18 Preservation and protection of existing trees	59 days	Wed 21/3/07	Fri 18/5/07					
208	a. Specialist contractor ( landscaping Class I )	28 days	Fri 30/3/07	Thu 26/4/07					
209	Submission	14 days	Fri 30/3/07	Thu 12/4/07	2SS				
210	Comment & approval	14 days	Fri 13/4/07	Thu 26/4/07	209				
211	b. Site supervisory staff	59 days	Wed 21/3/07	Fri 18/5/07					
212	Submission	45 days	Wed 21/3/07	Fri 4/5/07	1SS				
213	Comment & approval	14 days	Sat 5/5/07	Fri 18/5/07	212				
214	10.19 Concrete ( ready mix )	28 days	Fri 30/3/07	Thu 26/4/07					
215	a. Submission of supplier & design mix	21 days	Fri 30/3/07	Thu 19/4/07	2SS				
216	b. Comment & approval	7 days	Fri 20/4/07	Thu 26/4/07	215				
217	10.20 Steel reinforcement	35 days	Fri 30/3/07	Thu 3/5/07					
218	a. Submission of supplier	28 days	Fri 30/3/07	Thu 26/4/07	2SS				
219	b. Comment & approval	7 days	Fri 27/4/07	Thu 3/5/07	218				
220	10.21 Submissions of method statement / materials	750 days	Tue 15/5/07	Tue 2/6/09					
221	a. Submission of materials	750 days	Tue 15/5/07	Tue 2/6/09	15FS+45 days				
222	b. Submission of method statement	750 days	Tue 15/5/07	Tue 2/6/09	15FS+45 days				
223	<b>11. Provision of wheel washing facilities</b>	<b>180 days</b>	<b>Fri 30/3/07</b>	<b>Tue 25/9/07</b>					
224	11.1 Channel KT2	120 days	Fri 30/3/07	Fri 27/7/07	2SS				
225	11.2 Channel KT15	90 days	Thu 28/6/07	Tue 25/9/07	19FS-1 day				
226	11.3 Berthing area	90 days	Fri 30/3/07	Wed 27/6/07	2SS				
227	11.4 Portion 6	45 days	Fri 30/3/07	Sun 13/5/07	2SS				
228	<b>12. Setting up of traffic management liaison group</b>	<b>30 days</b>	<b>Fri 30/3/07</b>	<b>Sat 28/4/07</b>	<b>2SS</b>				
229									
230	<b>B. Section I of the Works</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
231	<b>B1. Portion 1</b>	<b>790 days</b>	<b>Fri 30/3/07</b>	<b>Wed 27/5/09</b>					
232	<b>1. Site clearance</b>	<b>30 days</b>	<b>Sat 28/7/07</b>	<b>Sun 26/8/07</b>					
233	1.1 General site clearance	30 days	Sat 28/7/07	Sun 26/8/07	36,224,893,891				
234	<b>2. Temporary Traffic Management Scheme</b>	<b>59 days</b>	<b>Fri 30/3/07</b>	<b>Sun 27/5/07</b>					
235	2.1 TTMS Proposal (trial pits in Chi Ho Road for utilities)	59 days	Fri 30/3/07	Sun 27/5/07					
236	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	2SS				
237	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	236				
238	2.2 TTMS Proposal (for construction of box culvert)	59 days	Fri 30/3/07	Sun 27/5/07					
239	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07					
240	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	239				
241	<b>3. Excavation Permits</b>	<b>521 days</b>	<b>Mon 28/5/07</b>	<b>Wed 29/10/08</b>					
242	3.1 application and issue of permit (trial pits in Chi Ho Road)	180 days	Mon 28/5/07	Fri 23/11/07	237				
243	3.2 application and issue of permits (for construction of box culvert)	180 days	Sat 3/5/08	Wed 29/10/08	240				
244	<b>4. Underground utilities detection</b>	<b>253 days</b>	<b>Fri 30/3/07</b>	<b>Fri 7/12/07</b>					
245	4.1 utilities detection	28 days	Fri 30/3/07	Thu 26/4/07	2SS				
246	4.2 trial trench excavation & identification	14 days	Sat 24/11/07	Fri 7/12/07	245,242				
247	<b>5. Utilities temporary diversion / protection</b>	<b>493 days</b>	<b>Thu 27/9/07</b>	<b>Sat 31/1/09</b>					
248	a. WSD watermain along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS				
249	b. Street lighting along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS				
250	c. PCW along village vehicular access	103 days	Wed 7/5/08	Sun 17/8/08	284SS				
251	d. CLP overhead cable at Bay 4	90 days	Thu 7/2/08	Tue 6/5/08	282				
252	e. CH 816-CH841 underground cables (33kV)	42 days	Thu 27/9/07	Wed 7/11/07	259				
253	f. CH 816-CH841 underground cables (132kV)	56 days	Thu 8/11/07	Wed 2/1/08	252				
254	g. Street lighting at Chi Ho Road	92 days	Sat 1/11/08	Sat 31/1/09	264SS,246				
255	h. Irrigation pipe at Chi Ho Road	92 days	Sat 1/11/08	Sat 31/1/09	264SS				
256	<b>6. Drainage Management Plan (Ch810 to Ch850)</b>	<b>77 days</b>	<b>Thu 12/7/07</b>	<b>Wed 26/9/07</b>					
257	6.1 Submission of DMPs	1 day	Thu 12/7/07	Thu 12/7/07					
258	6.2 Comments by the Engineer	14 days	Fri 13/7/07	Thu 26/7/07	257				
259	6.3 Implementation of DMP	3 days	Mon 24/9/07	Wed 26/9/07	258SF				
260	<b>7. Box Culvert and Channel</b>	<b>550 days</b>	<b>Wed 1/8/07</b>	<b>Sat 31/1/09</b>					
261	7.1 Box Culvert BC2-1	550 days	Wed 1/8/07	Sat 31/1/09					
262	a. Ch0-Ch15 (Bay 1 and Outlet)	94 days	Thu 30/10/08	Sat 31/1/09					
263	Remove road pavement and expose existing utility	2 days	Thu 30/10/08	Fri 31/10/08	243,324				
264	Excavation	9 days	Sat 1/11/08	Sun 9/11/08	263				
265	Granular Bedding	5 days	Mon 10/11/08	Fri 14/11/08	264				
266	Base Slab	21 days	Sat 15/11/08	Fri 5/12/08	265				
267	Wall and Deck	31 days	Sat 6/12/08	Mon 5/1/09	266				
268	Curing	14 days	Tue 6/1/09	Mon 19/1/09	267				
269	Trench Backfill	3 days	Tue 20/1/09	Thu 22/1/09	268,390FF,391FF,392FF,395FF,3				
270	Reinstatement of Chi Ho Road	6 days	Mon 26/1/09	Sat 31/1/09	254FF,255FF,308				
271	b. Temporary Bund in AFCD Pond	87 days	Wed 1/8/07	Fri 26/10/07					
272	1. Proposal	31 days	Wed 1/8/07	Fri 31/8/07					

Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary  
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

ID	Task Name	Duration	Start	Finish	Predecessors	May	Jun	Jul	Aug
274	3.Modified chain link fence	11 days	Mon 1/10/07	Thu 11/10/07	273				
275	4. Construction of temporary bund	15 days	Fri 12/10/07	Fri 26/10/07	274				
276	c. Ch15-Ch32 (Bays 2 & 3)	103 days	Sat 27/10/07	Wed 6/2/08					
277	Excavation	25 days	Sat 27/10/07	Tue 20/11/07	275				
278	Granular Bedding	7 days	Wed 21/11/07	Tue 27/11/07	277				
279	Base Slab	18 days	Wed 28/11/07	Sat 15/12/07	278				
280	Wall and Deck	32 days	Sun 16/12/07	Wed 16/1/08	279				
281	Curing	14 days	Thu 17/1/08	Wed 30/1/08	280				
282	Trench Backfill	7 days	Thu 31/1/08	Wed 6/2/08	281				
283	d. Ch32-Ch88 (Bays 4 - 8)	137 days	Wed 7/5/08	Sat 20/9/08					
284	Excavation	50 days	Wed 7/5/08	Wed 25/6/08	251,321				
285	Granular Bedding	60 days	Tue 17/5/08	Tue 15/7/08	284SS+10 days				
286	Base Slab	75 days	Fri 23/5/08	Tue 5/8/08	285SS+6 days				
287	Wall and Deck	87 days	Sun 1/6/08	Tue 26/8/08	286SS+9 days				
288	Curing	85 days	Tue 17/6/08	Tue 9/9/08	287SS+16 days				
289	Trench Backfill	82 days	Tue 1/7/08	Sat 20/9/08	288SS+14 days				
290	7.2 Channel	339 days	Thu 3/1/08	Sat 6/12/08					
291	a. Ch840-Ch844 (Bay 56b)	91 days	Thu 3/1/08	Wed 2/4/08					
292	Excavation (including contamination materials)	25 days	Thu 3/1/08	Sun 27/1/08	253				
293	Granular Bedding	3 days	Mon 28/1/08	Wed 30/1/08	292				
294	Base Slab	22 days	Thu 31/1/08	Thu 21/2/08	293				
295	Wall and Deck	23 days	Fri 22/2/08	Sat 15/3/08	294				
296	Curing	14 days	Sun 16/3/08	Sat 29/3/08	295				
297	Trench Backfill	4 days	Sun 30/3/08	Wed 2/4/08	296				
298	b. Demolition of existing crossing	20 days	Thu 11/9/08	Tue 30/9/08	311				
299	c. Ch800-840 (Bay 56a)	67 days	Wed 1/10/08	Sat 6/12/08					
300	Excavation (including contamination materials)	12 days	Wed 1/10/08	Sun 12/10/08	298				
301	Granular Bedding	3 days	Mon 13/10/08	Wed 15/10/08	300				
302	Base Slab	12 days	Thu 16/10/08	Mon 27/10/08	301				
303	Wall and Deck	22 days	Tue 28/10/08	Tue 18/11/08	302				
304	Curing	26 days	Fri 7/11/08	Tue 2/12/08	303SS+10 days				
305	Trench Backfill	16 days	Fri 21/11/08	Sat 6/12/08	304SS+14 days				
306	<b>8. Filling in Platform</b>	<b>142 days</b>	<b>Sat 6/9/08</b>	<b>Sun 25/1/09</b>					
307	8.1 Box Culvert	127 days	Sun 21/9/08	Sun 25/1/09					
308	a. Ch0-Ch15 (Bay 1 and Outlet)	3 days	Fri 23/1/09	Sun 25/1/09	269				
309	b. Ch15-Ch88 (Bay 2 to Bay 8)	10 days	Sun 21/9/08	Tue 30/9/08	289,248FF,249FF,250FF				
310	8.2 Channel	112 days	Sat 6/9/08	Fri 26/12/08					
311	a. Ch840-Ch844 (Bay 56b)	5 days	Sat 6/9/08	Wed 10/9/08	505,297				
312	b. Ch800-840 (Bay 56a)	20 days	Sun 7/12/08	Fri 26/12/08	305				
313	<b>9. Geotechnical Instrumentation for CLP Pylon</b>	<b>4 days</b>	<b>Mon 24/9/07</b>	<b>Thu 27/9/07</b>					
314	<b>10. Drainage works (except Bays 56a and 56b)</b>	<b>45 days</b>	<b>Wed 1/10/08</b>	<b>Fri 14/11/08</b>					
315	a. storm drain with manhole	30 days	Wed 1/10/08	Thu 30/10/08	309				
316	b. surface drain	45 days	Wed 1/10/08	Fri 14/11/08	309				
317	<b>11. Water supply pipeworks</b>	<b>60 days</b>	<b>Fri 31/10/08</b>	<b>Mon 29/12/08</b>	<b>315SS+30 days</b>				
318	<b>12. Roads and paving (except Bays 56a and 56b)</b>	<b>52 days</b>	<b>Fri 31/10/08</b>	<b>Sun 21/12/08</b>	<b>315</b>				
319	<b>13. Street furnitures / traffic sign / road marking (except Bay</b>	<b>52 days</b>	<b>Sun 30/11/08</b>	<b>Tue 20/1/09</b>	<b>318SS+30 days</b>				
320	<b>14. Landscape softworks / hardworks (except Bays 56a and</b>	<b>84 days</b>	<b>Thu 5/3/09</b>	<b>Wed 27/5/09</b>	<b>437SS,270</b>				
321	<b>15. Diversion of Village Vehicular Access to Bays 9 -11</b>	<b>1 day</b>	<b>Sat 15/3/08</b>	<b>Sat 15/3/08</b>	<b>428,429</b>				
322	<b>16. Road Diversion in Chi Ho Road</b>	<b>8 days</b>	<b>Wed 1/10/08</b>	<b>Wed 8/10/08</b>					
323	a. Construction of temporary road above Box Culvert	7 days	Wed 1/10/08	Tue 7/10/08	309				
324	b. Implementation of road diversion	1 day	Wed 8/10/08	Wed 8/10/08	323				
325									
326	<b>B2. Portion 2</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
327	<b>1. Site clearance</b>	<b>90 days</b>	<b>Tue 14/8/07</b>	<b>Sun 11/11/07</b>					
328	1.1 General clearance	90 days	Tue 14/8/07	Sun 11/11/07	36,897,224,899				
329	<b>2. Underground utilities detection</b>	<b>42 days</b>	<b>Tue 3/7/07</b>	<b>Mon 13/8/07</b>					
330	2.1 utilities detection	28 days	Tue 3/7/07	Mon 30/7/07					
331	2.2 trial trench excavation & identification	14 days	Tue 31/7/07	Mon 13/8/07	330				
332	<b>3. Utilities temporary diversion / protection</b>	<b>463 days</b>	<b>Fri 30/3/07</b>	<b>Fri 4/7/08</b>					
333	a. WSD water main along village vehicular access	90 days	Wed 10/10/07	Mon 7/1/08	349SS				
334	b. Street lighting along village vehicular access	269 days	Wed 10/10/07	Fri 4/7/08	349SS				
335	c. PCW along village vehicular access	245 days	Wed 10/10/07	Tue 10/6/08	349SS				
336	d. CLP overhead cables / street lighting at CH 290 - CH 33	90 days	Fri 30/3/07	Wed 27/6/07					
337	<b>4. Geotechnical Instrumentation for AFCD</b>	<b>6 days</b>	<b>Thu 27/9/07</b>	<b>Tue 2/10/07</b>					
338	<b>5. Discussion with Pond Owner</b>	<b>39 days</b>	<b>Wed 1/8/07</b>	<b>Sat 8/9/07</b>					
339	<b>6. Box Culvert, Channel and Crossings</b>	<b>533 days</b>	<b>Sun 9/9/07</b>	<b>Sun 22/2/09</b>					
340	a. Ch88-Ch120 (Bays 9 - 11)	63 days	Mon 22/12/08	Sun 22/2/09					
341	Excavation	21 days	Mon 22/12/08	Sun 11/1/09	313,337,318				









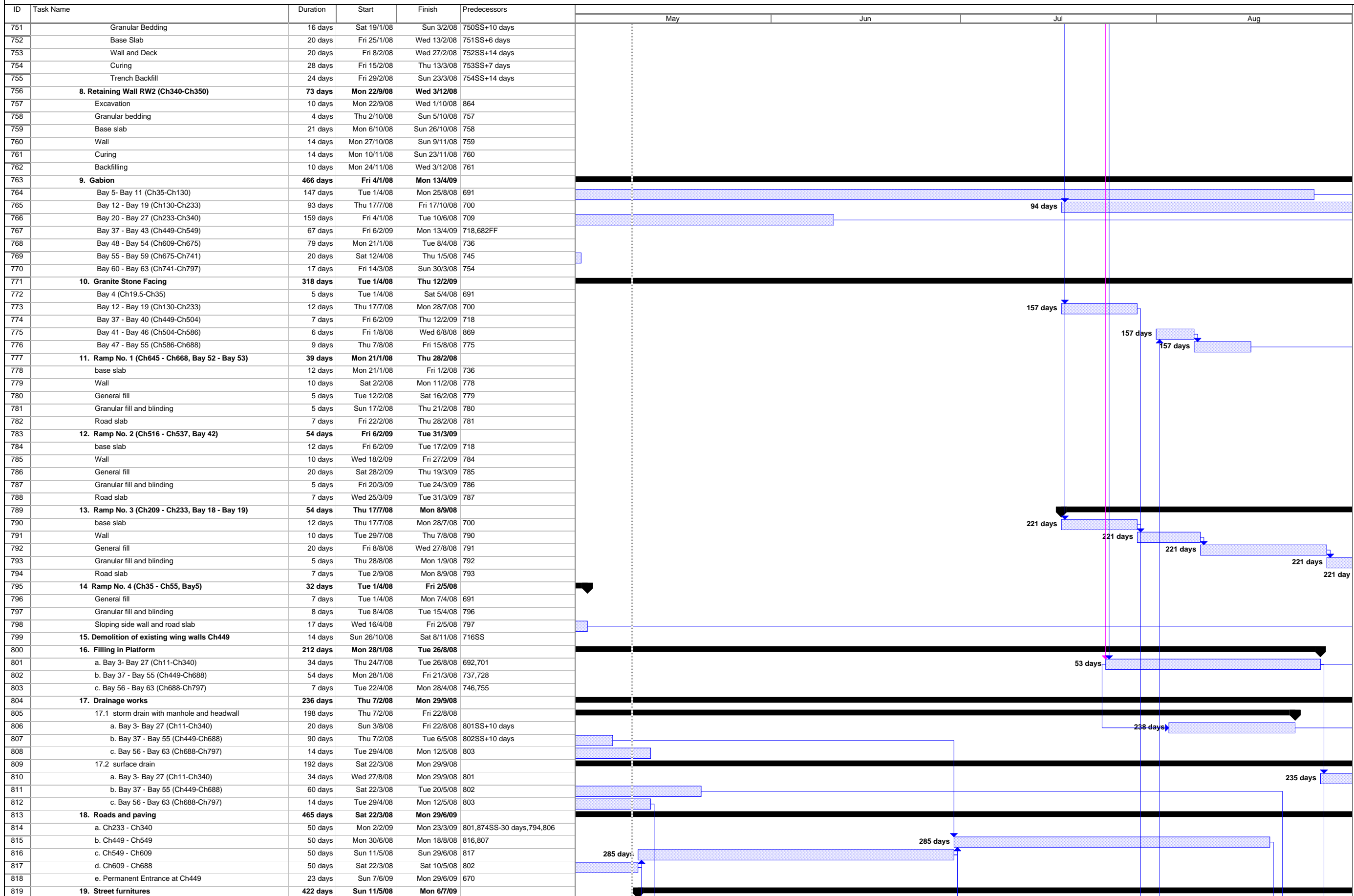
ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
547	Bay 83 and Bay 84 (Ch1301-Ch1330)	7 days	Fri 30/1/09	Thu 5/2/09	533				
548	<b>8. Temp Crossing at Bay 71 (Ch1145)</b>	<b>86 days</b>	<b>Mon 10/11/08</b>	<b>Tue 3/2/09</b>					
549	8.1 Construction	5 days	Mon 10/11/08	Fri 14/11/08	529SS+9 days				
550	8.2 Pedestrian diversion	1 day	Sat 15/11/08	Sat 15/11/08	549				
551	8.3 Demolition of Temp crossing	2 days	Mon 2/2/09	Tue 3/2/09	534				
552	<b>9. Ramp No. 2 (Ch752 - Ch800, Bay 55)</b>	<b>17 days</b>	<b>Tue 12/2/08</b>	<b>Thu 28/2/08</b>					
553	General fill	5 days	Tue 12/2/08	Sat 16/2/08	495				
554	Granular fill and blinding	2 days	Sun 17/2/08	Mon 18/2/08	553				
555	Road slab	10 days	Tue 19/2/08	Thu 28/2/08	554				
556	<b>10. Ramp No. 1 (Ch1052 - Ch1103, Bay 68)</b>	<b>31 days</b>	<b>Sat 18/4/09</b>	<b>Mon 18/5/09</b>					
557	base slab	12 days	Sat 18/4/09	Wed 29/4/09	522,521SS+21 days				
558	Wall	10 days	Thu 30/4/09	Sat 9/5/09	557				
559	General fill	5 days	Sun 10/5/09	Thu 14/5/09	558				
560	Granular fill and blinding	2 days	Fri 15/5/09	Sat 16/5/09	559				
561	Road slab	2 days	Sun 17/5/09	Mon 18/5/09	560				
562	<b>11. Pedestrian Temporary Crossing at Bay 83 (Ch1306)</b>	<b>85 days</b>	<b>Tue 11/11/08</b>	<b>Tue 3/2/09</b>					
563	11.1 Construction	5 days	Tue 11/11/08	Sat 15/11/08	529SS+10 days				
564	11.2 Pedestrian diversion	1 day	Sun 16/11/08	Sun 16/11/08	563				
565	11.3 Demolition of Temp crossing	2 days	Mon 2/2/09	Tue 3/2/09	534				
566	<b>12. Retaining Wall RW1 (Ch430-Ch490)</b>	<b>109 days</b>	<b>Sat 10/11/07</b>	<b>Tue 26/2/08</b>					
567	Excavation	26 days	Sat 10/11/07	Wed 5/12/07	618				
568	Granular bedding	7 days	Thu 6/12/07	Wed 12/12/07	567				
569	Base slab	24 days	Thu 13/12/07	Sat 5/1/08	568				
570	Wall	26 days	Sun 6/1/08	Thu 31/1/08	569				
571	Curing	14 days	Fri 1/2/08	Thu 14/2/08	570				
572	Backfilling	12 days	Fri 15/2/08	Tue 26/2/08	571				
573	<b>13. Filling in Platform</b>	<b>434 days</b>	<b>Fri 22/2/08</b>	<b>Thu 30/4/09</b>					
574	a. Bay 33- Bay39 (Ch436-Ch535)	25 days	Sat 1/11/08	Tue 25/11/08	469				
575	b. Bay 40 - Bay 45 (Ch535-Ch625)	28 days	Fri 6/2/09	Thu 5/3/09	478				
576	c. Bay 46 - Bay 53 (Ch625-Ch738)	28 days	Mon 2/6/08	Sun 29/6/08	487				
577	d. Bay 54 - Bay 55 (Ch738-Ch800)	19 days	Fri 22/2/08	Tue 11/3/08	496,555FF				
578	e. Bay 56c - Bay 59 (Ch844-Ch925)	21 days	Sat 6/9/08	Fri 26/9/08	505				
579	f. Bay 60 - Bay 66 (Ch925-Ch1038)	41 days	Tue 22/4/08	Sun 1/6/08	514				
580	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	10 days	Tue 21/4/09	Thu 30/4/09	523,551				
581	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	14 days	Mon 2/2/09	Sun 15/2/09	534				
582	<b>14. Drainage works</b>	<b>469 days</b>	<b>Mon 3/3/08</b>	<b>Sun 14/6/09</b>					
583	14.1 storm drain with manhole	444 days	Mon 3/3/08	Wed 20/5/09					
584	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Tue 11/11/08	Wed 10/12/08	574SS+10 days				
585	b. Bay 40 - Bay 45 (Ch535-Ch625)	20 days	Mon 16/2/09	Sat 7/3/09	575SS+10 days				
586	c. Bay 46 - Bay 53 (Ch625-Ch738)	20 days	Thu 12/6/08	Tue 1/7/08	576SS+10 days				
587	d. Bay 54 - Bay 55 (Ch738-Ch800)	20 days	Mon 3/3/08	Sat 22/3/08	577SS+10 days				
588	e. Bay 56c - Bay 59 (Ch844-Ch925)	30 days	Thu 27/11/08	Fri 26/12/08	578SS+10 days,312FF				
589	f. Bay 60 - Bay 66 (Ch925-Ch1038)	60 days	Fri 2/5/08	Mon 30/6/08	579SS+10 days				
590	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	20 days	Fri 1/5/09	Wed 20/5/09	580SS+10 days				
591	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	20 days	Thu 12/2/09	Tue 3/3/09	581SS+10 days,565				
592	14.2. surface drain	460 days	Wed 12/3/08	Sun 14/6/09					
593	a. Bay 33- Bay39 (Ch436-Ch535)	45 days	Wed 26/11/08	Fri 9/1/09	574				
594	b. Bay 40 - Bay 45 (Ch535-Ch625)	45 days	Fri 6/3/09	Sun 19/4/09	575				
595	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Mon 30/6/08	Wed 13/8/08	576				
596	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Wed 12/3/08	Fri 25/4/08	577				
597	e. Bay 56c - Bay 59 (Ch844-Ch925)	45 days	Sat 27/9/08	Mon 10/11/08	578				
598	f. Bay 60 - Bay 66 (Ch925-Ch1038)	45 days	Mon 2/6/08	Wed 16/7/08	579				
599	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Fri 1/5/09	Sun 14/6/09	580				
600	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	Mon 16/2/09	Wed 1/4/09	581				
601	<b>15. Roads and paving</b>	<b>276 days</b>	<b>Sat 27/9/08</b>	<b>Mon 29/6/09</b>					
602	a. Ch800-Ch881	60 days	Sat 27/9/08	Tue 25/11/08	578				
603	b. Ch881-CH1037	52 days	Sat 27/12/08	Mon 16/2/09	602,588				
604	c. CH1037-CH1165	60 days	Fri 1/5/09	Mon 29/6/09	580,453,454,455,561FF				
605	<b>16. Street furnitures / traffic sign / road marking</b>	<b>253 days</b>	<b>Mon 27/10/08</b>	<b>Mon 6/7/09</b>					
606	a. Ch800-Ch881	37 days	Mon 27/10/08	Tue 2/12/08	602SS+30 days				
607	b. Ch881-CH1037	37 days	Mon 26/1/09	Tue 3/3/09	603SS+30 days				
608	c. CH1037-CH1165	37 days	Sun 31/5/09	Mon 6/7/09	604SS+30 days				
609	<b>17. Landscape softworks / hardworks</b>	<b>193 days</b>	<b>Fri 26/12/08</b>	<b>Mon 6/7/09</b>					
610	a. Bay 33- Bay39 (Ch436-Ch535)	30 days	Fri 26/12/08	Sat 24/1/09	593SS+30 days,584				
611	b. Bay 40 - Bay 45 (Ch535-Ch625)	45 days	Sun 5/4/09	Tue 19/5/09	594SS+30 days,585				
612	c. Bay 46 - Bay 53 (Ch625-Ch738)	45 days	Tue 24/2/09	Fri 10/4/09	613SF,586,595				
613	d. Bay 54 - Bay 55 (Ch738-Ch800)	45 days	Fri 10/4/09	Mon 25/5/09	614SF,587,596				
614	e. Bay 56c - Bay 59 (Ch844-Ch925)	22 days	Mon 25/5/09	Mon 15/6/09	615				
615	f. Bay 60 - Bay 66 (Ch925-Ch1038)	23 days	Sat 2/5/09	Sun 24/5/09	617				

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
616	g. Bay 67 - Bay 71 (Ch1038-Ch1146)	45 days	Sat 23/5/09	Mon 6/7/09	599SS+22 days				
617	h. Bay 72 - Bay 84 (Ch1146-Ch1330)	45 days	Wed 18/3/09	Fri 1/5/09	600SS+30 days				
618	<b>18. Lower down existing village access</b>	9 days	Thu 1/11/07	Fri 9/11/07					
619	<b>C. Section II of the Works</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
620	<b>C1. Portion 4</b>	<b>812 days</b>	<b>Fri 30/3/07</b>	<b>Thu 18/6/09</b>					
621	<b>1. Site clearance</b>	<b>14 days</b>	<b>Wed 26/9/07</b>	<b>Tue 9/10/07</b>					
622	1.1 General clearance	14 days	Wed 26/9/07	Tue 9/10/07	225,36,909,911				
623	<b>2. Temporary Traffic Management Scheme</b>	<b>60 days</b>	<b>Fri 30/3/07</b>	<b>Mon 28/5/07</b>					
624	2.1 TTMS Proposal (trial pits for utilities and site entrance ir	59 days	Sat 31/3/07	Mon 28/5/07					
625	a. Submission	45 days	Sat 31/3/07	Mon 14/5/07	18				
626	b. comments & approvals by Engineer & TMLG	14 days	Tue 15/5/07	Mon 28/5/07	625				
627	2.2 TTMS Proposal (for construction of box culvert)	59 days	Fri 30/3/07	Sun 27/5/07					
628	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07					
629	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	628				
630	<b>3. Excavation Permits</b>	<b>520 days</b>	<b>Tue 29/5/07</b>	<b>Wed 29/10/08</b>					
631	3.1 application and issue of permit (trial pits for utilities and site entrance in Kam Po Road)	60 days	Tue 29/5/07	Fri 27/7/07	626				
632	3.2 application and issue of permits (for construction of box culvert)	180 days	Sat 3/5/08	Wed 29/10/08	629				
633	<b>4. Underground utilities detection</b>	<b>43 days</b>	<b>Fri 29/6/07</b>	<b>Fri 10/8/07</b>					
634	4.1 utilities detection	28 days	Fri 29/6/07	Fri 27/7/07	635SF-1 day				
635	4.2 trial trench excavation & identification	14 days	Sat 28/7/07	Fri 10/8/07	631				
636	<b>5. Utilities temporary diversion / protection</b>	<b>85 days</b>	<b>Sat 1/11/08</b>	<b>Sat 24/1/09</b>					
637	a. WSD water main along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09	646SS				
638	b. Street lighting along Kam Po Road	85 days	Sat 1/11/08	Sat 24/1/09	646SS				
639	c. DSD storm Drain	85 days	Sat 1/11/08	Sat 24/1/09	646SS				
640	<b>6. Drainage Management Plan</b>	<b>662 days</b>	<b>Fri 30/3/07</b>	<b>Mon 19/1/09</b>					
641	6.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07					
642	6.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	641				
643	6.3 Implementation of DMPs	57 days	Mon 24/11/08	Mon 19/1/09	647,642				
644	<b>7. Box Culvert Ch0-Ch15 (Bay 1 and Outlet)</b>	<b>94 days</b>	<b>Thu 30/10/08</b>	<b>Sat 31/1/09</b>					
645	Remove road pavement and expose existing utilities	2 days	Thu 30/10/08	Fri 31/10/08	635,632,833				
646	Excavation	8 days	Sat 1/11/08	Sat 8/11/08	645,622				
647	Remove existing box culvert	14 days	Mon 10/11/08	Sun 23/11/08	648				
648	flow diversion	1 day	Sun 9/11/08	Sun 9/11/08	646				
649	Granular Bedding	5 days	Fri 14/11/08	Tue 18/11/08	647SS+4 days				
650	Base Slab	18 days	Wed 19/11/08	Sat 6/12/08	649				
651	Wall and Deck	30 days	Sun 7/12/08	Mon 5/1/09	650				
652	Curing	14 days	Tue 6/1/09	Mon 19/1/09	651				
653	Trench Backfill	5 days	Tue 20/1/09	Sat 24/1/09	652,637FF,638FF,639FF,647,764				
654	Reinstatement of Kam Po Road	7 days	Sun 25/1/09	Sat 31/1/09	653				
655	<b>9. Modification to invert level of box culvert at Kam Sheung</b>	<b>45 days</b>	<b>Fri 9/1/09</b>	<b>Sun 22/2/09</b>	<b>716</b>				
656	<b>10. Fill in Platform</b>	<b>30 days</b>	<b>Mon 2/2/09</b>	<b>Tue 3/3/09</b>	<b>653,834</b>				
657	<b>11. Roads and paving</b>	<b>30 days</b>	<b>Wed 4/3/09</b>	<b>Thu 2/4/09</b>	<b>656,798</b>				
658	<b>12. Street furnitures</b>	<b>14 days</b>	<b>Fri 3/4/09</b>	<b>Thu 16/4/09</b>	<b>657</b>				
659	<b>13. Landscape softworks / hardworks</b>	<b>77 days</b>	<b>Fri 3/4/09</b>	<b>Thu 18/6/09</b>	<b>657</b>				
660									
661	<b>C2. Portion 5 and 5C</b>	<b>830 days</b>	<b>Fri 30/3/07</b>	<b>Mon 6/7/09</b>					
662	<b>1. Site clearance</b>	<b>90 days</b>	<b>Thu 20/9/07</b>	<b>Tue 18/12/07</b>					
663	1.1 General clearance	90 days	Thu 20/9/07	Tue 18/12/07	36,225SS+75 days,915,917				
664	<b>2. Temporary Traffic Management Scheme</b>	<b>59 days</b>	<b>Fri 30/3/07</b>	<b>Sun 27/5/07</b>					
665	TTMS Proposal (trial pits for utilities and site entrance in Ka	59 days	Fri 30/3/07	Sun 27/5/07					
666	a. Submission	45 days	Fri 30/3/07	Sun 13/5/07	2SS				
667	b. comments & approvals by Engineer & TMLG	14 days	Mon 14/5/07	Sun 27/5/07	666				
668	<b>3. Excavation Permits</b>	<b>741 days</b>	<b>Mon 28/5/07</b>	<b>Sat 6/6/09</b>					
669	3.1 application and issue of permit (trial pits for utilities and temporary site entrance in Kam Sheung Road)	60 days	Mon 28/5/07	Thu 26/7/07	667				
670	3.2 application and issue of permits (for construction of permanent entrance)	180 days	Tue 9/12/08	Sat 6/6/09	7FS-210 days				
671	<b>4. Underground utilities detection</b>	<b>42 days</b>	<b>Fri 29/6/07</b>	<b>Thu 9/8/07</b>					
672	a. utilities detection	28 days	Fri 29/6/07	Thu 26/7/07	19				
673	b. trial trench excavation & identification	14 days	Fri 27/7/07	Thu 9/8/07	669,672				
674	<b>5. Utilities temporary diversion / protection</b>	<b>553 days</b>	<b>Fri 10/8/07</b>	<b>Thu 12/2/09</b>					
675	a. CLP overhead cables at CH 100 - CH 120	90 days	Fri 10/8/07	Wed 7/11/07	673				
676	b. CLP overhead cables at CH 530 - CH 550	90 days	Fri 10/8/07	Wed 7/11/07	673				
677	c. CLP overhead cables at CH 670 - CH 690	90 days	Fri 10/8/07	Wed 7/11/07	673				
678	d. Gas main at Kam Sheung Road	84 days	Fri 21/11/08	Thu 12/2/09	714SS,719FF				
679	<b>6. Drainage Management Plan</b>	<b>722 days</b>	<b>Fri 30/3/07</b>	<b>Fri 20/3/09</b>					
680	5.1 Submission of DMPs	1 day	Fri 30/3/07	Fri 30/3/07	641SS				
681	5.2 Comments by the Engineer	14 days	Sat 31/3/07	Fri 13/4/07	680				

Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary  
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
682	5.3 Implementation of DMP	581 days	Sat 18/8/07	Fri 20/3/09	704SS,681	[Gantt bar spanning May to Aug]			
683	<b>7. Channel and Crossings</b>	<b>553 days</b>	<b>Fri 10/8/07</b>	<b>Thu 12/2/09</b>		[Gantt bar for summary task]			
684	a. Ch11-Ch130 (Bay 3 - Bay 11)	229 days	Thu 23/8/07	Mon 7/4/08		[Gantt bar for summary task]			
685	Haul access	5 days	Thu 23/8/07	Mon 27/8/07	694	[Gantt bar]			
686	Flow diversion	10 days	Tue 1/1/08	Thu 10/1/08	687SS-10 days	[Gantt bar]			
687	Excavation (including contamination material)	44 days	Fri 11/1/08	Sat 23/2/08	675,685,710	[Gantt bar]			
688	Granular Bedding	40 days	Mon 21/1/08	Fri 29/2/08	687SS+10 days	[Gantt bar]			
689	Base Slab	44 days	Sun 27/1/08	Mon 10/3/08	688SS+6 days	[Gantt bar]			
690	Wall and Deck	37 days	Sun 10/2/08	Mon 17/3/08	689SS+14 days	[Gantt bar]			
691	Curing	44 days	Sun 17/2/08	Mon 31/3/08	690SS+7 days	[Gantt bar]			
692	Trench Backfill	37 days	Sun 2/3/08	Mon 7/4/08	691SS+14 days	[Gantt bar]			
693	b. Ch130-Ch233 (Bay 12 - Bay 19)	341 days	Sat 18/8/07	Wed 23/7/08		[Gantt bar for summary task]			
694	Haul access	5 days	Sat 18/8/07	Wed 22/8/07	703	[Gantt bar]			
695	Flow diversion	10 days	Sat 29/3/08	Mon 7/4/08	696SS-10 days	[Gantt bar]			
696	Excavation (including contamination material)	33 days	Tue 8/4/08	Sat 10/5/08	694,692	[Gantt bar]			
697	Granular Bedding	29 days	Fri 18/4/08	Fri 16/5/08	696SS+10 days	[Gantt bar]			
698	Base Slab	50 days	Thu 24/4/08	Thu 12/6/08	697SS+6 days	[Gantt bar]			
699	Wall and Deck	56 days	Thu 8/5/08	Wed 2/7/08	698SS+14 days	[Gantt bar]			
700	Curing	63 days	Thu 15/5/08	Wed 16/7/08	699SS+7 days	[Gantt bar]			
701	Trench Backfill	56 days	Thu 29/5/08	Wed 23/7/08	700SS+14 days	[Gantt bar]			
702	c. Ch233-Ch340 (Bay 20 - Bay 27)	151 days	Mon 13/8/07	Thu 10/1/08		[Gantt bar for summary task]			
703	Haul access	5 days	Mon 13/8/07	Fri 17/8/07	705SS-15 days	[Gantt bar]			
704	Flow diversion	10 days	Sat 18/8/07	Mon 27/8/07	703	[Gantt bar]			
705	Excavation (including contamination material)	60 days	Tue 28/8/07	Fri 26/10/07		[Gantt bar]			
706	Granular Bedding	70 days	Fri 7/9/07	Thu 15/11/07	705SS+10 days	[Gantt bar]			
707	Base Slab	78 days	Thu 13/9/07	Thu 29/11/07	706SS+6 days	[Gantt bar]			
708	Wall and Deck	85 days	Thu 27/9/07	Thu 20/12/07	707SS+14 days	[Gantt bar]			
709	Curing	92 days	Thu 4/10/07	Thu 3/1/08	708SS+7 days	[Gantt bar]			
710	Trench Backfill	85 days	Thu 18/10/07	Thu 10/1/08	709SS+14 days	[Gantt bar]			
711	d. Ch449-Ch504 (Bay 37 - Bay 40)	553 days	Fri 10/8/07	Thu 12/2/09		[Gantt bar for summary task]			
712	Haul access	5 days	Fri 10/8/07	Tue 14/8/07	673	[Gantt bar]			
713	Flow diversion	10 days	Fri 12/9/08	Sun 21/9/08	714SS-10 days	[Gantt bar]			
714	Excavation (including contamination material)	75 days	Mon 22/9/08	Fri 5/12/08	663,676,712,864	[Gantt bar]			
715	Granular Bedding	75 days	Sun 12/10/08	Thu 25/12/08	714SS+20 days	[Gantt bar]			
716	Base Slab	75 days	Sun 26/10/08	Thu 8/1/09	715SS+14 days	[Gantt bar]			
717	Wall and Deck	75 days	Sun 9/11/08	Thu 22/1/09	716SS+14 days,799	[Gantt bar]			
718	Curing	82 days	Sun 16/11/08	Thu 5/2/09	717SS+7 days	[Gantt bar]			
719	Trench Backfill	75 days	Sun 30/11/08	Thu 12/2/09	718SS+14 days	[Gantt bar]			
720	e. Ch504-Ch586 (Bay 41 - Bay 46)	147 days	Wed 15/8/07	Tue 8/1/08		[Gantt bar for summary task]			
721	Haul access	3 days	Wed 15/8/07	Fri 17/8/07	712	[Gantt bar]			
722	Flow diversion	5 days	Fri 7/9/07	Tue 11/9/07	723SS-10 days	[Gantt bar]			
723	Excavation (including contamination material)	45 days	Mon 17/9/07	Wed 31/10/07		[Gantt bar]			
724	Granular Bedding	55 days	Thu 27/9/07	Tue 20/11/07	723SS+10 days	[Gantt bar]			
725	Base Slab	63 days	Wed 3/10/07	Tue 4/12/07	724SS+6 days	[Gantt bar]			
726	Wall and Deck	63 days	Wed 17/10/07	Tue 18/12/07	725SS+14 days	[Gantt bar]			
727	Curing	70 days	Wed 24/10/07	Tue 1/1/08	726SS+7 days	[Gantt bar]			
728	Trench Backfill	63 days	Wed 7/11/07	Tue 8/1/08	727SS+14 days	[Gantt bar]			
729	f. Ch586-Ch675 (Bay 47 - Bay 54)	163 days	Sat 18/8/07	Sun 27/1/08		[Gantt bar for summary task]			
730	Haul access	5 days	Sat 18/8/07	Wed 22/8/07	721	[Gantt bar]			
731	Flow diversion	3 days	Sat 29/9/07	Mon 1/10/07	732SS-10 days	[Gantt bar]			
732	Excavation (including contamination material)	60 days	Tue 9/10/07	Fri 7/12/07	730,938	[Gantt bar]			
733	Granular Bedding	60 days	Fri 19/10/07	Mon 17/12/07	732SS+10 days	[Gantt bar]			
734	Base Slab	60 days	Thu 25/10/07	Sun 23/12/07	733SS+6 days	[Gantt bar]			
735	Wall and Deck	60 days	Thu 8/11/07	Sun 6/1/08	734SS+14 days	[Gantt bar]			
736	Curing	67 days	Thu 15/11/07	Sun 20/1/08	735SS+7 days	[Gantt bar]			
737	Trench Backfill	60 days	Thu 29/11/07	Sun 27/1/08	736SS+14 days	[Gantt bar]			
738	g. Ch675-Ch741 (Bay 55 - Bay 59)	243 days	Thu 23/8/07	Mon 21/4/08		[Gantt bar for summary task]			
739	Haul access	3 days	Thu 23/8/07	Sat 25/8/07	730	[Gantt bar]			
740	Flow diversion	3 days	Fri 25/1/08	Sun 27/1/08	741SS-3 days	[Gantt bar]			
741	Excavation (including contamination material)	30 days	Mon 28/1/08	Tue 26/2/08	739,737	[Gantt bar]			
742	Granular Bedding	27 days	Thu 7/2/08	Tue 4/3/08	741SS+10 days	[Gantt bar]			
743	Base Slab	31 days	Wed 13/2/08	Fri 14/3/08	742SS+6 days	[Gantt bar]			
744	Wall and Deck	31 days	Wed 27/2/08	Fri 28/3/08	743SS+14 days	[Gantt bar]			
745	Curing	38 days	Wed 5/3/08	Fri 11/4/08	744SS+7 days	[Gantt bar]			
746	Trench Backfill	34 days	Wed 19/3/08	Mon 21/4/08	745SS+14 days	[Gantt bar]			
747	h. Ch741-Ch797 (Bay 60 - Bay 63)	211 days	Sun 26/8/07	Sun 23/3/08		[Gantt bar for summary task]			
748	Haul access	3 days	Sun 26/8/07	Tue 28/8/07	739	[Gantt bar]			
749	Flow diversion	3 days	Sun 6/1/08	Tue 8/1/08	750SS-3 days	[Gantt bar]			
750	Excavation (including contamination material)	20 days	Wed 9/1/08	Mon 28/1/08	748,728	[Gantt bar]			







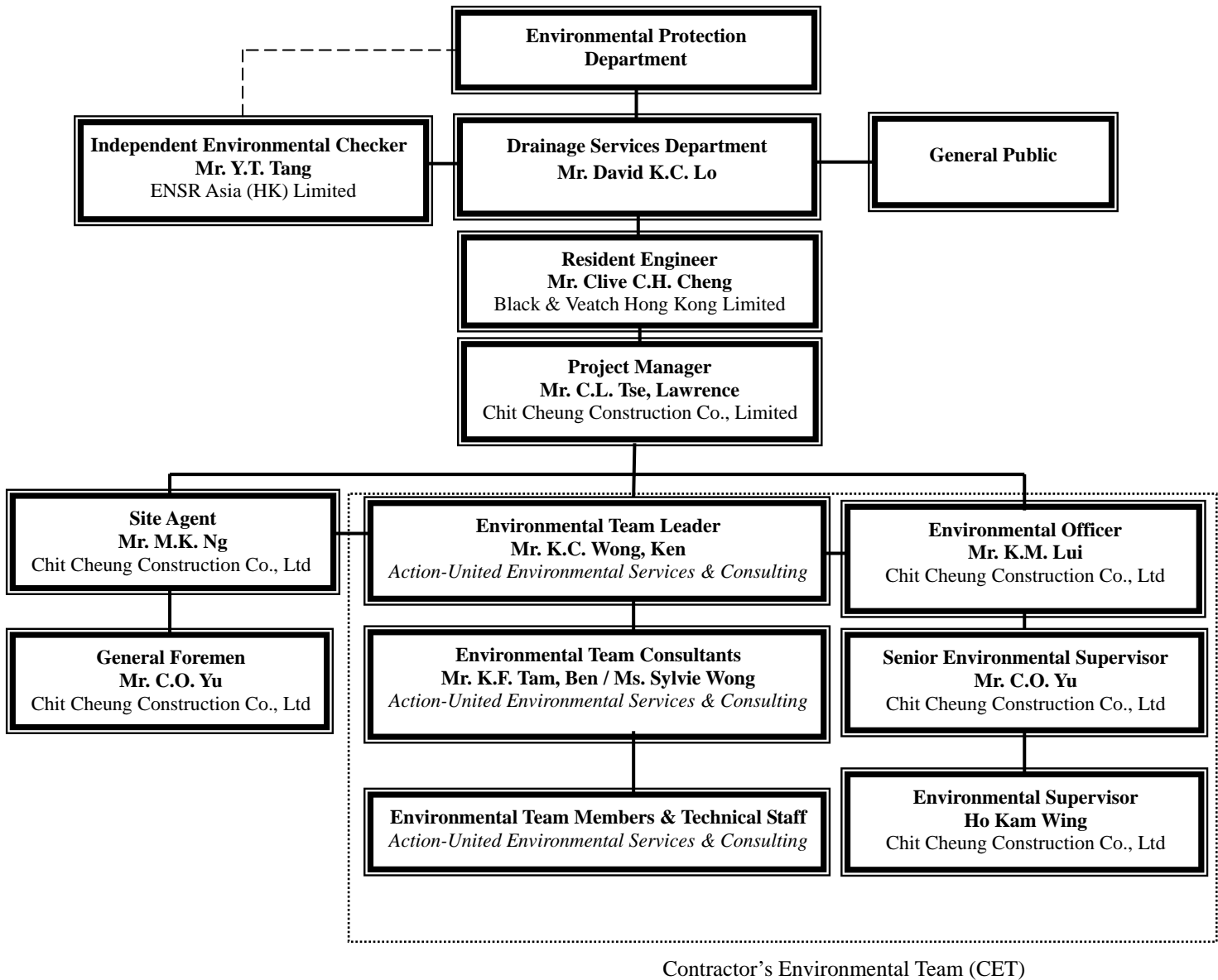
Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary  
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary Deadline

ID	Task Name	Duration	Start	Finish	Predecessors	Gantt Chart			
						May	Jun	Jul	Aug
887	<b>F. Section V of the Works - Preservation and protection to existing trees</b>	<b>804 days</b>	<b>Sat 31/3/07</b>	<b>Thu 11/6/09</b>		[Gantt bar for 887]			
888	<b>1. Portion 1</b>	<b>789 days</b>	<b>Sat 31/3/07</b>	<b>Wed 27/5/09</b>		[Gantt bar for 888]			
889	1.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	15	[Gantt bar for 889]			
890	1.2 Tree transplant	740 days	Sat 19/5/07	Wed 27/5/09		[Gantt bar for 890]			
891	a. To Temp holding nursery	62 days	Sat 19/5/07	Thu 19/7/07	889,213	[Gantt bar for 891]			
892	b. To final location	90 days	Fri 27/2/09	Wed 27/5/09	320FF	[Gantt bar for 892]			
893	1.3 Tree protection	62 days	Sat 19/5/07	Thu 19/7/07	891SS	[Gantt bar for 893]			
894	<b>2. Portion 2</b>	<b>454 days</b>	<b>Wed 30/5/07</b>	<b>Mon 25/8/08</b>		[Gantt bar for 894]			
895	2.1 Tree survey	14 days	Wed 30/5/07	Tue 12/6/07	16	[Gantt bar for 895]			
896	2.2 Tree transplant	440 days	Wed 13/6/07	Mon 25/8/08		[Gantt bar for 896]			
897	a. To Temp holding nursery	62 days	Wed 13/6/07	Mon 13/8/07	895,213,227	[Gantt bar for 897]			
898	b. To final location	231 days	Tue 8/1/08	Mon 25/8/08	436SS	[Gantt bar for 898]			
899	2.3 Tree protection	62 days	Wed 13/6/07	Mon 13/8/07	897SS	[Gantt bar for 899]			
900	<b>3. Portion 3</b>	<b>697 days</b>	<b>Fri 29/6/07</b>	<b>Mon 25/5/09</b>		[Gantt bar for 900]			
901	3.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	17	[Gantt bar for 901]			
902	3.2 Tree transplant	683 days	Fri 13/7/07	Mon 25/5/09		[Gantt bar for 902]			
903	a. To Temp holding nursery	64 days	Fri 13/7/07	Fri 14/9/07	901,213	[Gantt bar for 903]			
904	b. To final location	151 days	Fri 26/12/08	Mon 25/5/09	609SS	[Gantt bar for 904]			
905	3.3 Tree protection	64 days	Fri 13/7/07	Fri 14/9/07	903SS	[Gantt bar for 905]			
906	<b>4. Portion 4</b>	<b>804 days</b>	<b>Sat 31/3/07</b>	<b>Thu 11/6/09</b>		[Gantt bar for 906]			
907	4.1 Tree survey	14 days	Sat 31/3/07	Fri 13/4/07	18	[Gantt bar for 907]			
908	4.2 Tree transplant	755 days	Sat 19/5/07	Thu 11/6/09		[Gantt bar for 908]			
909	a. To Temp holding nursery	62 days	Sat 19/5/07	Thu 19/7/07	907,213	[Gantt bar for 909]			
910	b. To final location	70 days	Fri 3/4/09	Thu 11/6/09	659SS	[Gantt bar for 910]			
911	4.3 Tree protection	62 days	Sat 19/5/07	Thu 19/7/07	909SS	[Gantt bar for 911]			
912	<b>5. Portion 5</b>	<b>559 days</b>	<b>Fri 29/6/07</b>	<b>Wed 7/1/09</b>		[Gantt bar for 912]			
913	5.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	19	[Gantt bar for 913]			
914	5.2 Tree transplant	545 days	Fri 13/7/07	Wed 7/1/09		[Gantt bar for 914]			
915	a. To Temp holding nursery	69 days	Fri 13/7/07	Wed 19/9/07	913,213	[Gantt bar for 915]			
916	b. To final location	240 days	Tue 13/5/08	Wed 7/1/09	825SS	[Gantt bar for 916]			
917	5.3 Tree protection	69 days	Fri 13/7/07	Wed 19/9/07	915SS	[Gantt bar for 917]			
918	<b>6. Portion 5A1</b>	<b>694 days</b>	<b>Fri 29/6/07</b>	<b>Fri 22/5/09</b>		[Gantt bar for 918]			
919	6.1 Tree survey	7 days	Fri 29/6/07	Thu 5/7/07	20	[Gantt bar for 919]			
920	6.2 Tree transplant	687 days	Fri 6/7/07	Fri 22/5/09		[Gantt bar for 920]			
921	a. To Temp holding nursery	62 days	Fri 6/7/07	Wed 5/9/07	919,213	[Gantt bar for 921]			
922	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	[Gantt bar for 922]			
923	6.3 Tree protection	62 days	Fri 6/7/07	Wed 5/9/07	921SS	[Gantt bar for 923]			
924	<b>7. Portion 5A2</b>	<b>694 days</b>	<b>Fri 29/6/07</b>	<b>Fri 22/5/09</b>		[Gantt bar for 924]			
925	7.1 Tree survey	14 days	Fri 29/6/07	Thu 12/7/07	21	[Gantt bar for 925]			
926	7.2 Tree transplant	680 days	Fri 13/7/07	Fri 22/5/09		[Gantt bar for 926]			
927	a. To Temp holding nursery	62 days	Fri 13/7/07	Wed 12/9/07	925,213	[Gantt bar for 927]			
928	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	[Gantt bar for 928]			
929	7.3 Tree protection	62 days	Fri 13/7/07	Wed 12/9/07	927SS	[Gantt bar for 929]			
930	<b>8. Portion 5B</b>	<b>585 days</b>	<b>Tue 16/10/07</b>	<b>Fri 22/5/09</b>		[Gantt bar for 930]			
931	8.1 Tree survey	14 days	Tue 16/10/07	Mon 29/10/07	22	[Gantt bar for 931]			
932	8.2 Tree transplant	571 days	Tue 30/10/07	Fri 22/5/09		[Gantt bar for 932]			
933	a. To Temp holding nursery	62 days	Tue 30/10/07	Sun 30/12/07	931,213	[Gantt bar for 933]			
934	b. To final location	60 days	Tue 24/3/09	Fri 22/5/09	877SS	[Gantt bar for 934]			
935	8.3 Tree protection	62 days	Tue 30/10/07	Sun 30/12/07	933SS	[Gantt bar for 935]			
936									
937	<b>G. Berthing Area</b>	<b>148 days</b>	<b>Wed 12/9/07</b>	<b>Wed 6/2/08</b>		[Gantt bar for 937]			
938	<b>1. Construction of Loading Facilities</b>	<b>27 days</b>	<b>Wed 12/9/07</b>	<b>Mon 8/10/07</b>	162	[Gantt bar for 938]			
939	<b>2. Removal of Loading Facilities</b>	<b>2 days</b>	<b>Tue 29/1/08</b>	<b>Wed 30/1/08</b>	750,73	[Gantt bar for 939]			
940	<b>3. Reinstatement of Berthing Area</b>	<b>7 days</b>	<b>Thu 31/1/08</b>	<b>Wed 6/2/08</b>	939	[Gantt bar for 940]			

## **Appendix C**

### **Environmental Organization Structure**

### Environmental Organization Structure



**Contact Details of Key Personnel**

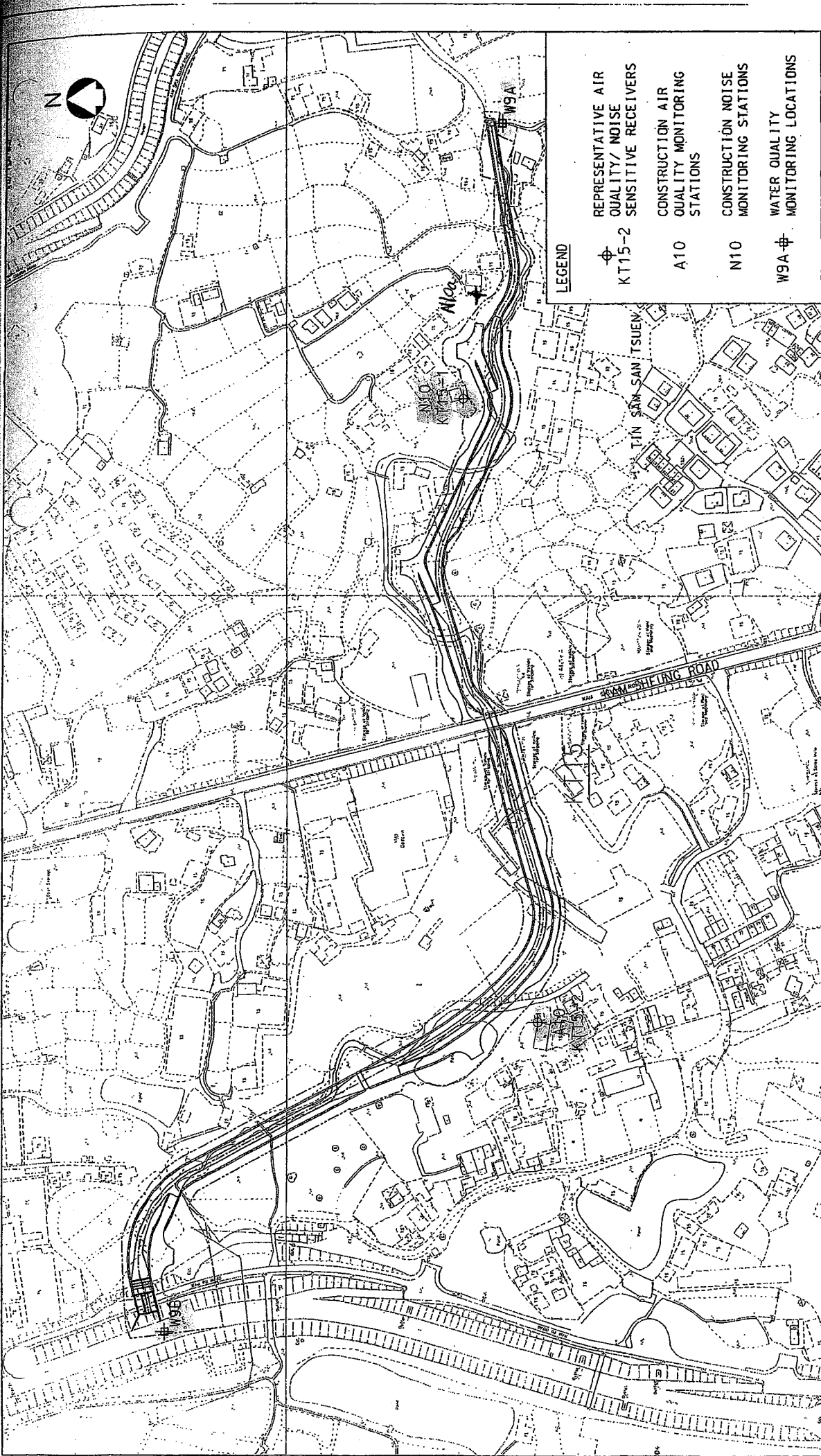
Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. David K.C. LO	2594-7254	2827-8526
B&V	Engineer	Mr. Kelvin N.F. LAU	2601-1000	2601-3988
B&V	Engineer's Representative	Mr. Clive C.H. CHENG	2443-1442	2443-7307
ENSR	Independent Environmental Checker	Mr. Y.T. Tang	3105-8537	2891-0305
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	Ho Kam Wing	9016-0592	2479-1365
CCC	Safety Officer	Mr. SHEA Yan Keung	6086-4658	2479-1365
AUES	Environmental Team Leader	Ken Wong	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Ben Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Ben Tam/Sylvie Wong	2959-6059	2959-6079
AUES	Ecologist	Vincent Lai	9406-9784	2959-6079
AUES	Decontamination Specialist	FN Wong	2959-6059	2959-6079

Legend:

DSD (Employer)	-	Drainage Services Department
B&V (Engineer)	-	Black & Veatch Hong Kong Limited
CCC (Contractor)	-	Chit Cheung Construction Company Limited.
ENSR (IEC)	-	ENSR Asia (HK) Ltd.
AUES (ET)	-	Action-United Environmental Services & Consulting

## **Appendix D**

### **Locations of Designated Monitoring Station/Locations/Area**



**LEGEND**

- ⊕ REPRESENTATIVE AIR QUALITY/ NOISE SENSITIVE RECEIVERS  
KT15-2
- A10 CONSTRUCTION AIR QUALITY MONITORING STATIONS
- N10 CONSTRUCTION NOISE MONITORING STATIONS
- W9A ⊕ WATER QUALITY MONITORING LOCATIONS

Figure No.	ATT4-4.3	Revision	-
Reference	-	File Name	3820470201-137.DGN
Prepared	WYC	Checked	MC
Date	DEC. 2002	Scale	1 : 2000

**CONSTRUCTION PHASE AIR QUALITY/NOISE/WATER QUALITY  
MONITORING LOCATIONS AT KT15**

Title :

YUEN LONG, KAM TIN,  
NGAU TAM MEI AND TIN SHUI WAI  
DRAINAGE IMPROVEMENT, STAGE I, PHASE 2B



**BLACK & VEATCH HONG KONG LIMITED**  
博威工程顧問有限公司



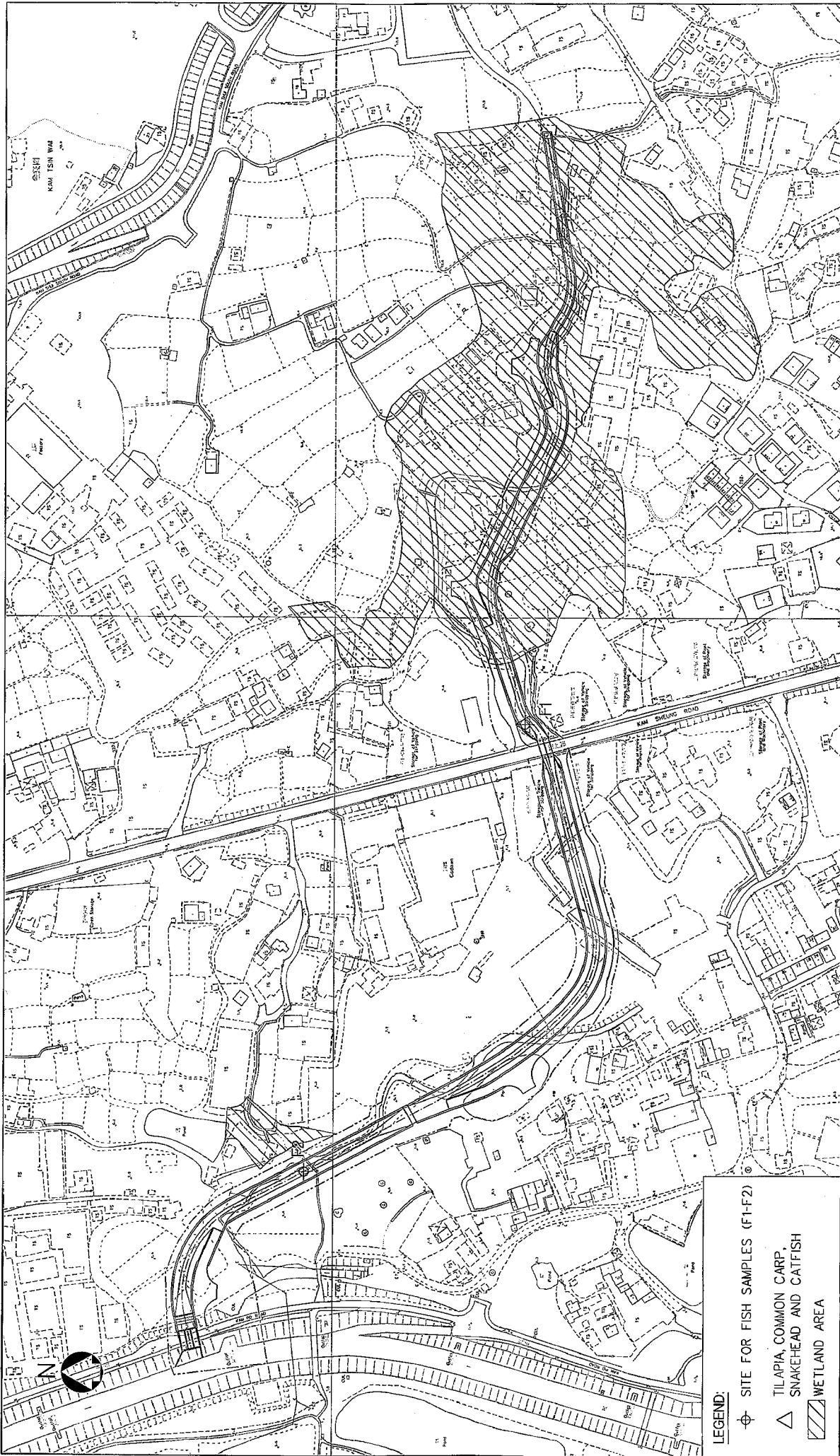


Figure No.	3.3	Revision	0
Reference		File Name	3820470201-114.DGN
Prepared	AEC	Checked	WYC
Date	MAR. 2003	Scale	1 : 2000


Title :

**ECOLOGICAL MONITORING AREA KT15**

**LEGEND:**

- ⊕ SITE FOR FISH SAMPLES (F1-F2)
- △ TILAPIA, COMMON CARP, SNAKEHEAD AND CATFISH
- ▨ WETLAND AREA

YUEN LONG, KAM TIN,  
NGAU TAM MEI AND TIN SHUIWAI  
DRAINAGE IMPROVEMENT, STAGE1, PHASE 2B

 **BLACK & VEATCH HONG KONG LIMITED**  
博威工程顧問有限公司

## **Appendix E**

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

**Event/Action Plan for Air Quality**

EVENT	ACTION			
	ET	IEC	Engineer	Contractor
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source</li> <li>Inform IEC and Engineer</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> </ol>	Notify Contractor	<ol style="list-style-type: none"> <li>Rectify any unacceptable practice</li> <li>Amend working methods if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Identify source</li> <li>Inform IEC and Engineer</li> <li>Repeat measurements to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Discuss with IEC and Contractor on remedial actions required</li> <li>If exceedance continues, arrange meeting with IEC and Engineer</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advice Engineer on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source</li> <li>Inform Engineer and EPD</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advice Engineer on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Notify IEC, Engineer and EPD</li> <li>Identify source</li> <li>Repeat measurement to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Arrange meeting with IEC and Engineer to discuss the remedial actions to be taken</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>Discuss amongst Engineer, ET and Contractor on potential remedial actions</li> <li>Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>Discuss amongst Environmental Team Leader and the Contractor potential remedial actions</li> <li>Ensure remedial measures properly implemented</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol>	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Resubmit proposals if problem still not under control</li> <li>Stop the relevant portion of works as determined by the Engineer until the exceedance is abated</li> </ol>

**Event/Action Plan for Construction Noise**

EVENT	ACTION			
	ET Leader	IEC	Engineer	Contractor
<b>ACTION LEVEL</b>	<ol style="list-style-type: none"> <li>1. Notify Contractor and Engineer</li> <li>2. Carry out investigation</li> <li>3. Report the results of investigation to the IEC and Contractor</li> <li>4. Discuss with the Contractor and formulate remedial measures</li> <li>5. Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by ET</li> <li>2. Review the proposed remedial measures by the Contractor and advice the Engineer accordingly</li> <li>3. Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify Contractor</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem</li> <li>4. Ensure remedial measures properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals for remedial actions to IEC</li> <li>2. Implement the agreed proposals</li> </ol>
<b>LIMIT LEVEL</b>	<ol style="list-style-type: none"> <li>1. Notify IEC, Engineer, EPD and Contractor</li> <li>2. Identify source</li> <li>3. Repeat measurement to confirm findings</li> <li>4. Increase monitoring frequency</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented</li> <li>6. Inform IEC, Engineer and EPD the causes &amp; actions taken for the exceedances</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and Engineer informed of the results</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst Engineer, ET and Contractor on potential remedial actions</li> <li>2. Review Contractor's remedial actions whether necessary to assure their effectiveness and advice the Engineer accordingly</li> <li>3. Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify Contractor</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem</li> <li>4. Ensure remedial measures properly implemented</li> <li>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Resubmit proposals if problem still not under control</li> <li>5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated</li> </ol>

### Event and Action Plan for Stream Water Quality

Event	ET Leader	IEC	Engineer	Contractor
<b>ACTION LEVEL</b> (being exceeded by one sampling day)	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC and Contractor</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC and Contractor</li> <li>Repeat measurement on next day of exceedance</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures</li> <li>Make agreement on the mitigation measures to be implemented</li> </ol>	<ol style="list-style-type: none"> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET and Contractor and propose mitigation measures to IEC and Engineer</li> <li>Implement the agreed mitigation measures</li> </ol>
<b>ACTION LEVEL</b> (being exceeded by more than one sampling day)	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC, Contractor and EPD</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC, Engineer and Contractor</li> <li>Repeat measurement on next day of exceedance</li> <li>Ensure mitigation measures are implemented</li> <li>Prepare to increase the monitoring frequency to daily</li> <li>Repeat measurement on next day of exceedance</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and Engineer within 3 working days</li> <li>Implement the agreed mitigation measures</li> </ol>
<b>LIMIT LEVEL</b> (being exceeded by one sampling days)	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings</li> <li>Identify source(s) of impact</li> <li>Inform IEC, Contractor and EPD</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods</li> <li>Discuss mitigation measures IEC, Engineer and Contractor</li> <li>Ensure mitigation measures are implemented</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures</li> <li>Request Contractor to critically review the working methods</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days</li> <li>Implement the agreed mitigation measures</li> </ol>
<b>LIMIT LEVEL</b> (being exceeded by more than one sampling days)	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform Contractor, Engineer, IEC and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, Engineer and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures</li> <li>Request Contractor to critically review the working methods</li> <li>Make agreement on the mitigation measures to be implemented</li> <li>Assess the effectiveness of the implemented mitigation measures</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until daily until no exceedance of Limit level</li> </ol>	<ol style="list-style-type: none"> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Rectify unacceptable practice</li> <li>Check all plant and equipment</li> <li>Consider changes of working methods</li> <li>Discuss with ET, IEC and Engineer and propose mitigation measures to IEC and Engineer within 3 working days</li> <li>Propose mitigation measures to Engineer within 3 working days</li> <li>Implement the agreed mitigation measures;</li> <li>As directed by Engineer, to slow down or to stop all or part of the construction activities</li> </ol>

**Event/Action Plan for Ecology**

Event	ET Leader	IEC	Engineer	Contractor
<p><b>Fauna</b></p> <p>The total number of species or individuals of the surveyed wetland dependent faunal groups is reduced by 20-40% from baseline</p>	<ul style="list-style-type: none"> <li>Notify IEC and Contractor;</li> <li>Check the position and state of the current works to identify the causes;</li> <li>Discuss mitigation measures with IEC and Contractor</li> </ul>	<ul style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures</li> <li>Review proposals on mitigation measures submitted by Contractor and advice Engineer accordingly</li> <li>Assess the effectiveness of the implemented mitigation measures</li> </ul>	<ul style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Reach agreement on the mitigation measures to be implemented</li> </ul>	<ul style="list-style-type: none"> <li>Inform Engineer and confirm notification of the non-compliance in writing</li> <li>Take immediate action to avoid further exceedances;</li> <li>Check all plant and equipment and working methods, especially noise emanating ones</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and Engineer</li> <li>Implement the agreed mitigation measures</li> </ul>

## **Appendix F**

### **Equipment Calibration Certificates**



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

Items	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1	Air	Greasby Anderson GMWS2310 High Volume Sampler	07 Mar 08	07 May 08
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	25 Apr 07	25 Apr 08
5*		Bruel & Kjaer 2238 Integrating Sound Level Meter	25 Apr 07	25 Apr 08
6*	Water	YSI 550A DO Meter (Serial No. 05F2063AZ)	12 Jan 08	12 Apr 08
7*		YSI 550A DO Meter (Serial No. 05F2063AZ)	15 Apr 08	15 Jul 08
8*		Hanna HI 98128 (Serial No. 229924)	15 Jan 08	15 Apr 08
9*		Hanna HI 98128 (Serial No. 388220)	28 Mar 08	28 Jun 08
10*		Hach 2100p (Serial No. 950900008735)	11 Jan 08	11 Apr 08
11*		Hach 2100p (Serial No. 011100024331)	08 Apr 08	08 Jul 08
12*		ATAGO refractometer (Serial No. 289468)	11 Jan 08	11 Apr 08
13*	ATAGO refractometer (Serial No. 289468)	15 Apr 08	15 Jul 08	

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

## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Tin Sam San Tsuen	Date of Calibration: 7-Mar-08
Location ID : A10	Next Calibration Date: 7-May-08
	Technician: Mr. Ben Tam

### CONDITIONS

Sea Level Pressure (hPa)	1020.8	Corrected Pressure (mm Hg)	765.6
Temperature (°C)	19.1	Temperature (K)	292

### CALIBRATION ORIFICE

Make-> TISCH	Qstd Slope ->
Model-> 515N	Qstd Intercept ->
Serial # -> 9833620	1.94872
	0.00202

### CALIBRATION

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	4.4	4.4	8.8	1.542	52	53.25	Slope = 47.3563 Intercept = -18.8547 Corr. coeff. = 0.9977
13	3.2	3.2	6.4	1.315	43	44.03	
10	2.4	2.4	4.8	1.139	35	35.84	
7	1.5	1.5	3	0.900	24	24.57	
5	1.1	1.1	2.2	0.771	16	16.38	

**Calculations :**

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

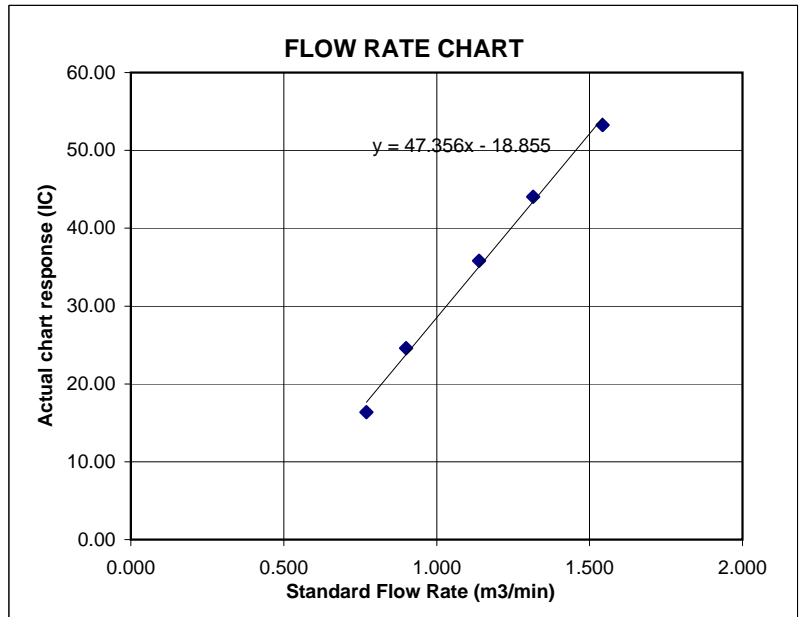
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate  
 IC = corrected chart responses  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration ( deg K )  
 Pstd = actual pressure during calibration ( mm Hg )

**For subsequent calculation of sampler flow:**

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope  
 b = sampler intercept  
 I = chart response  
 Tav = daily average temperature  
 Pav = daily average pressure



## Equipment Calibration Record

### Equipment Calibrated:

Type: Laser Dust monitor  
 Manufacturer: Sibata  
 Serial No. 362337  
 Equipment Ref: EQ094  
 Sensitivity 722 CPM

### Standard Equipment:

Standard Equipment: Higher Volume Sampler  
 Location & Location ID: Au Tau abutment next to Yoho Town Phase 2  
 Equipment Ref: AM 7  
 Last Calibration Date: 20 May 2007

### Equipment Calibration Results:

Calibration Date: 22 June 2007

Hour	Time	Temp °C	RH %	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1	13:12 ~ 14:12	32.3	74	0.133	3613	60.2
1	14:15 ~ 15:15	31.7	77	0.139	3872	64.5
1	15:20 ~ 16:20	31.3	79	0.122	3204	53.4

Sensitivity Adjustment Scale Setting (Before Calibration) 722 (CPM)

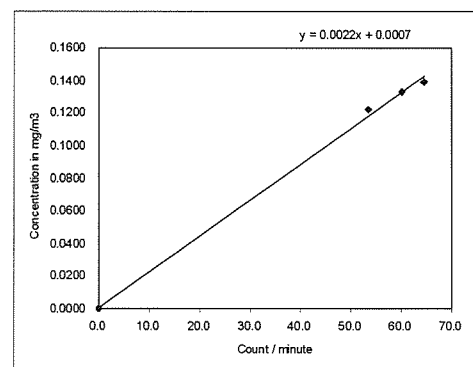
Sensitivity Adjustment Scale Setting (After Calibration) 722 (CPM)

### Linear Regression of Y or X

Slope (K-factor): 0.0022

Correlation Coefficient 0.9987

Validity of Calibration Record 25 June 2007



Operator: Ben Tam Signature: [Signature] Date: 25 June 2007

QC Reviewer: [Signature] Signature: [Signature] Date: 25 June 2007

## Equipment Calibration Record

### Equipment Calibrated:

Type: Laser Dust monitor  
 Manufacturer: Sibata  
 Serial No. 362359  
 Equipment Ref: EQ096  
 Sensitivity 769 CPM

### Standard Equipment:

Standard Equipment: Higher Volume Sampler  
 Location & Location ID: Au Tau abutment next to Yoho Town Phase 2  
 Equipment Ref: AM 7  
 Last Calibration Date: 20 May 2007

### Equipment Calibration Results:

Calibration Date: 22 June 2007

Hour	Time	Temp °C	RH %	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1	13:12 ~ 14:12	32.3	74	0.133	3603	60.1
1	14:15 ~ 15:15	31.7	77	0.139	3930	65.5
1	15:20 ~ 16:20	31.3	79	0.122	3311	55.2

Sensitivity Adjustment Scale Setting (Before Calibration) 709 (CPM)

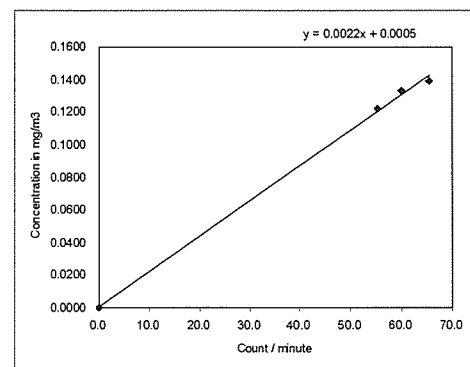
Sensitivity Adjustment Scale Setting (After Calibration) 709 (CPM)

### Linear Regression of Y or X

Slope (K-factor): 0.0021

Correlation Coefficient 0.9990

Validity of Calibration Record 25 June 2007



Operator: Ben Tam Signature: [Signature] Date: 25 June 2007

QC Reviewer: Ken Wong Signature: [Signature] Date: 25 June 2007



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C071935

## Certificate of Calibration

*This is to certify that the equipment*

*Description : Integrating Sound Level Meter (EQ065)*

*Manufacturer : Bruel & Kjaer*

*Model No. : 2238*

*Serial No. : 2337676*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C071935.*

*The equipment is supplied by*

*Co. Name : Action-United Environmental Services and Consulting*

*Address : Unit A, 20/F., Gold King Industrial Building,  
35-41 Tai Lin Pai Road, Kwai Chung, N.T.*

*Date of Issue : 25 April 2007*

*Certified by :*

*K C Lee*

The test equipment used for testing are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong  
Tel: 2927 2606 Fax: 2744 8936 E-mail: callab@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C071922

## Certificate of Calibration

*This is to certify that the equipment*

*Description : Acoustical Calibrator (EQ016)*

*Manufacturer : Bruel & Kjaer*

*Model No. : 4231*

*Serial No. : 2292167*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C071922.*

*The equipment is supplied by*

*Co. Name : Action-United Environmental Services and Consulting*

*Address : Unit A, 20/F., Gold King Industrial Building,  
35-41 Tai Lin Pai Road, Kwai Chung, N.T.*

*Date of Issue : 25 April 2007*

*Certified by :*

*K/C Lee*

The test equipment used for testing are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

# CERTIFICATE OF ANALYSIS



Batch: HK0800538  
Date of Issue: 14/01/2008  
Client: ACTION UNITED ENVIRO SERVICES  
Client Reference:

## Calibration of DO System

Item : YSI Multimeter  
Model No. : YSI 550A  
Serial No. : 05F2063AZ  
Equipment No. : --  
Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-OC & G  
Date of Calibration : 12 January, 2008

### Testing Results :

Expected Reading	Recording Reading
0.00 mg/L	0.00 mg/L
3.22 mg/L	3.25 mg/L
5.45 mg/L	5.38 mg/L
8.83 mg/L	8.64 mg/L
Allowing Deviation	±0.2 mg/L

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS

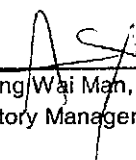


Batch: HK0805800  
Date of Issue: 17/04/2008  
Client: ACTION UNITED ENVIRO SERVICES  
Client Reference:

## Calibration of DO System

Item : YSI Multimeter  
Model No. : YSI 550A  
Serial No. : 05F2063AZ  
Equipment No.: - -  
Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-OC & G  
Date of Calibration : 15 April, 2008.  
Testing Results :

Expected Reading	Recording Reading
6.71 mg/L	6.79 mg/L
7.72 mg/L	7.76 mg/L
8.55 mg/L	8.58 mg/L
Allowing Deviation	±0.2 mg/L

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong



# CERTIFICATE OF ANALYSIS




Batch: HK0800542  
Date of Issue: 15/01/2008  
Client: ACTION UNITED ENVIRO SERVICES  
Client Reference:

## Calibration of pH System

Item : HANNA pH Meter  
Model No. : HI98128  
Serial No. : S229924  
Equipment No. : EQ110  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H  
Date of Calibration : 15 January, 2008

### Testing Results :

Expected Reading	Recording Reading
4.00	4.1
7.00	7.0
10.0	10.2
Allowing Deviation	$\pm 0.2$

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



Batch: HK0804804  
Date of Issue: 28/03/2008  
Client: ACTION UNITED ENVIRO SERVICES  
Client Reference:

## Calibration of pH System

Item : HANNA pH Meter  
Model No. : HI98107  
Serial No. : S388220  
Equipment No. : 0800542  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 4500-H  
Date of Calibration : 28 March, 2008

### Testing Results :

Expected Reading	Recording Reading
4.01	3.9
7.01	7.0
10.0	9.9
Allowing Deviation	+ 0.2

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



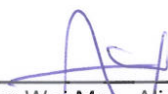
**Batch:** HK0800539  
**Date of Issue:** 14/01/2008  
**Client:** ACTION UNITED ENVIRO SERVICES  
**Client Reference:**

## Calibration of Turbidimeter

**Item :** HACH Turbidimeter  
**Model No. :** HACH 2100P  
**Serial No. :** 950900008735  
**Equipment No. :** EQ091  
**Calibration Method :** This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B  
**Date of Calibration :** 11 January, 2008

## Testing Results :

Expected Reading	Recording Reading
0.0 NTU	0.1 NTU
4.0 NTU	3.8 NTU
16.0 NTU	17.1 NTU
40.0 NTU	38.8 NTU
80.0 NTU	83.8 NTU
Allowing Deviation	±10%

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



Batch: --  
Sub Batch : --  
Date of Issue: 06/05/2008  
Client: ALS Technichem HK PTY LTD  
Client Reference: --

## Calibration of Turbidimeter

Item : HACH Turbidimeter  
Model No. : HACH 2100P  
Serial No. : 011100024331  
Equipment No. : HK144  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B  
Date of Calibration : 08 April, 2008

### Testing Results :

Expected Reading	Recording Reading
0.00 NTU	0.08 NTU
4.00 NTU	4.36 NTU
16.0 NTU	15.9 NTU
40.0 NTU	41.2 NTU
80.0 NTU	76.3 NTU
Allowing Deviation	±10%

  
Mr Ivan Leung  
Customer Services

# CERTIFICATE OF ANALYSIS



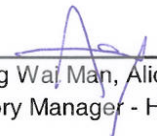
**Batch:** HK0800541  
**Date of Issue:** 14/01/2008  
**Client:** ACTION UNITED ENVIRO SERVICES  
**Client Reference:**

## Calibration of Salinity System

**Item :** HAND REFRACTOMETER  
**Model No. :** ATAGO  
**Serial No. :** 289468  
**Equipment No. :** EQ114  
**Calibration Method :** This meter was calibrated in accordance with standard method APHA (19th Ed.) 2520 A and B  
**Date of Calibration :** 11 January, 2008

### Testing Results :

Expected Reading	Recording Reading
10 g/L	10 g/L
20 g/L	20 g/L
30 g/L	30 g/L
Allowing Deviation	±10%

  
Ms Wong Wa Man, Alice  
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS



Batch: HK0805801  
Date of Issue: 17/04/2008  
Client: ACTION UNITED ENVIRO SERVICES  
Client Reference:

## Calibration of Salinity System

Item : HAND REFRACTOMETER  
Model No. : ATAGO  
Serial No. : 289468  
Equipment No. : EQ114  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2520 A and B  
Date of Calibration : 15 April, 2008.

### Testing Results :

Expected Reading	Recording Reading
10 g/L	10 g/L
20 g/L	18 g/L
30 g/L	28 g/L
Allowing Deviation	±10%

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

## **Appendix G**

### **Impact Monitoring Schedules**



**Impact Monitoring Schedules in this Reporting Period**

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

	Monitoring Day
	Sunday or Public Holiday

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

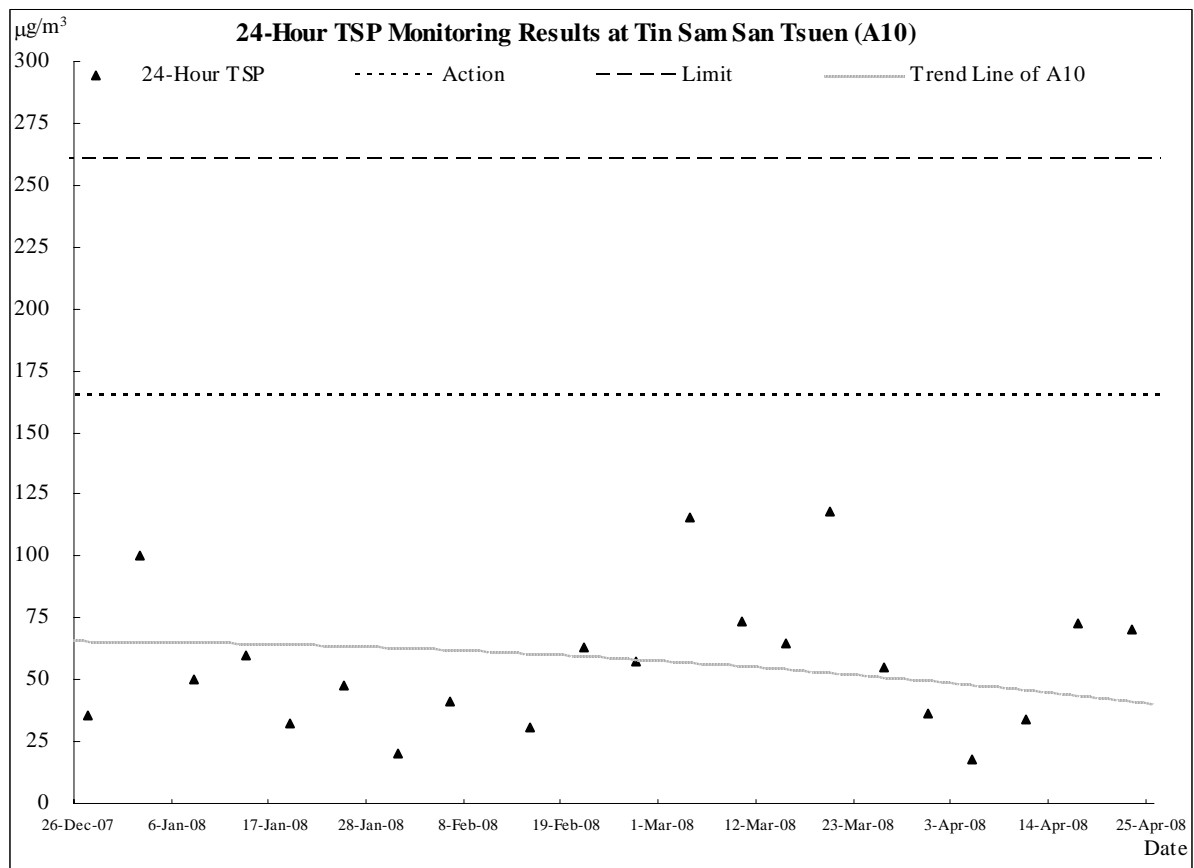
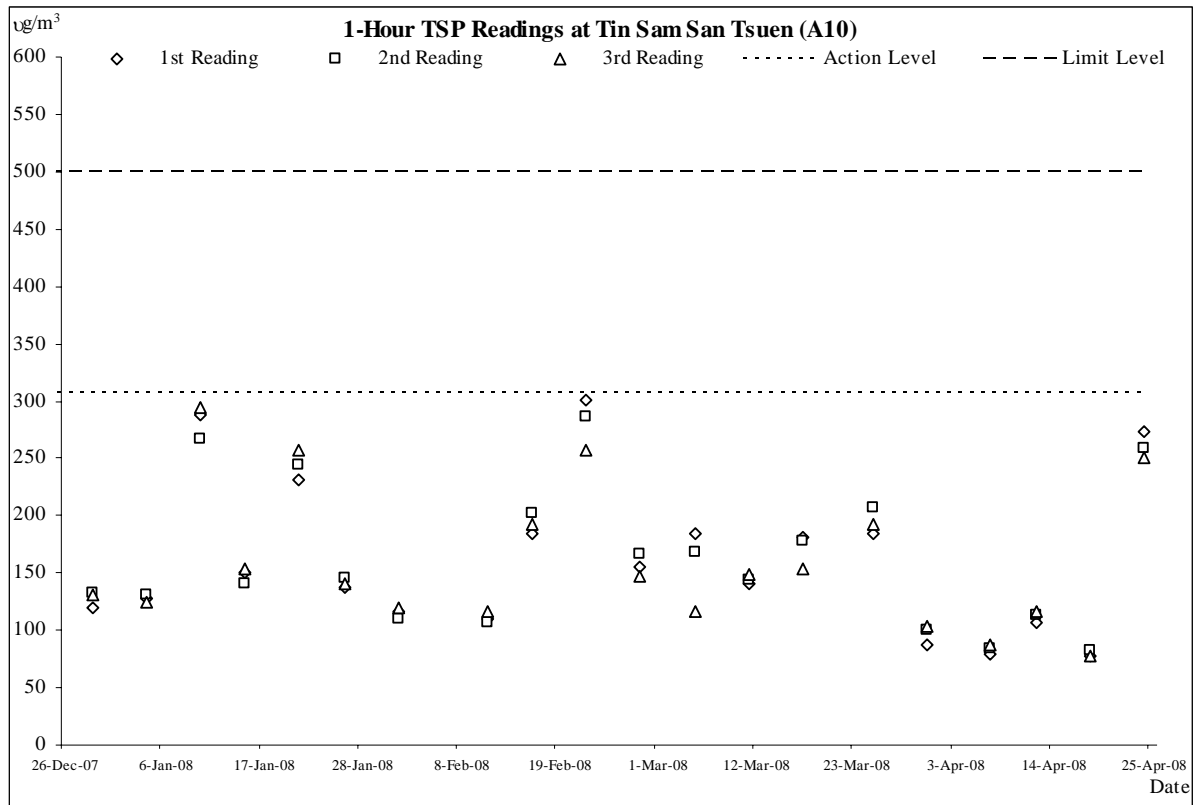
Date		Air Quality		Noise Leq 30min	Stream Water Quality	Ecology Surveys
		1-Hour TSP	24-Hour TSP			
26-Apr -08	Sat					
27-Apr -08	Sun					
28-Apr -08	Mon					
29-Apr -08	Tue					
30-Apr -08	Wed					
1-May-08	Thu					
2-May-08	Fri					
3-May-08	Sat					
4-May-08	Sun					
5-May-08	Mon					
6-May-08	Tue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

	Monitoring Day
	Sunday or Public Holiday

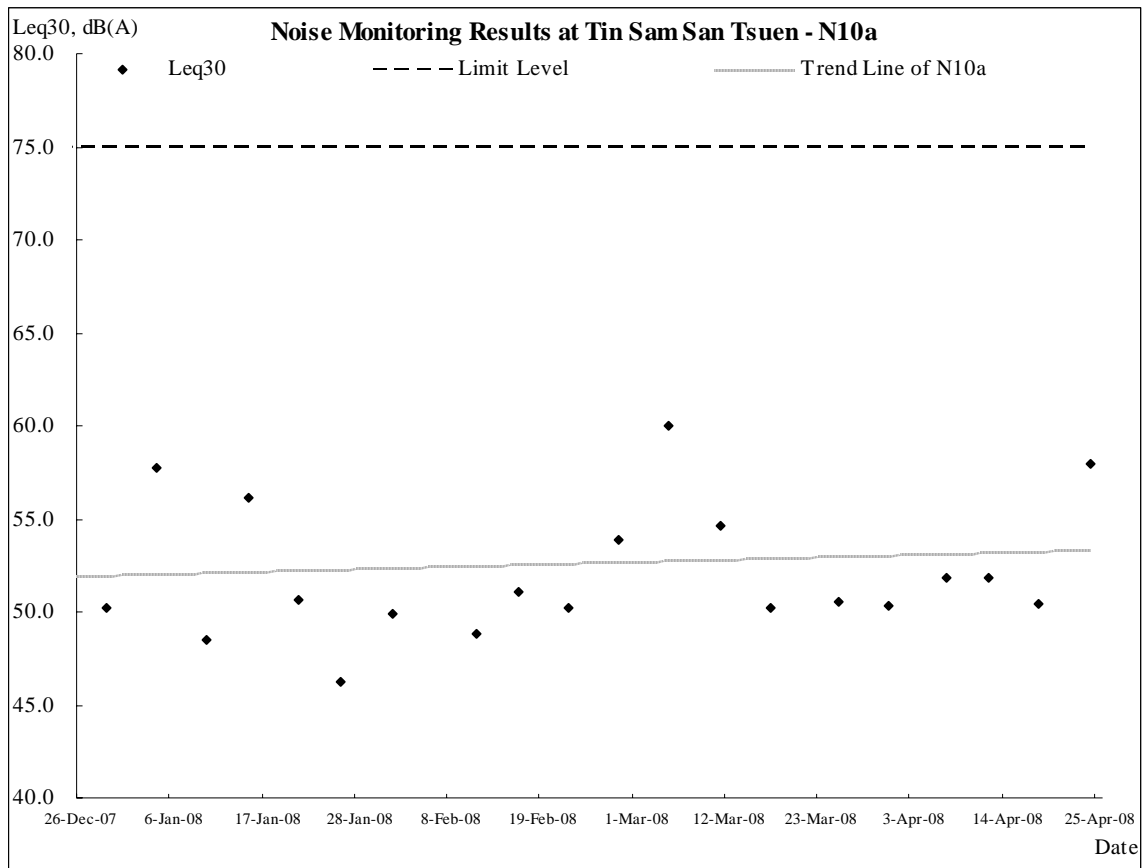
## **Appendix H**

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

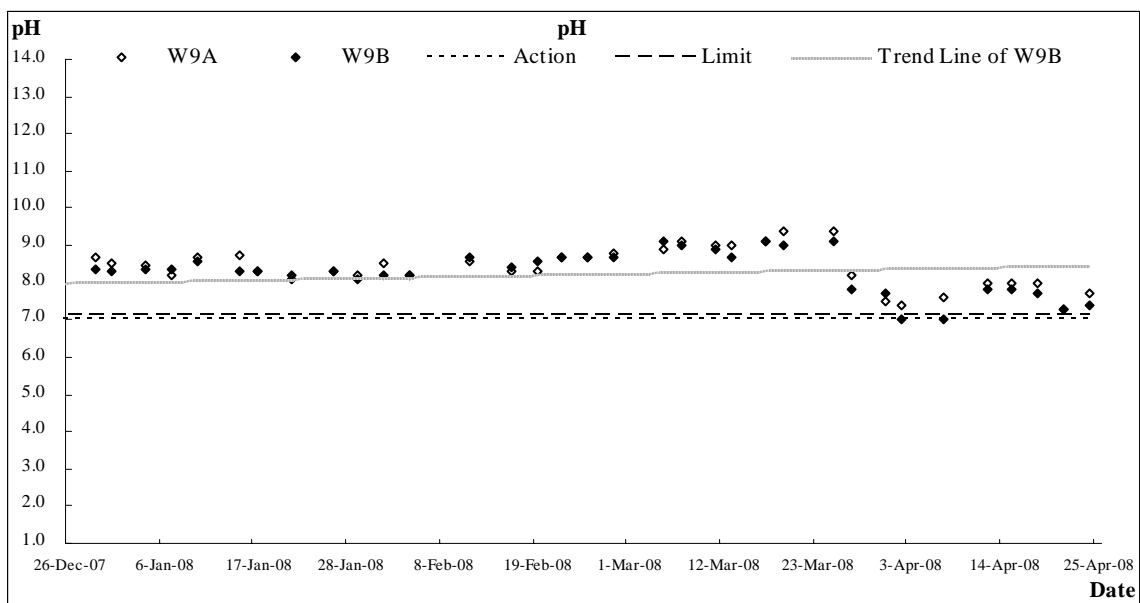
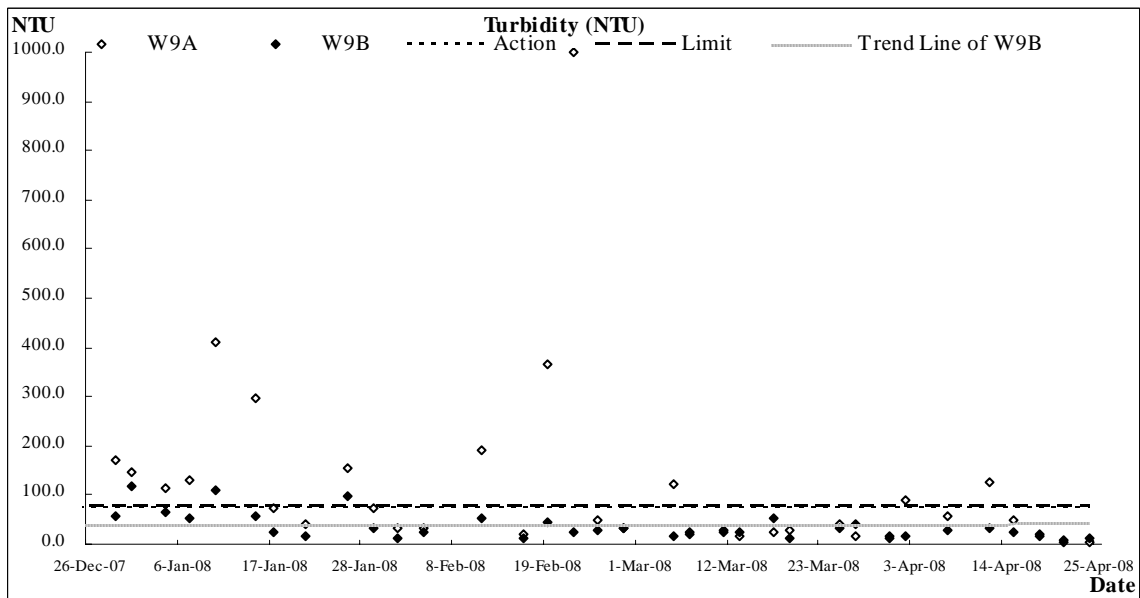
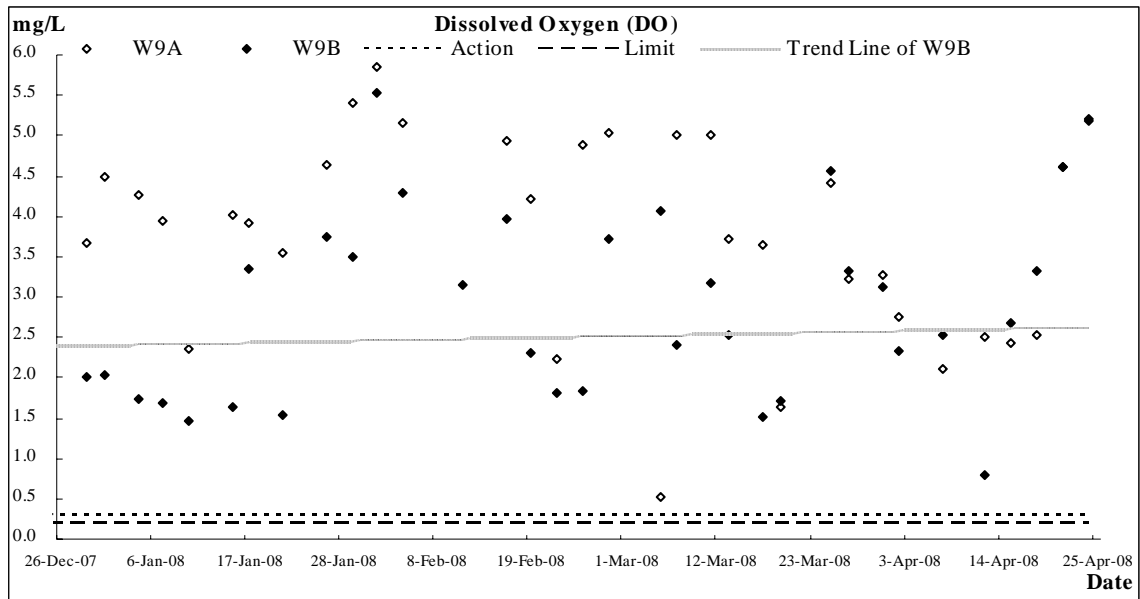
**Air Quality**

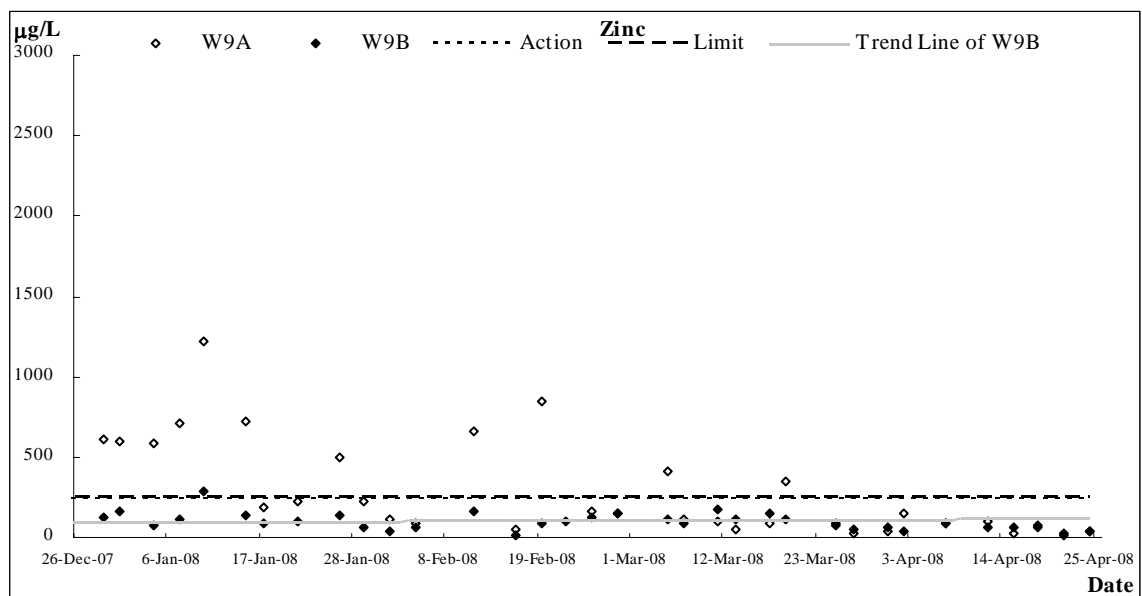
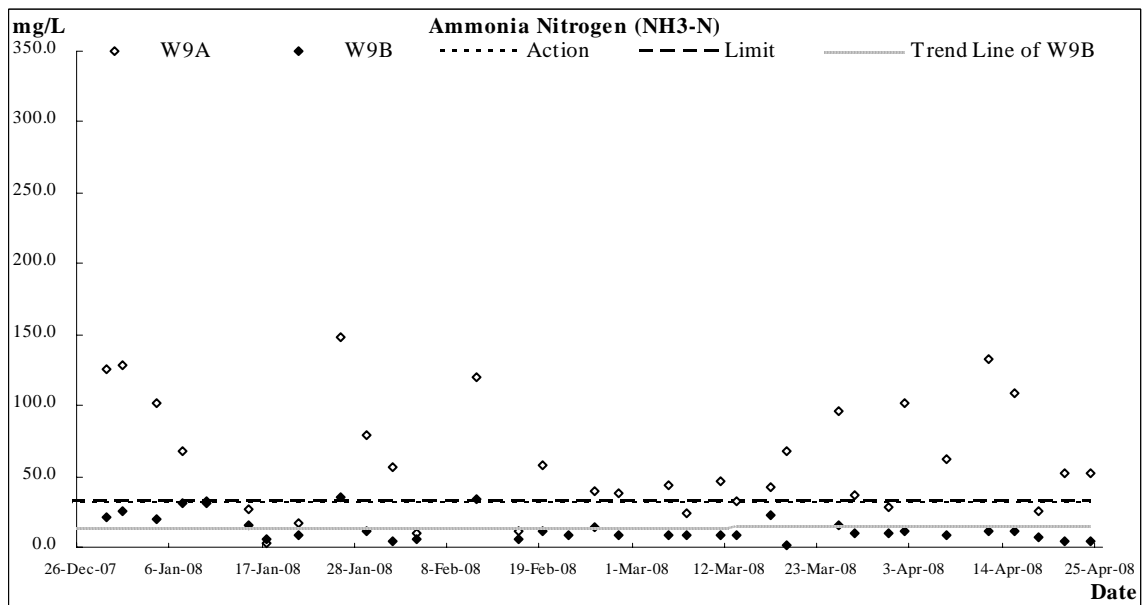
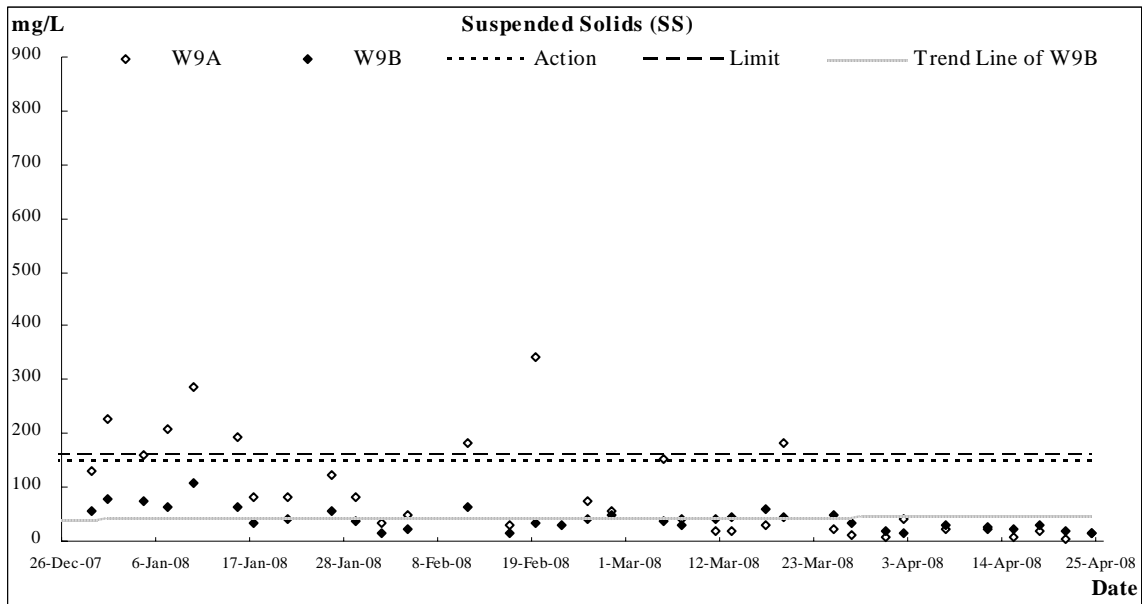


**Construction Noise**



**Stream Water Quality**







Date 27-Mar-08																	
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DOS (%)		Turbidity (NTU)		Salinity		pH		SS	NH3-N	Zinc
W9A	13:10	0.09	23.4	23.4	3.23	3.22	38.1	37.8	15.3	15.1	0	0.0	8.20	8.20	11.0	37.2	30.0
			23.4		3.21		37.5		14.9		0		8.20				
W9B	13:30	0.14	24.5	24.5	3.35	3.33	40.4	40.0	39.8	40.0	0	0.0	7.80	7.80	32.0	10.4	45.0
			24.5		3.31		39.5		40.1		0		7.80				

Date 31-Mar-08																	
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DOS (%)		Turbidity (NTU)		Salinity		pH		SS	NH3-N	Zinc
W9A	9:35	0.10	21.2	21.2	3.29	3.27	37.1	36.8	11.3	11.4	0	0.0	7.50	7.50	6.0	28.1	32.0
			21.2		3.24		36.5		11.5		0		7.50				
W9B	9:50	0.23	21.5	21.5	3.15	3.13	35.7	35.4	17.9	18.1	0	0.0	7.70	7.70	18.0	9.6	57.0
			21.5		3.1		35.1		18.3		0		7.70				

Date 2-Apr-08																	
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DOS (%)		Turbidity (NTU)		Salinity		pH		SS	NH3-N	Zinc
W9A	13:14	0.12	20.4	20.4	2.76	2.74	30.8	30.5	90.3	89.3	0	0.0	7.40	7.40	42.0	102.0	147.0
			20.4		2.72		30.1		88.2		0		7.40				
W9B	13:37	0.31	20.9	20.9	2.35	2.32	26.5	26.1	16.1	16.1	0	0.0	7.00	7.00	14.0	10.6	36.0
			20.9		2.29		25.6		16.1		0		7.00				

Date 7-Apr-08																	
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DOS (%)		Turbidity (NTU)		Salinity		pH		SS	NH3-N	Zinc
W9A	10:00	0.11	26.4	26.4	2.14	2.11	26.7	26.2	56.8	55.6	0	0.0	7.60	7.60	24.0	62.8	81.0
			26.4		2.07		25.6		54.3		0		7.60				
W9B	10:20	0.22	27.0	27.0	2.61	2.54	33.0	31.9	29.6	30.0	0	0.0	7.00	7.00	29.0	9.0	82.0
			27.0		2.46		30.7		30.3		0		7.00				

Date 12-Apr-08																	
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DOS (%)		Turbidity (NTU)		Salinity		pH		SS	NH3-N	Zinc
W9A	13:00	0.11	26.6	26.6	2.53	2.50	31.7	31.5	121.0	124.5	0	0.0	8.00	8.00	27.0	132.0	95.0
			26.6		2.47		31.2		128.0		0		8.00				
W9B	13:20	0.16	27.1	27.1	0.85	0.80	11.2	10.5	30.3	30.8	0	0.0	7.80	7.80	22.0	11.5	59.0
			27.1		0.74		9.7		31.2		0		7.80				

Date													15-Apr-08					
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	pH		SS	NH3-N	Zinc						
W9A	13:56	0.07	24.2	24.2	2.46	2.44	29.5	29.0	50.3	49.3	0	0.0	8.00	8.00	7.0	108.0	31.0	
			24.2		2.41		28.4		48.2		0		8.00					
W9B	14:17	0.21	25.5	25.5	2.68	2.67	35.2	35.4	26.1	25.8	0	0.0	7.80	7.80	21.0	10.8	64.0	
			25.5		2.66		35.6		25.4		0		7.80					

Date													18-Apr-08					
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	pH		SS	NH3-N	Zinc						
W9A	10:43	0.10	25.9	25.9	2.58	2.54	31.8	31.2	15.3	15.8	0	0.0	8.00	8.00	19.0	25.7	63.0	
			25.9		2.49		30.6		16.3		0		8.00					
W9B	11:16	0.34	27.0	27.0	3.37	3.33	42.2	41.8	18.1	18.9	0	0.0	7.70	7.70	30.0	7.3	71.0	
			27.0		3.29		41.4		19.6		0		7.70					

Date													21-Apr-08					
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	pH		SS	NH3-N	Zinc						
W9A	10:50	0.08	27.6	27.6	4.81	4.60	60.5	57.7	5.1	5.2	0	0.0	7.30	7.30	5.0	52.4	16.0	
			27.6		4.39		54.8		5.2		0		7.30					
W9B	11:15	0.47	27.7	27.7	4.65	4.61	59.2	58.3	9.7	9.7	0	0.0	7.30	7.30	17.0	4.4	26.0	
			27.7		4.57		57.3		9.7		0		7.30					

Date													24-Apr-08					
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DOS (%)	Turbidity (NTU)	Salinity	pH		SS	NH3-N	Zinc						
W9A	11:05	0.12	22.5	22.5	5.18	5.21	59.5	60.0	5.5	5.6	0	0.0	7.70	7.70	14.0	52.4	38.0	
			22.5		5.23		60.5		5.7		0		7.70					
W9B	11:20	0.33	22.4	22.4	5.23	5.19	60.3	59.7	9.9	10.3	0	0.0	7.40	7.40	16.0	3.5	38.0	
			22.4		5.14		59.0		10.8		0		7.40					



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 624796)</b>								
HK0804803-002	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	6	7	0.0
HK0804841-006	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	408	408	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 624410)</b>								
HK0804795-013	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	5.75	6.04	4.9
HK0804792-013	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	0.4	0.3	0.0
<b>EG: Metals and Major Cations (QC Lot: 624776)</b>								
HK0804843-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	78	82	4.1
HK0804851-006	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	270	268	0.8

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 624796)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	92.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 624410)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.3	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 624776)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	92.3	----	85	115	----	----

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

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 624410)</b>										
HK0804851-011	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 624776)</b>										
HK0804843-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	95.1	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 628802)</b>								
HK0805029-008	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	18	18	0.0
HK0805137-005	W9B - 1 & 2 MIX	EA025: Suspended Solids (SS)	----	2	mg/L	18	18	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 628955)</b>								
HK0805082-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	<0.1	<0.1	0.0
HK0805086-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	2.0	2.0	0.0
<b>EG: Metals and Major Cations (QC Lot: 626814)</b>								
HK0805137-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	236	242	2.2

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 628802)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 628955)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.4	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 626814)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	90.8	----	85	115	----	----

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

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 628955)</b>										
HK0805224-003	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	114	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 626814)</b>										
HK0805137-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	91.0	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 633002)</b>								
HK0805511-005	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	6	6	0.0
HK0805512-004	W9A - 1 & 2 MIX	EA025: Suspended Solids (SS)	----	2	mg/L	24	22	8.8
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 633150)</b>								
HK0805512-005	W9B - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	8.99	9.04	0.6
HK0805546-009	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	40.8	40.1	1.7
<b>EG: Metals and Major Cations (QC Lot: 632917)</b>								
HK0805510-001	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
HK0805510-010	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	77	73	5.0

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 633002)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 633150)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	96.3	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 632917)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	92.6	----	85	115	----	----

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

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 633150)</b>										
HK0805546-005	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 632917)</b>										
HK0805491-001	Anonymous	EG020: Zinc	7440-66-6	100 µg/L	89.3	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 637174)</b>								
HK0805831-006	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	6540	6690	2.3
HK0805886-001	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	19	20	8.2
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 637328)</b>								
HK0805826-040	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0805826-042	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
<b>EG: Metals and Major Cations (QC Lot: 637140)</b>								
HK0805861-002	W1B - 1 & 2 MAX	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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 637174)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	90.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 637328)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.5	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 637140)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	86.0	----	85	115	----	----

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

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 637328)</b>										
HK0805861-001	W1A - 1 & 2 MAX	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	Not Determined	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 637140)</b>										
HK0805861-001	W1A - 1 & 2 MAX	EG020: Zinc	7440-66-6	100 µg/L	91.2	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 637174)</b>								
HK0805831-006	Anonymous	EA025: Suspended Solids (SS)	----	3	mg/L	6540	6690	2.3
HK0805886-001	W1A - 1 & 2 MIX	EA025: Suspended Solids (SS)	----	2	mg/L	19	20	8.2
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 638275)</b>								
HK0805886-005	W9B - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	10.8	10.8	0.6
HK0805894-010	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	17.8	20.8	15.2
<b>EG: Metals and Major Cations (QC Lot: 638152)</b>								
HK0805886-002	W1B- 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	34	37	7.0
HK0805894-006	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	304	297	2.4

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 637174)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	90.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 638275)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	97.0	----	85	115	----	----

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

Matrix Type: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 638275)</b>										
HK0805951-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	96.0	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 638152)</b>										
HK0805886-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	91.7	----	75	125	----	----





### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 642572)</b>								
HK0806038-002	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	4	5	0.0
HK0806136-004	W9A - 1 & 2 MIX	EA025: Suspended Solids (SS)	----	2	mg/L	19	20	5.7
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 641628)</b>								
HK0806136-005	W9B - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	7.33	7.33	0.0
HK0806139-010	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.04	0.04	0.0
<b>EG: Metals and Major Cations (QC Lot: 642518)</b>								
HK0806136-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	74	77	2.7

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 642572)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 641628)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	107	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 642518)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	89.2	----	85	115	----	----

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

Matrix Type: WATER				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 641628)</b>										
HK0806117-013	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	114	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 642518)</b>										
HK0806136-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	92.1	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 642573)</b>								
HK0806194-006	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	6	6	0.0
HK0806194-016	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	6	6	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 642574)</b>								
HK0806220-001	W1A - 1 & 2 MIX	EA025: Suspended Solids (SS)	----	2	mg/L	6	6	0.0
HK0806278-002	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	<2	<2	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 643536)</b>								
HK0806194-008	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.57	0.54	5.4
HK0806220-005	W9B - 1 & 2 MIX	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	4.36	4.41	1.1
<b>EG: Metals and Major Cations (QC Lot: 642518)</b>								
HK0806136-002	Anonymous	EG020: Zinc	7440-66-6	10	µg/L	74	77	2.7

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 642573)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	92.5	----	85	115	----	----
<b>EA/ED: Physical and Aggregate Properties (QCLot: 642574)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	93.5	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 643536)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	99.6	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 642518)</b>											
EG020: Zinc	7440-66-6	10	µg/L	<10	100 µg/L	89.2	----	85	115	----	----

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

Matrix Type: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 643536)</b>										
HK0806283-003	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	102	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 642518)</b>										
HK0806136-001	Anonymous	EG020: Zinc	7440-66-6	100 µg/L	92.1	----	75	125	----	----



### 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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 644351)</b>								
HK0806313-001	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	27	29	5.3
HK0806349-005	Anonymous	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	18.4
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 645468)</b>								
HK0806466-008	Anonymous	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.63	0.62	1.6
HK0806506-001	Anonymous	EK055A: Ammonia as N	7664-41-7	0.1	mg/L	13.3	13.4	0.0
<b>EG: Metals and Major Cations (QC Lot: 644801)</b>								
HK0806481-002	W1B - 1 & 2 MIX	EG020: Zinc	7440-66-6	10	µg/L	69	71	2.8

### 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						
Method: Analysis Description	CAS number	LOR	Units	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						SCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QCLot: 644351)</b>											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 645468)</b>											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	5.0 mg/L	96.8	----	85	115	----	----
<b>EG: Metals and Major Cations (QCLot: 644801)</b>											
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				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					MS	MSD	Low	High	Value	Control Limit
<b>ED/EK: Inorganic Nonmetallic Parameters (QCLot: 645468)</b>										
HK0806344-002	Anonymous	EK055A: Ammonia as N	7664-41-7	0.5 mg/L	92.0	----	75	125	----	----
<b>EG: Metals and Major Cations (QCLot: 644801)</b>										
HK0806481-001	W1A - 1 & 2 MIX	EG020: Zinc	7440-66-6	100 µg/L	89.0	----	75	125	----	----

## **Appendix I**

### **Meteorological Data in the Reporting Period**

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

Date	Weather	Lau Fau Shan Weather Station					
		Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction	
26-Mar-08	Wed	cloudy/rain/moderate	10.7	17.8	8.5	80.5	E/NE
27-Mar-08	Thu	sunny periods/haze/cloudy/rain/moderate	0	19.2	5.7	78.5	E/SE
28-Mar-08	Fri	cloudy/mist/moderate/fresh	13.8	23	15.5	79.2	SE
29-Mar-08	Sat	cloudy/fog/sunny periods/moderate	0	26.3	15	75.5	SE
30-Mar-08	Sun	cloudy/rain/mist/fresh/strong	Trace	23.9	9.7	86	SW
31-Mar-08	Mon	cloudy/rain/mist/fresh/strong	4.7	19.3	12	91.5	E
1-Apr-08	Tue	cloudy/rain/mist/fresh/strong	4.3	16.9	18	88	E
2-Apr-08	Wed	cloudy/rain/mist/moderate	0.7	17.9	13.5	89.5	E
3-Apr-08	Thu	humid/misty/rain/moderate/fresh	1.4	18	7.5	91.5	E/NE
4-Apr-08	Fri			Holiday			
5-Apr-08	Sat	cloudy/sunny periods/moderate	Trace	25.5	14.5	74	E/NE
6-Apr-08	Sun	fine/cloudy/moderate	0	23.3	11.5	76.5	W
7-Apr-08	Mon	fine/cloudy/moderate	0	26.9	11	86	W/SW
8-Apr-08	Tue	Sunny/periods/isolated showers/cloudy/moderate	0	27.5	15	68.5	S
9-Apr-08	Wed	sunny intervals/cloudy/moderate	Trace	27	26	73	S/SW
10-Apr-08	Thu	cloudy/fog/light winds/moderate/rain	Trace	27.8	14.5	78	SE
11-Apr-08	Fri	cloudy/mist/rain/moderate/fresh	Trace	26.6	16	75	SE
12-Apr-08	Sat	cloudy/mist/rain/moderate/fresh	Trace	24.9	20	75	SE
13-Apr-08	Sun	cloudy/mist/rain/moderate/fresh	1.3	24.4	9	83	E/NE
14-Apr-08	Mon	sunny periods/cloudy/moderate/fresh	0	25.5	11.2	75	E
15-Apr-08	Tue	sunny periods/cloudy/moderate	0	24.8	10.5	75.5	E
16-Apr-08	Wed	fine/hot/light winds	0	25	12.7	75.2	E
17-Apr-08	Thu	cloudy/rain/light winds/fresh	Trace	27.1	12	78	SE
18-Apr-08	Fri	cloudy/rain/fresh/strong	Trace	25.1	21.5	67.5	E
19-Apr-08	Sat	fresh/strong/gale/overcast/rain/squall	237.4	23.3	26.5	75.5	E
20-Apr-08	Sun	sunny periods/isolated showers/moderate	0	27.4	13.5	78	SW
21-Apr-08	Mon	sunny periods/isolated showers/moderate	Trace	26.1	11	84.5	SE
22-Apr-08	Tue	fine/isolated showers/cloudy/light winds/moderate	0	26.8	11	80.7	SE
23-Apr-08	Wed	cloudy/rain/moderate/fresh	0.4	20.9	15	76.5	NE
24-Apr-08	Thu	cloudy/haze/moderate	0.1	20.2	18.2	68.5	N/NE
25-Apr-08	Fri	cloudy/rain/moderate	0.7	20.6	6.5	75.5	E

## **Appendix J**

### **Environmental Team Site Inspection Checklists**

# Environmental Site Inspection Checklist for KT15

**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 Tsui Wai

**Inspected by**  
**RE/RE's representative:** Mr. A.F. Ng  
**IEC/IEC's representative:** -  
**ETL/ ET's representative:** Ben Tam  
**Contractor's representative:** M.K. Ng / Man  
**Checklist No.** KT15-270308

**Inspection**  
**Date:** 27 March 2008  
**Time:** 09:30

**PART A: GENERAL INFORMATION** Environmental Permit No.: EP-231/2005/A

Weather:  Sunny  Fine  Cloudy  Rainy  
 Temperature:  °C  
 Humidity:  High  Moderate  Low  
 Wind:  Strong  Breeze  Light  Calm

**PART B: SITE AUDIT**

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
<b>Section 1: Water Quality</b>							
1.01	Is an effluent discharge license obtained for the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the effluent discharged in accordance with the discharge licence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Is drainage system well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are temporary exposed slopes properly covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.11	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are wheel washing facilities well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.18	Is the oil leakage or spillage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Section 2: Air Quality</b>						
2.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 3: Noise</b>						
3.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 4: Waste/Chemical Management</b>							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	Is general refuse sorting or recycling implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13	Are chemical/fuel storage areas bunded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.16	Are construction wastes reused?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17	Are construction wastes disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.20	Are appropriate procedures followed if contaminated material exists?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 5: Landscape &amp; Visual</b>						
5.01 Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02 Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03 Are surgery works carried out for the damaged trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04 Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 6: Ecology</b>						
6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 7: Others</b>						
7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks

Last Site Inspection (20 March 2008):



Stagnant water was accumulated at CH 200, the Contractor was reminded to clean to prevent mosquito breeding. (In progress)

Findings of Site Inspection on 27 March 2008:

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



C&D waste was accumulated at the CH200, the Contractor was reminded to clean more frequency.



Some C&D material scattered on-site was observed at CH230, the Contractor was reminded to tight up the working area.

*RE's representative*

*IEC's representative*

*ET's representative*

*Contractor's representative*

( \_\_\_\_\_ )

( \_\_\_\_\_ )

( Ben Tam )

( \_\_\_\_\_ )

# Environmental Site Inspection Checklist for KT15

**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 Tsui Wai

**Inspected by**  
**RE/RE's representative:** Mr. A.F. Ng  
**IEC/IEC's representative:** -  
**ETL/ ET's representative:** Ben Tam  
**Contractor's representative:** M.K. Ng / Man  
**Checklist No.** KT15-030408

**Inspection**  
**Date:** 03 April 2008  
**Time:** 11:00

**PART A: GENERAL INFORMATION** Environmental Permit No.: EP-231/2005/A

Weather:  Sunny  Fine  Cloudy  Rainy  
 Temperature:  °C  
 Humidity:  High  Moderate  Low  
 Wind:  Strong  Breeze  Light  Calm

**PART B: SITE AUDIT**

**Section 1: Water Quality**

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.01	Is an effluent discharge license obtained for the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the effluent discharged in accordance with the discharge licence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Is drainage system well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are temporary exposed slopes properly covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.11	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are wheel washing facilities well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.18	Is the oil leakage or spillage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.29	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 2: Air Quality</b>						
2.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 3: Noise</b>						
3.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



# Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 4: Waste/Chemical Management</b>							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	Is general refuse sorting or recycling implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13	Are chemical/fuel storage areas bunded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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4.16	Are construction wastes reused?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17	Are construction wastes disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.20	Are appropriate procedures followed if contaminated material exists?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 5: Landscape &amp; Visual</b>						
5.01 Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02 Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03 Are surgery works carried out for the damaged trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04 Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 6: Ecology</b>						
6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 7: Others</b>						
7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____



Remarks

Last Site Inspection (27 March 2008):



Stagnant water CH 200 was cleared.



C&D waste at the CH200 was cleared.



Working area at CH320 was tight up.

Findings of Site Inspection on 03 April 2008:

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

No environmental issue was observed during the site inspection.


RE's representative

(  )

IEC's representative

( \_\_\_\_\_ )

ET's representative

(  )  
Ben Tam

Contractor's representative

(  )

# Environmental Site Inspection Checklist for KT15

**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 Tsui Wai

**Inspected by**  
**RE/RE's representative:** Mr. A.F. Ng  
**IEC/IEC's representative:** -  
**ETL/ ET's representative:** Ben Tam  
**Contractor's representative:** M.K. Ng / Man  
**Checklist No.** KT15-100408

**Inspection**  
**Date:** 10 April 2008  
**Time:** 14:00

**PART A: GENERAL INFORMATION** Environmental Permit No.: EP-231/2005/A

Weather:  Sunny  Fine  Cloudy  Rainy  
 Temperature:  °C  
 Humidity:  High  Moderate  Low  
 Wind:  Strong  Breeze  Light  Calm

**PART B: SITE AUDIT**

**Section 1: Water Quality**

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.01	Is an effluent discharge license obtained for the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the effluent discharged in accordance with the discharge licence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Is drainage system well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are temporary exposed slopes properly covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.11	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are wheel washing facilities well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.18	Is the oil leakage or spillage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.29	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 2: Air Quality</b>						
2.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 3: Noise</b>						
3.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
3.07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 4: Waste/Chemical Management</b>						
4.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15



	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 5: Landscape &amp; Visual</b>						
5.01 Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02 Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03 Are surgery works carried out for the damaged trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04 Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 6: Ecology</b>						
6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 7: Others</b>						
7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks

Last Site Inspection (03 April 2008):

Nil

Findings of Site Inspection on 10 April 2008:

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



Water spraying should be needed when loading or unloading material to minimize the dust generation.

RE's representative

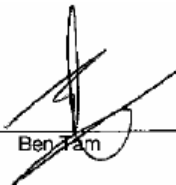
IEC's representative


ET's representative

Contractor's representative

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Ben Tam

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**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 Tsui Wai

**Inspected by**  
**RE/RE's representative:** Mr. C.F. Cheng  
**IEC/IEC's representative:** Benny Lam  
**ETL/ ET's representative:** Ben Tam  
**Contractor's representative:** M.K. Ng / Man  
**Checklist No.** KT15-170408

**Inspection**  
**Date:** 17 April 2008  
**Time:** 14:00

**PART A: GENERAL INFORMATION** Environmental Permit No.: EP-231/2005/A

Weather:  Sunny  Fine  Cloudy  Rainy  
 Temperature:  °C  
 Humidity:  High  Moderate  Low  
 Wind:  Strong  Breeze  Light  Calm

**PART B: SITE AUDIT**

**Section 1: Water Quality**

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.01	Is an effluent discharge license obtained for the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the effluent discharged in accordance with the discharge licence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Is drainage system well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are temporary exposed slopes properly covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.11	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are wheel washing facilities well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.18	Is the oil leakage or spillage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.29	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 2: Air Quality</b>						
2.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 3: Noise</b>						
3.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
3.07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 4: Waste/Chemical Management</b>						
4.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15



	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 5: Landscape &amp; Visual</b>						
5.01 Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02 Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03 Are surgery works carried out for the damaged trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04 Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 6: Ecology</b>						
6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 7: Others</b>						
7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks

Last Site Inspection (10 April 2008):

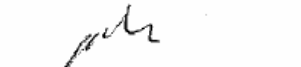
No dust generating activities was observed during the site inspection.

Findings of Site Inspection on 17 April 2008:


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

No environmental issue was observed during the site inspection.


RE's representative

  
( CF Chong )


IEC's representative

  
( Benny Lin )

ET's representative

  
( Ben Tam )

Contractor's representative

  
( )

# Environmental Site Inspection Checklist for KT15

**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 Tsui Wai

**Inspected by** \_\_\_\_\_  
**RE/RE's representative:** Mr. A.F. Ng  
**IEC/IEC's representative:** \_\_\_\_\_  
**ETL/ ET's representative:** Ben Tam  
**Contractor's representative:** M.K. Ng / Man  
**Checklist No.** KT15-250408

**Inspection**  
**Date:** 25 April 2008  
**Time:** 11:00

**PART A: GENERAL INFORMATION** Environmental Permit No.: EP-231/2005/A

Weather:  Sunny  Fine  Cloudy  Rainy

Temperature:  °C

Humidity:  High  Moderate  Low

Wind:  Strong  Breeze  Light  Calm

**PART B: SITE AUDIT**

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
<b>Section 1: Water Quality</b>							
1.01	Is an effluent discharge license obtained for the Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the effluent discharged in accordance with the discharge licence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is the discharge of turbid water avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Is drainage system well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	As excavation proceeds, are temporary access roads protected by crushed stone or gravel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are temporary exposed slopes properly covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.11	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are wheel washing facilities well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Is runoff from wheel washing facilities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.18	Is the oil leakage or spillage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.19	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.21	Are there any oil interceptors/grease traps in the drainage systems for vehicle and plant servicing areas, canteen kitchen, etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.27	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.28	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.29	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 2: Air Quality</b>						
2.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 3: Noise</b>						
3.01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

		Not Obs.	Yes	No	Follow up	N/A	Photo/Remarks
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	Are Construction Noise Permit(s) applied for percussive piling works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.10	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.11	Are valid Construction Noise Permit(s) posted at site entrances?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Section 4: Waste/Chemical Management</b>							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	Is general refuse sorting or recycling implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13	Are chemical/fuel storage areas bunded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.16	Are construction wastes reused?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17	Are construction wastes disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.20	Are appropriate procedures followed if contaminated material exists?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.22	Site cleanliness and appropriate waste management training had provided for the site workers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Environmental Site Inspection Checklist for KT15

	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 5: Landscape &amp; Visual</b>						
5.01 Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02 Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03 Are surgery works carried out for the damaged trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04 Is damage to trees outside site boundary due to construction activities avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.05 Is the night-time lighting controlled to minimize glare to sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 6: Ecology</b>						
6.01 Gabion banks and base had been provide for channel linings and banks for typical sections of KT15?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.02 Prevent site effluent/runoff discharge to the seasonal wetlands at KT15?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.03 Stockpiling or disposal of materials, and any dredging or construction activities at the seasonal wetlands at KT15 are prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Section 7: Others</b>						
7.01 Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks

Last Site Inspection (17 April 2008):

Nil

Findings of Site Inspection on 25 April 2008:

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



Some C&D material scattered on site was observed at CH680, the Contractor was reminded to tight up the working area.

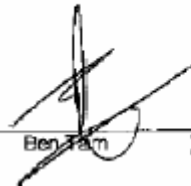
RE's representative

(  )


IEC's representative

( \_\_\_\_\_ )

ET's representative

(  )  
Ben Tam

Contractor's representative

(  )



## **Appendix K**

### **Response to Comments**

DSD Contract No. DC/2006/02

Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvements, Stage 1, Phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai

KT15 Monthly EM&A Report for April 2008 (R0660 Revision 0) submit on 0? May 08

Response to IEC's comments [Received from e-mail on 09 May 2008 14:10]

No.	Section / Paragraph	Comments	Ref.	Response to Comments
1	Table 5-2 / Appendix G	The monitoring dates for 24-hour TSP does not correspond with the Impact monitoring schedule in Appendix G. Please check and revise accordingly.	-	Noted
2	Table 5-6	Please check the abundance of total species number and individual number reported in the Project Profile	-	Refer to the Project Profile (KT15, August 2005), Table ATT3-8, ATT3-9, ATT3-10, the abundance of total species number is 21 and total individual number is 44.99 which are same in the Monthly EM&A Report for April 2008 (R0660 Revision 0) Table 5-6.