PROJECT NO.: TCS/00408/08

DSD CONTRACT NO. DC/2007/17
DRAINAGE IMPROVEMENT WORKS IN CHEUNG PO, MA ON KONG, YUEN KONG SAN TSUEN AND TIN SAM TSUEN OF YUEN LONG DISTRICT AND SEWERAGE AT TSENG TAU CHUNG TSUEN, TUEN MUN

FINAL EM&A SUMMARY REPORT - KT13

PREPARED FOR
CHINA ROAD & BRIDGE LIMITED

Quality Index

Date	Reference No.	Prepared By	Certified by
22 March 2012	TCS00408/08/600/R1678v3		
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26 March 2012

Dear Mr. Yau,

Contract No. DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen King San and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun
Final EM&A Summary Report - KT13 – Version 3

We refer to the captioned report (ref.: TCS00408/08/600/R1678v3) and advise that we have no comments on the captioned submission.

We hereby endorse the captioned report for your onward submission.

If you require any further information, please do not hesitate to contact the undersigned.

Yours sincerely

Coleman Ng
Independent Environmental Checker

cc China Road and Bridge Corporation (Mr. Raymond Mau) (Fax: 2478 9612)
AUES (Mr. TW Tam / Ms. Nicola Hon) (Fax: 2959 6079)

EXECUTIVE SUMMARY

ES.01 China Road and Bridge (H.K.) Limited (CRBC) has been awarded the DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. (hereinafter "the Project') for construction of five drainage channels, namely Channels KT12, KT13 (under Environmental Permit No.EP263/2007A), KT14A (under Environmental Permit No. EP231/2005A), KT14B and KT14C in Kam Tin and Pat Heung and the sewerage works at Tseng Tau Chung Tsuen in Tuen Mun. As the environmental monitoring requirements for the two Environmental Permits and those not under a permit are different, the EM&A report under the Project is split to the following three stand-alone parts.

(a) EM&A Report – Channel KT13 (under EP No.EP263/2007/A);

(b) EM&A Report – Channel KT14A (under EP No. EP231/2005A); and

(c) EM&A Report – Channels KT12, KT14B and KT14C (Non-Designated Project works with no Environmental Permit)

ES.02 According to the Environmental Monitoring and Audit Manual of the Project (ref.: 382047/E/EMA//Issue 5) (hereinafter 'the EM&A Manual') requirements, baseline EM&A monitoring for of air quality, noise, stream water quality were carried out during 18 March to 24 April 2008, including the ecological baseline monitoring of the habitat update conducted on 18, 19, 20 and 21 April 2008 and the fauna survey performed between 10 May 2008 and 20 May 2008, when no construction activities were undertaken.

ES.03 Construction activities of the Project commenced in October 2008. Hence, the impact monitoring also started in October 2008 accordance with the EM&A Manual requirements.

ES.04 Substantial completion of works for Channel KT13 had been certified by the Engineer's Representative on 30 May 2011. In view of the progress of the remaining works and the associated environmental monitoring and audit results, in particular sustainable non-existence of documented environmental complaints and works related exceedances of environmental quality criteria, letter of termination of EM&A programme has been submitted to EPD on 18 October 2011 and the monitoring work was ceased on the same day.

ES.05 This Final EM&A Report for the Project summarized the key environmental monitoring results throughout the construction phase in accordance with the EM&A Manual Section 10.6.3. The whole period of the drainage work at Channel KT13 covered from 20 October 2008 to 18 October 2011 (hereafter "the Construction Period'). The EM&A programme i.e. air quality, construction noise, water quality, ecology and waste management were undertaken as a total of 37 construction months.

PROGRESS OF THE EM&A PROGRAMME

ES.06 The impact EM&A programme was undertaken in accordance with the relevant EM&A Manual. A summary of the monitoring activities in the construction period is listed below:

Environmental Issues	Channel KT13
1-hour TSP Monitoring	**1086** monitoring events
24-hour TSP Monitoring	**360** monitoring events
Noise Monitoring	**362** monitoring events
Water Quality Monitoring	**455** monitoring days
Ecology Monitoring	**36** monitoring days
Settlement Monitoring	**85** monitoring events
Site Inspection Audit	**158** occasions

Breaches of Action and Limit Levels

ES.07 In the whole construction period, no breaches in 24-hour TSP, 1-hour TSP monitoring, noise monitoring and ecology monitoring were recorded.

ES.08 A total of 423 water quality exceedances were recorded during construction phase. There were 22 exceedances found for Action Level and 401 Limit Level. The overall compliance rate of water quality monitoring in the construction period is 84.5%. Investigation showed that all exceedances were not works related.

ES.09 Settlement monitoring of the historic grave was carried out when construction work entered the 100m of the cultural heritage site. In the construction period, 12 Action Level exceedances were recorded in the settlement monitoring which all concluded at related to the work under the Project.

ES.10 A summary of all environmental exceedances is presented as follows:

Parameter		No. of Exceedance	Compliance of percent (%)	Overall Compliance of percent (%)
Air Quality	1-hour TSP	0	100.0%	100%
	24-hour TSP	0	100.0%	
Construction Noise		0	100.0%	100%
Water Quality	Suspended Solids	172	62.2%	84.5%
	Turbidity	146	67.9%	
	Dissolved Oxygen	0	100%	
	pH	0	100%	
	Ammonia	31	93.2%	
	Zinc	74	83.7%	
Ecology Monitoring		0	100.0%	100%
Settlement Monitoring		12	85.9%	85.9%

Environmental Complaint, Notifications of Summons and Prosecutions

ES.11 No environmental complaint, notification of summons and successful prosecution was received during the Construction Period. Minor deficiencies found in the weekly site inspection and auditing were in general rectified within the specified deadlines. The environmental performance of the Project construction works was therefore considered satisfactory.

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1 INTRODUCTION

1.1 BASIC PROJECT BACKGROUND

China Road and Bridge (H.K.) Limited (hereinafter 'the Contractor') has been awarded the DSD Contract No. DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun (hereinafter "the Project'). The works to be executed under the Project are located in Kam Tin, Pat Heung and Tuen Mun, New Territories. The location plan of the Project is shown in ***Appendix A***.

The Project involves construction of five drainage channels, namely Channels KT12, KT13 (under Environmental Permit No.EP263/2007A), KT14A (under Environmental Permit No. EP231/2005A), KT14B and KT14C in Kam Tin and Pat Heung and the sewerage works at Tseng Tau Chung Tsuen in Tuen Mun. As the environmental monitoring requirements for the two Environmental Permits and those not under a permit are different, the EM&A report under the Project is split to the following three stand-alone parts:

(a) EM&A Report – Channel KT13 (under EP No.EP263/2007/A);

(b) EM&A Report – Channel KT14A (under EP No. EP231/2005A); and

(c) EM&A Report – Channels KT12, KT14B and KT14C (Non-Designated Project works with no Environmental Permit)

Due to the substantial completion at the Channel KT13 certified by the Engineer's Representative on 30 May 2011, a final report shall be submitted to present the overall EM&A results of the Designated Projects in accordance with the requirements in Section 10.6.3 of the EM&A Manual [382047/E/PP/Issue5]. This final report covers the key environmental monitoring results for the entire 37- month construction period from 20 October 2008 to 18 October 2011.

1.2 ENVIRONMENTAL MANAGEMENT ORGANIZATION

In this Project, DSD is the Project Proponent; CRBC is the main Contractor; EPD and AFCD are the supervisory departments for environmental protection of the Project; BVHKL is the Engineer's Representative of DSD (the ER); ARUP is the Independent Environmental Checker (the IEC) and Action-United Environmental Services and Consulting (AUES) is the environmental team (the ET). Detailed management organization including organisation structure and key personnel contacts is presented in ***Appendix B.***

1.3 CONSTRUCTION PROGRAMME AND WORKS UNDERTAKEN

Major construction activities implemented under the project site during the construction Period and mile stone of construction program is attached in ***Appendix C***.

1.4 LICENSING STATUS

1.4.1 Air Pollution Control (Construction Dust) Regulation

Pursuant to the ***Air Pollution Control (Construction Dust) Regulation,*** CRBC has notified EPD, via submission of Form NA dated 14 February 2008, of the scope and nature of the works to be carried out under the Project, including construction activities such as stockpiling, loading and unloading, transfer of dusty material, use of vehicles and debris handling, etc. CRBC will continuously review the status of the environmental licenses and apply the required licenses/permits prior to the commencement of construction work.

1.4.2 Noise Control Ordinance

No ***Construction Noise Permit*** (CNP) is required for the Project pursuant to the Noise Control Ordinance (NCO) and the associated applicable subsidiary regulations of ***Noise Control (General) Regulation, Noise Control (Hand-held Percussive Breaker) Regulation and Noise Control (Air Compressor) Regulation,*** as the use of powered mechanical equipment, or conducting construction work in during restricted hours, i.e. 1900 to 0700 hours on normal

weekdays and any time on general holidays including Sundays is not anticipated during the whole construction period. CRBC will continuously review the status of the environmental licenses under the NCO and apply the required licenses/permits prior to the commencement of construction work.

1.4.3 Waste Disposal (Charges for Disposal of Construction Waste) Regulation

CRBC has applied for a Billing Account (Construction Work Contract with Value of $1million or above), under the ***Waste Disposal (Charges for Disposal of Construction Waste) Regulation.*** The account number 7006524 has been assigned on 9 Jan 2008.

1.4.4 Water Pollution Control Ordinance

CRBC has applied for a discharge license under Section 20 of the ***Water Pollution Control Ordinance,*** and the license No. 1U461/1 has been issued.

1.4.5 Waste Disposal (Chemical Waste) (General) Regulation

CRBC has registered as a Chemical Waste Producer with EPD under the Waste Disposal (Chemical Waste) (General) Regulation and the Waste Producer Number assigned is WPN: 5611-531-C3124-28 dated 2 May 08.

1.4.6 Dumping at Sea Permit

CRBC has been granted by the Environmental Protection Department a Permit Issued under the ***Dumping at Sea Ordinance*** (Permit no. EP/I4D/08-095, dated 18 September 2008, permit validity period of six months from 18 September 2008 to 17 March 2009) for disposal of 18,469 m^3 sediment, requiring Type 1 – open sea disposal at East Sha Chau Contaminated Mud Disposal Site – Pit IV b, to be capped as directed by the Management Team of the Civil Engineering and Development Department. Also, marine dumping permit for Type II confine marine disposal with permit no. EP/MD/09-202 has been obtained on 29 September 2008.

1.5 ENVIRONMENTAL PROTECTION AND POLLUTION CONTROL MITIGATION MEASURES

CRBC has committed to implement environmental protection and pollution control and mitigation measures, as recommended in the EIA, EP, EM&A Manuals, and summarized in the Mitigation Measures Implementation Schedules in ***Appendix H***. The implemented status of environmental mitigation measures is concluded in **Table 2-1.**

Table 1-1 Implemented Status of Environmental Mitigation Measures

Environmental Aspect	Mitigation measures (EIA Ref.)	Status
Ecological Impact mitigation	4.9.2	Effective
	4.9.7	Effective
	4.9.8	Effective
	4.9.9 & Table 4.35	Effective
Noise Impact mitigation	5.5.22	Effective
	5.5.23 to 5.2.24	Effective
Air Quality Impact Mitigation	6.5.12	Effective
	6.5.4	Effective
Water Quality Impact Mitigation	7.5.5 to 7.5.7	Effective
	7.5.8 to 7.5.10	Effective
	7.5.11 to 7.5.12	Effective
	7.5.13	Effective
	7.5.14 to 7.5.15	Effective
Waste Management	8.2.5	Effective
	8.2.7	Effective
	8.2.13 to 8.2.18 &8.3.3	Effective
	8.2.20	Effective

	8.2.22 to 8.2.24	Effective
	8.2.25 to 8.2.29	Effective
	8.2.30	Effective
	8.2.32	Effective
	8.4.2	Effective
	8.4.3	Effective
	8.3.4 & 8.4.9	Effective
Culture Heritage	9.3	Effective
Landscape and Visual Impact Mitigation	Table 10.2	Effective
	Table 10.3, Figures LP-001 & LP-002	Effective
	10.8.18 Figure LP-001, LP-002 & 4.13	Effective

2 MONITORING METHODOLOGY

2.1 MONITORING PARAMETERS

Action-United Environmental Services & Consulting (AUES) is the Environmental Team (hereinafter 'the ET') to implement the Environmental Monitoring &Audit program recommended in the EM&A Manual.

According to the EM&A requirements set out in the EIA, Environmental Permit No. EP-263/2007/A (the EP) and the associated EM&A Manual, the required monitoring parameters are summarized as follows.

Table 2-1 Summary of Monitoring Parameters

Environmental Issue	Monitoring Parameters	
Air Quality	(a) 1-hour Total Suspended Particulate (1-hour TSP); and (b) 24-hour Total Suspended Particulate (24-hour TSP).	
Construction Noise	(a) A-weighted equivalent continuous sound pressure level (30min) (Leq(30min) during the normal working hours; and (b) A-weighted equivalent continuous sound pressure level (5min) (Leq(5min) for construction work during the Restricted Hours.	
Water Quality	(a) In Situ Measurement	temperature, dissolved oxygen (DO), pH & turbidity
	(b) Laboratory Analysis	suspended solids (SS), Ammonia Nitrogen (NH_3-N) and Zinc (Zn)
Ecology	Vegetation, all bird species of wetland, Ho Pui Egret, Ma On Hong Egret and Flight Line Survey	
Waste Management	Inspection and the document audit	
Cultural Heritage	Condition survey for a historical grave	
Landscape & Visual	To audit the implementation of the proposed construction phase mitigation measure stipulated in EIA.	

2.2 MONITORING LOCATIONS

Details of the monitoring locations are summarized in ***Table 2-2*** and shown in ***Appendix A.*** For ease of reference, monitoring locations denoted with "(a)" are relocated locations to differentiate them from the original 'EM&A Manual' locations.

Table 2-2 Summary of Monitoring Locations

Environmental Issues	Monitoring Location	Identified Address / Co-ordinates	Status of Monitoring Locations / Rationale for Recommended Replacement
Air	A1(a)	No.68 Ho Pui Village	The original location of EM&A Manuals A1 has permanently been abandoned. No access can be acquired in the vicinity of A1. Taken into consideration that Ho Pui Village is one of the most important sensitive receivers near KT-13 without monitoring, the most fronting house, No. 68 Ho Pui Village, is therefore recommended as the replacement location A1(a).
	A2	No.1 Ma On Kong Village	Original location of the EM&A Manual; access granted.
Noise	N1(a)	168-169 Kam Ho Road, Ma On Kong Village,	Original location of N1 identified in the EM&A Manual was relocated to proposed area as recommended by IEC.

Environmental Issues	Monitoring Location	Identified Address / Co-ordinates	Status of Monitoring Locations / Rationale for Recommended Replacement
	N2(a)	No. 68 Ho Pui Village,	The original location of EM&A Manuals N2 has permanently been abandoned. No access can be acquired in the vicinity of N2. Taken into consideration that Ho Pui Village is one of the most important sensitive receivers near KT-13 without monitoring, the most fronting house, No. 68 Ho Pui Village, is therefore recommended as the replacement location N2(a).
	N3	No.1 Ma On Kong Village	Original locations of the EM&A Manual; access granted.
Water	W1	E824539 / N830283	Original locations of the EM&A Manual; access resolved.
	W2	E824693 / N830258	Original locations of the EM&A Manual; access resolved.
	W3(a)	E824833 / N830374	The W3 is proposed to be relocated about 55 m down stream to W3(a) for safety reason as there is no any discharge point observed between W3 and the proposed W3(a).
	W4	E824936 / N830618	Original locations of the EM&A Manual; access resolved.
	W5	E825008 / N830812	Original locations of the EM&A Manual; access resolved.
	W6	E825100 / N830987	Original locations of the EM&A Manual; access resolved.
Ecology	Monthly monitoring along the boundary of the works area to confirm that there are no adverse impacts on habitats outside the site in particular the Conservation Area (CA) zone and Ho Pui Egretry. Photographic records at six-month intervals; Monthly monitoring of all bird numbers including wetland species and species identified as being of conservation importance; Monitoring of Ho Pui egretry during March to August. The Ma On Kong egretry is also surveyed to provide reference information on the breeding egrets nearby; and Flight line surveys twice per month during April to June.		
Waste Management	Whole construction site and document		
Cultural Heritage	Ma On Kong	Refer to EM&A Manual (KT13) Figure 7.1.	
Landscape & Visual	Refer to EIA Section 10		

2.3 MONITORING FREQUENCY, DURATION AND SCHEDULE

2.3.1 Monitoring Frequency and Duration

Environmental monitoring is conducted upon commencement of the construction activities and throughout the whole construction period to detect and minimize any adverse environmental impacts generated from the construction activities of the Project. The monitoring frequency and duration for air quality, construction noise, water quality, ecology and other parameters are summarized below.

Air Quality

Frequency: Once every 6 days for 24-hour TSP and three times every 6 days for 1-hour TSP, when the highest construction dust impacts are anticipated.

Duration: Throughout the construction period

Construction Noise

Frequency: Measurement of Leq(30min): Once a week during 0700-1900 hours on normal weekdays. If the construction work is undertake at restricted hours, the frequency of noise monitoring will be conducted in accordance with the requirements under the related Construction Noise Permit issued by EPD as follows:

- 3 consecutive Leq(5min) at restrict hour from 1700 – 2300 hours;
- 3 consecutive Leq(5min) for restrict hour from 2300 – 0700 hours next day;
- 3 consecutive Leq(5min) for Sunday or public holiday from 0700 – 1900 hours;

Duration: Throughout the construction period

Water Quality

Frequency: Three times a week with at least 36 hour intervals between any two consecutive monitoring events

Depths: As the water columns in the stream water within KT13 is generally less than 3m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6m, measurement shall be carried out at three water depths, namely, 1m below water surface, mid-depth, and 1m above river bed. If the water depths are between 3 to 6m, the mid-depth measurement is omitted.

Duration: Throughout the construction period.

Ecology

The Ecology Monitoring is required in accordance with the EM&A Manual.

Parameters: Vegetation, All bird species including wetland birds, Ho Pui and Ma On Hong Egretries and Flight line survey

Frequency: Vegetation – Impact monitoring – monthly;
Photographic records/checks against baseline records– six monthly
Wetland Bird survey – Monthly of half-day survey;
Ma On Kong egretry – Monthly between March to August; and
Ho Pui egretry – Bi-weekly between March and August;
Flight line Survey – twice per Month during the period from April to June

Duration: Throughout the whole construction period

Waste Management Audit

Frequency: Once per month

Duration: Throughout the construction period.

Cultural Heritage

Scope: Condition survey and settlement monitoring of a Qing Dynasty Grave.

Frequency: Condition survey - Bi-monthly
Settlement monitoring - Bi-weekly

Duration: Throughout the construction phase period. (When construction work entered the 100m of the cultural heritage site)

Landscape & Visual

Frequency: Bi-weekly

Duration: Throughout the construction phase period.

2.4 MONITORING EQUIPMENT AND PROCEDURE

The monitoring equipment and procedures are summarized below.

2.4.1 Weather Conditions during the Reporting Period

All meteorological information is extracted from the Hong Kong Observatory. The meteorological data include wind direction, wind speed, humidity, rainfall, air pressure and temperature etc., that are generally required for evaluating the environmental impact arising from the construction activities. The meteorological condition is summarized in ***Appendix F.***

2.4.2 Air Quality

Monitoring Equipment

A list of air quality monitoring equipment is shown below.

Table 2-4-1 Air Quality Monitoring Equipment

Equipment	Model
24-hour TSP	
High Volume Air Sampler	Grasby Anderson GMWS 2310 HVS
Calibration Kit	TISCH Model TE-5025A
1-hour TSP	
Portable Dust Meter	TSI DustTrak Model 8520

Monitoring Procedure

1-hour TSP

The 1-hour TSP measurement follows manufacturer's Operation and Service Manual, using a 1-hour TSP monitor brand named TSI Dust Track Aerosol Monitor Model 8520 or Sibata LD-3 Laser Dust Meter, which is a portable, battery-operated laser photometer to record the real time 1-hour TSP based on 90^0 light scattering. The 1-hour TSP monitor consists of the following:

(a) A pump to draw sample aerosol through the optic chamber where TSP is measured;
(b) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
(c) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument will be checked before and after each monitoring event.

24-hour TSP

The equipment used for 24-hour TSP measurement is the high volume air sampling system (hereinafter 'HVS') brand named Thermo Andersen, Model GS2310 TSP. The HVS complies with US EPA Code of Federal Regulation, Appendix B to Part 50. The HVS consists of the following:

(a) An anodized aluminum shelter;
(b) A 8"x10" stainless steel filter holder;
(c) A blower motor assembly;
(d) A continuous flow/pressure recorder;
(e) A motor speed-voltage control/elapsed time indicator;
(f) A 6-day mechanical timer, and
(g) A power supply of 220v/50 Hz

The HVS is operated and calibrated on a regular basis following the manufacturer's instruction using the NIST-certified standard calibrator brand named TISCH Calibration Kit Model TE-5025A. Regular HVS operation and maintenance as well as filter paper installation and collection is performed by the ET's competent technicians, whereas laboratory analyses are conducted in a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (herein after 'ALS'). The 24-hour TSP filters of the 24-hour TSP will be kept in ALS for six months prior to disposal.

All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper are recorded in details.

2.4.3 Construction Noise

Monitoring Equipment

A list of construction noise monitoring equipment is shown below.

Table 2-4-2 Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Bruel & Kjaer 2238
Calibrator	Bruel & Kjaer 4231
Portable Wind Speed Indicator	Testo Anemometer

Monitoring Procedure

Sound level meters listed above comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO).

All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq(30 min) in six consecutive Leq(5 min) measurements will be used as the monitoring parameter for the time period between 0700-1900 hours on weekdays throughout the construction period. Leq(15min) in three consecutive Leq(5 min) measurements for other time periods (e.g. during restricted hours) will only be conducted for monitoring the construction noise during restricted hours as necessary.

The sound level meter is mounted on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield is fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point is normally at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point is at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.

Immediately prior to and following each noise measurement the accuracy of the sound level meter is checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0dB. No noise measurement will be made in the present of significant fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed is checked with a portable wind speed meter capable of measuring the wind speed in m/s.

2.4.4 Water Quality

Monitoring Equipment

Monitoring Equipment for water quality is listed below.

Table 2-4-3 Water Quality Monitoring Equipment

Equipment	Model
Water Depth Detector	Eagle Sonar
Water Sampler	Teflon bailer / bucket
Thermometer & DO meter	YSI 550A
pH meter	Extech pH Meter EC500
Turbidimeter	Hach 2100p
Hand Refractometer	ATAGO

Equipment	Model
Sample Container	High density polythene bottles (provided by laboratory)
Storage Container	'Willow' 33-litter plastic cool box

Monitoring Procedure

Water Depth

As the water columns in the stream water within KT13 is generally less than 3 m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6 m, measurement shall be carried out at three water depths, namely, 1 m below water surface, mid-depth, and 1 m above river bed. If the water depths are between 3 to 6 m, the mid-depth measurement is omitted.

Water depths are determined prior to measurement and sampling, using a portable battery operated depth detector, brand named 'Eagle Sonar', if the depths exceed 1.5 meter. For the depths well below 1 meter, the depths of water columns are measured with a steel ruler with appropriate weight.

Dissolved Oxygen (DO)

A portable YSI 550A 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. Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20^0C 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 performed by ALS on quarterly basis.

pH

A portable Extech 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 pH 7 and pH 10 are used for calibration of the instrument before and after measurement. Quarterly calibration of the equipment will be performed by ALS.

Turbidity

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 performed by ALS on quarterly basis.

Salinity

A portable hand Refractometer AGATO will be used for in-situ salinity measurement. The refractometer is capable of measuring salinity in the range of 0-70ppt with accuracy ±1% reading. Calibration of the equipment will be performed by ALS on quarterly basis.

Suspended Solids (SS)

SS will be determined by ALS upon receipt of the water samples using the HOKLAS accredited analytical method - ALS Method EA-025.

Ammonia Nitrogen(NH_3-N)

NH_3-N will be examined by ALS upon receipt of the water samples using the HOKLAS accredited analytical methods - ALS Method EK-055A.

Zinc(Zn)

Zn will be analyzed by ALS upon receipt of the water samples using the HOKLAS accredited analytical methods - ALS Method EG-020.

Water Sampler

Water samples will be collected using a plastic sampler to prevent metal contamination. As the water depths in the stream water within KT13 are generally less than 0.5 m, a plastic bucket with a rope of appropriate length is used for water sampling. The sampler is rinsed before collection with the sample to be taken. For water depths deeper than 0.5 meter, a cleaned plastic bailer

bucket will be used for sample collection.

1000 mL water sample is collected from each depth for SS determination. The samples collected are stored in a cool box maintained at 4^0C and delivered to ALS upon completion of the sampling by end of each sampling day.

Sample Container
Water samples are contained in screw-cap PE (Poly-Ethylene) bottles, which are provided and pretreated according to corresponding HOKLAS and ALS analytical requirements. Where appropriate, the sampling bottles are rinsed with the water to be contained. Water samples are then transferred from the water sampler to the sampling bottles to 95% bottle capacity to allow possible volume expansion during delivery and storage.

Sample Storage
A 'Willow' 33-litter plastic cool box packed with ice will be used to preserve the collected water samples prior to arrival at ALS. The water temperature of the cool box will be maintained at a temperature as close to 4^0C as possible without being frozen. Samples collected will be delivered to the laboratory upon collection within the maximum storage time required under the HOKLAS and ALS analytical requirements

2.4.5 Ecology

Monthly walk through survey will be conducted along the boundary of work area for KT13. Bird monitoring will be conducted in the study areas monthly for KT13. Monitoring on the Ho Pui egretry and Ma On Kong egretry will be conducted between March to August. Flight line surveys to record the feeding areas and the habitat use of breeding egrets will be conducted between April to June. Photographic record should be made at six month intervals.

Monitoring Equipment

The following equipment will be used for monitoring:-
Standard portable field survey equipment was used for ecological monitoring, including

(a) Binoculars of 10 x 40 magnifications;
(b) Digital camera; and
(c) Notebook.

Study Area

The areas for the ecological monitoring programme would cover 60 m on either side of the existing channel as well as the proposed bypass culvert, as shown in Figure 6.1 of the EM&A Manual. Within these, emphasis will be given to the area around the Ho Pui and Ma On Kong egretries and habitats of at least moderate ecological value. In addition, monitoring would also be undertaken at the Ho Pui egretry and Ma On Kong egretry (The Ma On Kong egretry is outside the demarcated monitoring area but is also monitored to identify any adverse effects on the breeding egrets).

Survey Method

Monthly monitoring will be conducted by means of walk through survey, along the boundary of work area for KT13. Any adverse impacts to the habitats outside the site, in particular the Conservation Area (CA) zone and Ho Pui Egretry, will be checked and reported.

Photographic records will be made every six months on the fixed photo record points selected during the baseline survey. The photos from the construction phase ecological monitoring will be compared with those taken during the baseline, which are used as the baseline conditions.

Bird monitoring will be conducted in the study areas monthly for KT13. Attention should be paid on wetland species and species identified as being of conservation importance, and the habitats utilized should also be recorded. Bird surveys should commence no later than 2 hours after dawn.

Monitoring on the Ho Pui egretry and Ma On Kong egretry will be conducted between March to August. The frequency would be twice per month during March to May. Depending upon the

nesting conditions at Ho Pui egretry, the frequency could be reduced to monthly between June and August if no egret nest found by the end of May, or maintained at twice per month till the end of August if there are egret nests. Number of active nests, species and number of birds present and breeding stage should be recorded.

Flight line surveys to record the feeding areas and the habitat use of breeding egrets will be conducted twice per month between April to June. The number and species of flying egrets, and their landing habitats and locations should be recorded.

2.4.6 Waste Management, Cultural Heritage and Landscape & Visual

Waste Management, Cultural Heritage and Landscape & Visual monitoring is required for KT13 as stipulated in the EM&A manual [382047/E/EMA/Issue 5] ***Section 5***, ***Section 7*** and ***Section 8*** accordingly.

Waste Management

During the monthly audit, ETL will pay attention to the issues relating to waste management, and check whether the Contractor has followed the relevant contract Specifications and the procedures specified under the law of HKSAR.

Cultural Heritage

Condition survey by a qualified archaeologist is required for the historical grave near Ma On Kong before and during the construction phase. The method statement of condition survey of Ma On Kong Historic Grave (KT13-02-02) was issued to EPD and endorsed on 27 July 2008, the frequency of the condition survey during the construction phase and given the open cut method would be adopted for the construction of the proposed bypass box culvert under KT13 project, subject to the result of the condition survey carried out before the construction stage, it is recommended that bi-monthly condition survey be undertaken during the construction work within 100m area from the grave.

Landscape and Visual

In accordance with the EM&A manual [382047/E/EMA/Issue5] ***Section 8*** landscape and visual mitigation measures are required during construction and operation phase. Site inspection will be undertaken at least once every two weeks throughout the construction period to ensure compliance with the intended aims of the proposed mitigation measures.

2.5 QUALITY ASSURANCE PROCEDURES AND DATA MANAGEMENT

2.5.1 Documentation of the Environmental Monitoring

Field data including in-situ monitoring results, weather conditions and water sampling information and observation will be recorded in corresponding Field Data Sheets, which will be signed and dated by the respective environmental technician prior to submission to the ETL for validation and endorsement at the end of the monitoring day.

2.5.2 Data Management and Analysis

All impact monitoring data will be processed by the AUES data recording and management system, which complies with in-house Quality (***ISO 9001:2000***) Management System. Monitoring results recorded in the monitoring equipment e.g. 1-hour TSP Meters and Noise Meters will be downloaded directly from the equipment at the end of the monitoring period and input into a computerized database maintained by the ET. Laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.

2.5.3 Quality Assurance Procedures

Appropriate and standard QA/QC measures will be adopted for the environmental monitoring to ensure the scientific integrity of the data produced. Sources of error in the impact monitoring will be properly controlled with the following QA/QC procedures:

(a) Appropriate field monitoring and sampling techniques, including monitoring equipment, storage and delivery of samples;

(b) Well organized systematic field-data system e.g. all baseline monitoring information, field

observation, results, weather conditions and water sampling information, etc. will be recorded in the field monitoring record sheets. The laboratory analysis records will be maintained by the HOKLAS following HOKLAS requirements;

(c) HOKLAS requirements for QA/QC of all laboratory testing to ensure acceptable accuracy and reproducibility of the laboratory analysis indicated by consistent agreement between duplicate samples, validity of the analytical results by compliance with the required blanks and recovery of standard addition.

2.5.4 Records

All impact monitoring data will be clearly and systematically documented in both hardware and software format and the software copy will be available for inspection upon request. All the document and data will be kept for at least one year after completion of the Project. Field Data Sheets used to record the impact monitoring information, field observation, results, weather conditions and water sampling information, etc., will be properly maintained and kept by the ET. The copies of laboratory analysis records from ALS will be keep by the ET throughout the at least one year after completion of the EM&A program of the Project.

2.6 REPORTING

2.6.1 General Requirements for Report Submission

General requirements for Monthly EM&A report submission as stipulated in the EIA, EP and EM&A Manual are summarized below.

Table 2-6-1 Requirements for Report Submission

Report	Submission
Monthly EM&A Report	• Within 10 working days of the end of each reporting month.
Quarterly EM&A Summary Report	• No specific requirement, proposed three weeks after endorsement of the 3rd monthly EM&A report within a particular quarter.
Final EM&A Summary Report	• No specific requirement, proposed one month upon completion of entire EM&A program

2.6.2 Cut-Off Day of the Reporting Month

It was agreed among the ER, IEC, CRBC, ET and EPD that, in order to streamline the EM&A report submission and to cater for the occasional delay in obtaining laboratory analysis results, the cutoff day for each month is the 25th i.e. the first day of each report is the 26th of the last month and the end day, the 25th of that month.

3 MONITORING RESULTS

This section summarized the environmental monitoring results of air quality, construction noise, water quality, ecology and waste management throughout the construction phase at Channel KT13 from 20 October 2008 to 18 October 2011. Graphical plot showing trends of the monitored parameters during the Reporting Period are presented in ***Appendix D***.

The environmental monitoring results will be compared against the Action and Limit Levels established based on the baseline monitoring results and statutory criteria. In case the measured data exceed the environmental quality criteria, remedial actions will be triggered according to the Event and Action Plan enclosed in ***Appendix E***.

3.1 AIR QUALITY

3.1.1 Action and Limit Levels

According to the Baseline Monitoring Report for KT13, the Action and Limit Levels for 24-hour and 1-hour TSP are established as follows:

Table 3-1-1 Air Quality Action and Limit Levels

Monitoring Station	Action Level (μg /m^3)		Limit Level (μg/m^3)	
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
KT13(A1(a))	309	144	500	260
KT13(A2)	307	141	500	260

3.1.2 Results and Trends

1-hour TSP

In the construction period, there were total of 1,086 measurement events for 1-hour TSP at the designated monitoring stations, namely A1(a) and A2.

All the 1-hour TSP monitoring results at stations KT13- A1(a) and A2 were well below the environmental quality criteria, i.e. Action and Limit Levels which were established according to the baseline monitoring results obtained during 18 March to 24 April 2008, as shown in ***Table 3-1-1***. No remedial actions associated with the exceedances were therefore taken during the Reporting Period. The summary of 1-hour TSP monitoring results during the construction phase is presented in ***Table 3-1-2.***

Table 3-1-2 Summary of 1-hour TSP Monitoring Results at KT13

Channel	Station	1-hour TSP (μg/m^3)		
		Min	Max	Mean
KT13	A1(a)	31	251	87
	Recorded date	23 May 09 &12 Jan 11	15 Oct 09	543 events
KT13	A2	26	270	87
	Recorded date	9 May 11 & 18 Jul 11	8 Oct 11	543 events

The graphical plots also demonstrate a trend of further narrowing down of the 1-hour TSP levels below baseline levels after May 2011, when the substantial completion of the construction works under the Project was certified by the ER on 30 May 2011. A comparison between 1-hour TSP baseline and impact monitoring data is shown in ***Table 3-1-3.***

Table 3-1-3 Comparison between 1-hour TSP Baseline and Impact Monitoring Result

Station	Baseline Monitoring (1-hour TSP, μg/m^3)			Number of Impact Monitoring Result	
	Min	Ave.	Max	Lower the Baseline Monitoring Average Result	Upper the Baseline Monitoring Average Result
A1(a)	54	90	170	384	158

				70.9%	***29.1%***
A2	56	88	172	370	173
				68.1%	***31.9%***

24-hour TSP

In the construction period, a total of 360 successful measurement events of 24-hour TSP were carried out at the designated locations KT13- A1(a) and A2. Besides, there were 10 events of unsuccessful monitoring due to power failure incident.

All the 24-hour TSP monitoring results at monitoring stations A1(a) and A2, were well below the environmental quality criteria, i.e. Action and Limit Levels which were established according to the baseline monitoring results obtained during 18 March to 24 April 2008, as shown in ***Table 3-3-1***. No remedial actions associated with the exceedances were therefore taken during the Reporting Period. The summary of 24-hour TSP in the construction phase is presented in ***Table 3-1-4.***

Table 3-1-4 Summary of 24-hour TSP Monitoring Results at KT13

Channel	Station	24-hour TSP (μg/m^3)		
		Min	Max	Mean
KT13	A1(a)	7	142	40
	Recorded date	6 Mar 09	27 Oct 09	180 events
KT13	A2	7	141	30
	Recorded date	26 Jul 10	5 Feb 09	180 events

The graphical plots also demonstrate a trend of further narrowing down of the 24-hour TSP levels below baseline levels after May 2011, when the substantial completion of the construction works under the Project was certified by the ER on 30 May 2011. A comparison between 24-hour TSP baseline and impact monitoring data is shown in ***Table 3-1-5.***

Table 3-1-5 Comparison between 24-hour TSP Baseline and Impact Monitoring Result

Station	Baseline Monitoring (24-hour TSP, μg/m^3)			Number of Impact Monitoring Result	
	Min	Ave.	Max	Lower the Baseline Monitoring Average Result	Upper the Baseline Monitoring Average Result
A1(a)	6	21	32	39	141
				21.7%	***78.4%***
A2	11	17	26	54	126
				30.0%	***70.0%***

3.1.3 Other Factors

The baseline air quality monitoring was conducted during 18 March to 24 April 2008 within typical Hong Kong dry season. The baseline data so collected therefore represent the baseline air quality of the dry season immediately prior to commencement of the Project. They may reflect the air quality conditions of another Hong Kong wet season, which are normally significantly different.

3.1.4 Compare and Contrast the EM&A data with EIA Prediction

No TSP level was predicted by the Project EIA at the designated monitoring stations but it mentioned that if the Contractor implements all the necessary mitigation, construction dust nuisance at nearby representative sensitive receivers is expected to be complied with AQOs. Since zero exceedance of the environmental quality criteria of air quality was recorded, the EM&A result were found in line with the EIA Prediction.

3.1.5 Discussion and Conclusion

Under the construction dust suppression measures as provided by the Contractor, the impact monitoring results recorded zero exceedance of the environmental quality criteria of the parameter. Although zero exceedance of 1-hour and 24-hour TSP were recorded throughout the whole Reporting Period, favorable weather conditions and Action Levels established on higher baseline data obtained in the dry season of the drier year of the construction period.

Precision of the prediction of the Final EIA on the adverse air quality impacts to be generated from the construction of the Project is acceptable. The air quality monitoring performed during the Reporting Period is effective for generating data with the necessary statistical power to categorically identify or confirm the presence or absence of the predicted environmental impacts attributable to the works under the Project. The construction dust suppression measures as recommended in the Mitigation Measures Impact Schedule (hereinafter "MMIS") is also proven effective and adequate.

3.1.6 Practicality and Effectiveness of the EIA process and the EM&A programme

Monitoring and auditing of air quality was recommended for the construction phase of the Project in the EIA to ensure no exceedance of the TSP standard at the sensitive receiver.

The air quality monitoring methodology was effective in monitoring the air quality impacts of the Project. Baseline monitoring of 1-hour and 24-hour TSP helped to determine the ambient TSP levels at the sensitive receiver prior to commencement of construction works. During construction phase of the Project, impact monitoring of 24-hour TSP helped to determine whether the Project induced unacceptable air quality impacts to the sensitive receiver. As the scope of the Project mainly includes excavation and formation of channel, dust generation comes from the construction activities is the key concern during the construction phase. The monitoring of TSP was therefore considered to be cost effective for the Project.

All recommended mitigation measures were applicable to the Project. As discussed above, the Project did not cause unacceptable air quality impacts. However, the Project was divided for several working area, so C&D waste, excavated soil and construction material cannot be stored at working area as spare area was limited. Those materials would immediately transfer to the dump trucks by excavator or the mobile crane lorry and transport to the filling area via specified routes disposal. Watering as a dust suppression measure was applied at the transferring area and the specified routes. Therefore, the implemented mitigation measures were effective and efficient in controlling air quality impacts.

Monitoring and audit of 24-hour TSP levels had ensured that any deterioration in air quality was readily detected and timely actions taken to rectify any non-compliance. Assessment and analysis of 24-hour TSP results collected throughout the baseline and impact monitoring periods also demonstrated the environmental acceptability of the Project. Weekly site inspections had ensured that the EIA recommended air quality mitigation measures were effectively implemented. The EM&A program is considered to be cost effective.

3.2 CONSTRUCTION NOISE

3.2.1 Action and Limit Levels

The Action and Limit Levels for construction noise are illustrated in ***Table 3-2-1***.

Table 3-2-1 Construction Noise Action and Limit Levels

Time Period	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hours on normal weekdays	When one documented complaint is received	> 75* dB(A)

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

3.2.2 Results and Trends

In the construction period, there were total of 543 measurement events for construction noise at the all designated locations KT13-N1(a), N2(a) and N3.

Construction noise levels at all designated monitoring stations N1(a), N2(a) and N3 were fluctuated well below the environmental quality criteria, i.e. Limit Level of 75 dB(A), as shown in ***Table 3-2-1***. No remedial actions associated with the exceedances were therefore taken during the Reporting Period. The summary of construction noise monitoring result in the construction period is presented in ***Table 3-2-2***.

Table 3-2-2 Summary of Construction Noise Monitoring Results at KT13

Channel	Station	$L_{eq(30min)}$, dB(A)		Sound Pressure recording event		
		Max	Min	< 50dB(A)	50–60 dB(A)	60-70 dB(A)
KT13	N1(a)	70.9	49.5	5 events	86 events	90 events
	Recorded in the date	24 Dec 10	11 Jun 09 17 Jun 09 6 Jul 09	***2.8%***	***47.5%***	***49.7%***
KT13	N2(a)	68.0	44.8	24 events	79 events	78 events
	Recorded in the date	6 Jan 11	23 May 09	***13.3%***	***43.6%***	***43.1%***
KT13	N3	73.8	49.0	6 events	85 events	90 events
	Recorded in the date	18 Jan 11	29 Jun 09	***3.3%***	***47.0%***	***49.7%***
Overall for the Project detection				**35**	**250**	**258**

No exceedances of the Action/ Limit Level were recorded during the Reporting Period, implying no adverse noise nuisance was detected throughout the whole construction period of the Project. The graphical plots of $L_{eq(30min)}$ also demonstrate a trend of further narrowing down of the construction noise levels after May 2011, when the substantial completion of the construction works under the Project was certified by the ER from 30 May 2011.

3.2.3 Other Factors

Adjacent to the site boundary, the land uses are mainly village house, open area and rural residential which are a high potential development zone. Resident or traffic flow is normally significantly different once developed. So, noise monitoring results might be affected by the land development.

3.2.4 Compare and Contrast the EM&A data with EIA Prediction

The EIA predicted that the use of powered mechanical equipment during the construction phase of KT13 is expected to create construction noise nuisance due to the close proximity between the works area and the sensitive receivers. Mitigation measures are available to reduce the construction noise impacts to acceptable levels. The recommended mitigation measures include use of quiet plant, the use of noise barriers and proper site practices. Erection of noise barrier hoarding as a construction noise mitigation measures was effectively in reducing the noise disturbance to the vicinity of the working areas. Since zero exceedance of the environmental quality criteria of construction noise was recorded, the EM&A result were found in line with the EIA Prediction.

3.2.5 Discussion and Conclusion

The construction noise monitoring performed during the Reporting Period is effective for generating data with the necessary statistical power to categorically identify or confirm the presence or absence of the predicted environmental impacts attributable to the works under the Project. Although, limited efforts and resources were put in the required construction noise mitigation measures, no Limit Level exceedance was recorded during construction period.

$L_{eq(30min)}$ monitoring results registered consistent compliance of the parameter with environmental quality criteria throughout the Reporting Period, indicating that the prediction of Final EIA

prediction on the adverse noise nuisance to be generated from the construction of the Project is in general acceptable and the recommended environmental mitigation measures as stipulated in MMIS is also adequate.

3.2.6 Practicality and Effectiveness of the EIA process and the EM&A programme

Monitoring and auditing of construction noise was recommended for the construction phase of the Project in the EIA process to ensure compliance with the appropriate criterion at the receivers.

The noise monitoring methodology was effectively monitor the noise impacts of the Project. Baseline noise monitoring determined the ambient noise levels at the sensitive receivers prior to commencement of construction works. During periods when possible noise generating construction activities were on-going, impact noise monitoring would determine whether the Project caused adverse noise impacts on the sensitive receivers. The impact noise monitoring which focus on Leq, 30 minutes during daytime is therefore considered to be cost effective for the Project.

Noise mitigation measures recommended in the EIA Report were stipulated in the EM&A Manual for the Contractor to implement during the construction phase of the Project. All recommended mitigation measures were applicable to the Project. As discussed above, the Project did not cause adverse noise impacts to the receivers. Therefore, the mitigation measures implemented were effective and efficient in controlling noise impacts.

Assessment and analysis of noise results collected throughout the baseline and impact monitoring periods demonstrated the environmental acceptability of the Project. Weekly site inspections ensured that the EIA recommended noise mitigation measures were effectively implemented. The EM&A program is considered to be cost effective.

3.3 WATER QUALITY

3.3.1 Action and Limit Levels

The Action and Limit Levels for water quality are illustrated in ***Table 3-3-1.***

Table 3-3-1 Action and Limit Levels for Water Quality Monitoring

Monitoring Location	DO (mg/L)		Turbidity (NTU)		pH		SS (mg/L)		Ammonia (μg/L)		Zinc (μg/L)	
	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
W1 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W2 (Downstream) Impact Station	1.04	1.00	36.81	37.16	8.65	8.69	79.0	86.2	16.85	16.89	234.95	266.19
W3(a) (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W4 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W5 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W6 (Downstream) Impact Station	0.93	0.91	27.88	30.02	8.7	8.7	73.40	78.68	51.62	54.56	191.90	201.58

As predicted in the Final EIA, construction of the Project comprised extensive construction activities having potential of generating adverse water quality impacts, in particular excessive alkalinity and soil materials, which should be eliminated via full implementation of the mitigation measures recommended in MMIS. Water quality monitoring is required to monitor the water quality impacts generated from the construction of the Project and ensure full compliance with related legal environmental requirements and EIA recommendations.

3.3.2 Results

The values of minimum, maximum and average of the parameters are summarized in ***Tables 3-3-2*** and ***3-3-3***. The breaches of Action/ Limit Level for water quality monitoring are summarized in ***Tables 3-3-4*** and ***3-3-5***.

Table 3-3-2 Summary of Impact Water Quality Monitoring Results (in-situ)

Monitoring Location	Dissolved Oxygen, mgO_2/L			Turbidity, NTU			pH, pH Value		
	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max
W1	0.72	4.19	16.26	2.35	12.27	202.6	6.20	7.45	8.91
W2*	0.79	4.32	16.65	2.05	14.70	710.0	6.27	7.43	8.63
W3	0.99	3.77	16.45	2.95	19.47	176.5	6.02	7.52	9.40
W4	1.03	3.70	25.29	2.69	12.87	192.0	6.12	7.54	9.07
W5	1.24	4.05	19.72	2.96	16.18	355.0	6.25	7.52	9.40
W6*	0.88	3.94	19.51	3.15	29.9	315.0	6.26	7.63	8.68

Remarks: (*) Impact station

Table 3-3-3 Summary of Impact Water Quality Monitoring Results (laboratory analysis)

Monitoring Location	Suspended Solids, mg/L			Ammonia N, mg/L			Zinc, mg/L		
	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max
W1	1.99	30.33	902.0	0.01	4.78	58.80	9.99	56.78	1200.0
W2*	2.00	38.00	1460.0	0.01	4.72	59.80	9.99	63.09	1670.0
W3	1.99	53.94	1910.0	0.01	5.88	57.00	6.00	74.09	2260.0
W4	1.99	31.49	852.0	0.01	5.55	63.00	9.99	54.06	1350.0
W5	2.00	52.38	2900.0	0.01	5.51	59.50	10.00	78.14	4020.0
W6*	2.00	97.59	1650.0	0.01	6.62	60.50	9.99	103.40	2070.0

Remarks: (*) Impact station

Table 3-3-4 Summary of Water Quality Exceedances

Impact Location	Exceedance	DO	Turbidity	pH	SS	$NH_4^{+-}N$	Zn	Total
W2	Action Level	0	0	0	**2**	0	**3**	**5**
	Limit Level	0	**21**	0	**43**	**26**	**19**	**109**
W6	Action Level	0	**9**	0	**4**	0	**4**	**17**
	Limit Level	0	**116**	0	**123**	**5**	**48**	**292**
Total	Action Level	0	**9**	0	**6**	0	**7**	**22**
	Limit Level	0	**137**	0	**166**	**31**	**67**	**401**

Table 3-3-5 Compliance of Water Quality Monitoring

Parameter		No. of Exceedance	Compliance of percent (%)
Water Quality	Suspended Solids	172	62.2%
	Turbidity	146	67.9%
	Dissolved Oxygen	0	100%
	pH	0	100%
	Ammonia	31	93.2%
	Zinc	74	83.7%
Overall Compliance of percent (%)		**423**	**84.5%**

3.3.2 Discussion

Dissolved Oxygen (DO)

Graphical plots of DO in ***Appendix D*** and ***Table 3-3-2*** show that the DO levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated well below the environmental quality criteria, i.e. Action/Limit Level, as shown in ***Table 3-3-1*** with average of 4.32 and 3.94mg/L respectively.

Occasional over-saturated DO can be seen in the graphs. Neither NOE nor remedial actions were required according to the requirements stipulated in the Event and Action Plan.

pH Value

Graphical plots of pH in ***Appendix D*** and ***Table 3-3-2*** show that the pH levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated within an average range of 6.27 to 8.63 and 6.28 to 8.68 with average of 7.43 and 7.63 pH value respectively. Neither NOE nor remedial actions were required according to the requirements stipulated in the Event and Action Plan.

Turbidity (NTU)

Graphical plots of turbidity in ***Appendix D*** and ***Table 3-3-2*** show that the turbidity levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated within a range of 2.05 to 710.0 NTU and 3.15 to 315.0 NTU.

As shown in ***Table 3-3-4***, a total of 9 Action Level and 137 Limit Level exceedances were recorded during construction period and the total compliance percentage of environmental criteria is 67.9%. NOE were issued, investigated and followed-up according to the requirements stipulated in the Event and Action Plan.

According to information as include construction activities and mitigation measures implementation during exceedance days submitted by the Contractor, the exceedances were considered not to be works related and no remediation actions were taken. A trend of narrowing down can be seen after May 2011, when the substantial completion of the construction work s under the Project was certified by the ER from 30 May 2011.

Suspended Solids (SS)

Graphical plots of SS in ***Appendix D*** and ***Table 3-3-3*** show that the turbidity levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated within an range of 2.0 to 1460.0 mg/L and 2.0 to 1650.0 mg/L respectively.

As shown in ***Table 3-3-4***, a total of 6 Action Level and 166 Limit Level exceedances were recorded during construction period and the total compliance percentage of environmental criteria is 62.2%. NOE were issued, investigated and followed-up according to the requirements stipulated in the Event and Action Plan.

According to information as include construction activities and mitigation measures implementation during exceedance days submitted by the Contractor, the exceedances were considered not to be works related and no remediation actions were taken. A trend of narrowing down can be seen after May 2011, when the substantial completion of the construction work s under the Project was certified by the ER from 30 May 2011.

Ammonia

Graphical plots of Ammonia in ***Appendix D*** and ***Table 3-3-3*** show that the turbidity levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated within an range of 0.01 to 59.8 mg/L and 0.01 to 60.50 mg/L respectively.

As shown in ***Table 3-3-4***, a total of 31 Limit Level exceedances were recorded during construction period and the total compliance percentage of environmental criteria is 93.2%. NOE were issued, investigated and followed-up according to the requirements stipulated in the Event and Action Plan.

According to information as include construction activities and mitigation measures implementation during exceedance days submitted by the Contractor, the exceedances were considered not to be works related and no remediation actions were taken. A trend of narrowing down can be seen after May 2011, when the substantial completion of the construction work s under the Project was certified by the ER from 30 May 2011.

Zinc

Graphical plots of Ammonia in ***Appendix D*** and ***Table 3-3-3*** show that the turbidity levels at both 2 impact monitoring stations, namely W2 &W6, fluctuated within an range of 9.99 mg/L to 1670.0 mg/L and 9.99 to 2070.0 mg/L respectively.

As shown in ***Table 3-3-4***, a total of 7 Action Level and 67 Limit Level exceedances were recorded during construction period and the total compliance percentage of environmental criteria is 93.7%. NOE were issued, investigated and followed-up according to the requirements stipulated in the Event and Action Plan.

According to information as include construction activities and mitigation measures implementation during exceedance days submitted by the Contractor, the exceedances were considered not to be works related and no remediation actions were taken. A trend of narrowing down can be seen after May 2011, when the substantial completion of the construction work s under the Project was certified by the ER from 30 May 2011.

3.3.3 Other Factors

It is noted that abnormally high frequency of exceedance of the existing water quality criteria has occurred since the commencement of the water quality monitoring at KT13. Refer to baseline monitoring period, which was carried out between 18 March to 24 April 2008 in typical Hong Kong dry season. The DO condition might be decreased significantly in hot season, in particular under sunlight condition, due to significant increase of the temperature in the monitoring streams to assist the bacteria grow and significant decrease of oxygen concentration. Also, the high water flow during wet seasonal should be affected the water parameters.

Besides, pigsty discharge was regularly observed near monitoring Location W2. Although the majority work at Location W6 has been completed and it was left in idling, high levels of Turbidity, Suspended solids, NH_4^+-N and Zinc were also recorded at upstream station W2 and control stations, it is believed that the exceedances were likely due to the discharge from the agriculture farm and livestock at the vicinity as water quality throughout the channel was affected.

3.3.4 Compare and Contrast the EM&A data with EIA Prediction

The possible water quality impact due to the construction activities of the Project has been addressed in the EIA. With the effective implementation of the mitigation measures, impacts on the water quality of receiving water bodies due to the operation of the project are expected to be negligible. However, exceedances of water quality performance criteria were frequently recorded during the construction period. Since the channel continues to receive some domestic wastewater from the nearby un-sewered villages houses and surface runoff from the nearby livestock farms, it was concluded that all the exceedances were not related to the works of the Project. As a result, the EM&A result were found in line with the EIA Prediction.

3.3.5 Discussion and Conclusion

Discussion

Construction activities under the Project involved extensive excavation and installation of gabion wall along the existing river channels. According to the observation during regular environmental site inspection and audit in rainy reason, a high speed water flow or a lot of rain fall into the river channels in always to be recorded. As concern that water quality during the rainy season would be affected, river bed construction activities are recommended to be undertaken during dry seasonal.

Conclusion

Precision of the prediction of the Final EIA on the adverse water quality impacts to be generated from the construction of the Project is acceptable. The water quality monitoring performed

during the Reporting Period is effective for generating data with the necessary statistical power to categorically identify or confirm the presence or absence of the predicted environmental impacts attributable to the works under the Project. The water quality mitigation measures as recommended in MMIS are also proven effective and adequate.

3.3.6 Practicality and Effectiveness of the EIA process and the EM&A programme

Monitoring and auditing of water quality was recommended for the construction phase of the Project in the EIA process to ensure compliance with the appropriate criterion at the receivers.

The water quality monitoring methodology and the selected parameters were effectively monitor the water quality impacts of the Project. Baseline water quality monitoring determined the ambient condition of the stream water quality prior to commencement of construction works. During the construction phase of the project, the monitoring results at impact and control water monitoring station were well reflected the impacts of the construction work. The monitoring works are therefore considered to be cost effective for the Project.

Water quality mitigation measures recommended in the EIA Report were stipulated in the EM&A Manual for the Contractor to implement during the construction phase of the Project. All recommended mitigation measures were applicable to the Project. As discussed above, the Project did not cause adverse water quality impacts to the receivers. Therefore, the mitigation measures implemented were effective and efficient in controlling water quality impacts.

Assessment and analysis of water quality monitoring results collected throughout the baseline and impact monitoring periods demonstrated the environmental acceptability of the Project. Weekly site inspections ensured that the EIA recommended noise mitigation measures were effectively implemented. The EM&A program is considered to be cost effective.

3.4 ECOLOGY

3.4.1 Action and Limit Levels

The Action and Limit Levels for Construction Ecology Monitoring are shown in ***Table 3-4-1*** to according with the EM&A manual.

Table 3-4-1 Ecological Action and Limit Levels

Parameters	Action Level	Limit Level
Decrease in number of breeding egrets since previous year	>20%	> 40%

3.4.2 Results

In the construction period, a total of **36** events of ecology bird surveys were undertaken and the monitoring results are summarized in ***Tables 3-4-2*** to ***3-4-4***. Ho Pui and Ma On Hong Egretry and Flight line survey have been carried out by our ecology specialist as specified in the EM&A Manual. The monitoring results demonstrated no exceedance was recorded in both year of 2009, 2010 and 2011. Hence, the action/limit level for ecology during the whole construction period is complied.

Table 3-4-2 Summary of Ecology Impact Monitoring Bird Survey (1st year)

	Abundance											
	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09	Apr 09	May 09	Jun 09	Jul 09	Aug 09	Sep 09
Number of Species	13 (0)	20 (4)	17 (3)	18 (2)	19 (3)	23 (3)	21 (1)	24 (2)	19 (1)	16 (1)	19 (3)	21 (4)
Number of Individuals	37 (0)	100 (12)	53 (7)	51 (4)	55 (6)	70 (6)	78 (4)	69 (6)	61 (2)	57 (3)	59 (3)	64 (5)

Note: The numbers in brackets dented the number of wetland-dependent species / individuals.

Table 3-4-3 Summary of Ecology Impact Monitoring Bird Survey (2nd year)

	Abundance											
	Oct 09	**Nov 09**	**Dec 09**	**Jan 10**	**Feb 10**	**Mar 10**	**Apr 10**	**May 10**	**Jun 10**	**Jul 10**	**Aug 10**	**Sep 10**
Number of Species	18 (2)	20 (3)	19 (2)	23 (3)	22 (3)	21 (4)	19 (3)	19 (2)	17 (4)	20 (3)	21 (4)	24 (4)
Number of Individuals	55 (3)	55 (6)	49 (7)	66 (8)	55 (9)	57 (8)	51 (4)	56 (4)	53 (9)	53 (9)	51 (8)	70 (5)

Note: The numbers in brackets dented the number of wetland-dependent species / individuals.

Table 3-4-4 Summary of Ecology Impact Monitoring Bird Survey (3rd year)

	Abundance											
	Oct 10	**Nov 10**	**Dec 10**	**Jan 11**	**Feb 11**	**Mar 11**	**Apr 11**	**May 11**	**Jun 11**	**Jul 11**	**Aug 11**	**Sep 11**
Number of Species	20 (4)	20 (3)	20 (2)	22 (3)	23 (4)	20 (4)	17 (3)	18 (2)	16 (4)	21 (4)	20 (3)	21 (3)
Number of Individuals	57 (6)	55 (6)	51 (7)	62 (8)	55 (9)	55 (9)	53 (6)	56 (5)	49 (7)	53 (9)	61 (5)	65 (5)

Note: The numbers in brackets dented the number of wetland-dependent species / individuals.

3.5 CULTURAL HERITAGE

The Action and Limit Levels for Cultural Heritage are shown in ***Table 3-5-2*** according to the EM&A Manual.

Table 3-5-2 Cultural Heritage Resources Action and Limit Levels

Action Level	Limit Level
When damage or structural instability is first detected	Signs of deterioration and structural instability continues on subsequent visits after Action Level is triggered

Cultural heritage monitoring was required in accordance with the approved methodology while there was construction work conducted within 100m area from the cultural heritage site within KT13. During the Construction Period, **85** events of settlement monitoring of the historic grave were carried out in the period of 24 October 2009 to 25 June 2011. In view of the monitoring results, 12 Action Level exceedances were triggered during the settlement monitoring and they are summarized in ***Table 3-5-3.*** The investigation for the cause of exceedances was completed and it was concluded that all the exceedances were not related to the work under the Project.

Table 3-5-3 Summary of Exceedances for Settlement Monitoring

Exceedance occurred (monitoring month)	No. of exceedance
October 2009	2
November 2009	3
December 2009	2
January 2010	1
February 2010	2
March 2010	2
Total no. of exceedance	**12**

3.6 LANDSCAPE AND VISUAL

70 events of Landscape and visual inspections were conducted in this Construction Period. Current situation of the identified landscape resources remained the same as those of the baseline, except minor changes of river/stream/fish pond landscape character area at LR1, LR2.1, LR2.2, LCA1, LCA3 and LCA4 due to site clearance, soil stockpiling and preparation work within KT13.

4 NON-COMPLIANCE, COMPLAINT, NOTIFICATION OF SUMMONS, SUCCESSFUL PROSECUTION AND OTHERS

4.1 NON-COMPLIANCE

No non-compliance or deficiency was identified during regular site inspection and environmental audit. No associated remedial action was necessary.

4.2 ENVIRONMENTAL COMPLAINT

No written or verbal complaint was received for each environmental issue during the Construction Period. No associated remedial action was necessary.

4.3 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

No notifications of summons and successful prosecutions were recorded during the Construction Period. No associated remedial action was necessary.

4.4 OTHERS

4.4.1 Waste Management Status

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 and sediment

Liquid Waste

Construction wastewater was discharged to the receiving water bodies according to the requirements stipulated in discharge licenses granted by EPD.

Chemical waste mainly waste oils generated from construction plant were collected in suitable pails or oil drums and disposed of by licensed contractors regularly.

Domestic waste was collected in septic tanks of the site offices or chemical toilets in the construction site and was disposed of by licensed contractors regularly.

Solid Waste

Waste Flow Table showing details of disposal of solid waste generated from the construction of the Project during the Reporting Period.

The inert C&D materials were also reused in the construction of the Project as well as other construction projects in the vicinity.

Waste generated, re-used, recycled and disposed of during the Reporting Period is shown in ***Appendix G: Monthly Summary Waste Flow Table.*** The quantities of Type I and Type II contaminated material for disposal in this reporting period are summarized in ***Tables 4-4-1*** and ***4-4-2.***

Table 4-4-1 Summary of Quantities of Type I Contaminated Material disposal off site

Date	No of Truck	Quantity (m^3)	Location of disposal
October 2008	120	720	East Sha Chau
November 2008	850	5100	East Sha Chau
December 2008	890	5460	East Sha Chau
February 2009	232	1392	East Sha Chau

Table 4-4-2 Summary of Quantities of Type II Contaminated Material disposal off site

Date	No of Truck	Quantity (m^3)	Location of disposal
October 2008	350	2,100	East Sha Chau

4.4.2 Site Inspection and Environmental Audit

In the Construction Period, **158** occasions of weekly environmental site inspection and audit were conducted during the Reporting Period jointly by the ER, EO and ET. No adverse environmental impacts were registered, indicating that the mitigation measures implemented were effective and sufficient for the construction activities undertaken. Minor deficiencies found in the site inspection and audit were in general rectified within the specified deadlines.

5 CONCLUSIONS AND RECOMMENDATIONS

Substantial completion of works for Channel KT13 had been certified by the Engineer's Representative on 30 May 2011. In view of the progress of the remaining works and the associated environmental monitoring and audit results, in particular sustainable non-existence of documented environmental complaints and works related exceedances of environmental quality criteria, letter of termination of EM&A programme has been submitted to EPD on 18 October 2011 and the monitoring work was ceased on the same day.

This Final EM&A Report for the Project summarized the key environmental monitoring results throughout the construction phase in accordance with the EM&A Manual Section 10.6.3. The whole period of the drainage work at Channel KT13 covered from 20 October 2008 to 18 October 2011 (hereafter "the Construction Period'). The EM&A programme i.e. air quality, construction noise, water quality, ecology and waste management were undertaken as a total of 37 construction months.

In the whole construction period, no breaches in 24-hour TSP, 1-hour TSP monitoring, noise monitoring and ecology monitoring were recorded. The monitoring result also demonstrated a trend of return of ambient condition after completion of the Project.

A total of 423 water quality exceedances were recorded during construction phase. There were 22 exceedances found for Action Level and 401 Limit Level. The overall compliance rate of water quality monitoring in the construction period is 84.5%. Investigation showed that all exceedances were not works related.

Settlement monitoring of the historic grave was carried out when construction work entered the 100m of the cultural heritage site. In the construction period, 12 Action Level exceedances were recorded in the settlement monitoring which all concluded at related to the work under the Project.

No environmental complaint, notification of summons and successful prosecution was received during the Construction Period. Minor deficiencies found in the weekly site inspection and auditing were in general rectified within the specified deadlines. The environmental performance of the Project construction works was therefore considered satisfactory.

The construction works under the Project did not cause any unacceptable environmental impacts or disturbance to the air quality and noise in the vicinity of project area during the construction period. Based on the monitoring data collected and reviewed during the construction period, it can be confirmed that the EM&A programme is effective. Any deterioration in environmental condition was readily detected and timely actions were taken to rectify any non-compliance.

The EM&A programme effectively monitored the environmental impacts from the construction phase of the Project and no particular recommendation was advised for the improvement of the programme

In conclusion, monitoring results of air quality, construction noise, water quality and ecology in general indicated satisfactory environmental performance of the Project.

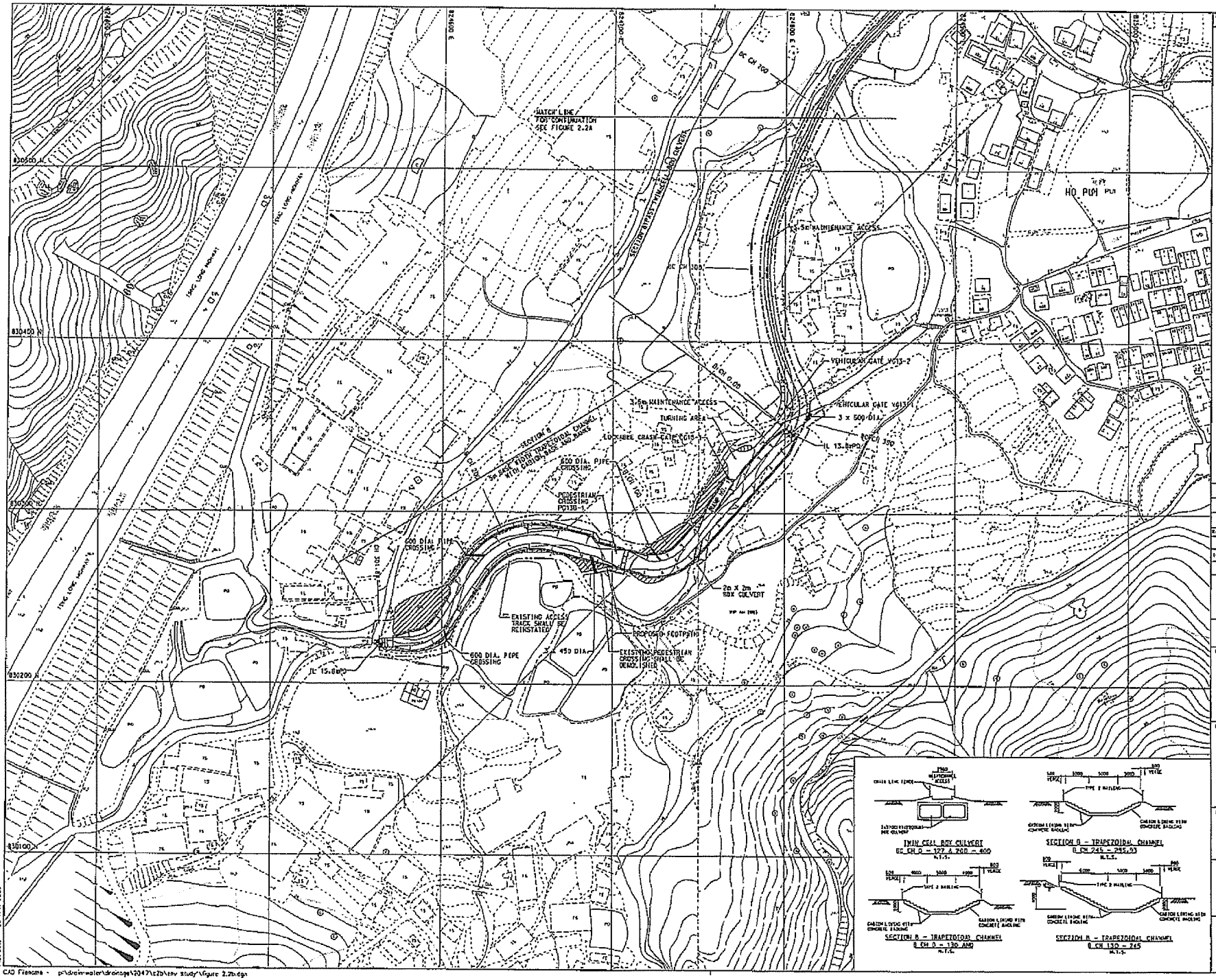
END OF TEXT

Appendix A

Location Plan and

Environmental Monitoring Locations

Under the Project



NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. GRID LINES ARE HONG KONG METRIC GRID 1980.
3. TYPE 2 RAILING WITH DEBRIS TRAP BAR AND GENERAL MESH FILL SHALL BE PROVIDED AT BOTH SIDES OF THE CHANNEL BANKS

LEGEND :

- SITE BOUNDARY
- PROPOSED CHANNEL
- PROPOSED SLOPE
- AREA TO BE FILLED TO ADJACENT GROUND LEVEL
- I.L. INVERT LEVEL
- PROPOSED RETAINING WALL

Revision	Date	Description	Initial
C	03/06	AMENDMENT TO BY-PASS CULVERT	KIL
B	10/05	MINOR AMENDMENT TO CHANNEL LAYOUT	KIL
A	05/05	MINOR AMENDMENTS TO SITE BOUNDARY	KIL

	Designed	Checked	Drawn	Verified
Initial	TW	KIL	MK	KIL
Date	04/04	04/04	04/04	04/04

Approved

AGREEMENT NO. CE 67/98

Contract title

YUEN LONG, KAM TIN, NGAU TAM MEI AND TIN SHUI WAI DRAINAGE IMPROVEMENT, STAGE 1, PHASE 2B - KAM TIN

Drawing title

MA ON KONG CHANNEL KT13 PROPOSED LAYOUT PLAN (SHEET 2 OF 2)

Drawing no.: FIGURE 1.3b

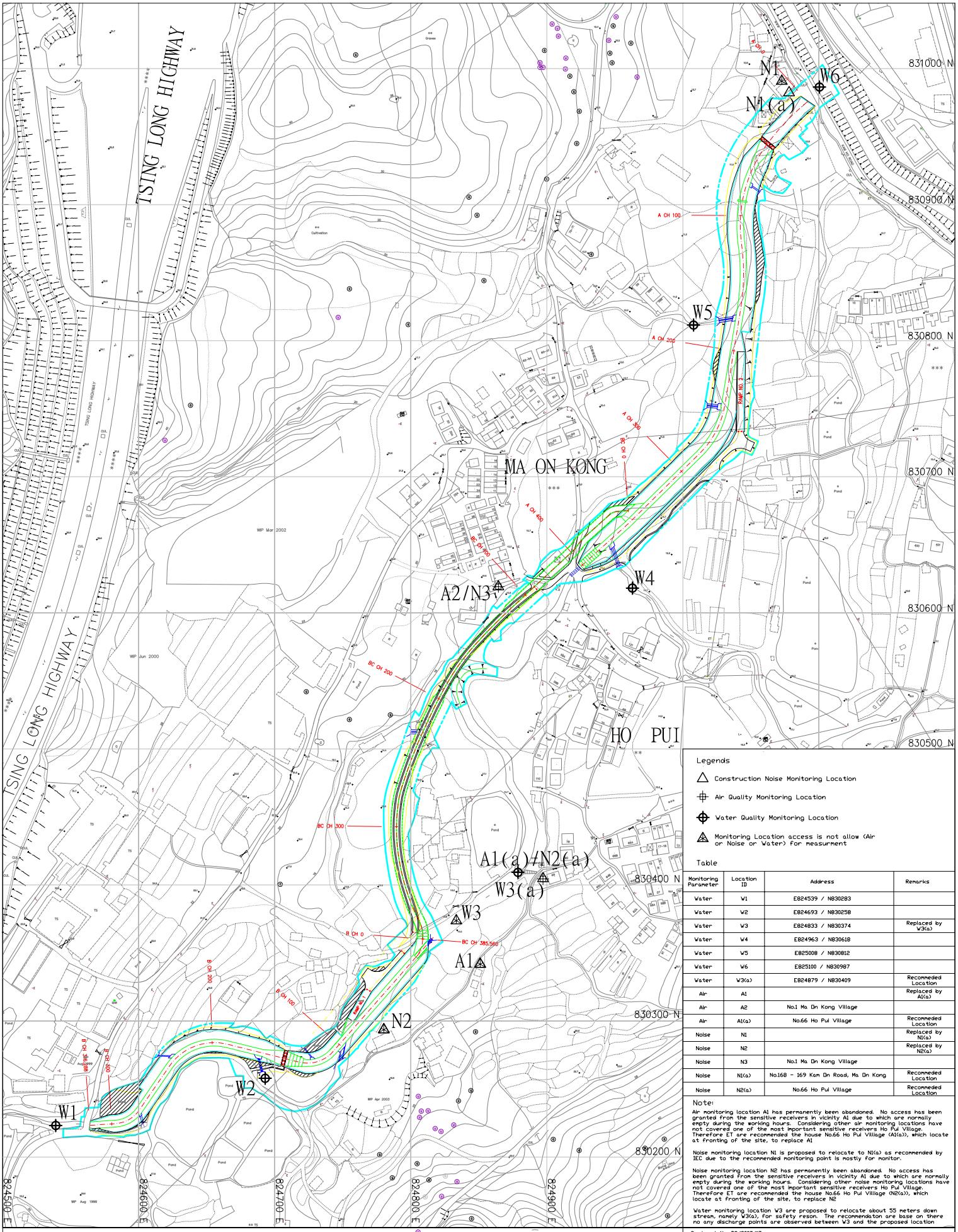
Scale: 1:1000 A1, 1:2000 A3

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
柏誠工程顧問有限公司

Plot Date - 26 APR 2006

CAD Filename - p:\drainwater\drainage\2047\e2b\env study\figure 2.2b.dgn



Legends

- Construction Noise Monitoring Location
- Air Quality Monitoring Location
- Water Quality Monitoring Location
- Monitoring Location access is not allow (Air or Noise or Water) for measurment

Table

Monitoring Parameter	Location ID	Address	Remarks
Water	W1	E824539 / N830283	
Water	W2	E824693 / N830258	
Water	W3	E824833 / N830374	Replaced by W3(a)
Water	W4	E824963 / N830618	
Water	W5	E825008 / N830812	
Water	W6	E825100 / N830987	
Water	W3(a)	E824879 / N830409	Recommeded Location
Air	A1		Replaced by A1(a)
Air	A2	No.1 Ma On Kong Village	
Air	A1(a)	No.66 Ho Pui Village	Recommeded Location
Noise	N1		Replaced by N1(a)
Noise	N2		Replaced by N2(a)
Noise	N3	No.1 Ma On Kong Village	
Noise	N1(a)	No.168 - 169 Kam On Road, Ma On Kong	Recommeded Location
Noise	N2(a)	No.66 Ho Pui Village	Recommeded Location

Note:

Air monitoring location A1 has permanently been abandoned. No access has been granted from the sensitive receivers in vicinity A1 due to which are normally empty during the working hours. Considering other air monitoring locations have not covered one of the most important sensitive receivers Ho Pui Village. Therefore ET are recommended the house No.66 Ho Pui Village (A1(a)), which locate at fronting of the site, to replace A1

Noise monitoring location N1 is proposed to relocate to N1(a) as recommended by IEC due to the recommended monitoring point is mostly for monitor.

Noise monitoring location N2 has permanently been abandoned. No access has been granted from the sensitive receivers in vicinity A1 due to which are normally empty during the working hours. Considering other noise monitoring locations have not covered one of the most important sensitive receivers Ho Pui Village. Therefore ET are recommended the house No.66 Ho Pui Village (N2(a)), which locate at fronting of the site, to replace N2

Water monitoring location W3 are proposed to relocate about 55 meters down stream, namely W3(a), for safety reson. The recommendaton are base on there no any discharge points are observed between W3 and the proposed location

Drawing:

Air, Noise and Stream Water Monitoring Location at KT-13

Contract No. DC/2007/17-
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin San Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

AUES

NOTES :

1. GRID LINES ARE HONG KONG METRIC GRID 1980.

LEGEND:

- MA ON KONG AND HO PUI ECRETARIES
- PROPOSED COMPENSATORY TREE PLANTING
- CONSERVATION AREA DENOTED ON OUTLINE ZONING PLAN
- WORKS BOUNDARY OF CHANNEL KY13
- ECOLOGY MONITORING AREAS

Revision	Date	Description			Initial
	Designed	Checked	Drawn		Checked
Initial	MC	KIL	YLL		KIL
Date	09/05	09/05	09/05		09/05

Approved

AGREEMENT NO. CE 67/98

Contract title

YUEN LONG, KAM TIN,
NGAU TAM MEI AND TIN SHUI WAI
DRAINAGE IMPROVEMENT, STAGE 1,
PHASE 2B – KAM TIN

Drawing title

ECOLOGY MONITORING AREAS
RECOMMENDED FOR
CONSTRUCTION PHASE AND
OPERATION PHASE

Drawing no.

Figure 6.1

Scale

1:2000 A1
1:4000 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
柏威工程顧問有限公司

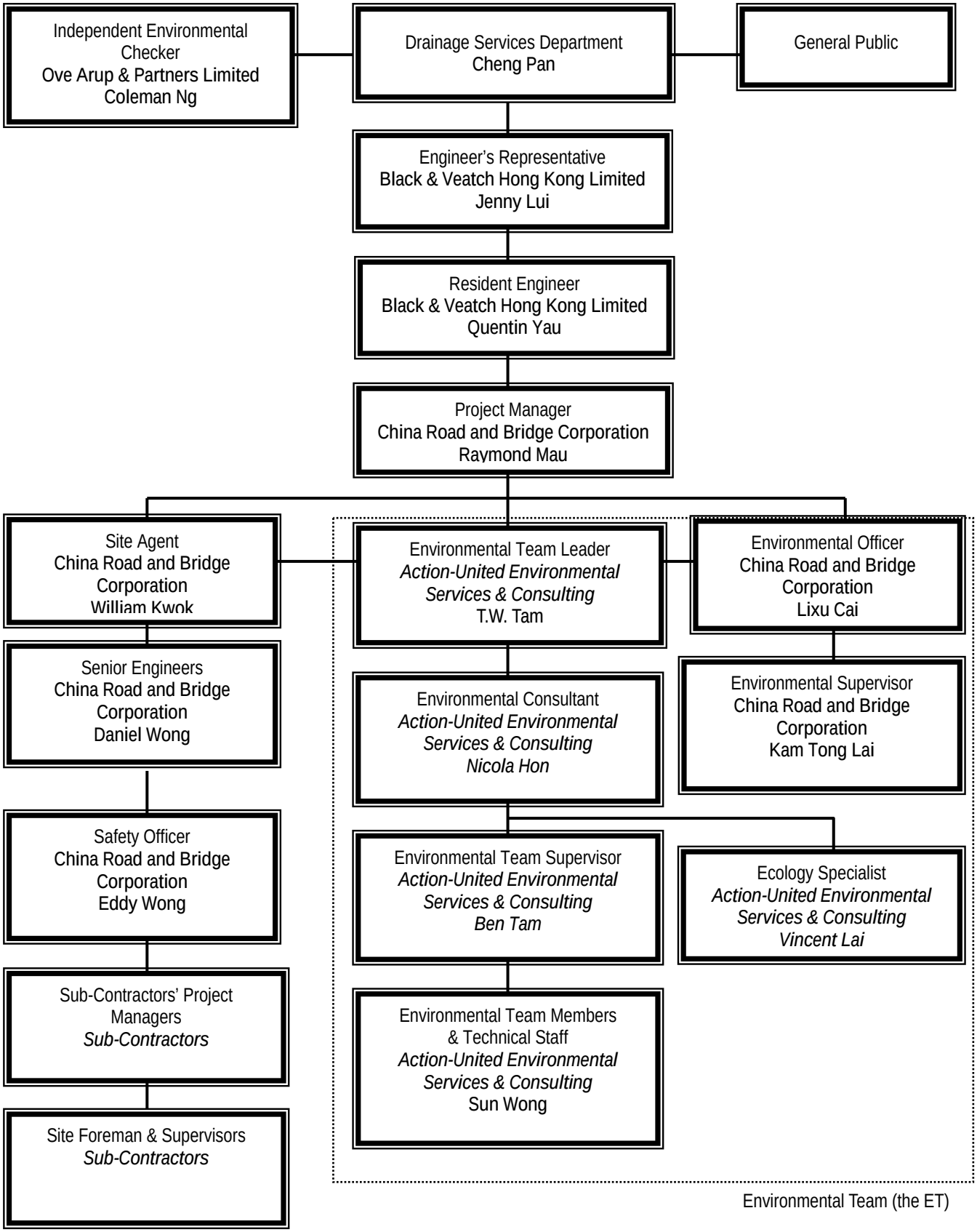
Plot Date : 25 APR 2006

CAD Filename : p:\drainage\2047\c2b\env study\fig6-1.dgn

Appendix B

Environmental Management Organization and

Contacts of Key Personnel



Environmental Management Organization

Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. Cheng Pan	2594-7264	2827-8526
B&V	Engineer's Representative	Ms. Jenny Lui	2478-9161	2478-9369
B&V	Resident Engineer	Mr. Quentin Yau	2478-9161	2478-9369
OAP	Independent Environmental Checker	Mr. Coleman Ng	2268-3097	2268-3950
CRBC	Project Director	Mr. Wang Yanhua	2283-1688	2283-1689
CRBC	Project Manager	Mr. Raymond Mau	9048-3669	2283-1689
CRBC	Site Agent	Mr. William Kwok	2478-9618	2478-9612
CRBC	Senior Engineer (Tuen Mun Site)	Mr. Daniel Wong	9858-3176	2478-9612
CRBC	Environmental Officer	Mr. Lixu Cai	6474-6975	2478-9612
CRBC	Environmental / Construction Supervisor	Mr. Kam Tong Lai	2478-9618	2478-9612
CRBC	Safety Officer	Mr. Eddy Wong	2478-9618	2478-9612
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Miss Nicola Hon	2959-6059	2959-6079
AUES	Environmental Site Inspector	Mr. Ben Tam	2959-6059	2959-6079
AUES	Ecologist	Mr. Vincent Lai	2959-6059	2959-6079

Legend:
DSD (Employer) – Drainage Services Department
B&V (Engineer) – Black & Veatch Hong Kong Limited
CRBC (Main Contractor) – China Road and Bridge Corporation
OAP (IEC) – Ove Arup & Partners Ltd
AUES (ET) – Action-United Environmental Services & Consulting

Appendix C

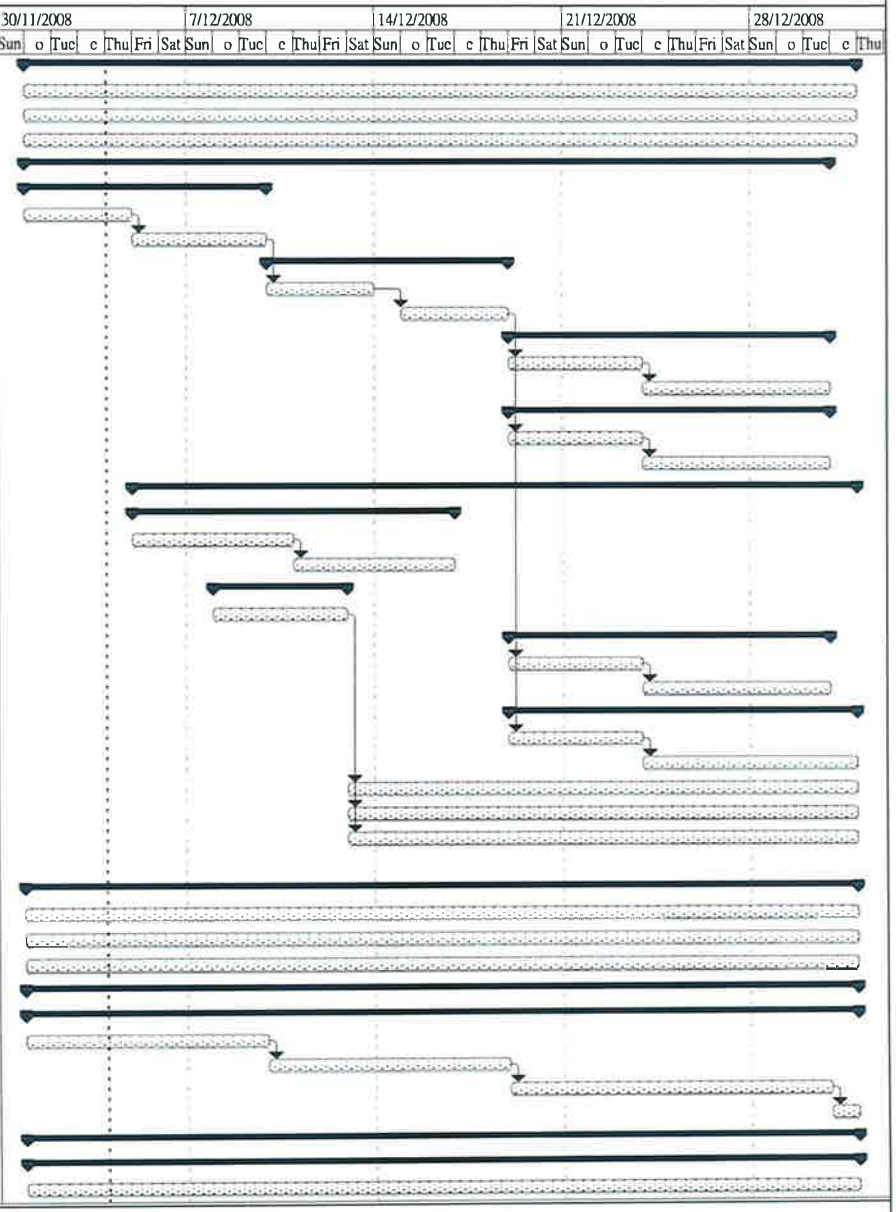
Construction Program

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Programme (December 2008)

ID	Task Name	Duration	Start	Finish
1	**Section I (Channel KT12)**	**25 days**	**2008/12/1**	**2008/12/31**
2	**Regular Environmental Impact Monitoring**	25 days	2008/12/1	2008/12/31
3	**Regular Tree Survey**	25 days	2008/12/1	2008/12/31
4	**Regular Structural Condition Survey**	25 days	2008/12/1	2008/12/31
5	**Construction of Trapezoidal Channel**	**24 days**	**2008/12/1**	**2008/12/30**
6	**Bay TC5 - West Wall (CH51.00 - CH63.00)**	**8 days**	**2008/12/1**	**2008/12/9**
7	1st Pour	4 days	2008/12/1	2008/12/4
8	2nd Pour	4 days	2008/12/5	2008/12/9
9	**Bay TC4 - West Wall (CH63.00 - CH78.00)**	**8 days**	**2008/12/10**	**2008/12/18**
10	1st Pour	4 days	2008/12/10	2008/12/13
11	2nd Pour	4 days	2008/12/15	2008/12/18
12	**Bay TC6 - West Wall (CH39.00 - CH51.00)**	**8 days**	**2008/12/19**	**2008/12/30**
13	1st Pour	4 days	2008/12/19	2008/12/23
14	2nd Pour	4 days	2008/12/24	2008/12/30
15	**Bay TC7 - West Wall (CH27.00 - CH39.00)**	**8 days**	**2008/12/19**	**2008/12/30**
16	1st Pour	4 days	2008/12/19	2008/12/23
17	2nd Pour	4 days	2008/12/24	2008/12/30
18	**Construction of Transition Structure**	**21 days**	**2008/12/5**	**2008/12/31**
19	**Bay TC2 (CH90.00 - 97.00)**	**10 days**	**2008/12/5**	**2008/12/16**
20	Construction of Base Slab	5 days	2008/12/5	2008/12/10
21	Construction of Wall	5 days	2008/12/11	2008/12/16
28	**Bay TC10 (CH4.00 - 10.00)**	**5 days**	**2008/12/8**	**2008/12/12**
29	Construction of Wall	5 days	2008/12/8	2008/12/12
22	**Bay TC8 - East Wall (CH17.00 - CH27.00)**	**8 days**	**2008/12/19**	**2008/12/30**
23	1st Pour	4 days	2008/12/19	2008/12/23
24	2nd Pour	4 days	2008/12/24	2008/12/30
25	**Bay TC9 (CH10.00 - CH17.74)**	**9 days**	**2008/12/19**	**2008/12/31**
26	Construction of Base Slab	4 days	2008/12/19	2008/12/23
27	Constructionn of Wall	5 days	2008/12/24	2008/12/31
30	**Backfilling (CH4.00 - CH105.00)**	14 days	2008/12/13	2008/12/31
31	**2 x 600mm Dia. Pipe Crossing at CH178.00 East Bank**	14 days	2008/12/13	2008/12/31
32	**Diversion of Existing Water Main to Pedestrian Crossing PC12-1**	14 days	2008/12/13	2008/12/31
33				
34	**Section II (Channel KT13)**	**25 days**	**2008/12/1**	**2008/12/31**
35	**Regular Environmental Impact Monitoring**	25 days	2008/12/1	2008/12/31
36	**Regular Tree Survey & Protection**	25 days	2008/12/1	2008/12/31
37	**Regular Structural Condition Survey**	25 days	2008/12/1	2008/12/31
38	**Section A**	**25 days**	**2008/12/1**	**2008/12/31**
39	**Excavation to Channel Formation & Laying of Rock Fill Material**	**25 days**	**2008/12/1**	**2008/12/31**
40	Bay 1 (A CH00.00 - A CH20.00)	8 days	2008/12/1	2008/12/9
41	Bay 2 (A CH20.00 - A CH40.00)	8 days	2008/12/10	2008/12/18
42	Bay 3 (A CH40.00 - A CH60.00)	8 days	2008/12/19	2008/12/30
43	Bay 4 (A CH60.00 - A CH80.00)	1 day	2008/12/31	2008/12/31
44	**Section of Box Culvert BC13-1**	**25 days**	**2008/12/1**	**2008/12/31**
45	**Excavation to Channel Formation & Laying of Rock Fill Material**	**25 days**	**2008/12/1**	**2008/12/31**
46	Bay 1 (BC CH00.00 - BC CH50.00)	25 days	2008/12/1	2008/12/31



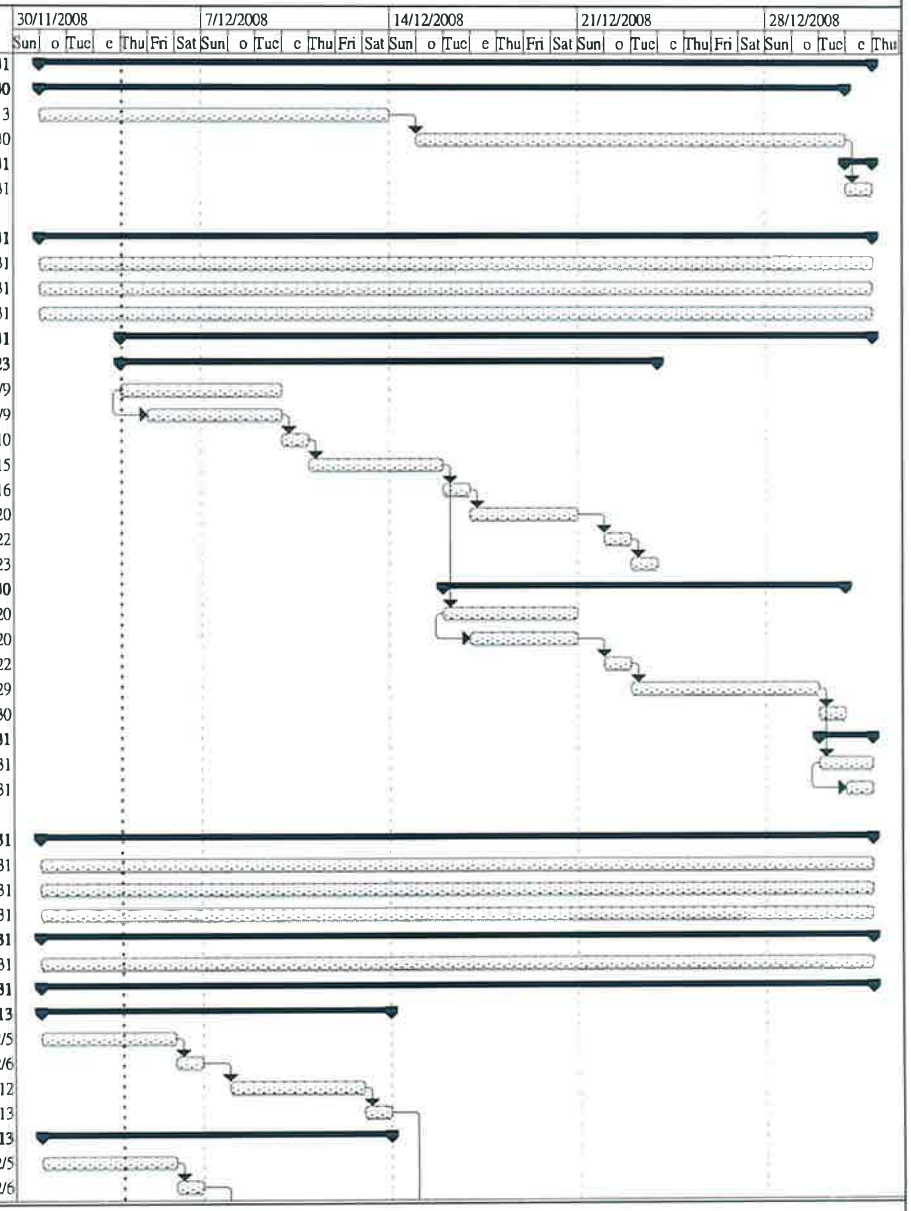
Task — Progress — Summary — External Tasks — Deadline
Split — Milestone — Project Summary — External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Programme (December 2008)

ID	Task Name	Duration	Start	Finish
47	**Section B**	**25 days**	**2008/12/1**	**2008/12/31**
48	**Excavation to Channel Formation & Laying of Rock Fill Material**	**24 days**	**2008/12/1**	**2008/12/30**
49	Bay 1 (B CH300.00 - B CH316.00)	12 days	2008/12/1	2008/12/13
50	Bay 2 (B CH300.00 - B CH292.00) - Transition	12 days	2008/12/15	2008/12/30
51	**Construction of Channel Structures**	**1 day**	**2008/12/31**	**2008/12/31**
52	Bay 1 (B CH300.00 - B CH316.00)	1 day	2008/12/31	2008/12/31
53				
54	**Section III (Channel KT14A)**	**25 days**	**2008/12/1**	**2008/12/31**
55	**Regular Environmental Impact Monitoring**	25 days	2008/12/1	2008/12/31
56	**Regular Tree Survey**	25 days	2008/12/1	2008/12/31
57	**Regular Structural Condition Survey**	25 days	2008/12/1	2008/12/31
58	**Construction of Rectangular Channel**	**22 days**	**2008/12/4**	**2008/12/31**
59	**Bay 1 (CH0.00 - CH11.00)**	**17 days**	**2008/12/4**	**2008/12/23**
60	Excavation	5 days	2008/12/4	2008/12/9
61	Installation of Sheet Piling	4 days	2008/12/5	2008/12/9
62	Cast Blinding Layer	1 day	2008/12/10	2008/12/10
63	Construction of Base Slab	4 days	2008/12/11	2008/12/15
64	Backfilling to the Kicker Level	1 day	2008/12/16	2008/12/16
65	Construction of Vertical Wall	4 days	2008/12/17	2008/12/20
66	Backfilling	1 day	2008/12/22	2008/12/22
67	Removal of Sheet Piling	1 day	2008/12/23	2008/12/23
68	**Bay 2 (CH11.00 - CH23.00)**	**11 days**	**2008/12/16**	**2008/12/30**
69	Excavation	5 days	2008/12/16	2008/12/20
70	Installation of Sheet Piling	4 days	2008/12/17	2008/12/20
71	Cast Blinding Layer	1 day	2008/12/22	2008/12/22
72	Construction of Base Slab	4 days	2008/12/23	2008/12/29
73	Backfilling to the Kicker Level	1 day	2008/12/30	2008/12/30
74	**Bay 3 (CH23.00 - CH35.00)**	**2 days**	**2008/12/30**	**2008/12/31**
75	Excavation	2 days	2008/12/30	2008/12/31
76	Installation of Sheet Piling	1 day	2008/12/31	2008/12/31
77				
78	**Section IV (Channel KT14B & KT14C)**	**25 days**	**2008/12/1**	**2008/12/31**
79	**Regular Environmental Impact Monitoring**	25 days	2008/12/1	2008/12/31
80	**Regular Tree Survey & Protection**	25 days	2008/12/1	2008/12/31
81	**Regular Structural Condition Survey**	25 days	2008/12/1	2008/12/31
82	**Construction of Kam Sheung Road (Portion 8B)**	**25 days**	**2008/12/1**	**2008/12/31**
83	Construction of Channel between existing and CP9	25 days	2008/12/1	2008/12/31
84	**Construction of Rectangular Channel of KT14B**	**25 days**	**2008/12/1**	**2008/12/31**
85	**Bay 12 (CH110.00 - CH122.00)**	**12 days**	**2008/12/1**	**2008/12/13**
86	Excavation	5 days	2008/12/1	2008/12/5
87	Cast Blinding Layer	1 day	2008/12/6	2008/12/6
88	Construction of Base Slab & Vertical Wall	5 days	2008/12/8	2008/12/12
89	Backfilling	1 day	2008/12/13	2008/12/13
95	**Bay 13-2 (CH125.00 - CH134.00)**	**12 days**	**2008/12/1**	**2008/12/13**
96	Excavation	5 days	2008/12/1	2008/12/5
97	Cast Blinding Layer	1 day	2008/12/6	2008/12/6



Task Progress Summary External Tasks Deadline

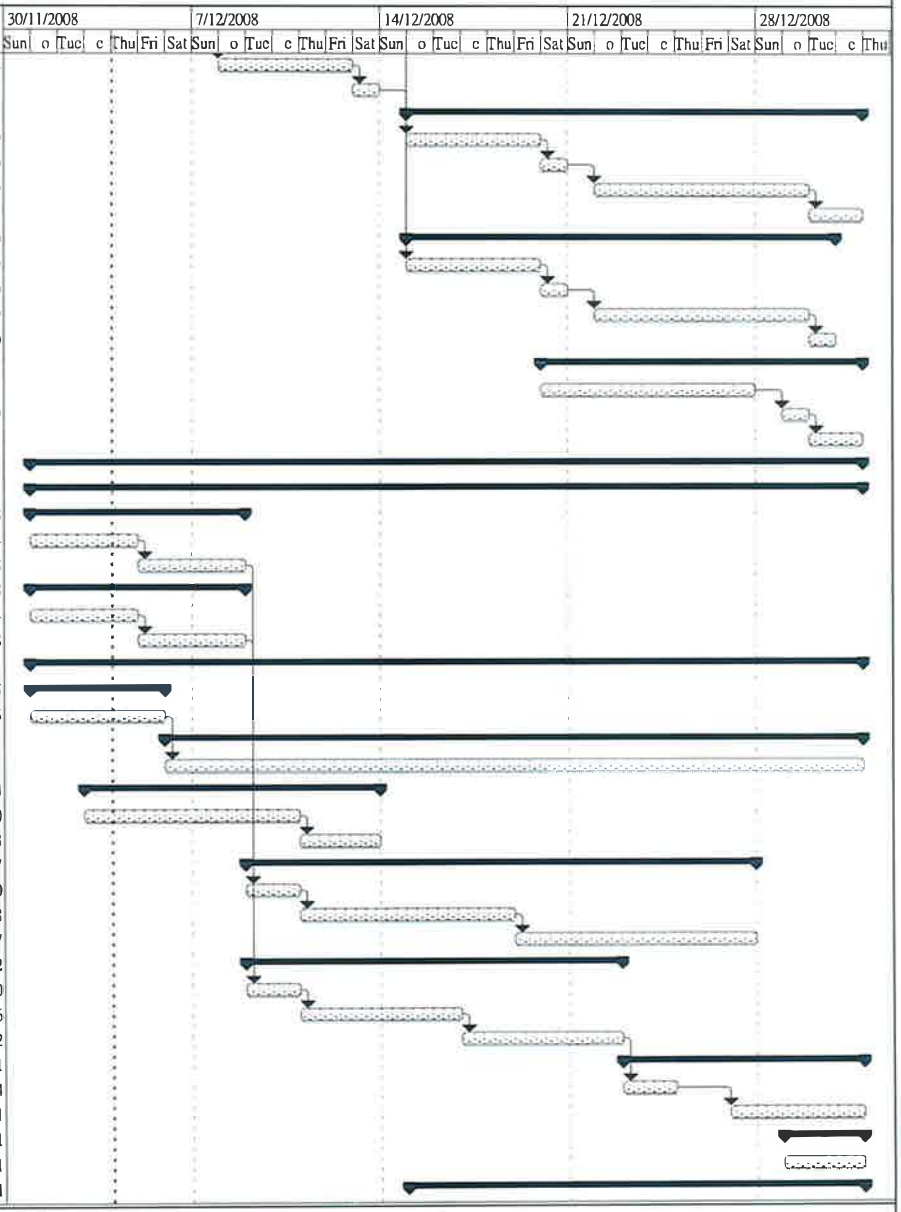
Split Milestone Project Summary External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Programme (December 2008)

ID	Task Name	Duration	Start	Finish
98	Construction of Base Slab & Vertical Wall	5 days	2008/12/8	2008/12/12
99	Backfilling	1 day	2008/12/13	2008/12/13
90	**Bay 13-1 (CH122.00 - CH125.00)**	**13 days**	**2008/12/15**	**2008/12/31**
91	Excavation	5 days	2008/12/15	2008/12/19
92	Cast Blinding Layer	1 day	2008/12/20	2008/12/20
93	Construction of Base Slab	5 days	2008/12/22	2008/12/29
94	Construction of Vertical Wall & Top Slab	2 days	2008/12/30	2008/12/31
100	**Bay 14 (CH134.00 - CH146.00)**	**12 days**	**2008/12/15**	**2008/12/30**
101	Excavation	5 days	2008/12/15	2008/12/19
102	Cast Blinding Layer	1 day	2008/12/20	2008/12/20
103	Construction of Base Slab & Vertical Wall	5 days	2008/12/22	2008/12/29
104	Backfilling	1 day	2008/12/30	2008/12/30
105	**Bay 15 (CH146.00 - CH158.00)**	**8 days**	**2008/12/20**	**2008/12/31**
106	Excavation	5 days	2008/12/20	2008/12/27
107	Cast Blinding Layer	1 day	2008/12/29	2008/12/29
108	Construction of Base Slab & Vertical Wall	2 days	2008/12/30	2008/12/31
109	**Construction of Rectangular Channel of KT14C**	**25 days**	**2008/12/1**	**2008/12/31**
110	**West Portion (CH0.00 - CH183.00)**	**25 days**	**2008/12/1**	**2008/12/31**
114	**Bay 7W (CH55.00 - CH68.00)**	**7 days**	**2008/12/1**	**2008/12/8**
115	Construction of Base Slab & Vertical Wall	4 days	2008/12/1	2008/12/4
116	Backfilling	3 days	2008/12/5	2008/12/8
121	**Bay 10W (CH92.00 - CH104.00)**	**7 days**	**2008/12/1**	**2008/12/8**
122	Construction of Base Slab & Vertical Wall	4 days	2008/12/1	2008/12/4
123	Backfilling	3 days	2008/12/5	2008/12/8
133	**Bay 17W (CH174.00 - CH183.00)**	**25 days**	**2008/12/1**	**2008/12/31**
134	**Bay 1 - Pedestrian Section**	**5 days**	**2008/12/1**	**2008/12/5**
135	Construction of Vertical Wall & Top Slab	5 days	2008/12/1	2008/12/5
136	**Bay 2 - Road Section**	**20 days**	**2008/12/6**	**2008/12/31**
137	Expose and Diversion of Utility	20 days	2008/12/6	2008/12/31
111	**Bay 1W (CH1.00 - CH6.00)**	**10 days**	**2008/12/3**	**2008/12/13**
112	Construction of Base Slab & Vertical Wall	7 days	2008/12/3	2008/12/10
113	Backfilling	3 days	2008/12/11	2008/12/13
117	**Bay 9W (CH80.00 - CH92.00)**	**15 days**	**2008/12/9**	**2008/12/27**
118	Cast Blinding Layer	2 days	2008/12/9	2008/12/10
119	Construction of Base Slab & Vertical Wall	7 days	2008/12/11	2008/12/18
120	Backfilling	6 days	2008/12/19	2008/12/27
124	**Bay 11W (CH104.00 - CH116.00)**	**12 days**	**2008/12/9**	**2008/12/22**
125	Cast Blinding Layer	2 days	2008/12/9	2008/12/10
126	Construction of Base Slab & Vertical Wall	5 days	2008/12/11	2008/12/16
127	Backfilling	5 days	2008/12/17	2008/12/22
128	**Bay 12W (CH116.00 - CH128.00)**	**6 days**	**2008/12/23**	**2008/12/31**
129	Cast Blinding Layer	2 days	2008/12/23	2008/12/24
130	Construction of Base Slab & Vertical Wall	4 days	2008/12/27	2008/12/31
131	**Bay 13W (CH128.00 - CH139.00)**	**3 days**	**2008/12/29**	**2008/12/31**
132	Excavation	3 days	2008/12/29	2008/12/31
138	**East Portion (CH183.00 - CH484.00)**	**13 days**	**2008/12/15**	**2008/12/31**



Task — Progress — Summary — External Tasks — Deadline

Split — Milestone — Project Summary — External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Programme (December 2008)

ID	Task Name	Duration	Start	Finish
139	**Bay 1E (CH466.00 - CH484.00)**	**13 days**	**2008/12/15**	**2008/12/31**
140	Excavation	10 days	2008/12/15	2008/12/27
141	Installation of Sheet Piling	8 days	2008/12/16	2008/12/24
142	Cast Blinding Layer	2 days	2008/12/29	2008/12/30
143	Construction of Base Slab	1 day	2008/12/31	2008/12/31
144	**Bay 3E (CH448.00 - CH460.00)**	**13 days**	**2008/12/15**	**2008/12/31**
145	Excavation	10 days	2008/12/15	2008/12/27
146	Installation of Sheet Piling	8 days	2008/12/16	2008/12/24
147	Cast Blinding Layer	2 days	2008/12/29	2008/12/30
148	Construction of Base Slab	1 day	2008/12/31	2008/12/31
149				
150	**Section V (For Section I, II, III & IV)**	**25 days**	**2008/12/1**	**2008/12/31**
151	Preservation and Protection of Trees	25 days	2008/12/1	2008/12/31
152				
153	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**25 days**	**2008/12/1**	**2008/12/31**
154	Structural Survey and Monitoring	25 days	2008/12/1	2008/12/31
155	Construction of Manhole, Timber Box and Trench Excavation	25 days	2008/12/1	2008/12/31
156	Apply XP Approval for Construction	25 days	2008/12/1	2008/12/31
157				
158	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**25 days**	**2008/12/1**	**2008/12/31**
159	Structural Survey and Monitoring	25 days	2008/12/1	2008/12/31
160	Construction of Manhole, Timber Box and Trench Excavation	25 days	2008/12/1	2008/12/31
161	Apply XP Approval for Construction	25 days	2008/12/1	2008/12/31

Task Progress Summary External Tasks Deadline

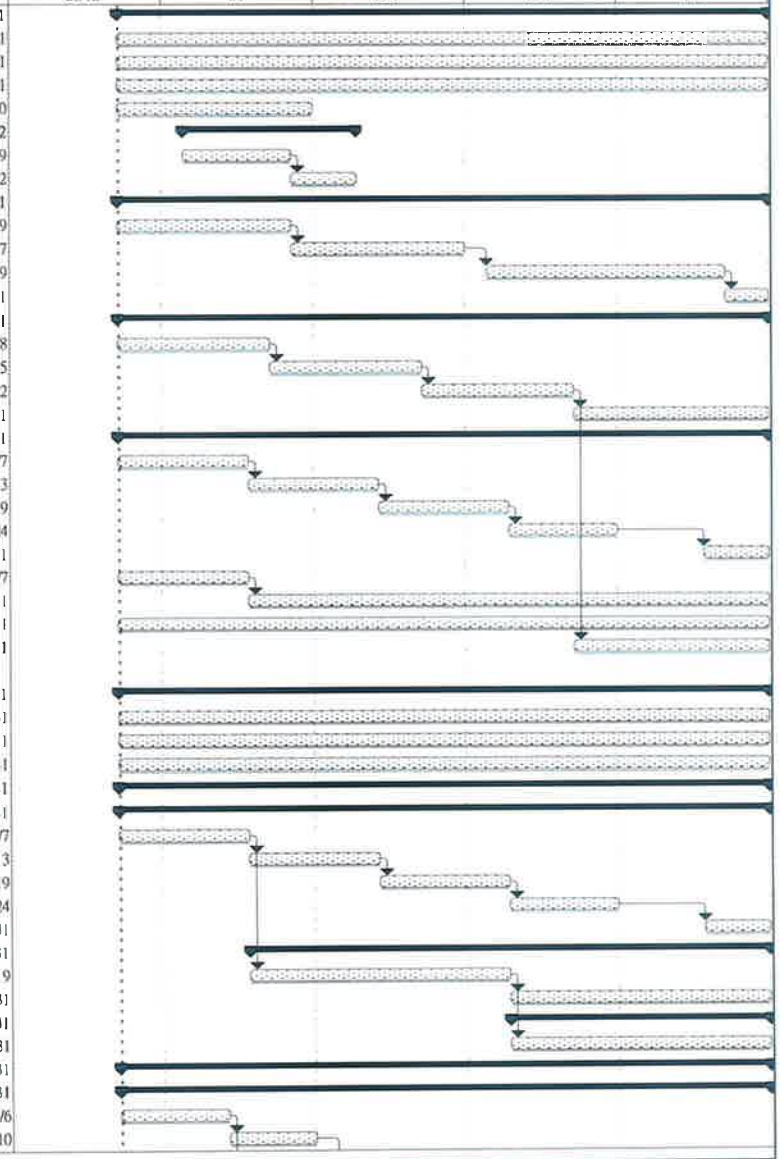
Split Milestone Project Summary External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

One Month Rolling Programme (January 2009)

No	Task Name	Duration	Start	Finish
1	Section I (Channel KT12)	23 days	2009/1/2	2009/1/31
2	Regular Environmental Impact Monitoring	23 days	2009/1/2	2009/1/31
3	Regular Tree Survey	23 days	2009/1/2	2009/1/31
4	Regular Structural Condition Survey	23 days	2009/1/2	2009/1/31
5	Backfilling (CH4.00 - CH105.00)	8 days	2009/1/2	2009/1/10
6	Bay TC7 - East Wall	7 days	2009/1/5	2009/1/12
7	1st Pour	5 days	2009/1/5	2009/1/9
8	2nd Pour	2 days	2009/1/10	2009/1/12
9	Laying of Gabion Block Inside the Channel	23 days	2009/1/2	2009/1/31
10	Bay TC3	7 days	2009/1/2	2009/1/9
11	Bay TC4	7 days	2009/1/10	2009/1/17
12	Bay TC5	7 days	2009/1/19	2009/1/29
13	Bay TC6	2 days	2009/1/30	2009/1/31
14	Construction of Catch Pit / U-Channel / Manholc	23 days	2009/1/2	2009/1/31
15	Bay TC1	6 days	2009/1/2	2009/1/8
16	Bay TC2	6 days	2009/1/9	2009/1/15
17	Bay TC3	6 days	2009/1/16	2009/1/22
18	Bay TC4	5 days	2009/1/23	2009/1/31
19	Installation of Type 2 Railing	23 days	2009/1/2	2009/1/31
20	Bay TC1	5 days	2009/1/2	2009/1/7
21	Bay TC2	5 days	2009/1/8	2009/1/13
22	Bay TC7	5 days	2009/1/14	2009/1/19
23	Bay TC8	5 days	2009/1/20	2009/1/24
24	Bay TC9	3 days	2009/1/29	2009/1/31
25	Construction of Inlet at CH178.00	5 days	2009/1/2	2009/1/7
26	2 x 600mm Dia. Pipe Crossing at CH178.00 East Bank	18 days	2009/1/8	2009/1/31
27	Diversion of Existing Water Main to Pedestrian Crossing PC12-1	23 days	2009/1/2	2009/1/31
28	Installation of Sign Plate / Street Furniture along the sides of Channel (CH0.00 to CH178.00)	5 days	2009/1/23	2009/1/31
29				
30	Section II (Channel KT13)	23 days	2009/1/2	2009/1/31
31	Regular Environmental Impact Monitoring	23 days	2009/1/2	2009/1/31
32	Regular Tree Survey & Protection	23 days	2009/1/2	2009/1/31
33	Regular Structural Condition Survey	23 days	2009/1/2	2009/1/31
34	Section A	23 days	2009/1/2	2009/1/31
35	Excavation to Channel Formation & Laying of Rock Fill Material	23 days	2009/1/2	2009/1/31
36	Bay 1 (A CH00.00 - A CH20.00)	5 days	2009/1/2	2009/1/7
37	Bay 2 (A CH20.00 - A CH40.00)	5 days	2009/1/8	2009/1/13
38	Bay 3 (A CH40.00 - A CH60.00)	5 days	2009/1/14	2009/1/19
39	Bay 4 (A CH60.00 - A CH80.00)	5 days	2009/1/20	2009/1/24
40	Bay 5 (A CH80.00 - A CH100.00)	3 days	2009/1/29	2009/1/31
41	Construction of Channel Structures	18 days	2009/1/8	2009/1/31
42	Bay 1 (A CH00.00 - A CH20.00)	10 days	2009/1/8	2009/1/19
43	Bay 2 (A CH20.00 - A CH40.00)	8 days	2009/1/20	2009/1/31
44	Backfilling along the completed Channel Structures	8 days	2009/1/20	2009/1/31
45	Bay 1 (A CH00.00 - A CH20.00)	8 days	2009/1/20	2009/1/31
46	Section of Box Culvert BC13-1	23 days	2009/1/2	2009/1/31
47	Excavation to Channel Formation & Laying of Rock Fill Material	23 days	2009/1/2	2009/1/31
48	Bay 1 (BC CH00.00 - BC CH12.00)	4 days	2009/1/2	2009/1/6
49	Bay 2 (BC CH12.00 - BC CH24.00) & Demolition of Existing Playground	4 days	2009/1/7	2009/1/10



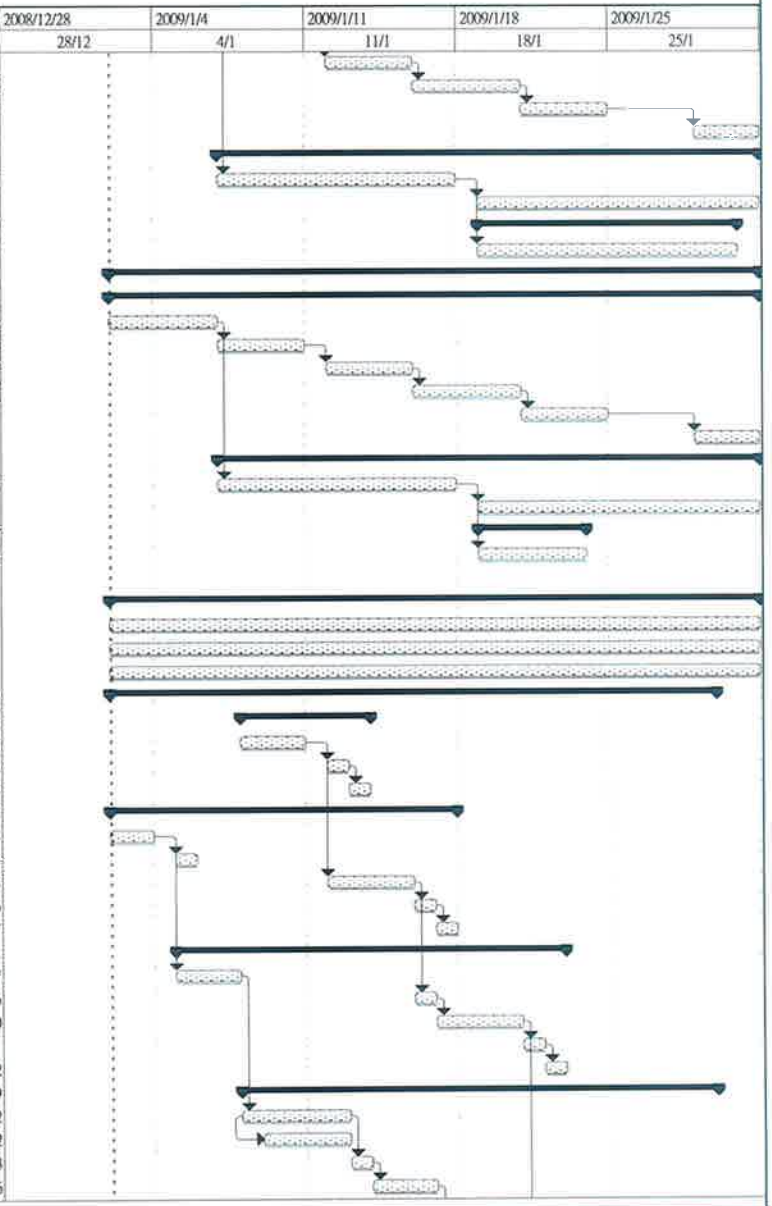
Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

One Month Rolling Programme (January 2009)

No	Task Name	Duration	Start	Finish
50	Bay 3 (BC CH24.00 - BC CH36.00)	4 days	2009/1/12	2009/1/15
51	Bay 4 (BC CH36.00 - BC CH48.00)	4 days	2009/1/16	2009/1/20
52	Bay 5 (BC CH48.00 - BC CH60.00)	4 days	2009/1/21	2009/1/24
53	Bay 6 (BC CH60.00 - BC CH72.00)	3 days	2009/1/29	2009/1/31
54	Construction of Channel Structures	19 days	2009/1/7	2009/1/31
55	Bay 1 (BC CH00.00 - BC CH12.00)	10 days	2009/1/7	2009/1/17
56	Bay 2 (BC CH12.00 - BC CH24.00)	9 days	2009/1/19	2009/1/31
57	Backfilling along the Completed Channel Structures	8 days	2009/1/19	2009/1/30
58	Bay 1 (BC CH00.00 - BC CH12.00)	8 days	2009/1/19	2009/1/30
59	Section B	23 days	2009/1/2	2009/1/31
60	Excavation to Channel Formation & Laying of Rock Fill Material	23 days	2009/1/2	2009/1/31
61	Bay 26 (B CH260.00 - B CH272.00)	4 days	2009/1/2	2009/1/6
62	Bay 27 (B CH272.00 - B CH284.00)	4 days	2009/1/7	2009/1/10
63	Bay 28 (B CH284.00 - B CH296.00)	4 days	2009/1/12	2009/1/15
64	Bay 20 (B CH186.00 - B CH198.00)	4 days	2009/1/16	2009/1/20
65	Bay 21 (B CH198.00 - B CH210.00)	4 days	2009/1/21	2009/1/24
66	Bay 22 (B CH210.00 - B CH222.00)	3 days	2009/1/29	2009/1/31
67	Construction of Channel Structures	19 days	2009/1/7	2009/1/31
68	Bay 26 (B CH260.00 - B CH272.00)	10 days	2009/1/7	2009/1/17
69	Bay 27 (B CH272.00 - B CH284.00)	9 days	2009/1/19	2009/1/31
70	Backfilling along the sides of channel & laying of underground drain	5 days	2009/1/19	2009/1/23
71	Bay 26 (B CH260.00 - B CH272.00)	5 days	2009/1/19	2009/1/23
72				
73	Section III (Channel KT14A)	23 days	2009/1/2	2009/1/31
74	Regular Environmental Impact Monitoring	23 days	2009/1/2	2009/1/31
75	Regular Tree Survey	23 days	2009/1/2	2009/1/31
76	Regular Structural Condition Survey	23 days	2009/1/2	2009/1/31
77	Construction of Rectangular Channel	21 days	2009/1/2	2009/1/29
78	Bay 2 (CH11.00 - CH23.00)	5 days	2009/1/8	2009/1/13
79	Construction of Vertical Wall	3 days	2009/1/8	2009/1/10
80	Backfilling	1 day	2009/1/12	2009/1/12
81	Removal of Sheet Piling	1 day	2009/1/13	2009/1/13
82	Bay 3 (CH23.00 - CH35.00)	14 days	2009/1/2	2009/1/17
83	Construction of Base Slab	2 days	2009/1/2	2009/1/3
84	Backfilling to the Kicker Level	1 day	2009/1/5	2009/1/5
85	Construction of Vertical Wall	4 days	2009/1/12	2009/1/15
86	Backfilling	1 day	2009/1/16	2009/1/16
87	Removal of Sheet Piling	1 day	2009/1/17	2009/1/17
88	Bay 4 (CH35.00 - CH48.00)	16 days	2009/1/5	2009/1/22
89	Construction of Base Slab	3 days	2009/1/5	2009/1/7
90	Backfilling to the Kicker Level	1 day	2009/1/16	2009/1/16
91	Construction of Vertical Wall	3 days	2009/1/17	2009/1/20
92	Backfilling	1 day	2009/1/21	2009/1/21
93	Removal of Sheet Piling	1 day	2009/1/22	2009/1/22
94	Bay 5 (CH48.00 - CH52.00)	16 days	2009/1/8	2009/1/29
95	Excavation	4 days	2009/1/8	2009/1/12
96	Installation of Sheet Piling	3 days	2009/1/9	2009/1/12
97	Cast Blinding Layer	1 day	2009/1/13	2009/1/13
98	Construction of Base Slab	3 days	2009/1/14	2009/1/16



Task — Progress — Summary — External Tasks — Deadline

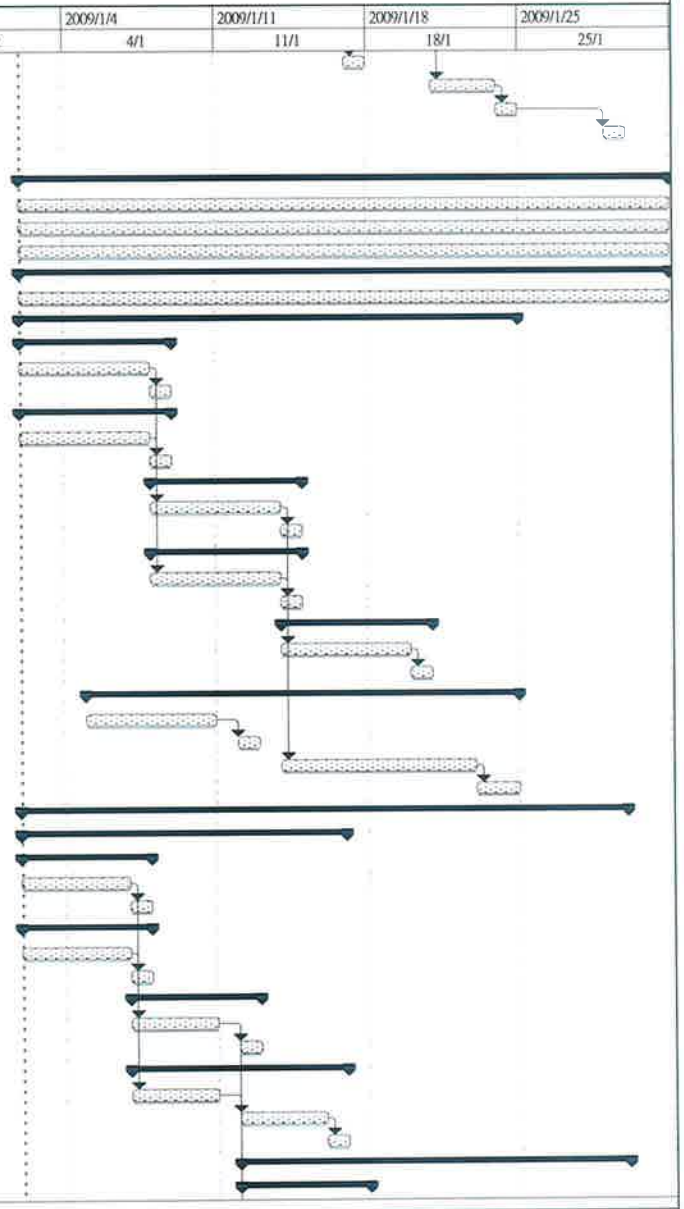
Split — Milestone — Project Summary — External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

One Month Rolling Programme (January 2009)

No	Task Name	Duration	Start	Finish
99	Backfilling to the Kicker Level	1 day	2009/1/17	2009/1/17
100	Construction of Vertical Wall	3 days	2009/1/21	2009/1/23
101	Backfilling	1 day	2009/1/24	2009/1/24
102	Removal of Sheet Piling	1 day	2009/1/29	2009/1/29
103				
104	Section IV (Channel KT14B & KT14C)	23 days	2009/1/2	2009/1/31
105	Regular Environmental Impact Monitoring	23 days	2009/1/2	2009/1/31
106	Regular Tree Survey & Protection	23 days	2009/1/2	2009/1/31
107	Regular Structural Condition Survey	23 days	2009/1/2	2009/1/31
108	Construction of Kam Sheung Road (Portion 8B)	23 days	2009/1/2	2009/1/31
109	Construction of Channel between CP9 and CP8	23 days	2009/1/2	2009/1/31
110	Construction of Rectangular Channel of KT14B	20 days	2009/1/2	2009/1/24
111	Bay 16 (CH158.00 - CH171.00)	6 days	2009/1/2	2009/1/8
112	Construction of Base Slab & Vertical Wall	5 days	2009/1/2	2009/1/7
113	Backfilling	1 day	2009/1/8	2009/1/8
114	Bay 18 (CH183.00 - CH195.00)	6 days	2009/1/2	2009/1/8
115	Construction of Base Slab & Vertical Wall	5 days	2009/1/2	2009/1/7
116	Backfilling	1 day	2009/1/8	2009/1/8
117	Bay 28 (CH284.00 - CH296.00)	6 days	2009/1/8	2009/1/14
118	Construction of Base Slab & Vertical Wall	5 days	2009/1/8	2009/1/13
119	Backfilling	1 day	2009/1/14	2009/1/14
120	Bay 26 (CH260.00 - CH272.00)	6 days	2009/1/8	2009/1/14
121	Construction of Base Slab & Vertical Wall	5 days	2009/1/8	2009/1/13
122	Backfilling	1 day	2009/1/14	2009/1/14
123	Bay 27 (CH272.00 - CH284.00)	6 days	2009/1/14	2009/1/20
124	Construction of Base Slab & Vertical Wall	5 days	2009/1/14	2009/1/19
125	Backfilling	1 day	2009/1/20	2009/1/20
126	Bay 25 (CH248.00 - CH260.00)	18 days	2009/1/5	2009/1/24
127	Excavation	6 days	2009/1/5	2009/1/10
128	Cast Blinding Layer	1 day	2009/1/12	2009/1/12
129	Construction of Base Slab & Vertical Wall	8 days	2009/1/14	2009/1/22
130	Backfilling	2 days	2009/1/23	2009/1/24
131	Construction of Rectangular Channel of KT14C	21 days	2009/1/2	2009/1/29
132	East Portion (CH183.00 - CH484.00)	13 days	2009/1/2	2009/1/16
133	Bay 12E (CH348.00 - CH360.00)	5 days	2009/1/2	2009/1/7
134	Construction of Base Slab & Vertical Wall	4 days	2009/1/2	2009/1/6
135	Backfilling	1 day	2009/1/7	2009/1/7
136	Bay 14E (CH324.00 - CH336.00)	5 days	2009/1/2	2009/1/7
137	Construction of Base Slab & Vertical Wall	4 days	2009/1/2	2009/1/6
138	Backfilling	1 day	2009/1/7	2009/1/7
139	Bay 15E-2 (CH310.00 - CH318.00)	5 days	2009/1/7	2009/1/12
140	Construction of Base Slab & Vertical Wall	4 days	2009/1/7	2009/1/10
141	Backfilling	1 day	2009/1/12	2009/1/12
142	Bay 16E (CH298.00 - CH310.00)	9 days	2009/1/7	2009/1/16
143	Construction of Base Slab	4 days	2009/1/7	2009/1/10
144	Construction of Vertical Wall & Top Slab	4 days	2009/1/12	2009/1/15
145	Backfilling	1 day	2009/1/16	2009/1/16
146	West Portion (CH0.00 - CH183.00)	13 days	2009/1/12	2009/1/29
147	Bay 13W (CH128.00 - CH139.00)	6 days	2009/1/12	2009/1/17



Task — Progress — Summary — External Tasks — Deadline

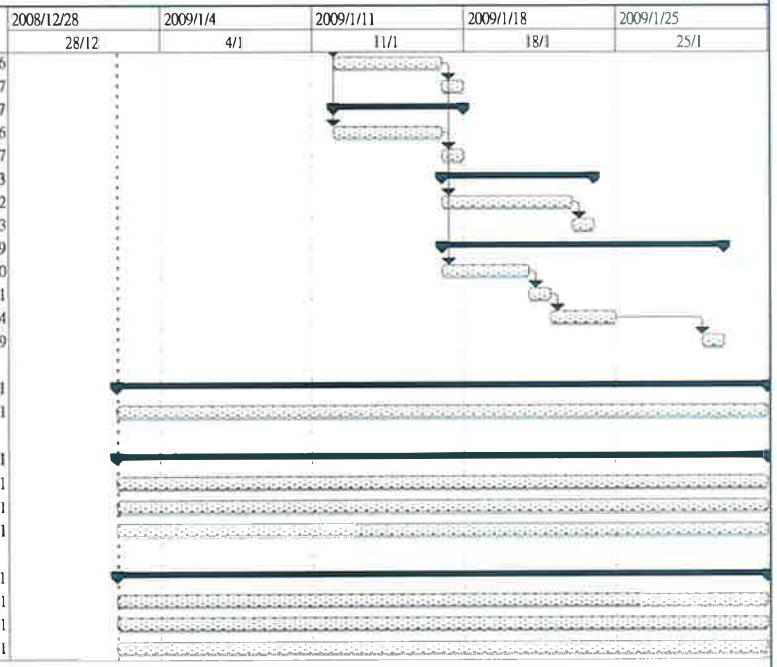
Split — Milestone — Project Summary — External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

One Month Rolling Programme (January 2009)

No	Task Name	Duration	Start	Finish
148	Construction of Base Slab & Vertical Wall	5 days	2009/1/12	2009/1/16
149	Backfilling	1 day	2009/1/17	2009/1/17
150	Bay 14W (CH139.00 - CH149.00)	6 days	2009/1/12	2009/1/17
151	Construction of Base Slab & Vertical Wall	5 days	2009/1/12	2009/1/16
152	Backfilling	1 day	2009/1/17	2009/1/17
153	Bay 15W (CH149.00 - CH162.00)	6 days	2009/1/17	2009/1/23
154	Construction of Base Slab & Vertical Wall	5 days	2009/1/17	2009/1/22
155	Backfilling	1 day	2009/1/23	2009/1/23
156	Bay 16W (CH162.00 - CH174.00)	8 days	2009/1/17	2009/1/29
157	Construction of Base Slab	3 days	2009/1/17	2009/1/20
158	Backfilling to the Kicker Level	1 day	2009/1/21	2009/1/21
159	Construction of Vertical Wall & Top Slab	3 days	2009/1/22	2009/1/24
160	Backfilling	1 day	2009/1/29	2009/1/29
161				
162	Section V (For Section I, II, III & IV)	23 days	2009/1/2	2009/1/31
163	Preservation and Protection of Trees	23 days	2009/1/2	2009/1/31
164				
165	Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	23 days	2009/1/2	2009/1/31
166	Structural Survey and Monitoring	23 days	2009/1/2	2009/1/31
167	Construction of Manhole, Timber Box and Trench Excavation	23 days	2009/1/2	2009/1/31
168	Apply XP Approval for Construction	23 days	2009/1/2	2009/1/31
169				
170	Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)	23 days	2009/1/2	2009/1/31
171	Structural Survey and Monitoring	23 days	2009/1/2	2009/1/31
172	Construction of Manhole, Timber Box and Trench Excavation	23 days	2009/1/2	2009/1/31
173	Apply XP Approval for Construction	23 days	2009/1/2	2009/1/31



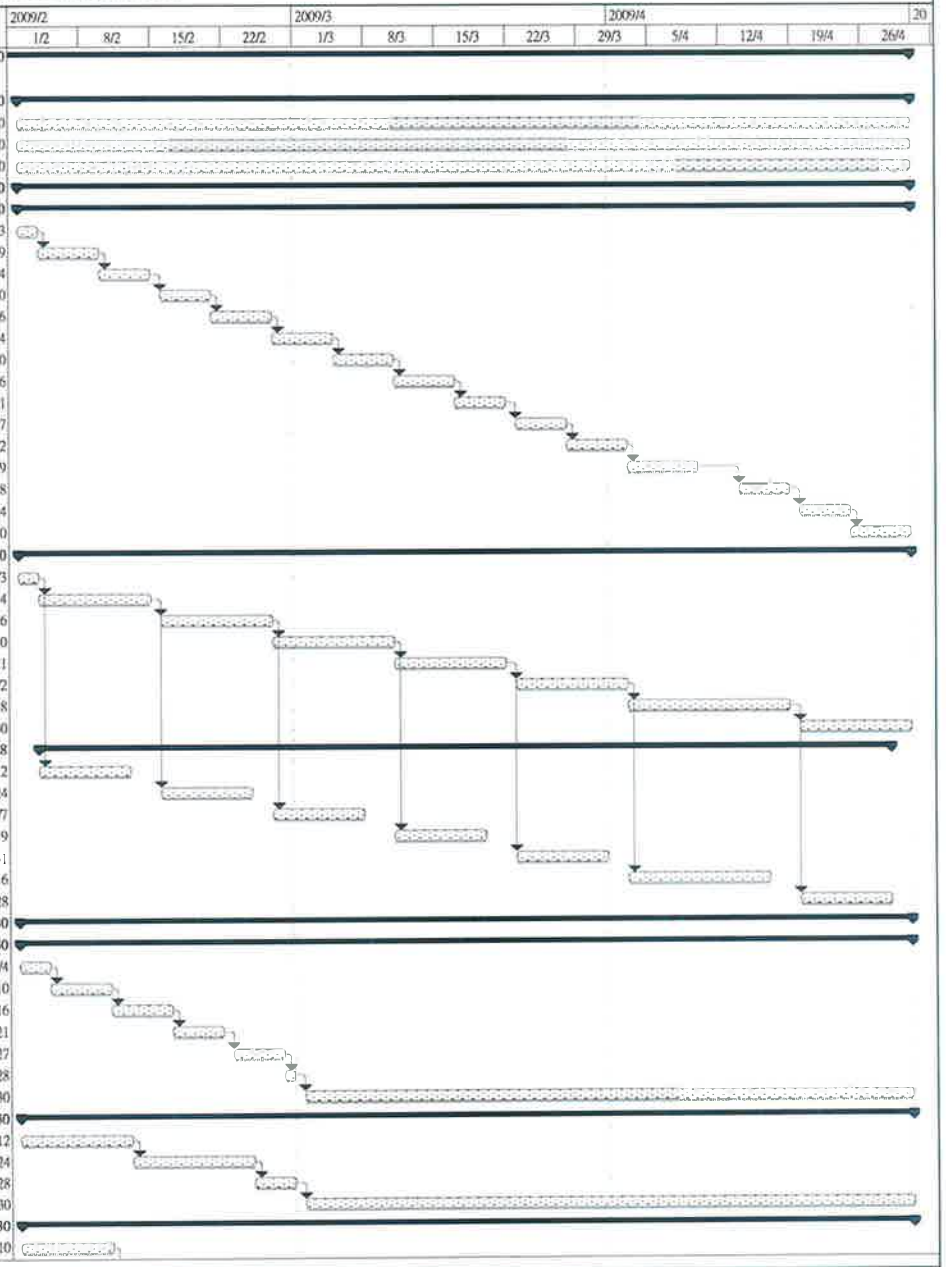
Task Progress Summary External Tasks Deadline
Split Milestone Project Summary External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme (February 2009 to April 2009)

No	Task Name	Duration	Start	Finish
1	Section I (Channel KT12)	95 days	2009/1/2	2009/4/30
25				
26	Section II (Channel KT13)	72 days	2009/2/2	2009/4/30
27	Regular Environmental Impact Monitoring	72 days	2009/2/2	2009/4/30
28	Regular Tree Survey & Protection	72 days	2009/2/2	2009/4/30
29	Regular Structural Condition Survey	72 days	2009/2/2	2009/4/30
30	Section A	72 days	2009/2/2	2009/4/30
31	Excavation to Channel Formation & Laying of Rock Fill Material	72 days	2009/2/2	2009/4/30
32	Bay 5 (A CH80.00 - A CH100.00)	2 days	2009/2/2	2009/2/3
33	Bay 6 (A CH100.00 - A CH120.00)	5 days	2009/2/4	2009/2/9
34	Bay 7 (A CH120.00 - A CH140.00)	5 days	2009/2/10	2009/2/14
35	Bay 8 (A CH140.00 - A CH160.00)	5 days	2009/2/16	2009/2/20
36	Bay 9 (A CH160.00 - A CH180.00)	5 days	2009/2/21	2009/2/26
37	Bay 10 (A CH180.00 - A CH200.00)	5 days	2009/2/27	2009/3/4
38	Bay 11 (A CH200.00 - A CH220.00)	5 days	2009/3/5	2009/3/10
39	Bay 12 (A CH220.00 - A CH240.00)	5 days	2009/3/11	2009/3/16
40	Bay 13 (A CH240.00 - A CH260.00)	5 days	2009/3/17	2009/3/21
41	Bay 14 (A CH260.00 - A CH280.00)	5 days	2009/3/23	2009/3/27
42	Bay 15 (A CH280.00 - A CH300.00)	5 days	2009/3/28	2009/4/2
43	Bay 16 (A CH300.00 - A CH320.00)	5 days	2009/4/3	2009/4/9
44	Bay 17 (A CH320.00 - A CH340.00)	5 days	2009/4/14	2009/4/18
45	Bay 18 (A CH340.00 - A CH360.00)	5 days	2009/4/20	2009/4/24
46	Bay 19 (A CH360.00 - A CH380.00)	5 days	2009/4/25	2009/4/30
47	Construction of Channel Structures	72 days	2009/2/2	2009/4/30
48	Bay 2 (A CH20.00 - A CH40.00)	2 days	2009/2/2	2009/2/3
49	Bay 3 (A CH40.00 - A CH60.00)	10 days	2009/2/4	2009/2/14
50	Bay 4 (A CH60.00 - A CH80.00)	10 days	2009/2/16	2009/2/26
51	Bay 5 (A CH80.00 - A CH100.00)	10 days	2009/2/27	2009/3/10
52	Bay 6 (A CH100.00 - A CH120.00)	10 days	2009/3/11	2009/3/21
53	Bay 7 (A CH120.00 - A CH140.00)	10 days	2009/3/23	2009/4/2
54	Bay 8 (A CH140.00 - A CH160.00)	10 days	2009/4/3	2009/4/18
55	Bay 9 (A CH160.00 - A CH180.00)	10 days	2009/4/20	2009/4/30
56	Backfilling along the completed Channel Structures	68 days	2009/2/4	2009/4/28
57	Bay 2 (A CH20.00 - A CH40.00)	8 days	2009/2/4	2009/2/12
58	Bay 3 (A CH40.00 - A CH60.00)	8 days	2009/2/16	2009/2/24
59	Bay 4 (A CH60.00 - A CH80.00)	8 days	2009/2/27	2009/3/7
60	Bay 5 (A CH80.00 - A CH100.00)	8 days	2009/3/11	2009/3/19
61	Bay 6 (A CH100.00 - A CH120.00)	8 days	2009/3/23	2009/3/31
62	Bay 7 (A CH120.00 - A CH140.00)	8 days	2009/4/3	2009/4/16
63	Bay 8 (A CH140.00 - A CH160.00)	8 days	2009/4/20	2009/4/28
64	Section of Box Culvert BC13-1	72 days	2009/2/2	2009/4/30
65	Excavation to Channel Formation & Laying of Rock Fill Material	72 days	2009/2/2	2009/4/30
66	Bay 6 (BC CH60.00 - BC CH72.00)	3 days	2009/2/2	2009/2/4
67	Bay 7 (BC CH72.00 - BC CH84.00)	5 days	2009/2/5	2009/2/10
68	Bay 8 (BC CH84.00 - BC CH96.00)	5 days	2009/2/11	2009/2/16
69	Bay 9 (BC CH96.00 - BC CH108.00)	5 days	2009/2/17	2009/2/21
70	Bay 10 (BC CH108.00 - BC CH118.00)	5 days	2009/2/23	2009/2/27
71	Bay 11 (BC CH118.00 - BC CH122.00)	1 day	2009/2/28	2009/2/28
72	Cease work (01/03/09 - 31/05/09) - Restriction of EP-263/2007 Requirement	48 days	2009/3/2	2009/4/30
73	Construction of Channel Structures	72 days	2009/2/2	2009/4/30
74	Bay 3 (BC CH24.00 - BC CH36.00)	10 days	2009/2/2	2009/2/12
75	Bay 4 (BC CH36.00 - BC CH48.00)	10 days	2009/2/13	2009/2/24
76	Bay 5 (BC CH48.00 - BC CH60.00)	4 days	2009/2/25	2009/2/28
77	Cease work (01/03/09 - 31/05/09) - Restriction of EP-263/2007 Requirement	48 days	2009/3/2	2009/4/30
78	Backfilling along the Completed Channel Structures	72 days	2009/2/2	2009/4/30
79	Bay 2 (BC CH12.00 - BC CH24.00)	8 days	2009/2/2	2009/2/10



Task Progress Summary External Tasks Deadline

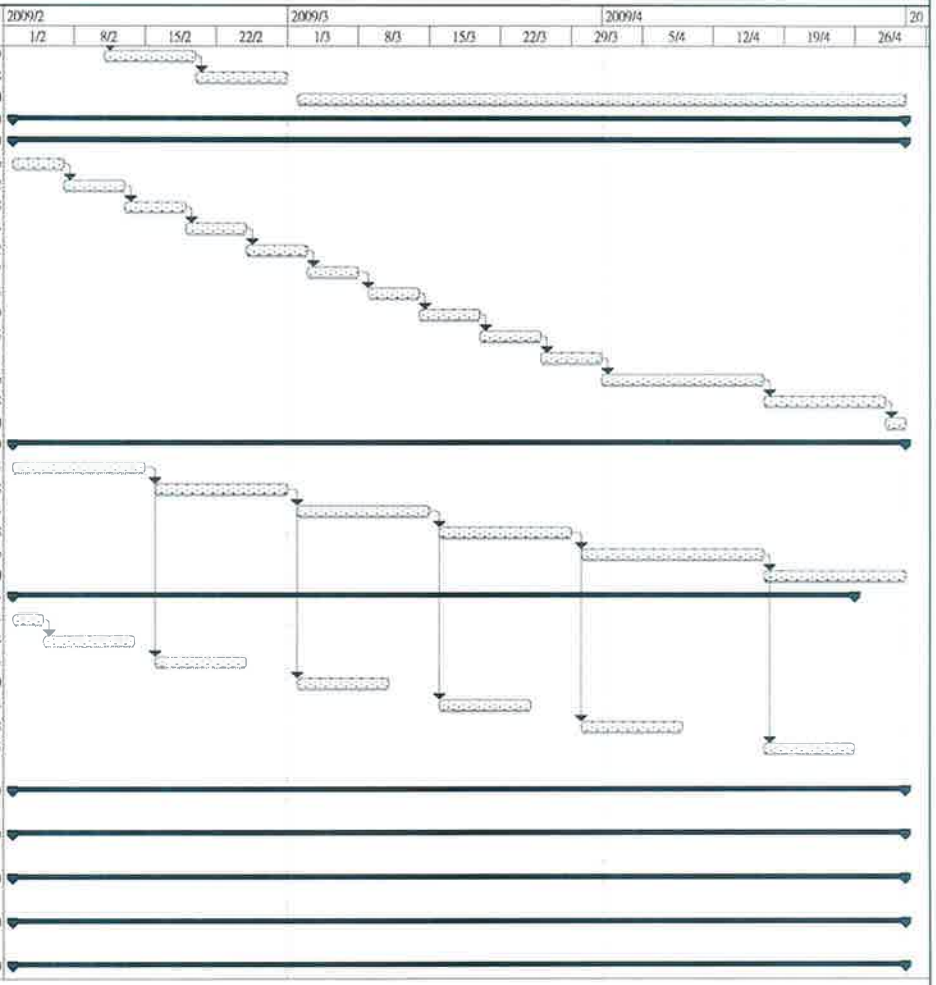
Split Milestone Project Summary External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme (February 2009 to April 2009)

No	Task Name	Duration	Start	Finish
80	Bay 3 (BC CH24.00 - BC CH36.00)	8 days	2009/2/11	2009/2/19
81	Bay 4 (BC CH36.00 - BC CH48.00)	8 days	2009/2/20	2009/2/28
82	Cease work (01/03/09 - 31/05/09) - Restriction of EP-263/2007 Requirement	48 days	2009/3/2	2009/4/30
83	Section B	72 days	2009/2/2	2009/4/30
84	Excavation to Channel Formation & Laying of Rock Fill Material	72 days	2009/2/2	2009/4/30
85	Bay 29 (B CH297.00 - B CH305.00)	5 days	2009/2/2	2009/2/6
86	Bay 30 (B CH305.00 - B CH312.00)	5 days	2009/2/7	2009/2/12
87	Bay 25 (B CH247.00 - B CH260.00)	5 days	2009/2/13	2009/2/18
88	Bay 24 (B CH235.00 - B CH247.00)	5 days	2009/2/19	2009/2/24
89	Bay 23 (B CH222.00 - B CH235.00)	5 days	2009/2/25	2009/3/2
90	Bay 19 (B CH174.00 - B CH186.00)	5 days	2009/3/3	2009/3/7
91	Bay 18 (B CH162.00 - B CH174.00)	5 days	2009/3/9	2009/3/13
92	Bay 17 (B CH154.00 - B CH162.00)	5 days	2009/3/14	2009/3/19
93	Bay 16 (B CH147.00 - B CH154.00)	5 days	2009/3/20	2009/3/25
94	Bay 15 (B CH144.00 - B CH147.00)	5 days	2009/3/26	2009/3/31
95	Bay 14 (B CH137.00 - B CH144.00)	10 days	2009/4/1	2009/4/16
96	Bay 13 (B CH129.00 - B CH137.00)	10 days	2009/4/17	2009/4/28
97	Bay 12 (B CH119.00 - B CH129.00)	2 days	2009/4/29	2009/4/30
98	Construction of Channel Structures	72 days	2009/2/2	2009/4/30
99	Bay 28 (B CH284.00 - B CH296.00)	12 days	2009/2/2	2009/2/14
100	Bay 20 (B CH186.00 - B CH198.00)	12 days	2009/2/16	2009/2/28
101	Bay 21 (B CH198.00 - B CH210.00)	12 days	2009/3/2	2009/3/14
102	Bay 22 (B CH210.00 - B CH222.00)	12 days	2009/3/16	2009/3/28
103	Bay 29 (B CH297.00 - B CH305.00)	12 days	2009/3/30	2009/4/16
104	Bay 30 (B CH305.00 - B CH312.00)	12 days	2009/4/17	2009/4/30
105	Backfilling along the sides of channel & laying of underground drain	68 days	2009/2/2	2009/4/25
106	Bay 26 (B CH260.00 - B CH272.00)	3 days	2009/2/2	2009/2/4
107	Bay 27 (B CH272.00 - B CH284.00)	8 days	2009/2/5	2009/2/13
108	Bay 28 (B CH284.00 - B CH296.00)	8 days	2009/2/16	2009/2/24
109	Bay 20 (B CH186.00 - B CH198.00)	8 days	2009/3/2	2009/3/10
110	Bay 21 (B CH198.00 - B CH210.00)	8 days	2009/3/16	2009/3/24
111	Bay 22 (B CH210.00 - B CH222.00)	8 days	2009/3/30	2009/4/8
112	Bay 29 (B CH297.00 - B CH305.00)	8 days	2009/4/17	2009/4/25
113				
114	Section III (Channel KT14A)	72 days	2009/2/2	2009/4/30
226				
227	Section IV (Channel KT14B & KT14C)	72 days	2009/2/2	2009/4/30
485				
486	Section V (For Section I, II, III & IV)	72 days	2009/2/2	2009/4/30
488				
489	Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	72 days	2009/2/2	2009/4/30
493				
494	Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)	72 days	2009/2/2	2009/4/30



Task Progress Summary External Tasks Deadline

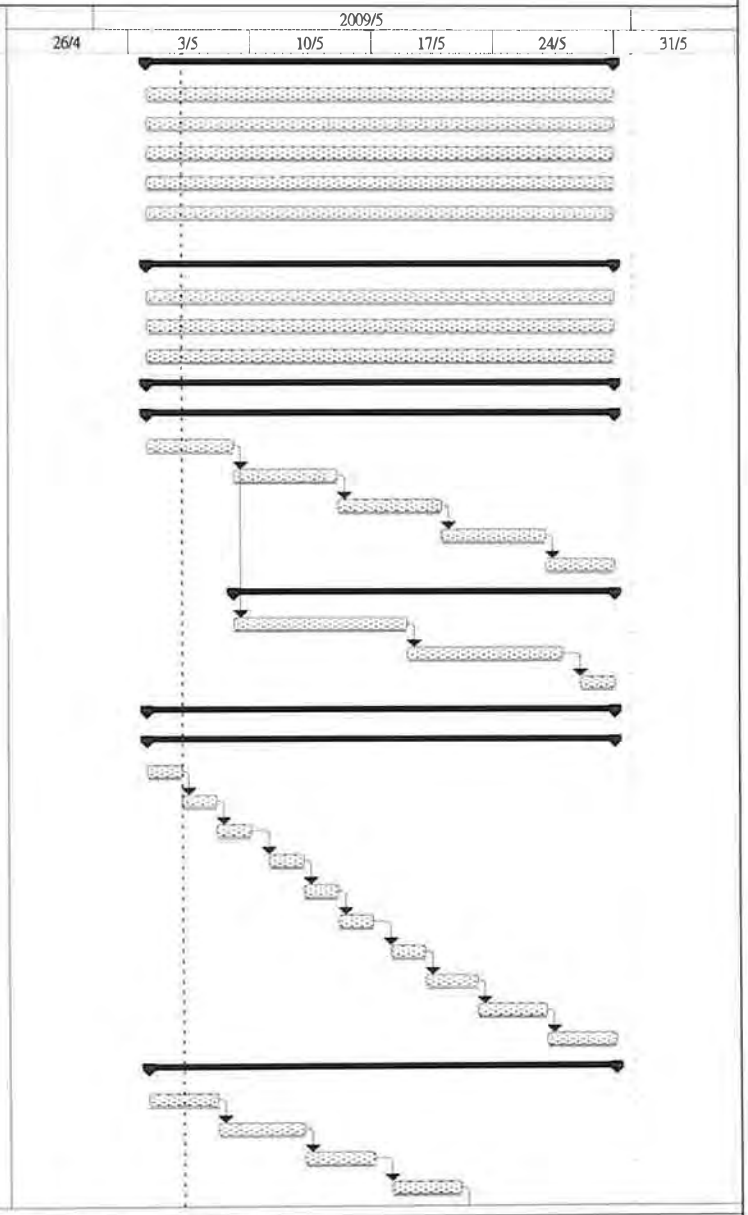
Split Milestone Project Summary External Milestone

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - May 2009

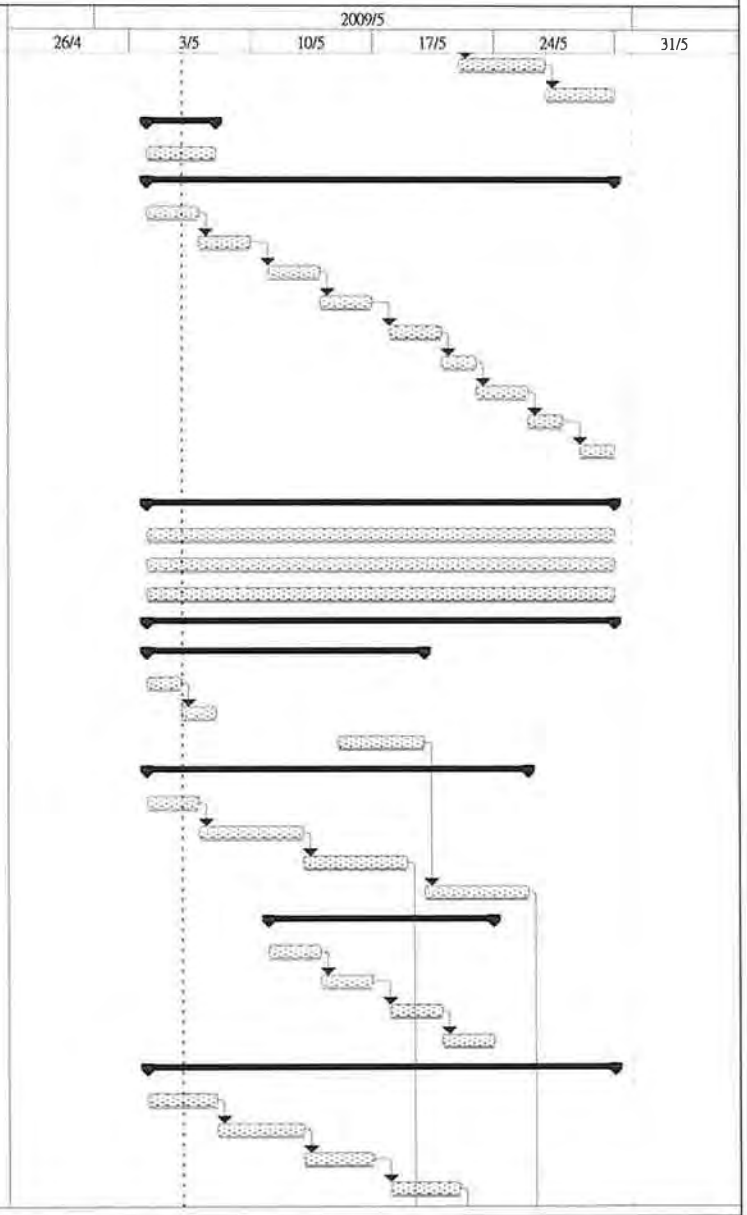
ID	Task Name	Duration	Start	Complete
1	**Section I (Channel KT12 - Cheung Po Tsuen)**	**23 days**	**2009/5/4**	**2009/5/30**
2	**Regular Environmental Impact Monitoring**	23 days	2009/5/4	2009/5/30
3	**Regular Tree Survey**	23 days	2009/5/4	2009/5/30
4	**Regular Structural Condition Survey**	23 days	2009/5/4	2009/5/30
5	**Compensatory Planting**	23 days	2009/5/4	2009/5/30
6	**Hydroseeding**	23 days	2009/5/4	2009/5/30
7				
8	**Section II (Channel KT13)**	**23 days**	**2009/5/4**	**2009/5/30**
9	**Regular Environmental Impact Monitoring**	23 days	2009/5/4	2009/5/30
10	**Regular Tree Survey & Protection**	23 days	2009/5/4	2009/5/30
11	**Regular Structural Condition Survey**	23 days	2009/5/4	2009/5/30
12	**Section A**	**23 days**	**2009/5/4**	**2009/5/30**
13	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**23 days**	**2009/5/4**	**2009/5/30**
14	Bay A1 (A CH00.00 - A CH09.00) - RC2	5 days	2009/5/4	2009/5/8
15	Bay A2 (A CH09.00 - A CH18.00) - RC2	5 days	2009/5/9	2009/5/14
16	Bay A3 (A CH18.00 - A CH26.00) - RC2	5 days	2009/5/15	2009/5/20
17	Bay A4 (A CH26.00 - A CH34.00) - Transition	5 days	2009/5/21	2009/5/26
18	Bay A5 (A CH34.00 - A CH41.00) - Transition	3 days	2009/5/27	2009/5/30
19	**Construction of channel structure (RC2, Transition, and TG2)**	**18 days**	**2009/5/9**	**2009/5/30**
20	Bay A1 (A CH00.00 - A CH09.00) - RC2	8 days	2009/5/9	2009/5/18
21	Bay A2 (A CH09.00 - A CH18.00) - RC2	8 days	2009/5/19	2009/5/27
22	Bay A3 (A CH18.00 - A CH26.00) - RC2	2 days	2009/5/29	2009/5/30
23	**Section B**	**23 days**	**2009/5/4**	**2009/5/30**
24	**Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)**	**23 days**	**2009/5/4**	**2009/5/30**
25	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	2 days	2009/5/4	2009/5/5
26	Bay B14 (B CH137.00 - B CH144.00) - Transition	2 days	2009/5/6	2009/5/7
27	Bay B13 (B CH129.00 - B CH137.00) - Transition	2 days	2009/5/8	2009/5/9
28	Bay B9 (B CH80.00 - B CH94.00) - TG3	2 days	2009/5/11	2009/5/12
29	Bay B8 (B CH68.00 - B CH80.00) - TG3	2 days	2009/5/13	2009/5/14
30	Bay B7 (B CH57.00 - B CH68.00) - TG3	2 days	2009/5/15	2009/5/16
31	Bay B6 (B CH46.00 - B CH57.00) - TG3	2 days	2009/5/18	2009/5/19
32	Bay B5 (B CH34.00 - B CH46.00) - TG3	3 days	2009/5/20	2009/5/22
33	Bay B4 (B CH24.00 - B CH34.00) - TG3	3 days	2009/5/23	2009/5/26
34	Bay B3 (B CH14.00 - B CH24.00) - TG3	3 days	2009/5/27	2009/5/30
35	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**23 days**	**2009/5/4**	**2009/5/30**
36	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	4 days	2009/5/4	2009/5/7
37	Bay B14 (B CH137.00 - B CH144.00) - Transition	4 days	2009/5/8	2009/5/12
38	Bay B13 (B CH129.00 - B CH137.00) - Transition	4 days	2009/5/13	2009/5/16
39	Bay B9 (B CH80.00 - B CH94.00) - TG3	4 days	2009/5/18	2009/5/21



Task Progress Summary External Tasks Split

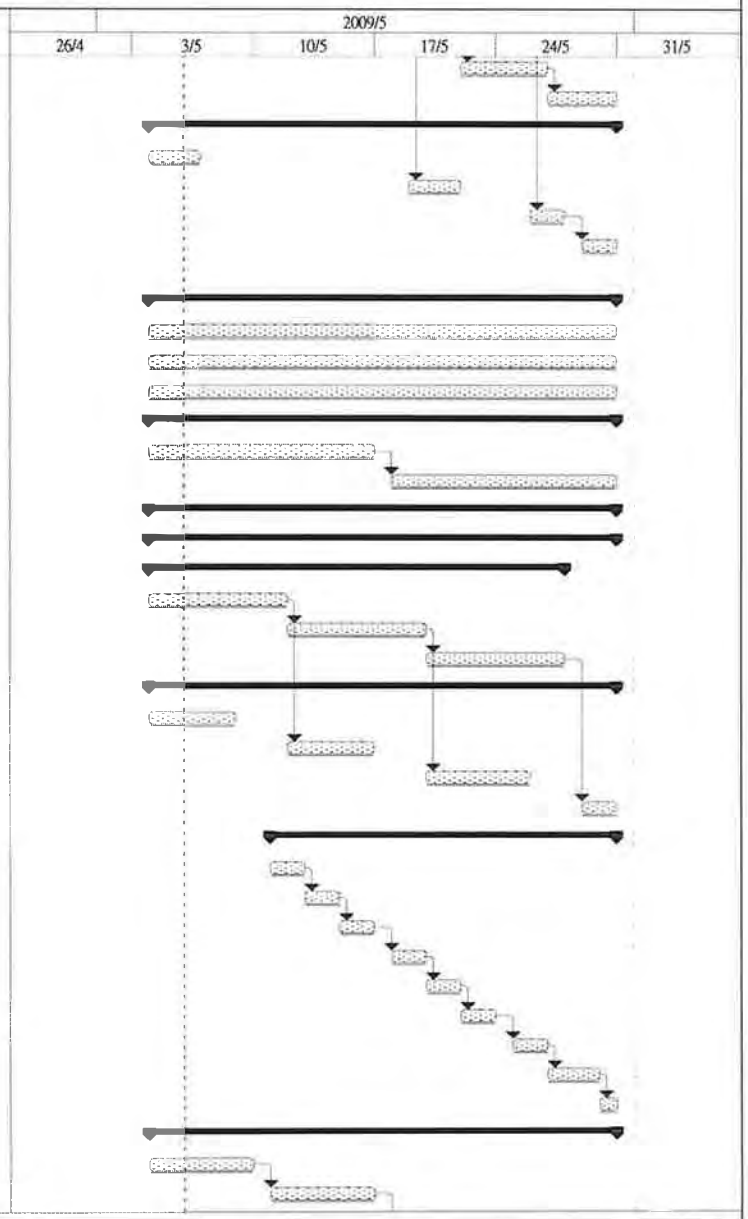
Split Milestone Project Summary External MileTask

ID	Task Name	Duration	Start	Complete
40	Bay B8 (B CH68.00 - B CH80.00) - TG3	4 days	2009/5/22	2009/5/26
41	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2009/5/27	2009/5/30
42	**Backfilling along the sides of channel & laying of underground drain**	**4 days**	**2009/5/4**	**2009/5/7**
43	Bay B30 (B CH302.00 - B CH312.00) - Transition	4 days	2009/5/4	2009/5/7
44	**Installation of Type 2 railing on top of channel wall**	**23 days**	**2009/5/4**	**2009/5/30**
45	Bay B28 (B CH282.00 - B CH294.00) - TG4	3 days	2009/5/4	2009/5/6
46	Bay B27 (B CH270.00 - B CH282.00) - TG4	3 days	2009/5/7	2009/5/9
47	Bay B26 (B CH260.00 - B CH270.00) - TG4	3 days	2009/5/11	2009/5/13
48	Bay B25 (B CH248.00 - B CH260.00) - TG5	3 days	2009/5/14	2009/5/16
49	Bay B29 (B CH294.00 - B CH302.00) - Transition	3 days	2009/5/18	2009/5/20
50	Bay B30 (B CH302.00 - B CH312.00) - Transition	2 days	2009/5/21	2009/5/22
51	Bay B19 (B CH174.00 - B CH188.00) - TG8	2 days	2009/5/23	2009/5/25
52	Bay B18 (B CH162.00 - B CH174.00) - TG8	2 days	2009/5/26	2009/5/27
53	Bay B17 (B CH154.00 - B CH162.00) - Transition	2 days	2009/5/29	2009/5/30
54				
55	**Section III (Channel KT14A - Tin Sam Tsuen)**	**23 days**	**2009/5/4**	**2009/5/30**
56	**Regular Environmental Impact Monitoring**	23 days	2009/5/4	2009/5/30
57	**Regular Tree Survey**	23 days	2009/5/4	2009/5/30
58	**Regular Structural Condition Survey**	23 days	2009/5/4	2009/5/30
59	**Construction of rectangular channel 2.5m(W) x 2.8m(H) Type RC1 (CH0.00 - CH150.00)**	**23 days**	**2009/5/4**	**2009/5/30**
60	**Excavation to channel formation (CH0.00 - CH150.00)**	**14 days**	**2009/5/4**	**2009/5/19**
61	Bay A13 (CH119.00 - CH134.00)	2 days	2009/5/4	2009/5/5
62	Bay A14 (CH134.00 - CH145.00)	2 days	2009/5/6	2009/5/7
63	Bay A14-1 (CH134.00 - CH145.00)	4 days	2009/5/15	2009/5/19
64	**Construction of channel structure (CH0.00 - CH150.00)**	**19 days**	**2009/5/4**	**2009/5/25**
65	Bay A12 (CH113.00 - CH119.00)	3 days	2009/5/4	2009/5/6
66	Bay A13 (CH119.00 - CH134.00)	5 days	2009/5/7	2009/5/12
67	Bay A14 (CH134.00 - CH145.00)	5 days	2009/5/13	2009/5/18
68	Bay A14-1 (CH134.00 - CH145.00)	5 days	2009/5/20	2009/5/25
69	**Laying of gabion block inside the channel structure**	**12 days**	**2009/5/11**	**2009/5/23**
70	Bay A7 (CH57.00 - CH65.00)	3 days	2009/5/11	2009/5/13
71	Bay A8 (CH65.00 - CH77.00)	3 days	2009/5/14	2009/5/16
72	Bay A9 (CH77.00 - CH89.00)	3 days	2009/5/18	2009/5/20
73	Bay A10 (CH89.00 - CH101.00)	3 days	2009/5/21	2009/5/23
74	**Construction of catchpit / manhole / drain pipe along the sides of channel**	**23 days**	**2009/5/4**	**2009/5/30**
75	Bay A1 (CH00.00 - CH12.00)	4 days	2009/5/4	2009/5/7
76	Bay A2 (CH12.00 - CH24.00)	4 days	2009/5/8	2009/5/12
77	Bay A3 (CH24.00 - CH36.00)	4 days	2009/5/13	2009/5/16
78	Bay A4 (CH36.00 - CH48.00)	4 days	2009/5/18	2009/5/21



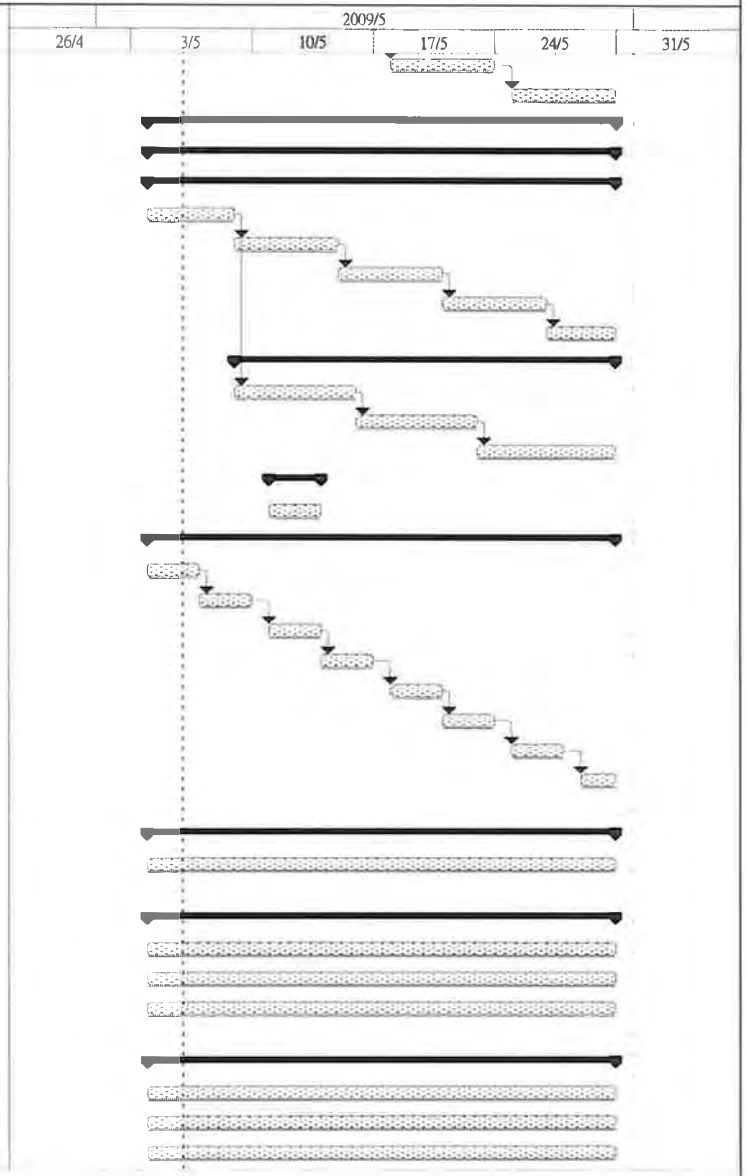
Task Progress Summary External Tasks Split
Split Milestone Project Summary External MileTask

ID	Task Name	Duration	Start	Complete
79	Bay A5 (CH48.00 - CH53.00)	4 days	2009/5/22	2009/5/26
80	Bay A7 (CH57.00 - CH65.00)	3 days	2009/5/27	2009/5/30
81	**Installation of Type 2 railing on top of rectangular channel (CH0.00 - CH150.00)**	**23 days**	**2009/5/4**	**2009/5/30**
82	Bay A11 (CH101.00 - CH113.00)	3 days	2009/5/4	2009/5/6
83	Bay A12 (CH113.00 - CH119.00)	3 days	2009/5/19	2009/5/21
84	Bay A13 (CH119.00 - CH134.00)	2 days	2009/5/26	2009/5/27
85	Bay A14 (CH134.00 - CH145.00)	2 days	2009/5/29	2009/5/30
86				
87	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**23 days**	**2009/5/4**	**2009/5/30**
88	**Regular Environmental Impact Monitoring**	23 days	2009/5/4	2009/5/30
89	**Regular Tree Survey & Protection**	23 days	2009/5/4	2009/5/30
90	**Regular Structural Condition Survey**	23 days	2009/5/4	2009/5/30
91	**Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)**	**23 days**	**2009/5/4**	**2009/5/30**
92	Manhole MH2 - Manhole MH3	12 days	2009/5/4	2009/5/16
93	Manhole MH1 - Manhole MH2	11 days	2009/5/18	2009/5/30
94	**Channel 14B**	**23 days**	**2009/5/4**	**2009/5/30**
95	**Construction of rectangular channel Type RC1 (CH0.00 - CH335.00)**	**23 days**	**2009/5/4**	**2009/5/30**
96	**Excavation to channel formation & Laying rock fill material (CH0.00 - CH335.00)**	**21 days**	**2009/5/4**	**2009/5/27**
97	Bay 31 (CH303.00 - CH309.00)	7 days	2009/5/4	2009/5/11
98	Bay 31A (CH309.00 - CH316.00)	7 days	2009/5/12	2009/5/19
99	Bay 32 (CH316.00 - CH328.00)	7 days	2009/5/20	2009/5/27
100	**Construction of channel structure (CH0.00 - CH335.00)**	**23 days**	**2009/5/4**	**2009/5/30**
101	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	5 days	2009/5/4	2009/5/8
102	Bay 31 (CH303.00 - CH309.00)	5 days	2009/5/12	2009/5/16
103	Bay 31A (CH309.00 - CH316.00)	5 days	2009/5/20	2009/5/25
104	Bay 32 (CH316.00 - CH328.00)	2 days	2009/5/29	2009/5/30
105	**Laying of gabion block inside the channel structure**	**17 days**	**2009/5/11**	**2009/5/30**
106	Bay 18 (CH183.00 - CH195.00)	2 days	2009/5/11	2009/5/12
107	Bay 19 (CH195.00 - CH207.00)	2 days	2009/5/13	2009/5/14
108	Bay 20 (CH207.00 - CH216.00)	2 days	2009/5/15	2009/5/16
109	Bay 22 (CH220.00 - CH225.00)	2 days	2009/5/18	2009/5/19
110	Bay 23 (CH225.00 - CH237.00)	2 days	2009/5/20	2009/5/21
111	Bay 24 (CH237.00 - CH249.00)	2 days	2009/5/22	2009/5/23
112	Bay 25 (CH249.00 - CH260.00)	2 days	2009/5/25	2009/5/26
113	Bay 26 (CH260.00 - CH272.00)	2 days	2009/5/27	2009/5/29
114	Bay 27 (CH272.00 - CH285.00)	1 day	2009/5/30	2009/5/30
115	**Construction of catchpit / manhole / drain pipe along the sides of the channel**	**23 days**	**2009/5/4**	**2009/5/30**
116	Bay 1 (CH00.00 - CH05.00)	6 days	2009/5/4	2009/5/9
117	Bay 2 (CH05.00 - CH08.00) & Pedestrian Crossing PC14B-3	6 days	2009/5/11	2009/5/16



Task Progress Summary External Tasks Split
Split Milestone Project Summary External MileTask

ID	Task Name	Duration	Start	Complete
118	Bay 3 (CH08.00 - CH13.00)	6 days	2009/5/18	2009/5/23
119	Bay 4 (CH13.00 - CH25.00)	5 days	2009/5/25	2009/5/30
120	**Channel KT14C**	**23 days**	**2009/5/4**	**2009/5/30**
121	**Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)**	**23 days**	**2009/5/4**	**2009/5/30**
122	**Excavation to channel formation (CH180.00 - CH475.00) & Laying of rock fill material**	**23 days**	**2009/5/4**	**2009/5/30**
123	Bay 24E (CH222.00 - CH210.00)	5 days	2009/5/4	2009/5/8
124	Bay 25E (CH210.00 - CH199.00)	5 days	2009/5/9	2009/5/14
125	Bay 26E (CH199.00 - CH192.00)	5 days	2009/5/15	2009/5/20
126	Bay 27E (CH192.00 - CH187.00)	5 days	2009/5/21	2009/5/26
127	Bay 17W-2 (CH178.00 - CH187.00) & Vehicular Crossing VC14C-3	3 days	2009/5/27	2009/5/30
128	**Construction of channel structure (CH180.00 - CH475.00)**	**18 days**	**2009/5/9**	**2009/5/30**
129	Bay 24E (CH222.00 - CH210.00)	6 days	2009/5/9	2009/5/15
130	Bay 25E (CH210.00 - CH199.00)	6 days	2009/5/16	2009/5/22
131	Bay 26E (CH199.00 - CH192.00)	6 days	2009/5/23	2009/5/30
132	**Backfilling along the sides of the channel structure & laying underground drain pipe**	**3 days**	**2009/5/11**	**2009/5/13**
133	Bay 23E (CH235.00 - CH222.00)	3 days	2009/5/11	2009/5/13
134	**Construction of catchpit / manhole / drain pipe**	**23 days**	**2009/5/4**	**2009/5/30**
135	Bay 9W (CH80.00 - CH92.00)	3 days	2009/5/4	2009/5/6
136	Bay 10W (CH92.00 - CH105.00)	3 days	2009/5/7	2009/5/9
137	Bay 11W (CH105.00 - CH117.00)	3 days	2009/5/11	2009/5/13
138	Bay 12W (CH117.00 - CH128.00)	3 days	2009/5/14	2009/5/16
139	Bay 13W (CH128.00 - CH141.00)	3 days	2009/5/18	2009/5/20
140	Bay 14W (CH141.00 - CH149.00)	3 days	2009/5/21	2009/5/23
141	Bay 15W (CH149.00 - CH161.00)	3 days	2009/5/25	2009/5/27
142	Bay 16W (CH161.00 - CH174.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2009/5/29	2009/5/30
143				
144	**Section V**	**23 days**	**2009/5/4**	**2009/5/30**
145	Preservation and protection of tree for Section I, II, III and IV	23 days	2009/5/4	2009/5/30
146				
147	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**23 days**	**2009/5/4**	**2009/5/30**
148	Structural Survey and Monitoring	23 days	2009/5/4	2009/5/30
149	Construction of Manhole, Timber Box and Trench Excavation	23 days	2009/5/4	2009/5/30
150	Apply XP Approval for Construction	23 days	2009/5/4	2009/5/30
151				
152	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**23 days**	**2009/5/4**	**2009/5/30**
153	Structural Survey and Monitoring	23 days	2009/5/4	2009/5/30
154	Construction of Manhole, Timber Box and Trench Excavation	23 days	2009/5/4	2009/5/30
155	Apply XP Approval for Construction	23 days	2009/5/4	2009/5/30



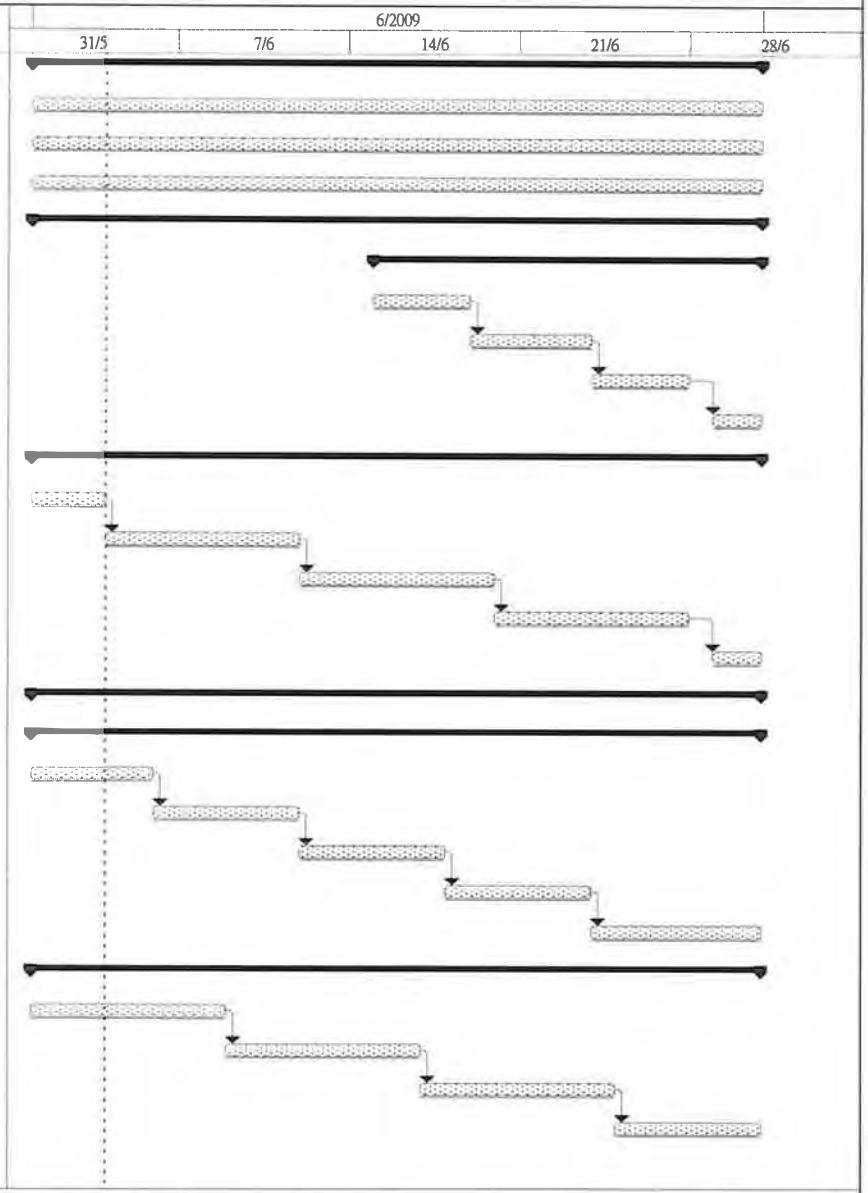
Task Progress Summary External Tasks Split
Split Milestone Project Summary External MileTask

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - June 2009

ID	Task Name	Duration	Start	Finish
1	**Section II (Channel KT13)**	**26 days**	**2009/6/1**	**2009/6/30**
2	**Regular Environmental Impact Monitoring**	26 days	2009/6/1	2009/6/30
3	**Regular Tree Survey & Protection**	26 days	2009/6/1	2009/6/30
4	**Regular Structural Condition Survey**	26 days	2009/6/1	2009/6/30
5	**Section A**	**26 days**	**2009/6/1**	**2009/6/30**
6	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**14 days**	**2009/6/15**	**2009/6/30**
7	Bay A8 (A CH51.00 - A CH59.00) - Transition	4 days	2009/6/15	2009/6/18
8	Bay A9 (A CH59.00 - A CH71.00) - TG2	4 days	2009/6/19	2009/6/23
9	Bay A10 (A CH71.00 - A CH83.00) - TG2	4 days	2009/6/24	2009/6/27
10	Bay A11 (A CH83.00 - A CH95.00) - TG2	2 days	2009/6/29	2009/6/30
11	**Construction of channel structure (RC2, Transition, and TG2)**	**26 days**	**2009/6/1**	**2009/6/30**
12	Bay A3 (A CH18.00 - A CH26.00) - RC2	3 days	2009/6/1	2009/6/3
13	Bay A4 (A CH26.00 - A CH34.00) - Transition	7 days	2009/6/4	2009/6/11
14	Bay A5 (A CH34.00 - A CH41.00) - Transition	7 days	2009/6/12	2009/6/19
15	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	7 days	2009/6/20	2009/6/27
16	Bay A7 (A CH44.00 - A CH51.00) - Transition	2 days	2009/6/29	2009/6/30
17	**Section B**	**26 days**	**2009/6/1**	**2009/6/30**
18	**Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)**	**26 days**	**2009/6/1**	**2009/6/30**
19	Bay B4 (B CH24.00 - B CH34.00) - TG3	5 days	2009/6/1	2009/6/5
20	Bay B3 (B CH14.00 - B CH24.00) - TG3	5 days	2009/6/6	2009/6/11
21	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	5 days	2009/6/12	2009/6/17
22	Bay B14 (B CH137.00 - B CH144.00) - Transition	5 days	2009/6/18	2009/6/23
23	Bay B13 (B CH129.00 - B CH137.00) - Transition	6 days	2009/6/24	2009/6/30
24	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**26 days**	**2009/6/1**	**2009/6/30**
25	Bay B8 (B CH68.00 - B CH80.00) - TG3	7 days	2009/6/1	2009/6/8
26	Bay B7 (B CH57.00 - B CH68.00) - TG3	7 days	2009/6/9	2009/6/16
27	Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2009/6/17	2009/6/24
28	Bay B5 (B CH34.00 - B CH46.00) - TG3	5 days	2009/6/25	2009/6/30
29				



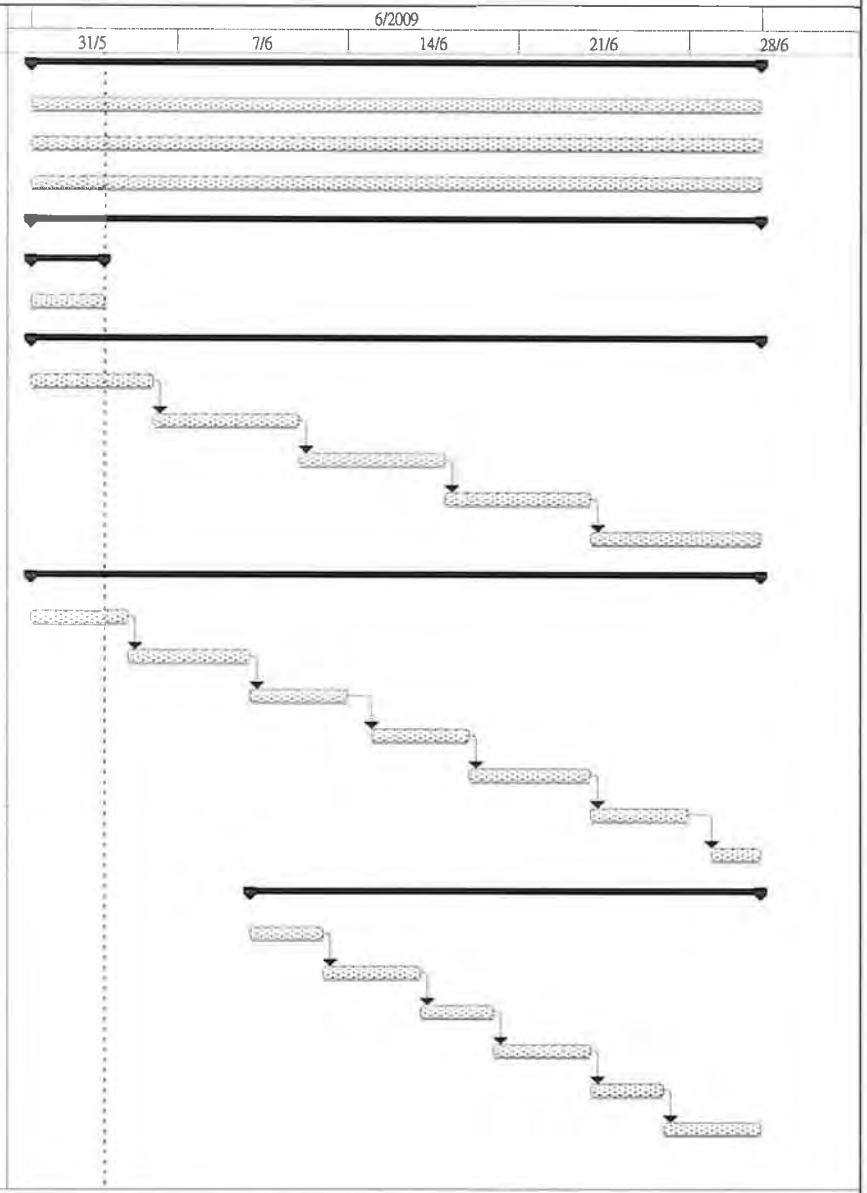
Task Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - June 2009

ID	Task Name	Duration	Start	Finish
30	**Section III (Channel KT14A - Tin Sam Tsuen)**	**26 days**	**2009/6/1**	**2009/6/30**
31	**Regular Environmental Impact Monitoring**	26 days	2009/6/1	2009/6/30
32	**Regular Tree Survey**	26 days	2009/6/1	2009/6/30
33	**Regular Structural Condition Survey**	26 days	2009/6/1	2009/6/30
34	**Construction of rectangular channel 2.5m(W) x 2.8m(H) Type RC1 (CH0.00 - CH150.00)**	**26 days**	**2009/6/1**	**2009/6/30**
35	**Backfilling along the sides of the channel structure**	**3 days**	**2009/6/1**	**2009/6/3**
36	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/6/1	2009/6/3
37	**Laying of gabion block inside the channel structure**	**26 days**	**2009/6/1**	**2009/6/30**
38	Bay A11 (CH101.00 - CH113.00)	5 days	2009/6/1	2009/6/5
39	Bay A12 (CH113.00 - CH119.00)	5 days	2009/6/6	2009/6/11
40	Bay A13 (CH119.00 - CH134.00)	5 days	2009/6/12	2009/6/17
41	Bay A14 (CH134.00 - CH145.00)	5 days	2009/6/18	2009/6/23
42	Bay A14-1 (CH134.00 - CH145.00)	6 days	2009/6/24	2009/6/30
43	**Construction of catchpit / manhole / drain pipe along the sides of channel**	**26 days**	**2009/6/1**	**2009/6/30**
44	Bay A1 (CH00.00 - CH12.00)	4 days	2009/6/1	2009/6/4
45	Bay A2 (CH12.00 - CH24.00)	4 days	2009/6/5	2009/6/9
46	Bay A3 (CH24.00 - CH36.00)	4 days	2009/6/10	2009/6/13
47	Bay A4 (CH36.00 - CH48.00)	4 days	2009/6/15	2009/6/18
48	Bay A5 (CH48.00 - CH53.00)	4 days	2009/6/19	2009/6/23
49	Bay A7 (CH57.00 - CH65.00)	4 days	2009/6/24	2009/6/27
50	Bay A8 (CH65.00 - CH77.00)	2 days	2009/6/29	2009/6/30
51	**Installation of Type 2 railing on top of rectangular channel (CH0.00 - CH150.00)**	**18 days**	**2009/6/10**	**2009/6/30**
52	Bay A10 (CH89.00 - CH101.00)	3 days	2009/6/10	2009/6/12
53	Bay A11 (CH101.00 - CH113.00)	3 days	2009/6/13	2009/6/16
54	Bay A12 (CH113.00 - CH119.00)	3 days	2009/6/17	2009/6/19
55	Bay A13 (CH119.00 - CH134.00)	3 days	2009/6/20	2009/6/23
56	Bay A14 (CH134.00 - CH145.00)	3 days	2009/6/24	2009/6/26
57	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/6/27	2009/6/30
58				



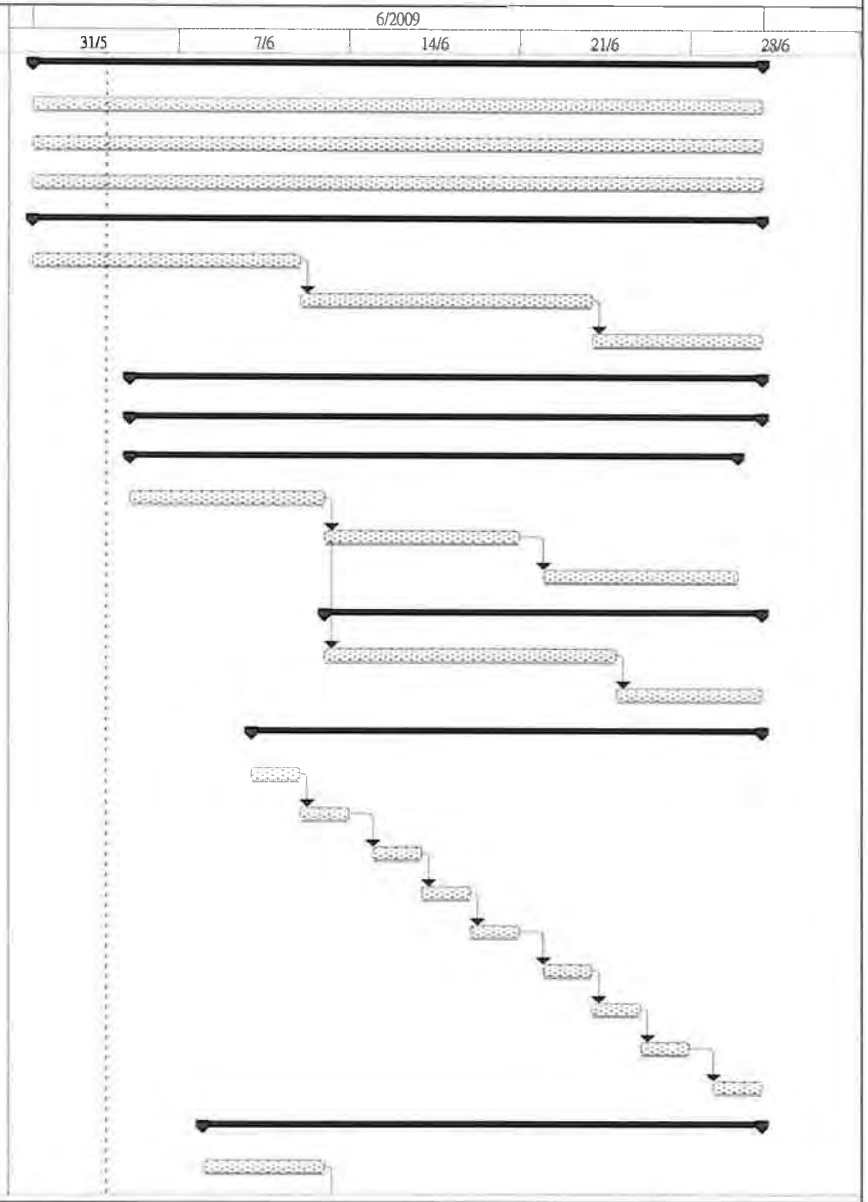
Task Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - June 2009

ID	Task Name	Duration	Start	Finish
59	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**26 days**	**2009/6/1**	**2009/6/30**
60	**Regular Environmental Impact Monitoring**	26 days	2009/6/1	2009/6/30
61	**Regular Tree Survey & Protection**	26 days	2009/6/1	2009/6/30
62	**Regular Structural Condition Survey**	26 days	2009/6/1	2009/6/30
63	**Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)**	**26 days**	**2009/6/1**	**2009/6/30**
64	Manhole MH2 - Manhole MH3	10 days	2009/6/1	2009/6/11
65	Manhole MH1 - Manhole MH2	10 days	2009/6/12	2009/6/23
66	Catchpit CP1 - Manhole MH1	6 days	2009/6/24	2009/6/30
67	**Channel 14B**	**22 days**	**2009/6/5**	**2009/6/30**
68	**Construction of rectangular channel Type RC1 (CH0.00 - CH335.00)**	**22 days**	**2009/6/5**	**2009/6/30**
69	**Excavation to channel formation & Laying rock fill material (CH0.00 - CH335.00)**	**21 days**	**2009/6/5**	**2009/6/29**
70	Bay 31A (CH309.00 - CH317.00)	7 days	2009/6/5	2009/6/12
71	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	7 days	2009/6/13	2009/6/20
72	Bay 31 (CH303.00 - CH309.00)	7 days	2009/6/22	2009/6/29
73	**Construction of channel structure (CH0.00 - CH335.00)**	**15 days**	**2009/6/13**	**2009/6/30**
74	Bay 31A (CH309.00 - CH317.00)	10 days	2009/6/13	2009/6/24
75	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	5 days	2009/6/25	2009/6/30
76	**Laying of gabion block inside the channel structure**	**18 days**	**2009/6/10**	**2009/6/30**
77	Bay 18 (CH183.00 - CH195.00)	2 days	2009/6/10	2009/6/11
78	Bay 19 (CH195.00 - CH207.00)	2 days	2009/6/12	2009/6/13
79	Bay 20 (CH207.00 - CH216.00)	2 days	2009/6/15	2009/6/16
80	Bay 22 (CH220.00 - CH225.00)	2 days	2009/6/17	2009/6/18
81	Bay 23 (CH225.00 - CH237.00)	2 days	2009/6/19	2009/6/20
82	Bay 24 (CH237.00 - CH249.00)	2 days	2009/6/22	2009/6/23
83	Bay 25 (CH249.00 - CH260.00)	2 days	2009/6/24	2009/6/25
84	Bay 26 (CH260.00 - CH272.00)	2 days	2009/6/26	2009/6/27
85	Bay 27 (CH272.00 - CH285.00)	2 days	2009/6/29	2009/6/30
86	**Construction of catchpit / manhole / drain pipe along the sides of the channel**	**20 days**	**2009/6/8**	**2009/6/30**
87	Bay 1 (CH00.00 - CH05.00)	5 days	2009/6/8	2009/6/12



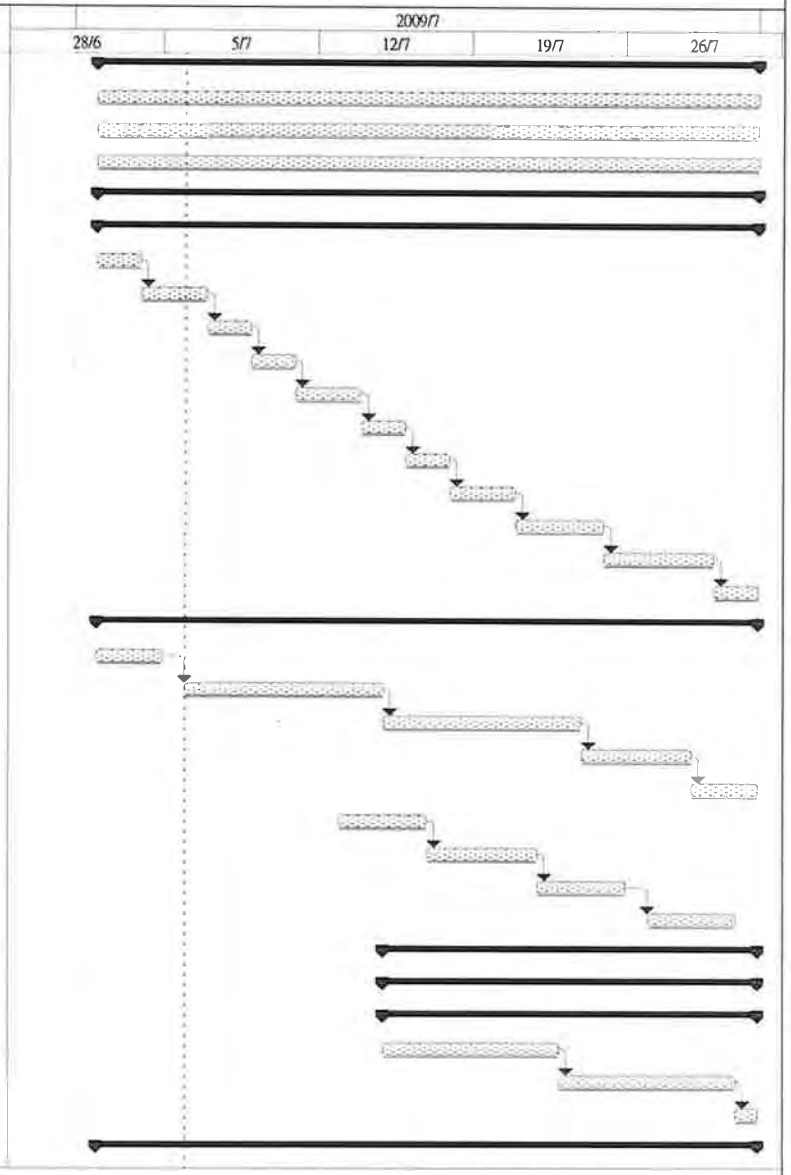
Task Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - July 2009

ID	Task Name	Duration	Start	Finish
1	**Section II (Channel KT13)**	**26 days**	**2009/7/2**	**2009/7/31**
2	**Regular Environmental Impact Monitoring**	26 days	2009/7/2	2009/7/31
3	**Regular Tree Survey & Protection**	26 days	2009/7/2	2009/7/31
4	**Regular Structural Condition Survey**	26 days	2009/7/2	2009/7/31
5	**Section A**	**26 days**	**2009/7/2**	**2009/7/31**
6	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**26 days**	**2009/7/2**	**2009/7/31**
7	Bay A7 (A CH44.00 - A CH51.00) - Transition	2 days	2009/7/2	2009/7/3
8	Bay A8 (A CH51.00 - A CH59.00) - Transition	2 days	2009/7/4	2009/7/6
9	Bay A9 (A CH59.00 - A CH71.00) - TG2	2 days	2009/7/7	2009/7/8
10	Bay A10 (A CH71.00 - A CH83.00) - TG2	2 days	2009/7/9	2009/7/10
11	Bay A11 (A CH83.00 - A CH95.00) - TG2	2 days	2009/7/11	2009/7/13
12	Bay A12 (A CH95.00 - A CH108.00) - TG2	2 days	2009/7/14	2009/7/15
13	Bay A13 (A CH108.00 - A CH120.00) - TG2	2 days	2009/7/16	2009/7/17
14	Bay A14 (A CH120.00 - A CH133.00) - TG2	2 days	2009/7/18	2009/7/20
15	Bay A15 (A CH133.00 - A CH145.00) - TG2	4 days	2009/7/21	2009/7/24
16	Bay A16 (A CH145.00 - A CH157.00) - TG2	4 days	2009/7/25	2009/7/29
17	Bay A17 (A CH157.00 - A CH170.00) - TG2	2 days	2009/7/30	2009/7/31
18	**Construction of channel structure (RC2, Transition, and TG2)**	**26 days**	**2009/7/2**	**2009/7/31**
19	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	3 days	2009/7/2	2009/7/4
20	Bay A7 (A CH44.00 - A CH51.00) - Transition	8 days	2009/7/6	2009/7/14
21	Bay A8 (A CH51.00 - A CH59.00) - Transition	8 days	2009/7/15	2009/7/23
22	Bay A9 (A CH59.00 - A CH71.00) - TG2	4 days	2009/7/24	2009/7/28
23	Bay A10 (A CH71.00 - A CH83.00) - TG2	3 days	2009/7/29	2009/7/31
24	Bay A11 (A CH83.00 - A CH95.00) - TG2	4 days	2009/7/13	2009/7/16
25	Bay A12 (A CH95.00 - A CH108.00) - TG2	4 days	2009/7/17	2009/7/21
26	Bay A13 (A CH108.00 - A CH120.00) - TG2	4 days	2009/7/22	2009/7/25
27	Bay A14 (A CH120.00 - A CH133.00) - TG2	4 days	2009/7/27	2009/7/30
28	**Section of Box Culvert BC13-1**	**15 days**	**2009/7/15**	**2009/7/31**
29	**Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)**	**15 days**	**2009/7/15**	**2009/7/31**
30	**Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)**	**15 days**	**2009/7/15**	**2009/7/31**
31	Bay BC17 (BC CH202.00 - BC CH217.00)	7 days	2009/7/15	2009/7/22
32	Bay BC18 (BC CH217.00 - BC CH232.00)	7 days	2009/7/23	2009/7/30
33	Bay BC19 (BC CH232.00 - BC CH247.00)	1 day	2009/7/31	2009/7/31
34	**Section B**	**26 days**	**2009/7/2**	**2009/7/31**



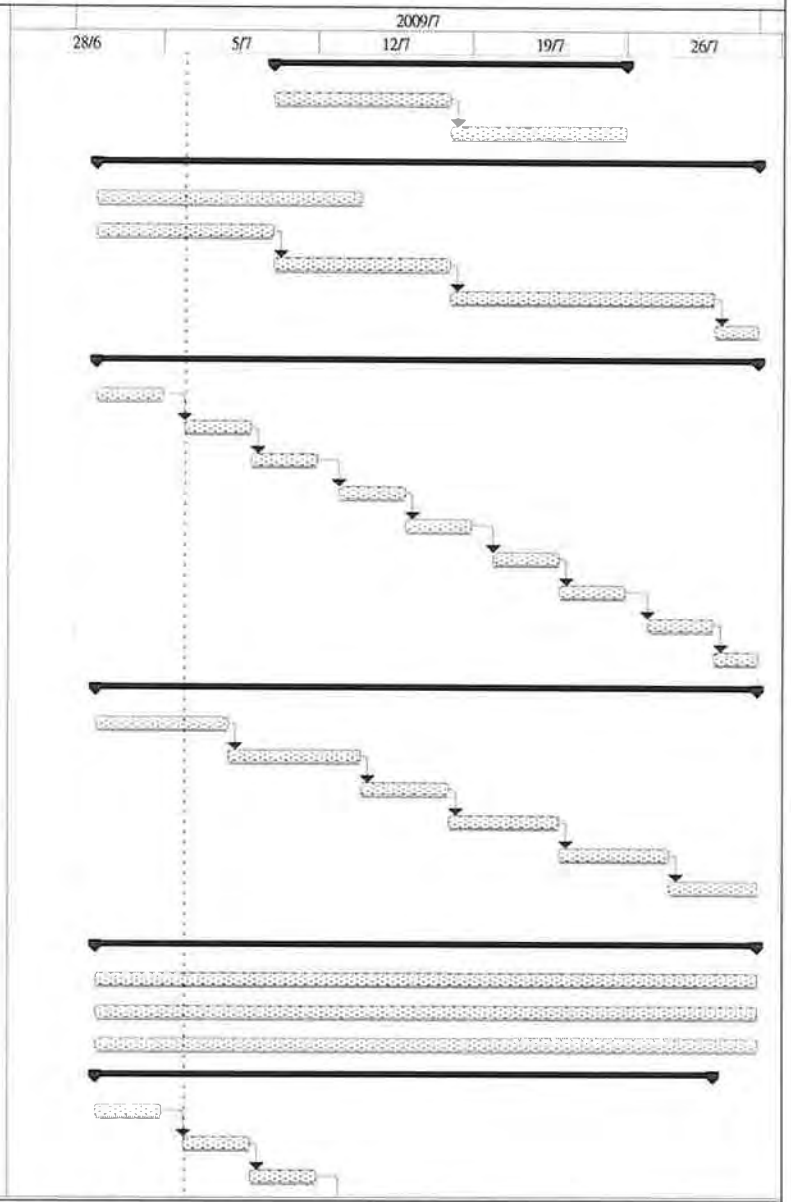
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - July 2009

ID	Task Name	Duration	Start	Finish
35	**Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)**	**14 days**	**2009/7/10**	**2009/7/25**
36	Bay B2 (B CH07.00 - B CH14.00) - Transition	7 days	2009/7/10	2009/7/17
37	Bay B1 (B CH00.00 - B CH07.00) - Transition	7 days	2009/7/18	2009/7/25
38	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**26 days**	**2009/7/2**	**2009/7/31**
39	Bay B13 (B CH129.00 - B CH137.00) - Transition	10 days	2009/7/2	2009/7/13
40	Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2009/7/2	2009/7/9
41	Bay B5 (B CH34.00 - B CH46.00) - TG3	7 days	2009/7/10	2009/7/17
42	Bay B2 (B CH07.00 - B CH14.00) - Transition	10 days	2009/7/18	2009/7/29
43	Bay B1 (B CH00.00 - B CH07.00) - Transition	2 days	2009/7/30	2009/7/31
44	**Backfilling along the sides of channel & laying of underground drain**	**26 days**	**2009/7/2**	**2009/7/31**
45	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2009/7/2	2009/7/4
46	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2009/7/6	2009/7/8
47	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2009/7/9	2009/7/11
48	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2009/7/13	2009/7/15
49	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2009/7/16	2009/7/18
50	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2009/7/20	2009/7/22
51	Bay B6 (B CH46.00 - B CH57.00) - TG3	3 days	2009/7/23	2009/7/25
52	Bay B5 (B CH34.00 - B CH46.00) - TG3	3 days	2009/7/27	2009/7/29
53	Bay B4 (B CH24.00 - B CH34.00) - TG3	2 days	2009/7/30	2009/7/31
54	**Installation of Type 2 railing on top of channel wall**	**26 days**	**2009/7/2**	**2009/7/31**
55	Bay A15 (A CH133.00 - A CH145.00) - TG2	5 days	2009/7/2	2009/7/7
56	Bay A14 (A CH120.00 - A CH133.00) - TG2	5 days	2009/7/8	2009/7/13
57	Bay B13 (B CH129.00 - B CH137.00) - Transition	4 days	2009/7/14	2009/7/17
58	Bay B12 (B CH119.00 - B CH129.00) - TG3	4 days	2009/7/18	2009/7/22
59	Bay B11 (B CH107.00 - B CH119.00) - TG3	4 days	2009/7/23	2009/7/27
60	Bay B10 (B CH94.00 - B CH107.00) - TG3	4 days	2009/7/28	2009/7/31
61				
62	**Section III (Channel KT14A - Tin Sam Tsuen)**	**26 days**	**2009/7/2**	**2009/7/31**
63	**Regular Environmental Impact Monitoring**	26 days	2009/7/2	2009/7/31
64	**Regular Tree Survey**	26 days	2009/7/2	2009/7/31
65	**Regular Structural Condition Survey**	26 days	2009/7/2	2009/7/31
66	**Construction of catchpit / manhole / drain pipe along the sides of channel**	**24 days**	**2009/7/2**	**2009/7/29**
67	Bay A8 (CH65.00 - CH77.00)	3 days	2009/7/2	2009/7/4
68	Bay A9 (CH77.00 - CH89.00)	3 days	2009/7/6	2009/7/8
69	Bay A10 (CH89.00 - CH101.00)	3 days	2009/7/9	2009/7/11



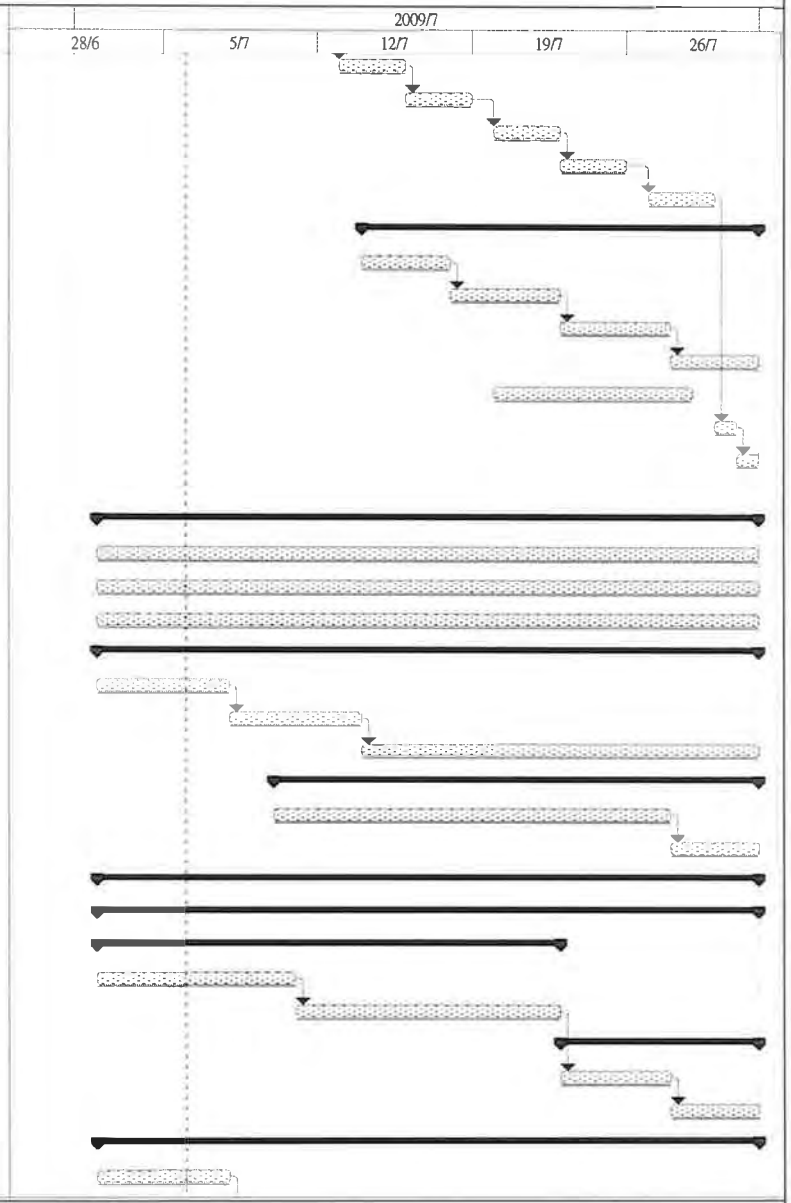
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - July 2009

ID	Task Name	Duration	Start	Finish
70	Bay A11 (CH101.00 - CH113.00)	3 days	2009/7/13	2009/7/15
71	Bay A12 (CH113.00 - CH119.00)	3 days	2009/7/16	2009/7/18
72	Bay A13 (CH119.00 - CH134.00)	3 days	2009/7/20	2009/7/22
73	Bay A14 (CH134.00 - CH145.00)	3 days	2009/7/23	2009/7/25
74	Bay A14-1 (CH134.00 - CH145.00)	3 days	2009/7/27	2009/7/29
75	**Installation of Type 2 railing on top of rectangular channel (CH0.00 - CH150.00)**	**16 days**	**2009/7/14**	**2009/7/31**
76	Bay A12 (CH113.00 - CH119.00)	4 days	2009/7/14	2009/7/17
77	Bay A13 (CH119.00 - CH134.00)	4 days	2009/7/18	2009/7/22
78	Bay A14 (CH134.00 - CH145.00)	4 days	2009/7/23	2009/7/27
79	Bay A14-1 (CH134.00 - CH145.00)	4 days	2009/7/28	2009/7/31
80	Installation of sign plate along the sides of channel/Street furniture	8 days	2009/7/20	2009/7/28
81	Hydroseeding	1 day	2009/7/30	2009/7/30
82	Compensatory Planting	1 day	2009/7/31	2009/7/31
83				
84	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**26 days**	**2009/7/2**	**2009/7/31**
85	**Regular Environmental Impact Monitoring**	26 days	2009/7/2	2009/7/31
86	**Regular Tree Survey & Protection**	26 days	2009/7/2	2009/7/31
87	**Regular Structural Condition Survey**	26 days	2009/7/2	2009/7/31
88	**Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)**	**26 days**	**2009/7/2**	**2009/7/31**
89	Catchpit CP2 - Manhole MH1	5 days	2009/7/2	2009/7/7
90	Manhole MH7A - Manhole 7	5 days	2009/7/8	2009/7/13
91	Manhole MH1 - Catchpit CP1	16 days	2009/7/14	2009/7/31
92	**Manhole MH7 - Manhole MH6 (Pipe Jacking)**	**19 days**	**2009/7/10**	**2009/7/31**
93	Construction of Jacking Pit and Receiving Pit	15 days	2009/7/10	2009/7/27
94	Construction of Thrust Frame and setting up of equipments	4 days	2009/7/28	2009/7/31
95	**Channel 14B**	**26 days**	**2009/7/2**	**2009/7/31**
96	**Construction of rectangular channel Type RC1 (CH0.00 - CH339.00)**	**26 days**	**2009/7/2**	**2009/7/31**
97	**Construction of channel structure (CH0.00 - CH335.00)**	**18 days**	**2009/7/2**	**2009/7/22**
98	Bay 31 (CH303.00 - CH317.00)	8 days	2009/7/2	2009/7/10
99	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	10 days	2009/7/11	2009/7/22
100	**Backfilling along the sides of the channel structure / Laying underground drain pipe**	**8 days**	**2009/7/23**	**2009/7/31**
101	Bay 31 (CH303.00 - CH317.00)	4 days	2009/7/23	2009/7/27
102	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	4 days	2009/7/28	2009/7/31
103	**Construction of catchpit / manhole / drain pipe along the sides of the channel**	**26 days**	**2009/7/2**	**2009/7/31**
104	Existing U-channel to CP14B-13 (Upstream)	5 days	2009/7/2	2009/7/7



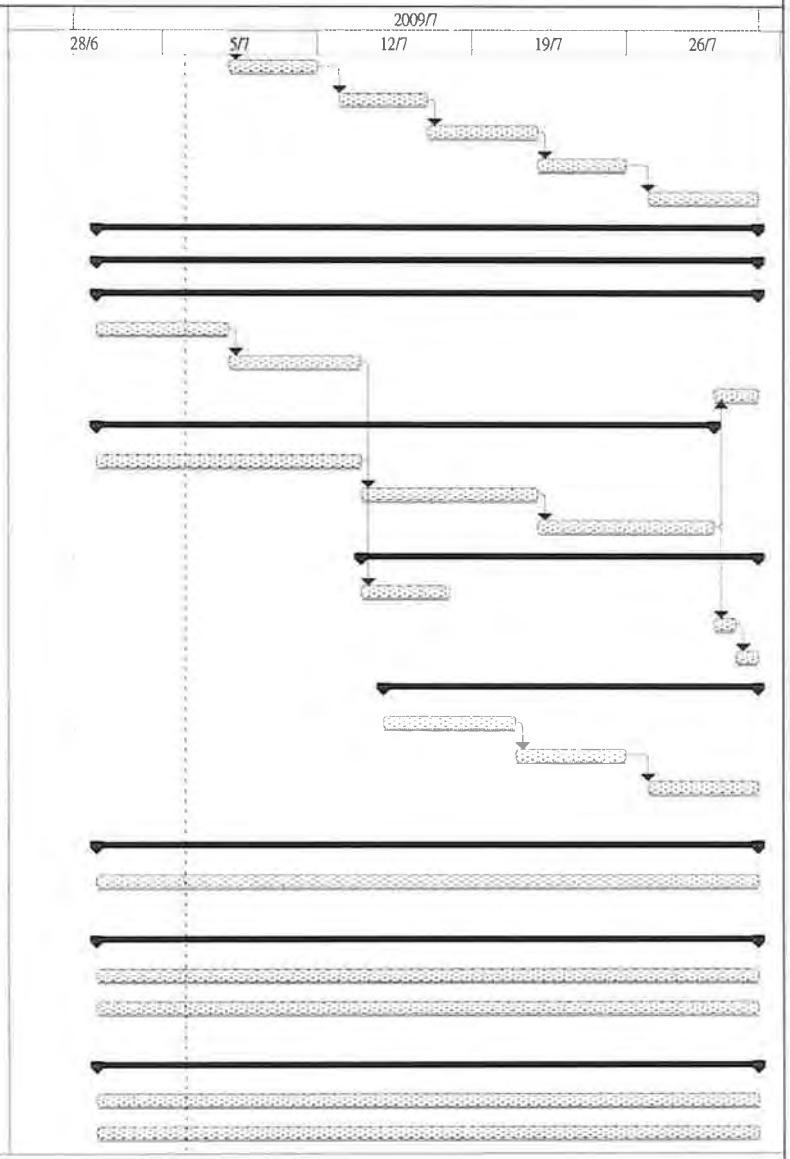
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - July 2009

ID	Task Name	Duration	Start	Finish
105	Bay 1 (CH00.00 - CH05.00)	4 days	2009/7/8	2009/7/11
106	Bay 2 (CH05.00 - CH08.00) & Pedestrian Crossing PC14B-3	4 days	2009/7/13	2009/7/16
107	Bay 3 (CH08.00 - CH13.00)	4 days	2009/7/17	2009/7/21
108	Bay 4 (CH13.00 - CH25.00)	4 days	2009/7/22	2009/7/25
109	Bay 5 (CH25.00 - CH37.00)	5 days	2009/7/27	2009/7/31
110	**Channel KT14C**	**26 days**	**2009/7/2**	**2009/7/31**
111	**Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)**	**26 days**	**2009/7/2**	**2009/7/31**
112	**Excavation to channel formation (CH180.00 - CH475.00) & Laying rock fill material**	**26 days**	**2009/7/2**	**2009/7/31**
113	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	5 days	2009/7/2	2009/7/7
114	Bay 19E (CH279.00 - CH267.00)	5 days	2009/7/8	2009/7/13
115	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	2 days	2009/7/30	2009/7/31
116	**Construction of channel structure (CH180.00 - CH475.00)**	**24 days**	**2009/7/2**	**2009/7/29**
117	Bay 17W-2 (CH178.00 - CH187.00) & Vehicular Crossing VC14C-3	10 days	2009/7/2	2009/7/13
118	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	7 days	2009/7/14	2009/7/21
119	Bay 19E (CH279.00 - CH267.00)	7 days	2009/7/22	2009/7/29
120	**Backfilling along the sides of the channel structure & laying underground drain pipe**	**16 days**	**2009/7/14**	**2009/7/31**
121	Bay 17W-2 (CH178.00 - CH187.00) & Vehicular Crossing VC14C-3	4 days	2009/7/14	2009/7/17
122	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	1 day	2009/7/30	2009/7/30
123	Bay 19E (CH279.00 - CH267.00)	1 day	2009/7/31	2009/7/31
124	**Installation of Type 2 railing on top of channel walls**	**15 days**	**2009/7/15**	**2009/7/31**
125	Bay 20E (CH267.00 - CH255.00)	5 days	2009/7/15	2009/7/20
126	Bay 21E (CH255.00 - CH243.00)	5 days	2009/7/21	2009/7/25
127	Bay 22E (CH243.00 - CH235.00)	5 days	2009/7/27	2009/7/31
128				
129	**Section V**	**26 days**	**2009/7/2**	**2009/7/31**
130	Preservation and protection of tree for Section I, II, III and IV	26 days	2009/7/2	2009/7/31
131				
132	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**26 days**	**2009/7/2**	**2009/7/31**
133	Structural Survey and Monitoring	26 days	2009/7/2	2009/7/31
134	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/7/2	2009/7/31
135				
136	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**26 days**	**2009/7/2**	**2009/7/31**
137	Structural Survey and Monitoring	26 days	2009/7/2	2009/7/31
138	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/7/2	2009/7/31



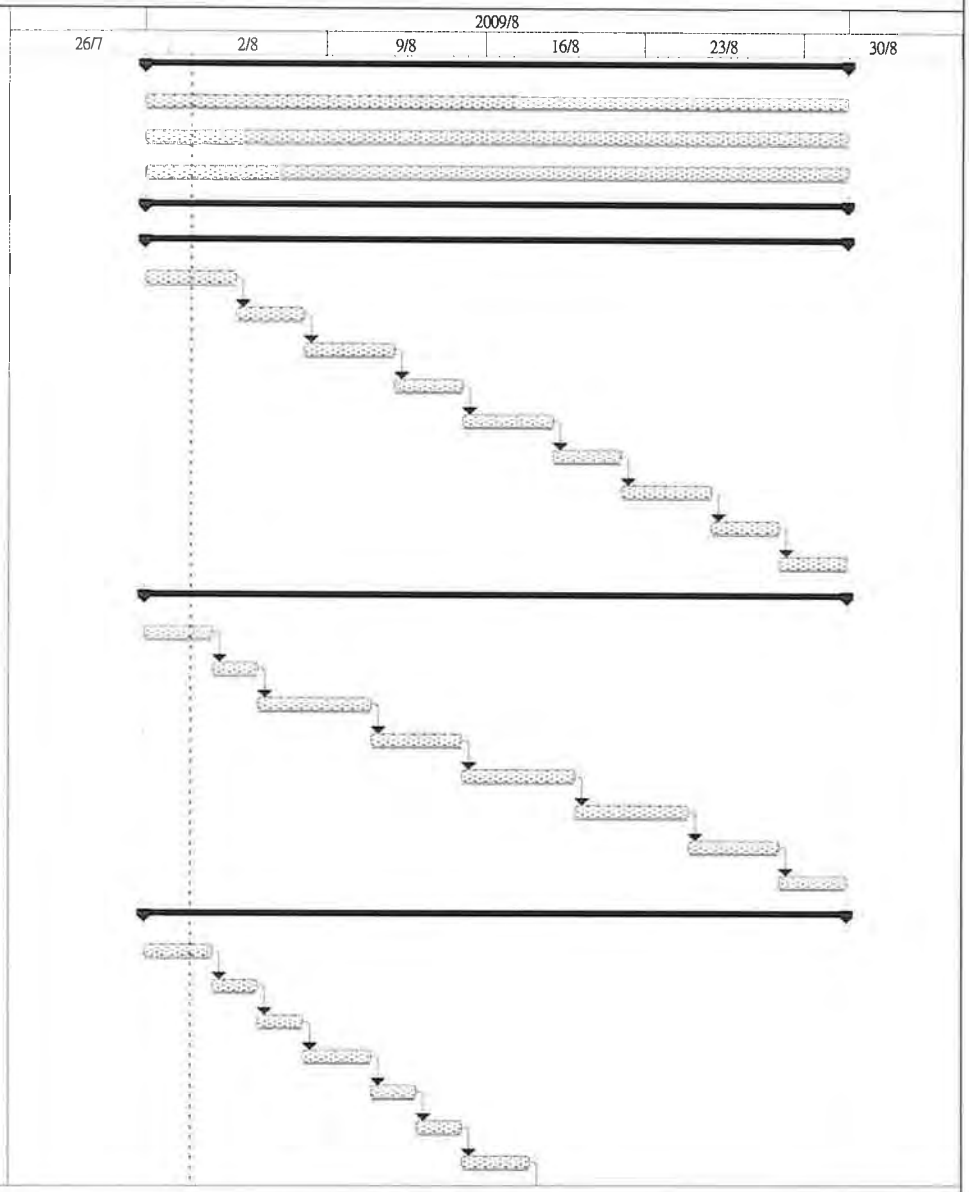
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - August 2009

ID	Task Name	Duration	Start
1	**Section II (Channel KT13)**	**26 days**	**2009/8/1**
2	**Regular Environmental Impact Monitoring**	26 days	2009/8/1
3	**Regular Tree Survey & Protection**	26 days	2009/8/1
4	**Regular Structural Condition Survey**	26 days	2009/8/1
5	**Section A**	**26 days**	**2009/8/1**
6	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00**	**26 days**	**2009/8/1**
7	Bay A2 (A CH09.00 - A CH18.00) - RC2	3 days	2009/8/1
8	Bay A11 (A CH83.00 - A CH95.00) - TG2	3 days	2009/8/5
9	Bay A18 (A CH170.00 - A CH180.00) - TG2	3 days	2009/8/8
10	Bay A19 (A CH180.00 - A CH191.00) - TG2	3 days	2009/8/12
11	Bay A20 (A CH191.00 - A CH201.00) - TG2	3 days	2009/8/15
12	Bay A21 (A CH201.00 - A CH214.00) - TG2	3 days	2009/8/19
13	Bay A22 (A CH214.00 - A CH226.00) - TG2	3 days	2009/8/22
14	Bay A23 (A CH226.00 - A CH245.00) - TG2	3 days	2009/8/26
15	Bay A24 (A CH245.00 - A CH258.00) - TG2	2 days	2009/8/29
16	**Construction of channel structure (RC2, Transition, and TG2)**	**26 days**	**2009/8/1**
17	Bay A15 (A CH133.00 - A CH145.00) - TG2	2 days	2009/8/1
18	Bay A17 (A CH157.00 - A CH170.00) - TG2	2 days	2009/8/4
19	Bay A2 (A CH09.00 - A CH18.00) - RC2	4 days	2009/8/6
20	Bay A11 (A CH83.00 - A CH95.00) - TG2	4 days	2009/8/11
21	Bay A18 (A CH170.00 - A CH180.00) - TG2	4 days	2009/8/15
22	Bay A19 (A CH180.00 - A CH191.00) - TG2	4 days	2009/8/20
23	Bay A20 (A CH191.00 - A CH201.00) - TG2	4 days	2009/8/25
24	Bay A21 (A CH201.00 - A CH214.00) - TG2	2 days	2009/8/29
25	**Backfilling along the channel sides / laying underground drain pipe**	**26 days**	**2009/8/1**
26	Bay A3 (A CH18.00 - A CH26.00) - RC2	2 days	2009/8/1
27	Bay A4 (A CH26.00 - A CH34.00) - Transition	2 days	2009/8/4
28	Bay A5 (A CH34.00 - A CH41.00) - Transition	2 days	2009/8/6
29	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	2 days	2009/8/8
30	Bay A7 (A CH44.00 - A CH51.00) - Transition	2 days	2009/8/11
31	Bay A8 (A CH51.00 - A CH59.00) - Transition	2 days	2009/8/13
32	Bay A11 (A CH83.00 - A CH95.00) - TG2	2 days	2009/8/15



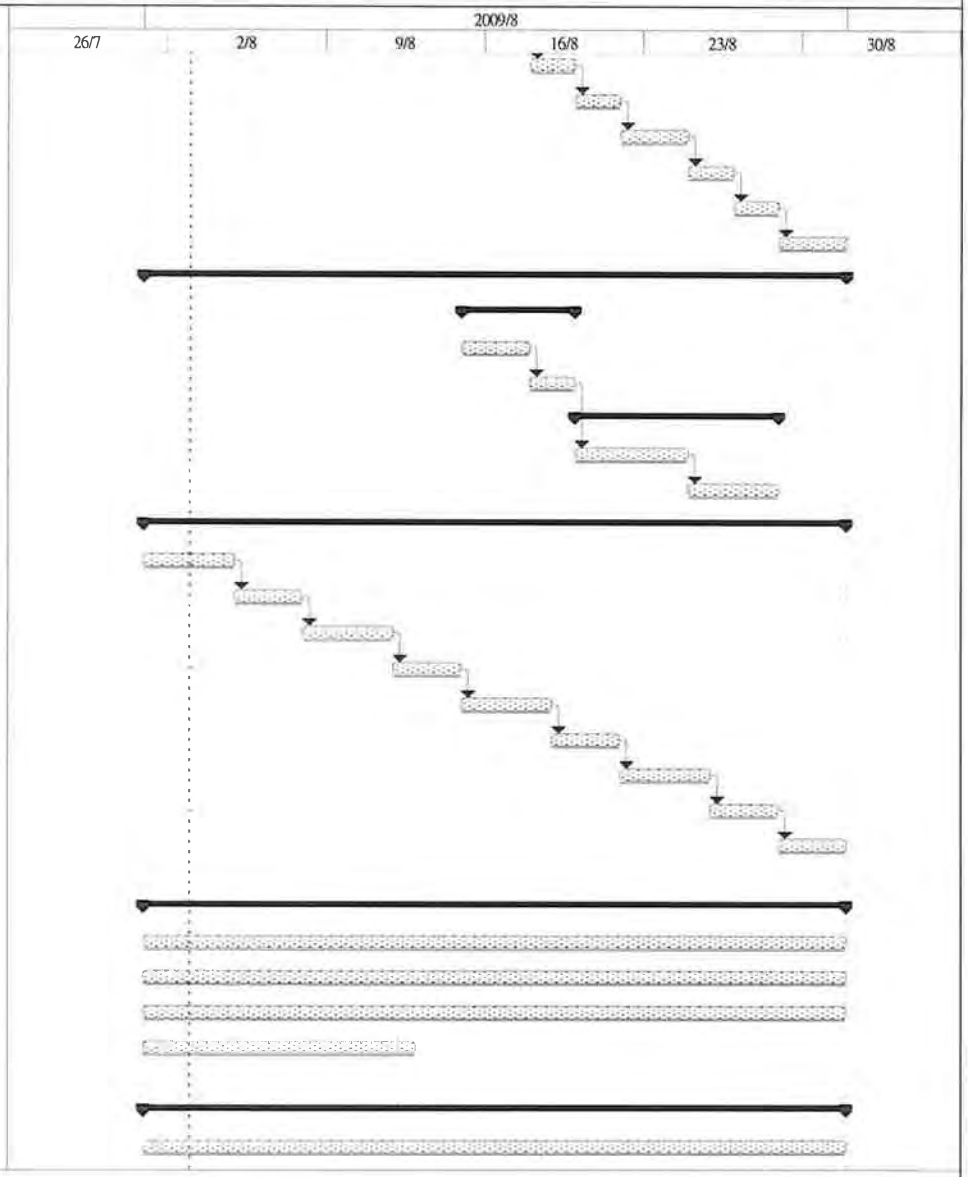
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - August 2009

ID	Task Name	Duration	Start
33	Bay A14 (A CH120.00 - A CH133.00) - TG2	2 days	2009/8/18
34	Bay A15 (A CH133.00 - A CH145.00) - TG2	2 days	2009/8/20
35	Bay A16 (A CH145.00 - A CH157.00) - TG2	2 days	2009/8/22
36	Bay A17 (A CH157.00 - A CH170.00) - TG2	2 days	2009/8/25
37	Bay A18 (A CH170.00 - A CH180.00) - TG2	2 days	2009/8/27
38	Bay A19 (A CH180.00 - A CH191.00) - TG2	2 days	2009/8/29
39	**Section B**	**26 days**	**2009/8/1**
40	**Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00**	**4 days**	**2009/8/15**
41	Bay B6 (B CH46.00 - B CH57.00) - TG3	2 days	2009/8/15
42	Bay B5 (B CH34.00 - B CH46.00) - TG3	2 days	2009/8/18
43	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**8 days**	**2009/8/20**
44	Bay B6 (B CH46.00 - B CH57.00) - TG3	4 days	2009/8/20
45	Bay B5 (B CH34.00 - B CH46.00) - TG3	4 days	2009/8/25
46	**Installation of Type 2 railing on top of channel wall**	**26 days**	**2009/8/1**
47	Bay B14 (B CH137.00 - B CH144.00) - Transition	3 days	2009/8/1
48	Bay B13 (B CH129.00 - B CH137.00) - Transition	3 days	2009/8/5
49	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2009/8/8
50	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2009/8/12
51	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2009/8/15
52	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2009/8/19
53	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2009/8/22
54	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2009/8/26
55	Bay B6 (B CH46.00 - B CH57.00) - TG3	2 days	2009/8/29
56			
57	**Section III (Channel KT14A - Tin Sam Tsuen)**	**26 days**	**2009/8/1**
58	**Regular Environmental Impact Monitoring**	26 days	2009/8/1
59	**Regular Tree Survey**	26 days	2009/8/1
60	**Regular Structural Condition Survey**	26 days	2009/8/1
61	Compensatory Planting	10 days	2009/8/1
62			
63	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**26 days**	**2009/8/1**
64	**Regular Environmental Impact Monitoring**	26 days	2009/8/1



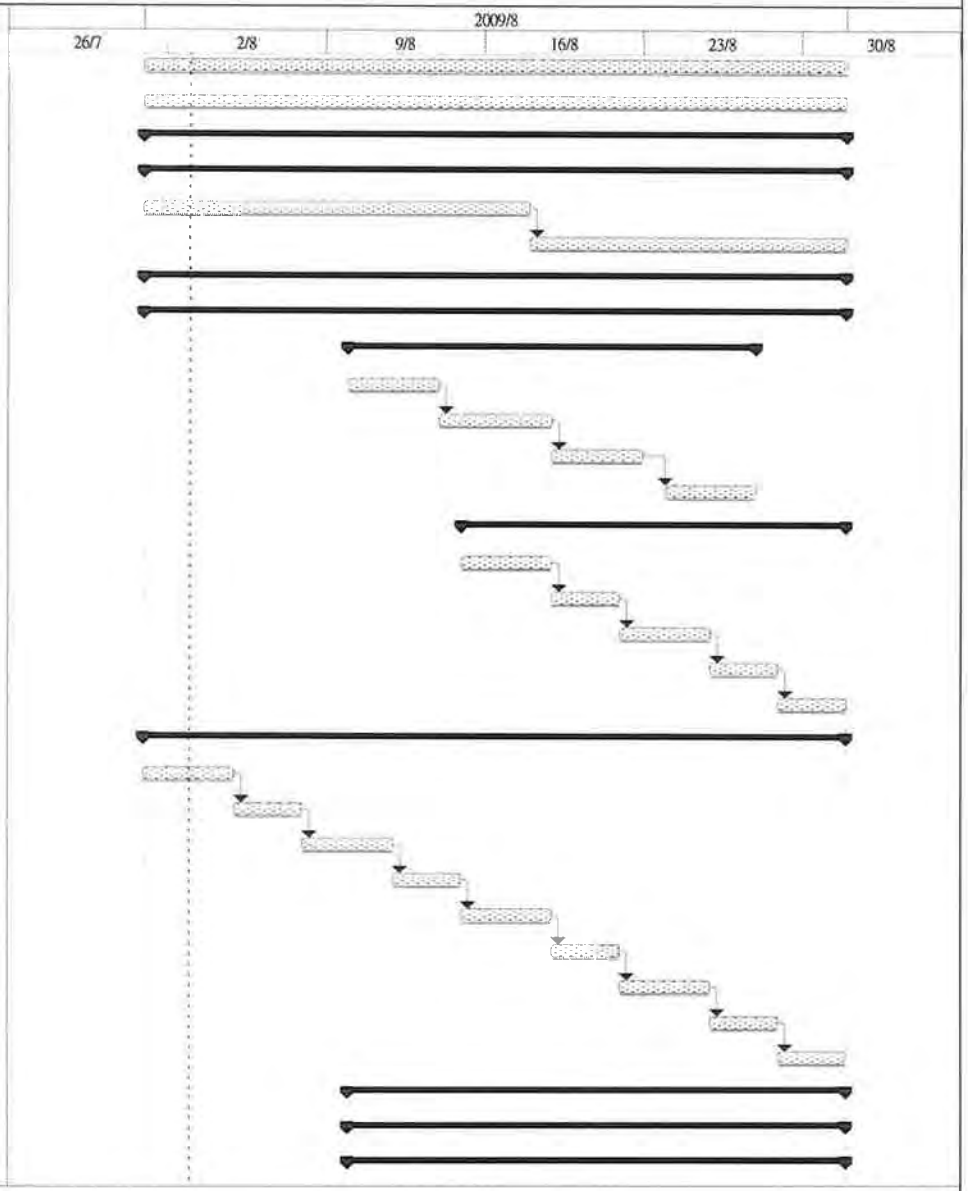
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

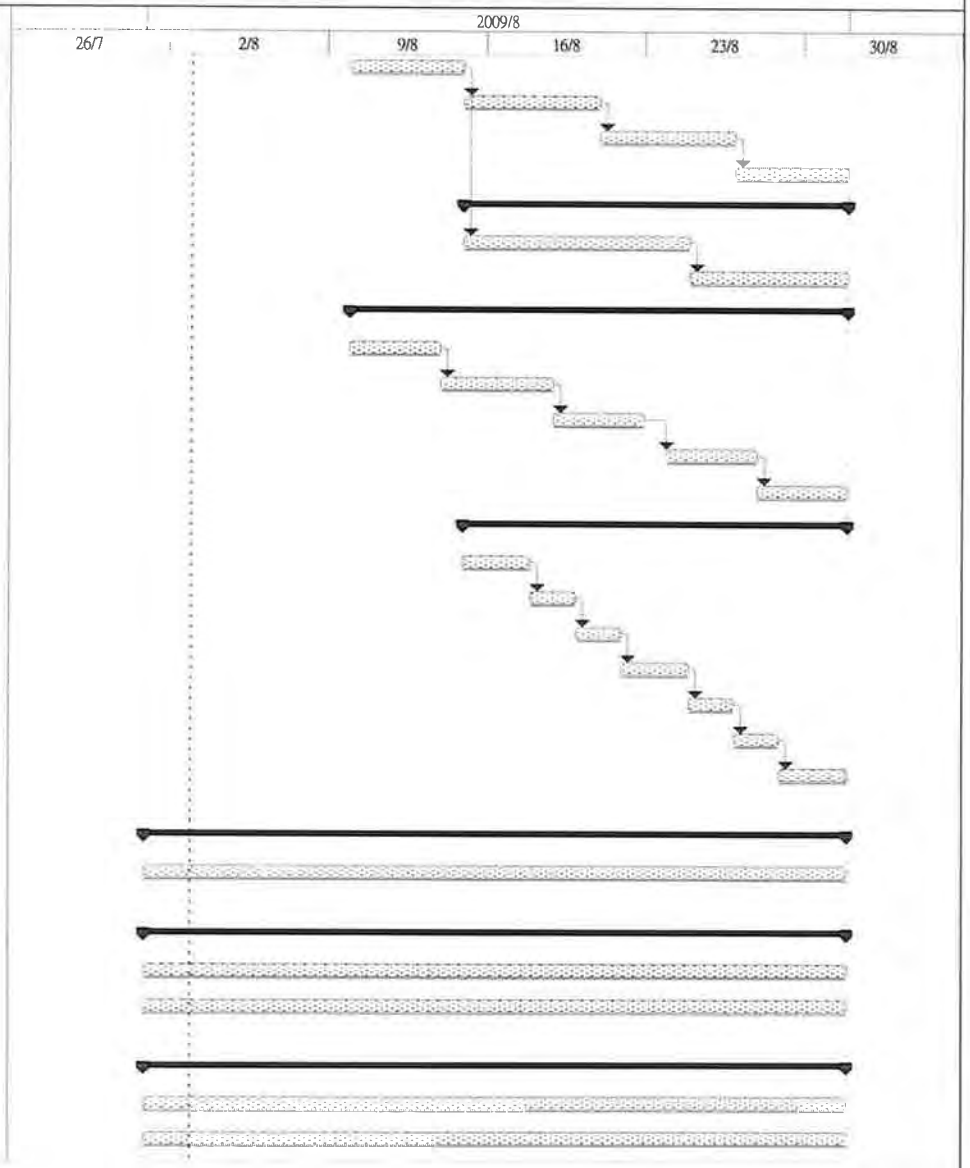
Monthly Rolling Programme - August 2009

ID	Task Name	Duration	Start
65	**Regular Tree Survey & Protection**	26 days	2009/8/1
66	**Regular Structural Condition Survey**	26 days	2009/8/1
67	**Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)**	**26 days**	**2009/8/1**
68	**Manhole MH7 - Manhole MH6 (Pipe Jacking)**	**26 days**	**2009/8/1**
69	Construction of Jacking Pit and Receiving Pit	14 days	2009/8/1
70	Construction of Thrust Frame and Setting up of Equipments	12 days	2009/8/18
71	**Channel 14B**	**26 days**	**2009/8/1**
72	**Construction of rectangular channel Type RC1 (CH0.00 - CH339.00)**	**26 days**	**2009/8/1**
73	**Installation of Type 2 railing on top of channel walls**	**16 days**	**2009/8/10**
74	Bay 29 (CH297.00 - CH299.00)	4 days	2009/8/10
75	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	4 days	2009/8/14
76	Bay 31 (CH303.00 - CH317.00)	4 days	2009/8/19
77	Bay 32 (CH317.00 - CH326.00)	4 days	2009/8/24
78	**Laying of gabion block inside the channel structure**	**14 days**	**2009/8/15**
79	Bay 28 (CH285.00 - CH297.00)	3 days	2009/8/15
80	Bay 29 (CH297.00 - CH299.00)	3 days	2009/8/19
81	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	3 days	2009/8/22
82	Bay 31 (CH303.00 - CH317.00)	3 days	2009/8/26
83	Bay 32 (CH317.00 - CH326.00)	2 days	2009/8/29
84	**Construction of catchpit / manhole / drain pipe along the sides of the channel**	**26 days**	**2009/8/1**
85	Bay 6 (CH37.00 - CH50.00)	3 days	2009/8/1
86	Bay 7 (CH50.00 - CH62.00)	3 days	2009/8/5
87	Bay 8 (CH62.00 - CH74.00)	3 days	2009/8/8
88	Bay 9 (CH74.00 - CH86.00)	3 days	2009/8/12
89	Bay 10 (CH86.00 - CH98.00)	3 days	2009/8/15
90	Bay 11 (CH98.00 - CH110.00)	3 days	2009/8/19
91	Bay 12 (CH110.00 - CH122.00)	3 days	2009/8/22
92	Bay 13 (CH122.00 - CH135.00)	3 days	2009/8/26
93	Bay 14 (CH135.00 - CH147.00)	2 days	2009/8/29
94	**Channel KT14C**	**19 days**	**2009/8/10**
95	**Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)**	**19 days**	**2009/8/10**
96	**Excavation to channel formation (CH180.00 - CH475.00) & Laying rock fill material**	**19 days**	**2009/8/10**



Task Split Progress Milestone Summary

ID	Task Name	Duration	Start
97	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	5 days	2009/8/10
98	Bay 2E (CH466.00 - CH460.00)	5 days	2009/8/15
99	Bay 3E (CH460.00 - CH448.00)	5 days	2009/8/21
100	Bay 4E (CH448.00 - CH435.00)	4 days	2009/8/27
101	**Construction of channel structure (CH180.00 - CH475.00)**	**14 days**	**2009/8/15**
102	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	8 days	2009/8/15
103	Bay 2E (CH466.00 - CH460.00)	6 days	2009/8/25
104	**Construction of catchpit / manhole / drain pipe**	**19 days**	**2009/8/10**
105	Bay 17E-1 (CH299.00 - CH292.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/8/10
106	Bay 17E-2 (CH292.00 - CH285.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/8/14
107	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/8/19
108	Bay 19E (CH279.00 - CH267.00)	4 days	2009/8/24
109	Bay 20E (CH267.00 - CH255.00)	3 days	2009/8/28
110	**Installation of Type 2 railing on top of channel walls**	**14 days**	**2009/8/15**
111	Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2009/8/15
112	Bay 17E-1 (CH299.00 - CH292.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2009/8/18
113	Bay 17E-2 (CH292.00 - CH285.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2009/8/20
114	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2009/8/22
115	Bay 19E (CH279.00 - CH267.00)	2 days	2009/8/25
116	Bay 23E (CH235.00 - CH222.00)	2 days	2009/8/27
117	Bay 24E (CH222.00 - CH210.00)	2 days	2009/8/29
118			
119	**Section V**	**26 days**	**2009/8/1**
120	Preservation and protection of tree for Section I, II, III and IV	26 days	2009/8/1
121			
122	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**26 days**	**2009/8/1**
123	Structural Survey and Monitoring	26 days	2009/8/1
124	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/8/1
125			
126	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**26 days**	**2009/8/1**
127	Structural Survey and Monitoring	26 days	2009/8/1
128	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/8/1



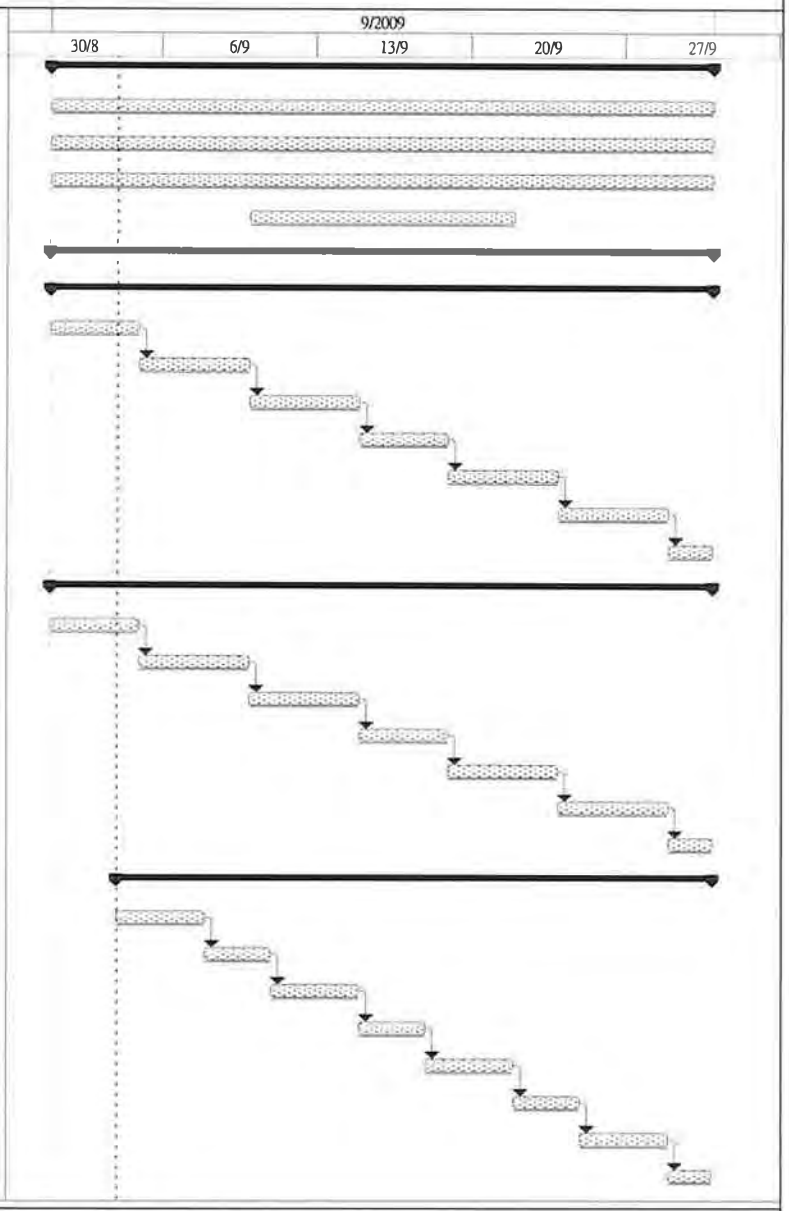
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - September 2009

ID	Task Name	Duration	Start	Complete
1	**Section II (Channel KT13)**	**26 days**	**2009/9/1**	**0**
2	**Regular Environmental Impact Monitoring**	26 days	2009/9/1	0
3	**Regular Tree Survey & Protection**	26 days	2009/9/1	0
4	**Regular Structural Condition Survey**	26 days	2009/9/1	0
5	**Tree Transplanting**	10 days	2009/9/10	0
6	**Section A**	**26 days**	**2009/9/1**	**0**
7	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**26 days**	**2009/9/1**	**0**
8	Bay A24 (A CH245.00 - A CH258.00) - TG2 (W.B.)	4 days	2009/9/1	0
9	Bay A25 (A CH258.00 - A CH271.00) - TG2 (W.B.)	4 days	2009/9/5	0
10	Bay A18 (A CH170.00 - A CH180.00) - TG2 (W.B.)	4 days	2009/9/10	0
11	Bay A19 (A CH180.00 - A CH191.00) - TG2 (W.B.)	4 days	2009/9/15	0
12	Bay A26 (A CH271.00 - A CH283.00) - TG6 (W.B.)	4 days	2009/9/19	0
13	Bay A27 (A CH283.00 - A CH295.00) - TG6 (W.B.)	4 days	2009/9/24	0
14	Bay A28 (A CH295.00 - A CH308.00) - TG6 (W.B.)	2 days	2009/9/29	0
15	**Construction of channel structure (RC2, Transition, and TG2)**	**26 days**	**2009/9/1**	**0**
16	Bay A2 (A CH09.00 - A CH18.00) - RC2	4 days	2009/9/1	0
17	Bay A20 (A CH191.00 - A CH201.00) - TG2 (W.B.)	4 days	2009/9/5	0
18	Bay A22 (A CH214.00 - A CH226.00) - TG2 (W.B.)	4 days	2009/9/10	0
19	Bay A24 (A CH245.00 - A CH258.00) - TG2 (W.B.)	4 days	2009/9/15	0
20	Bay A25 (A CH258.00 - A CH271.00) - TG2 (W.B.)	4 days	2009/9/19	0
21	Bay A18 (A CH170.00 - A CH180.00) - TG2 (W.B.)	4 days	2009/9/24	0
22	Bay A19 (A CH180.00 - A CH191.00) - TG2 (W.B.)	2 days	2009/9/29	0
23	**Backfilling along the channel sides / laying underground drain pipe**	**23 days**	**2009/9/4**	**0**
24	Bay A21 (A CH201.00 - A CH214.00) - TG2 (W.B.)	3 days	2009/9/4	0
25	Bay A23 (A CH226.00 - A CH245.00) - TG2 (W.B.)	3 days	2009/9/8	0
26	Bay A2 (A CH09.00 - A CH18.00) - RC2	3 days	2009/9/11	0
27	Bay A20 (A CH191.00 - A CH201.00) - TG2 (W.B.)	3 days	2009/9/15	0
28	Bay A22 (A CH214.00 - A CH226.00) - TG2 (W.B.)	3 days	2009/9/18	0
29	Bay A24 (A CH245.00 - A CH258.00) - TG2 (W.B.)	3 days	2009/9/22	0
30	Bay A25 (A CH258.00 - A CH271.00) - TG2 (W.B.)	3 days	2009/9/25	0
31	Bay A18 (A CH170.00 - A CH180.00) - TG2 (W.B.)	2 days	2009/9/29	0



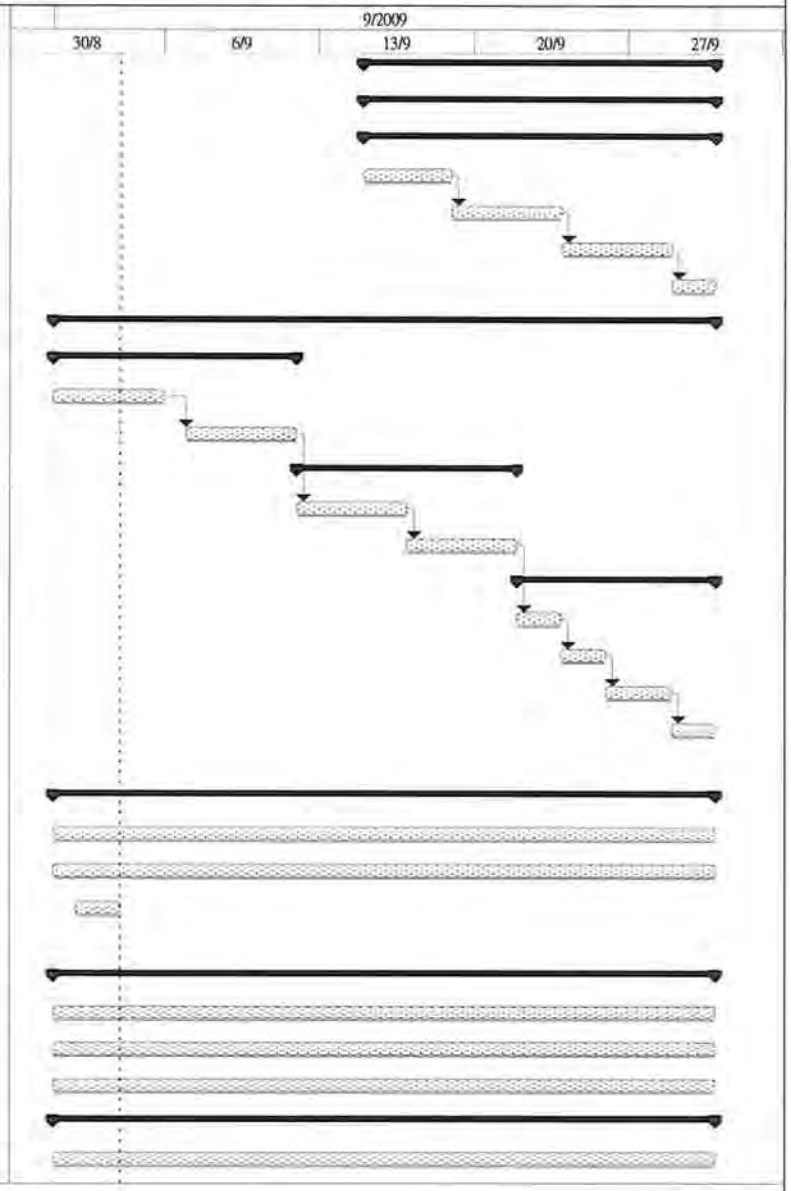
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

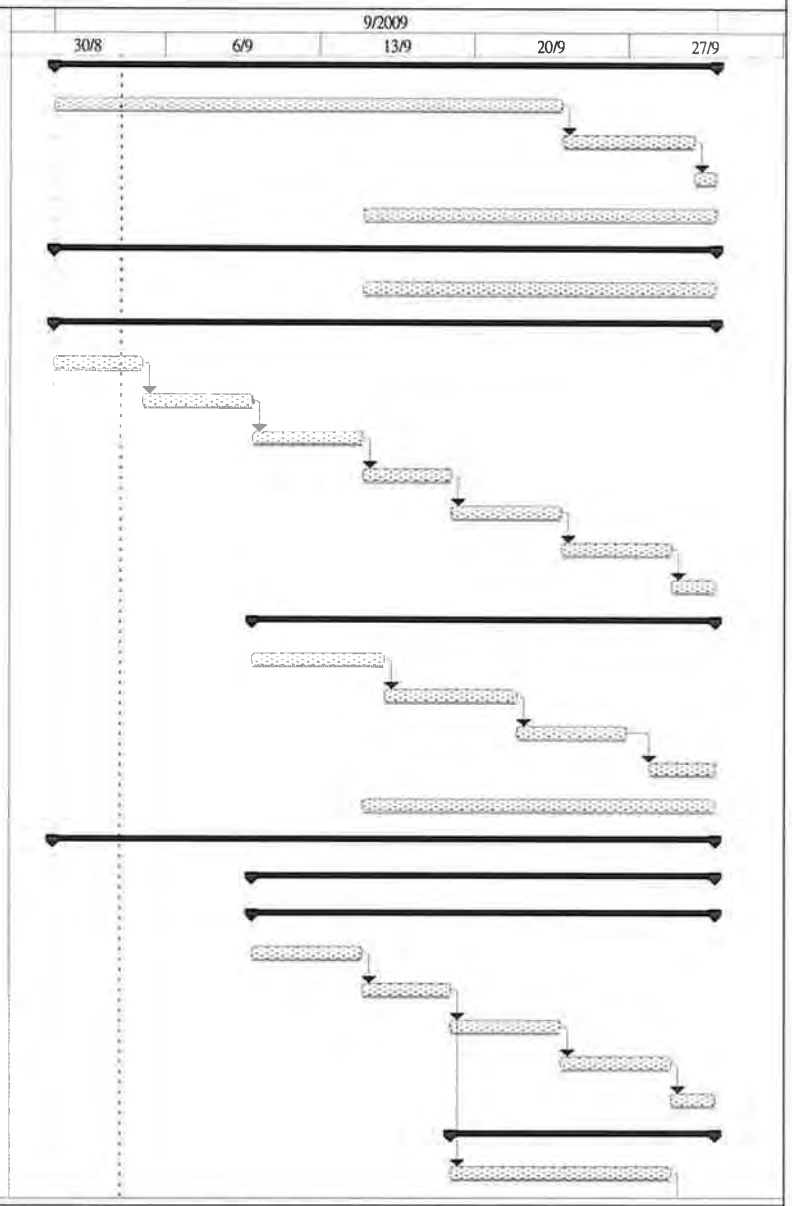
Monthly Rolling Programme - September 2009

ID	Task Name	Duration	Start	Complete
32	Section of Box Culvert BC13-1	14 days	2009/9/15	0
33	Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)	14 days	2009/9/15	0
34	Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)	14 days	2009/9/15	0
35	Bay BC17 (BC CH202.00 - BC CH217.00)	4 days	2009/9/15	0
36	Bay BC18 (BC CH217.00 - BC CH232.00)	4 days	2009/9/19	0
37	Bay BC19 (BC CH232.00 - BC CH247.00)	4 days	2009/9/24	0
38	Bay BC20 (BC CH247.00 - BC CH262.00)	2 days	2009/9/29	0
39	Section B	26 days	2009/9/1	0
40	Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)	10 days	2009/9/1	0
41	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	5 days	2009/9/1	0
42	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	5 days	2009/9/7	0
43	Backfilling along the sides of channel & laying of underground drain	8 days	2009/9/12	0
44	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	4 days	2009/9/12	0
45	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	4 days	2009/9/17	0
46	Installation of Type 2 railing on top of channel wall	8 days	2009/9/22	0
47	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	2 days	2009/9/22	0
48	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	2 days	2009/9/24	0
49	Bay B4 (B CH24.00 - B CH34.00) - TG3 (S.B.)	2 days	2009/9/26	0
50	Bay B3 (B CH14.00 - B CH24.00) - TG3 (S.B.)	2 days	2009/9/29	0
51				
52	Section III (Channel KT14A - Tin Sam Tsuen)	26 days	2009/9/1	0
53	Regular Tree Survey	26 days	2009/9/1	0
54	Regular Structural Condition Survey	26 days	2009/9/1	0
55	Compensatory Planting	2 days	2009/9/2	0
56				
57	Section IV (Channel KT14B & 14C and Portion 8A & 8B)	26 days	2009/9/1	0
58	Regular Environmental Impact Monitoring	26 days	2009/9/1	0
59	Regular Tree Survey & Protection	26 days	2009/9/1	0
60	Regular Structural Condition Survey	26 days	2009/9/1	0
61	Portion 8B (CP1 to CP9) - Kam Sheung Road (1050 Dia. Pipe)	26 days	2009/9/1	0
62	Manhole MH1 - Catchpit CP1	26 days	2009/9/1	0



Task Split Progress Milestone Summary

ID	Task Name	Duration	Start	Complete
63	**Manhole MH7 - Manhole MH6 (Pipe Jacking)**	**26 days**	**2009/9/1**	**0**
64	Pipe Jacking of Steel Ring	20 days	2009/9/1	0
65	Installation of Drain Pipe	5 days	2009/9/24	0
66	Grouting Works	1 day	2009/9/30	0
67	Planting of Shrubs at planters	14 days	2009/9/15	0
68	**Channel 14B**	**26 days**	**2009/9/1**	**0**
69	**Compensatory Planting**	14 days	2009/9/15	0
70	**Construction of catchpit / manhole / drain pipe along the sides of the channel**	**26 days**	**2009/9/1**	**0**
71	Bay 14 (CH135.00 - CH147.00)	4 days	2009/9/1	0
72	Bay 15 (CH147.00 - CH159.00)	4 days	2009/9/5	0
73	Bay 16 (CH159.00 - CH171.00)	4 days	2009/9/10	0
74	Bay 17 (CH171.00 - CH183.00)	4 days	2009/9/15	0
75	Bay 18 (CH183.00 - CH195.00)	4 days	2009/9/19	0
76	Bay 19 (CH195.00 - CH207.00)	4 days	2009/9/24	0
77	Bay 20 (CH207.00 - CH216.00)	2 days	2009/9/29	0
78	**Laying of gabion block inside the channel structure**	**18 days**	**2009/9/10**	**0**
79	Bay 28 (CH285.00 - CH297.00)	5 days	2009/9/10	0
80	Bay 29 (CH297.00 - CH299.00)	5 days	2009/9/16	0
81	Bay 31 (CH303.00 - CH317.00)	5 days	2009/9/22	0
82	Bay 32 (CH317.00 - CH326.00)	3 days	2009/9/28	0
83	Construction of 3.5m maintenance access (CH225.00 - CH335.00) - East bank	14 days	2009/9/15	0
84	**Channel KT14C**	**26 days**	**2009/9/1**	**0**
85	**Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)**	**18 days**	**2009/9/10**	**0**
86	**Excavation to channel formation (CH180.00 - CH475.00) & Laying rock fill material**	**18 days**	**2009/9/10**	**0**
87	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	4 days	2009/9/10	0
88	Bay 2E (CH466.00 - CH460.00)	4 days	2009/9/15	0
89	Bay 3E (CH460.00 - CH448.00)	4 days	2009/9/19	0
90	Bay 4E (CH448.00 - CH435.00)	4 days	2009/9/24	0
91	Bay 5E (CH435.00 - CH425.00)	2 days	2009/9/29	0
92	**Construction of channel structure (CH180.00 - CH475.00)**	**10 days**	**2009/9/19**	**0**
93	Bay 1E (CH475.00 - CH466.00) & Vehicular Crossing VC14C-1	8 days	2009/9/19	0



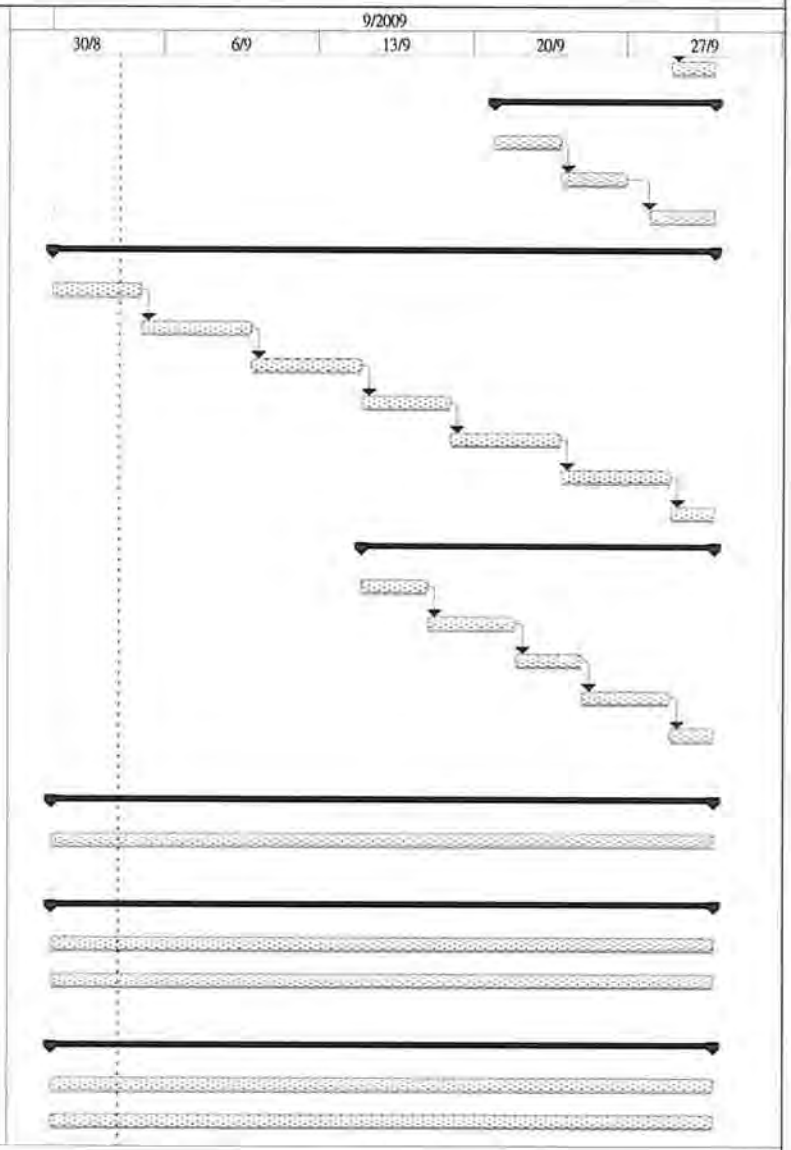
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Monthly Rolling Programme - September 2009

ID	Task Name	Duration	Start	Complete
94	Bay 2E (CH466.00 - CH460.00)	2 days	2009/9/29	0
95	**Laying gabion blocks**	**9 days**	**2009/9/21**	**0**
96	Bay 8E (CH401.00 - CH390.00)	3 days	2009/9/21	0
97	Bay 9E (CH390.00 - CH384.00)	3 days	2009/9/24	0
98	Bay 10E (CH384.00 - CH371.00)	3 days	2009/9/28	0
99	**Construction of catchpit / manhole / drain pipe**	**26 days**	**2009/9/1**	**0**
100	Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/1	0
101	Bay 17E-1 (CH299.00 - CH292.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/5	0
102	Bay 17E-2 (CH292.00 - CH285.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/10	0
103	Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/15	0
104	Bay 17E-1 (CH299.00 - CH292.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/19	0
105	Bay 17E-2 (CH292.00 - CH285.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	4 days	2009/9/24	0
106	Bay 20E (CH267.00 - CH255.00)	2 days	2009/9/29	0
107	**Installation of Type 2 railing on top of channel walls**	**14 days**	**2009/9/15**	**0**
108	Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	3 days	2009/9/15	0
109	Bay 17E-1 (CH299.00 - CH292.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	3 days	2009/9/18	0
110	Bay 17E-2 (CH292.00 - CH285.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	3 days	2009/9/22	0
111	Bay 18E (CH285.00 - CH279.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	3 days	2009/9/25	0
112	Bay 19E (CH279.00 - CH267.00)	2 days	2009/9/29	0
113				
114	**Section V**	**26 days**	**2009/9/1**	**0**
115	Preservation and protection of tree for Section I, II, III and IV	26 days	2009/9/1	0
116				
117	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**26 days**	**2009/9/1**	**0**
118	Structural Survey and Monitoring	26 days	2009/9/1	0
119	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/9/1	0
120				
121	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**26 days**	**2009/9/1**	**0**
122	Structural Survey and Monitoring	26 days	2009/9/1	0
123	Construction of Manhole, Timber Box and Trench Excavation	26 days	2009/9/1	0



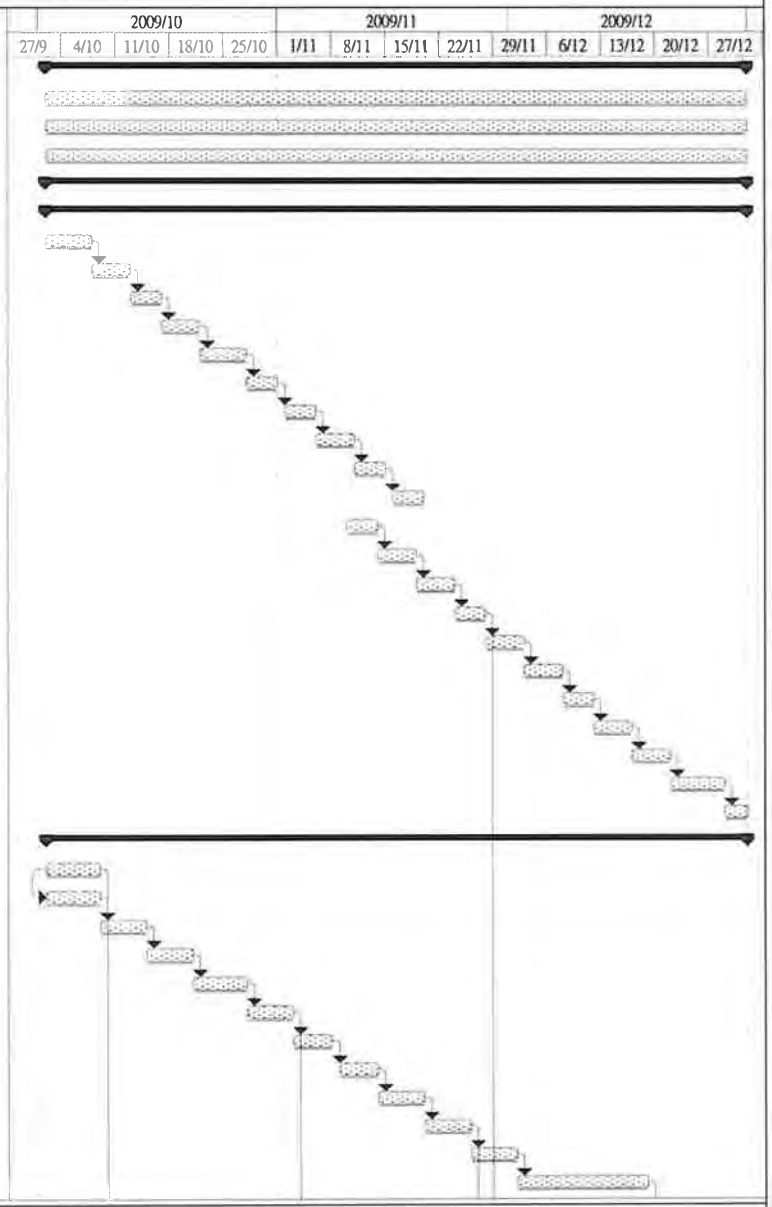
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - October 2009 to December 2009

ID	Task Name	Duration	Start	Complete
1	**Section II (Channel KT13)**	**74 days**	**2009/10/2**	**0**
2	**Regular Environmental Impact Monitoring**	74 days	2009/10/2	0
3	**Regular Tree Survey & Protection**	74 days	2009/10/2	0
4	**Regular Structural Condition Survey**	74 days	2009/10/2	0
5	**Section A**	**74 days**	**2009/10/2**	**0**
6	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**74 days**	**2009/10/2**	**0**
7	Bay A28 (A CH295.00 - A CH308.00) - TG6 (W.B.)	4 days	2009/10/2	0
8	Bay A29 (A CH308.00 - A CH320.00) - TG6 (W.B.)	4 days	2009/10/8	0
9	Bay A30 (A CH320.00 - A CH332.00) - TG6 (W.B.)	4 days	2009/10/13	0
10	Bay A31 (A CH332.00 - A CH343.00) - TG6 (W.B.)	4 days	2009/10/17	0
11	Bay A32 (A CH343.00 - A CH355.00) - TG6 (W.B.)	4 days	2009/10/22	0
12	Bay A33 (A CH355.00 - A CH363.00) - TG6 (W.B.)	4 days	2009/10/28	0
13	Bay A34 (A CH363.00 - A CH380.00) - TG6 (W.B.)	4 days	2009/11/2	0
14	Bay A35 (A CH380.00 - A CH385.00) - TG6 (W.B.)	4 days	2009/11/6	0
15	Bay A36 (A CH385.00 - A CH392.00) - Transition	4 days	2009/11/11	0
16	Bay A37 (A CH392.00 - A CH402.00) - Transition	4 days	2009/11/16	0
17	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	4 days	2009/11/10	0
18	Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	4 days	2009/11/14	0
19	Bay A13 (A CH108.00 - A CH120.00) - TG2 (E.B.)	4 days	2009/11/19	0
20	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	4 days	2009/11/24	0
21	Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	4 days	2009/11/28	0
22	Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	4 days	2009/12/3	0
23	Bay A17 (A CH157.00 - A CH170.00) - TG2 (E.B.)	4 days	2009/12/8	0
24	Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.)	4 days	2009/12/12	0
25	Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	4 days	2009/12/17	0
26	Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.)	4 days	2009/12/22	0
27	Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	3 days	2009/12/29	0
28	**Construction of channel structure (RC2, Transition, and TG2)**	**74 days**	**2009/10/2**	**0**
29	Bay A1 (A CH00.00 - A CH09.00) - RC2	5 days	2009/10/2	0
30	Bay A26 (A CH271.00 - A CH283.00) - TG6 (W.B.)	5 days	2009/10/2	0
31	Bay A27 (A CH283.00 - A CH295.00) - TG6 (W.B.)	5 days	2009/10/9	0
32	Bay A28 (A CH295.00 - A CH308.00) - TG6 (W.B.)	5 days	2009/10/15	0
33	Bay A29 (A CH308.00 - A CH320.00) - TG6 (W.B.)	5 days	2009/10/21	0
34	Bay A30 (A CH320.00 - A CH332.00) - TG6 (W.B.)	5 days	2009/10/28	0
35	Bay A31 (A CH332.00 - A CH343.00) - TG6 (W.B.)	5 days	2009/11/3	0
36	Bay A32 (A CH343.00 - A CH355.00) - TG6 (W.B.)	5 days	2009/11/9	0
37	Bay A33 (A CH355.00 - A CH363.00) - TG6 (W.B.)	5 days	2009/11/14	0
38	Bay A34 (A CH363.00 - A CH380.00) - TG6 (W.B.)	5 days	2009/11/20	0
39	Bay A35 (A CH380.00 - A CH385.00) - TG6 (W.B.)	5 days	2009/11/26	0
40	Bay A36 (A CH385.00 - A CH392.00) - Transition	15 days	2009/12/2	0



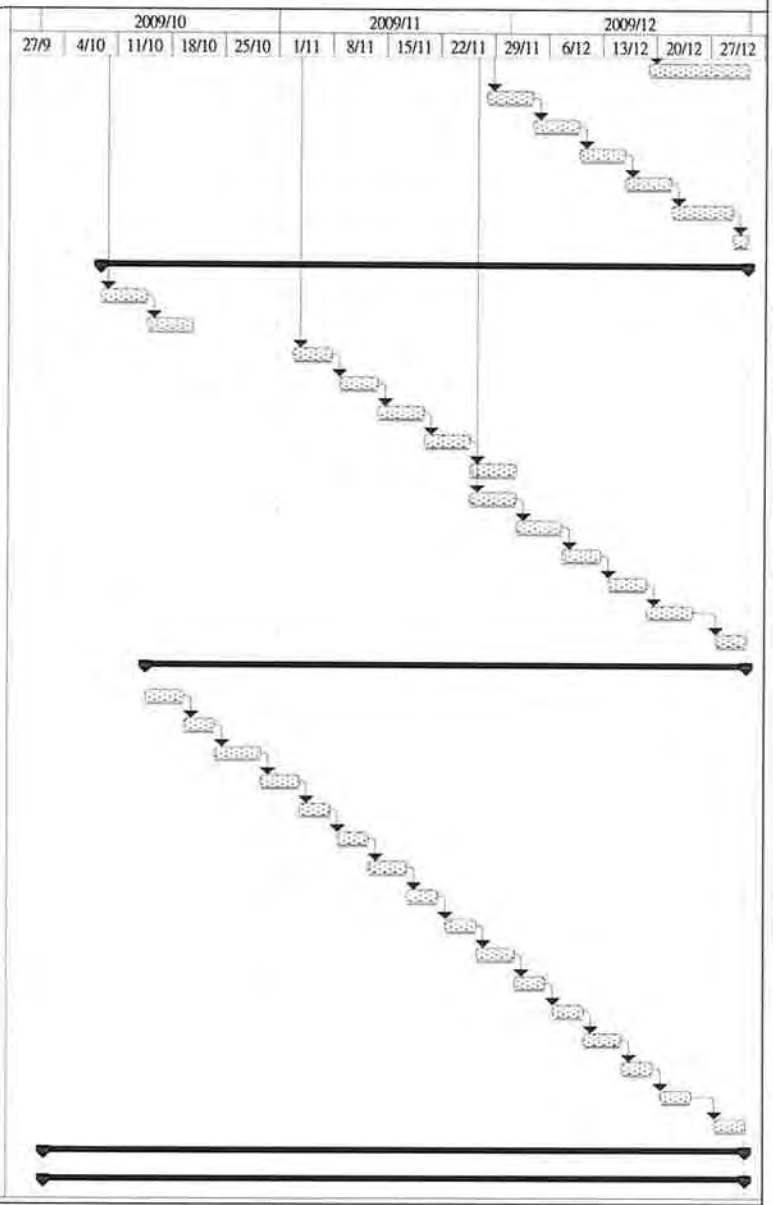
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - October 2009 to December 2009

ID	Task Name	Duration	Start	Complete
41	Bay A37 (A CH392.00 - A CH402.00) - Transition	9 days	2009/12/19	0
42	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	5 days	2009/11/28	0
43	Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	5 days	2009/12/4	0
44	Bay A13 (A CH108.00 - A CH120.00) - TG2 (E.B.)	5 days	2009/12/10	0
45	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	5 days	2009/12/16	0
46	Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	5 days	2009/12/22	0
47	Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	2 days	2009/12/30	0
48	**Backfilling along the channel sides / laying underground drain pipe**	**69 days**	**2009/10/9**	**0**
49	Bay A19 (A CH180.00 - A CH191.00) - TG2	5 days	2009/10/9	0
50	Bay A1 (A CH00.00 - A CH09.00) - RC2	5 days	2009/10/15	0
51	Bay A26 (A CH271.00 - A CH283.00) - TG6 (W.B.)	5 days	2009/11/3	0
52	Bay A27 (A CH283.00 - A CH295.00) - TG6 (W.B.)	5 days	2009/11/9	0
53	Bay A28 (A CH295.00 - A CH308.00) - TG6 (W.B.)	5 days	2009/11/14	0
54	Bay A29 (A CH308.00 - A CH320.00) - TG6 (W.B.)	5 days	2009/11/20	0
55	Bay A30 (A CH320.00 - A CH332.00) - TG6 (W.B.)	5 days	2009/11/26	0
56	Bay A31 (A CH332.00 - A CH343.00) - TG6 (W.B.)	5 days	2009/11/26	0
57	Bay A32 (A CH343.00 - A CH355.00) - TG6 (W.B.)	5 days	2009/12/2	0
58	Bay A33 (A CH355.00 - A CH363.00) - TG6 (W.B.)	5 days	2009/12/8	0
59	Bay A34 (A CH363.00 - A CH380.00) - TG6 (W.B.)	5 days	2009/12/14	0
60	Bay A35 (A CH380.00 - A CH385.00) - TG6 (W.B.)	5 days	2009/12/19	0
61	Bay A36 (A CH385.00 - A CH392.00) - Transition	4 days	2009/12/28	0
62	**Installation of Type 2 railing**	**64 days**	**2009/10/15**	**0**
63	Bay A3 (A CH18.00 - A CH26.00) - RC2	4 days	2009/10/15	0
64	Bay A4 (A CH26.00 - A CH34.00) - Transition	4 days	2009/10/20	0
65	Bay A5 (A CH34.00 - A CH41.00) - Transition	4 days	2009/10/24	0
66	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	4 days	2009/10/30	0
67	Bay A7 (A CH44.00 - A CH51.00) - Transition	4 days	2009/11/4	0
68	Bay A8 (A CH51.00 - A CH59.00) - Transition	4 days	2009/11/9	0
69	Bay A9 (A CH59.00 - A CH71.00) - TG2 (W.B.)	4 days	2009/11/13	0
70	Bay A10 (A CH71.00 - A CH83.00) - TG2 (W.B.)	4 days	2009/11/18	0
71	Bay A11 (A CH83.00 - A CH95.00) - TG2 (W.B.)	4 days	2009/11/23	0
72	Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.)	4 days	2009/11/27	0
73	Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.)	4 days	2009/12/2	0
74	Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.)	4 days	2009/12/7	0
75	Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.)	4 days	2009/12/11	0
76	Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.)	4 days	2009/12/16	0
77	Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.)	4 days	2009/12/21	0
78	Bay A18 (A CH170.00 - A CH180.00) - TG2 (W.B.)	4 days	2009/12/28	0
79	**Section of Box Culvert BC13-1**	**74 days**	**2009/10/2**	**0**
80	**Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)**	**74 days**	**2009/10/2**	**0**



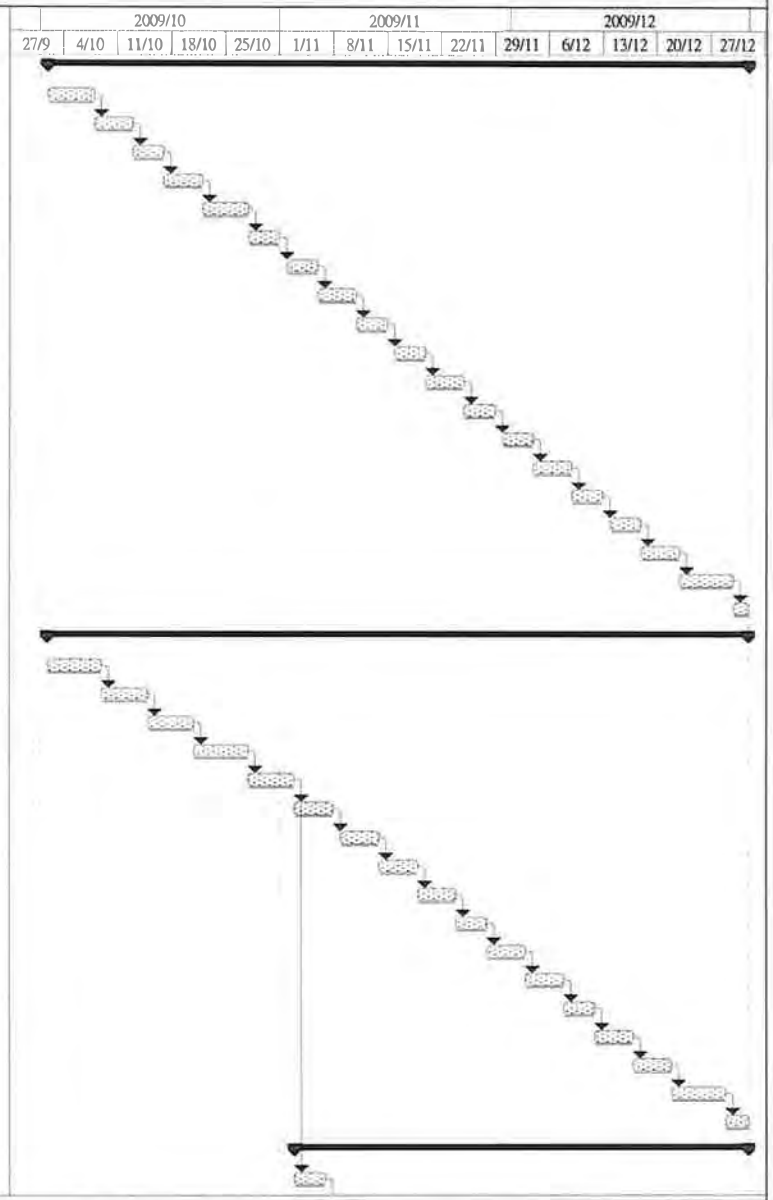
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

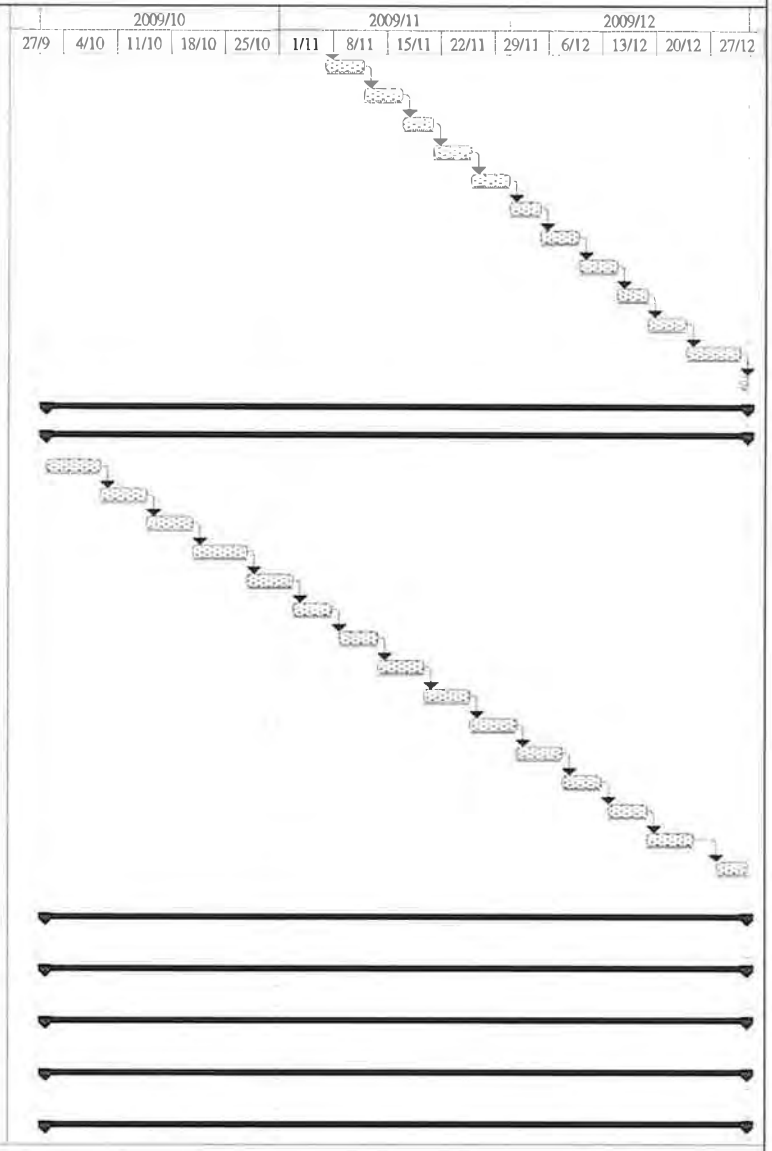
Three Months Rolling Programme - October 2009 to December 2009

ID	Task Name	Duration	Start	Complete
81	**Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)**	**74 days**	**2009/10/2**	**0**
82	Bay BC20 (BC CH247.00 - BC CH262.00)	4 days	2009/10/2	0
83	Bay BC21 (BC CH262.00 - BC CH276.00)	4 days	2009/10/8	0
84	Bay BC22 (BC CH276.00 - BC CH291.00)	4 days	2009/10/13	0
85	Bay BC23 (BC CH291.00 - BC CH305.00)	4 days	2009/10/17	0
86	Bay BC24 (BC CH305.00 - BC CH320.00)	4 days	2009/10/22	0
87	Bay BC25 (BC CH320.00 - BC CH334.00)	4 days	2009/10/28	0
88	Bay BC26 (BC CH334.00 - BC CH349.00)	4 days	2009/11/2	0
89	Bay BC27 (BC CH349.00 - BC CH363.00)	4 days	2009/11/6	0
90	Bay BC28 (BC CH363.00 - BC CH372.00)	4 days	2009/11/11	0
91	Bay BC29 (BC CH372.00 - BC CH379.00)	4 days	2009/11/16	0
92	Bay BC30 (BC CH379.00 - BC CH386.00)	4 days	2009/11/20	0
93	Bay BC16 (BC CH187.00 - BC CH202.00)	4 days	2009/11/25	0
94	Bay BC15 (BC CH173.00 - BC CH187.00)	4 days	2009/11/30	0
95	Bay BC14 (BC CH158.00 - BC CH173.00)	4 days	2009/12/4	0
96	Bay BC13 (BC CH143.00 - BC CH158.00)	4 days	2009/12/9	0
97	Bay BC12 (BC CH128.00 - BC CH143.00)	4 days	2009/12/14	0
98	Bay BC11 (BC CH113.00 - BC CH128.00)	4 days	2009/12/18	0
99	Bay BC10 (BC CH101.00 - BC CH113.00)	4 days	2009/12/23	0
100	Bay BC9 (BC CH89.00 - BC CH101.00)	2 days	2009/12/30	0
101	**Construction of box culvert Type BC1**	**74 days**	**2009/10/2**	**0**
102	Bay BC17 (BC CH202.00 - BC CH217.00)	5 days	2009/10/2	0
103	Bay BC18 (BC CH217.00 - BC CH232.00)	5 days	2009/10/9	0
104	Bay BC19 (BC CH232.00 - BC CH247.00)	5 days	2009/10/15	0
105	Bay BC20 (BC CH247.00 - BC CH262.00)	5 days	2009/10/21	0
106	Bay BC21 (BC CH262.00 - BC CH276.00)	5 days	2009/10/28	0
107	Bay BC22 (BC CH276.00 - BC CH291.00)	5 days	2009/11/3	0
108	Bay BC23 (BC CH291.00 - BC CH305.00)	5 days	2009/11/9	0
109	Bay BC24 (BC CH305.00 - BC CH320.00)	4 days	2009/11/14	0
110	Bay BC25 (BC CH320.00 - BC CH334.00)	4 days	2009/11/19	0
111	Bay BC26 (BC CH334.00 - BC CH349.00)	4 days	2009/11/24	0
112	Bay BC27 (BC CH349.00 - BC CH363.00)	4 days	2009/11/28	0
113	Bay BC28 (BC CH363.00 - BC CH372.00)	4 days	2009/12/3	0
114	Bay BC29 (BC CH372.00 - BC CH379.00)	4 days	2009/12/8	0
115	Bay BC30 (BC CH379.00 - BC CH386.00)	4 days	2009/12/12	0
116	Bay BC16 (BC CH187.00 - BC CH202.00)	4 days	2009/12/17	0
117	Bay BC15 (BC CH173.00 - BC CH187.00)	4 days	2009/12/22	0
118	Bay BC14 (BC CH158.00 - BC CH173.00)	3 days	2009/12/29	0
119	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**49 days**	**2009/11/3**	**0**
120	Bay BC17 (BC CH202.00 - BC CH217.00)	4 days	2009/11/3	0



Task Split Progress Milestone Summary

ID	Task Name	Duration	Start	Complete
121	Bay BC18 (BC CH217.00 - BC CH232.00)	4 days	2009/11/7	0
122	Bay BC19 (BC CH232.00 - BC CH247.00)	4 days	2009/11/12	0
123	Bay BC20 (BC CH247.00 - BC CH262.00)	4 days	2009/11/17	0
124	Bay BC21 (BC CH262.00 - BC CH276.00)	4 days	2009/11/21	0
125	Bay BC22 (BC CH276.00 - BC CH291.00)	4 days	2009/11/26	0
126	Bay BC23 (BC CH291.00 - BC CH305.00)	4 days	2009/12/1	0
127	Bay BC24 (BC CH305.00 - BC CH320.00)	4 days	2009/12/5	0
128	Bay BC25 (BC CH320.00 - BC CH334.00)	4 days	2009/12/10	0
129	Bay BC26 (BC CH334.00 - BC CH349.00)	4 days	2009/12/15	0
130	Bay BC27 (BC CH349.00 - BC CH363.00)	4 days	2009/12/19	0
131	Bay BC28 (BC CH363.00 - BC CH372.00)	4 days	2009/12/24	0
132	Bay BC29 (BC CH372.00 - BC CH379.00)	1 day	2009/12/31	0
133	**Section B**	**74 days**	**2009/10/2**	**0**
134	**Laying gabion block / granite block inside the channel**	**74 days**	**2009/10/2**	**0**
135	Bay B28 (B CH282.00 - B CH294.00) - TG4	5 days	2009/10/2	0
136	Bay B27 (B CH270.00 - B CH282.00) - TG4	5 days	2009/10/9	0
137	Bay B26 (B CH260.00 - B CH270.00) - TG4	5 days	2009/10/15	0
138	Bay B25 (B CH248.00 - B CH260.00) - TG5	5 days	2009/10/21	0
139	Bay B24 (B CH236.00 - B CH248.00) - TG5	5 days	2009/10/28	0
140	Bay B23 (B CH224.00 - B CH236.00) - TG5	5 days	2009/11/3	0
141	Bay B22 (B CH212.00 - B CH224.00) - TG5	5 days	2009/11/9	0
142	Bay B21 (B CH200.00 - B CH212.00) - TG8	5 days	2009/11/14	0
143	Bay B19 (B CH174.00 - B CH188.00) - TG8	5 days	2009/11/20	0
144	Bay B18 (B CH162.00 - B CH174.00) - TG8	5 days	2009/11/26	0
145	Bay B12 (B CH119.00 - B CH129.00) - TG3	5 days	2009/12/2	0
146	Bay B11 (B CH107.00 - B CH119.00) - TG3	5 days	2009/12/8	0
147	Bay B10 (B CH94.00 - B CH107.00) - TG3	5 days	2009/12/14	0
148	Bay B9 (B CH80.00 - B CH94.00) - TG3	5 days	2009/12/19	0
149	Bay B8 (B CH68.00 - B CH80.00) - TG3	4 days	2009/12/28	0
150				
151	**Section III (Channel KT14A - Tin Sam Tsuen)**	**74 days**	**2009/10/2**	**0**
154				
155	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**74 days**	**2009/10/2**	**0**
263				
264	**Section V**	**74 days**	**2009/10/2**	**0**
266				
267	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**74 days**	**2009/10/2**	**0**
270				
271	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**74 days**	**2009/10/2**	**0**



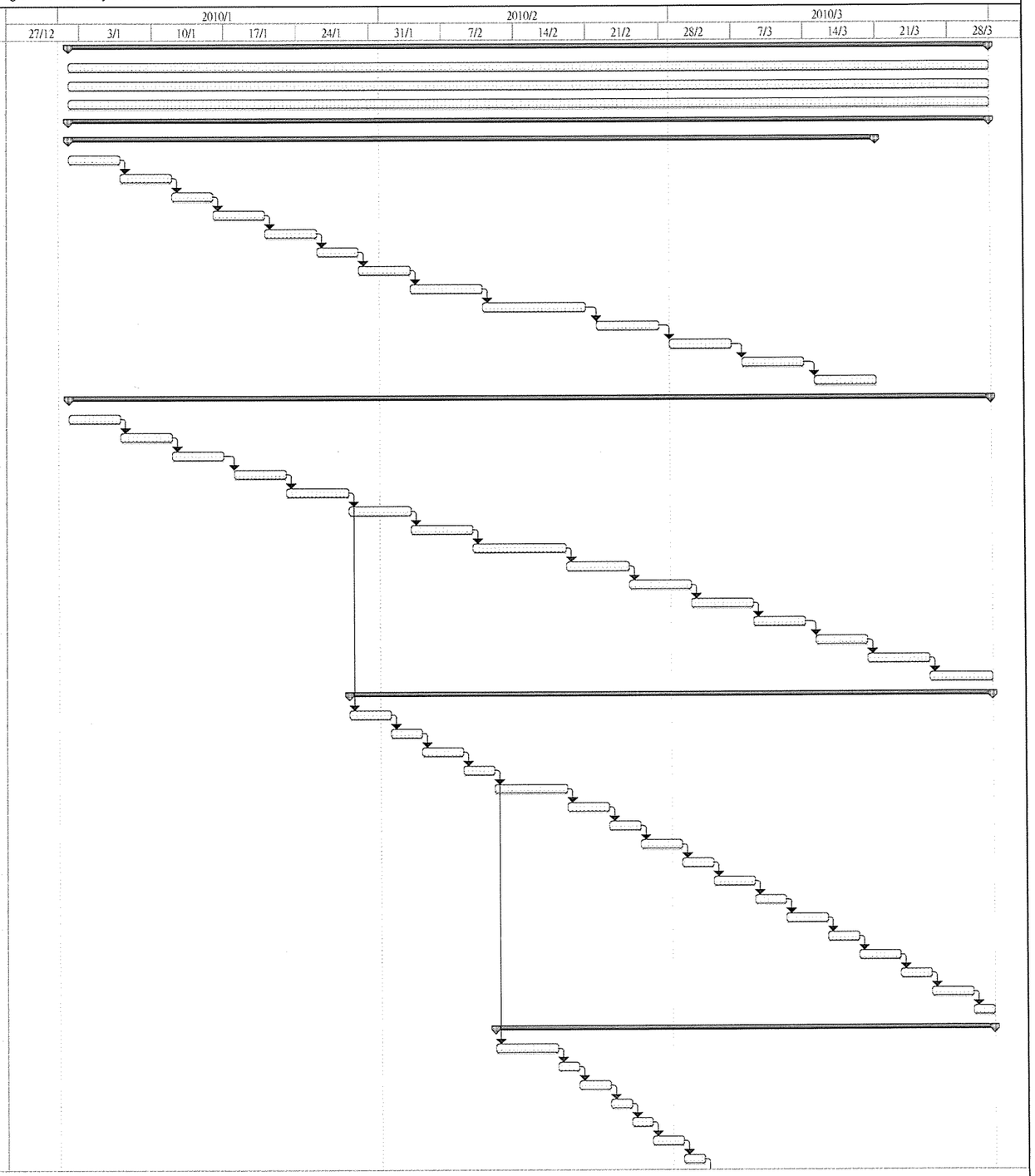
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - January 2010 to March 2010

ID	Task Name	Duration	Start	Complete
1	**Section II (Channel KT13)**	**73 days**	**2010/1/2**	**2010/3/31**
2	**Regular Environmental Impact Monitoring**	73 days	2010/1/2	2010/3/31
3	**Regular Tree Survey & Protection**	73 days	2010/1/2	2010/3/31
4	**Regular Structural Condition Survey**	73 days	2010/1/2	2010/3/31
5	**Section A**	**73 days**	**2010/1/2**	**2010/3/31**
6	**Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)**	**64 days**	**2010/1/2**	**2010/3/20**
7	Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	4 days	2010/1/2	2010/1/6
8	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	4 days	2010/1/7	2010/1/11
9	Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	4 days	2010/1/12	2010/1/15
10	Bay A28 (A CH295.00 - A CH308.00) - TG6 (E.B.)	4 days	2010/1/16	2010/1/20
11	Bay A29 (A CH308.00 - A CH320.00) - TG6 (E.B.)	4 days	2010/1/21	2010/1/25
12	Bay A30 (A CH320.00 - A CH332.00) - TG6 (E.B.)	4 days	2010/1/26	2010/1/29
13	Bay A31 (A CH332.00 - A CH343.00) - TG6 (E.B.)	4 days	2010/1/30	2010/2/3
14	Bay A32 (A CH343.00 - A CH355.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/4	2010/2/10
15	Bay A33 (A CH355.00 - A CH363.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/11	2010/2/20
16	Bay A34 (A CH363.00 - A CH380.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/22	2010/2/27
17	Bay A35 (A CH380.00 - A CH385.00) - TG6 (E.B.) & (W.B)	6 days	2010/3/1	2010/3/6
18	Bay A36 (A CH385.00 - A CH392.00) - Transition	6 days	2010/3/8	2010/3/13
19	Bay A37 (A CH392.00 - A CH402.00) - Transition	6 days	2010/3/15	2010/3/20
20	**Construction of channel structure (RC2, Transition, and TG2)**	**73 days**	**2010/1/2**	**2010/3/31**
21	Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	4 days	2010/1/2	2010/1/6
22	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	4 days	2010/1/7	2010/1/11
23	Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	5 days	2010/1/12	2010/1/16
24	Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	5 days	2010/1/18	2010/1/22
25	Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	5 days	2010/1/23	2010/1/28
26	Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	5 days	2010/1/29	2010/2/3
27	Bay A25 (A CH258.00 - A CH271.00) - TG2 (E.B.)	5 days	2010/2/4	2010/2/9
28	Bay A26 (A CH271.00 - A CH283.00) - TG6 (E.B.)	5 days	2010/2/10	2010/2/18
29	Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	5 days	2010/2/19	2010/2/24
30	Bay A28 (A CH295.00 - A CH308.00) - TG6 (E.B.)	5 days	2010/2/25	2010/3/2
31	Bay A29 (A CH308.00 - A CH320.00) - TG6 (E.B.)	5 days	2010/3/3	2010/3/8
32	Bay A30 (A CH320.00 - A CH332.00) - TG6 (E.B.)	5 days	2010/3/9	2010/3/13
33	Bay A31 (A CH332.00 - A CH343.00) - TG6 (E.B.)	5 days	2010/3/15	2010/3/19
34	Bay A32 (A CH343.00 - A CH355.00) - TG6 (E.B.) & (W.B)	5 days	2010/3/20	2010/3/25
35	Bay A33 (A CH355.00 - A CH363.00) - TG6 (E.B.) & (W.B)	5 days	2010/3/26	2010/3/31
36	**Backfilling along the channel sides / laying underground drain pipe**	**50 days**	**2010/1/29**	**2010/3/31**
37	Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	3 days	2010/1/29	2010/2/1
38	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	3 days	2010/2/2	2010/2/4
39	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	3 days	2010/2/5	2010/2/8
40	Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	3 days	2010/2/9	2010/2/11
41	Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	3 days	2010/2/12	2010/2/18
42	Bay A17 (A CH157.00 - A CH170.00) - TG2 (E.B.)	3 days	2010/2/19	2010/2/22
43	Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.)	3 days	2010/2/23	2010/2/25
44	Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	3 days	2010/2/26	2010/3/1
45	Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.)	3 days	2010/3/2	2010/3/4
46	Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	3 days	2010/3/5	2010/3/8
47	Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	3 days	2010/3/9	2010/3/11
48	Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	3 days	2010/3/12	2010/3/15
49	Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	3 days	2010/3/16	2010/3/18
50	Bay A25 (A CH258.00 - A CH271.00) - TG2 (E.B.)	3 days	2010/3/19	2010/3/22
51	Bay A26 (A CH271.00 - A CH283.00) - TG6 (E.B.)	3 days	2010/3/23	2010/3/25
52	Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	3 days	2010/3/26	2010/3/29
53	Bay A28 (A CH295.00 - A CH308.00) - TG6 (E.B.)	2 days	2010/3/30	2010/3/31
54	**Installation of Type 2 railing**	**38 days**	**2010/2/12**	**2010/3/31**
55	Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	2 days	2010/2/12	2010/2/17
56	Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	2 days	2010/2/18	2010/2/19
57	Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	2 days	2010/2/20	2010/2/22
58	Bay A13 (A CH108.00 - A CH120.00) - TG2 (E.B.)	2 days	2010/2/23	2010/2/24
59	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	2 days	2010/2/25	2010/2/26
60	Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	2 days	2010/2/27	2010/3/1
61	Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	2 days	2010/3/2	2010/3/3



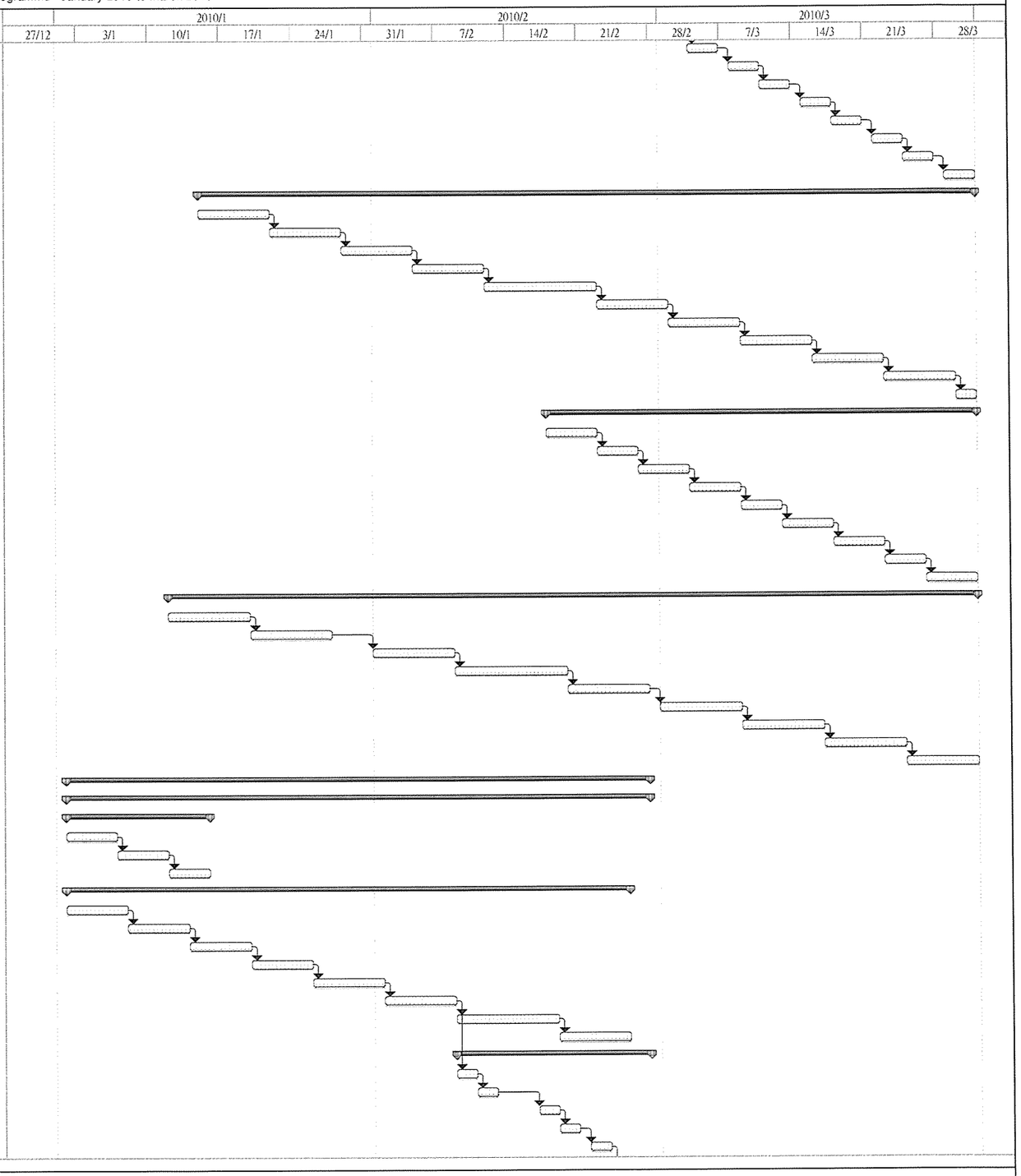
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

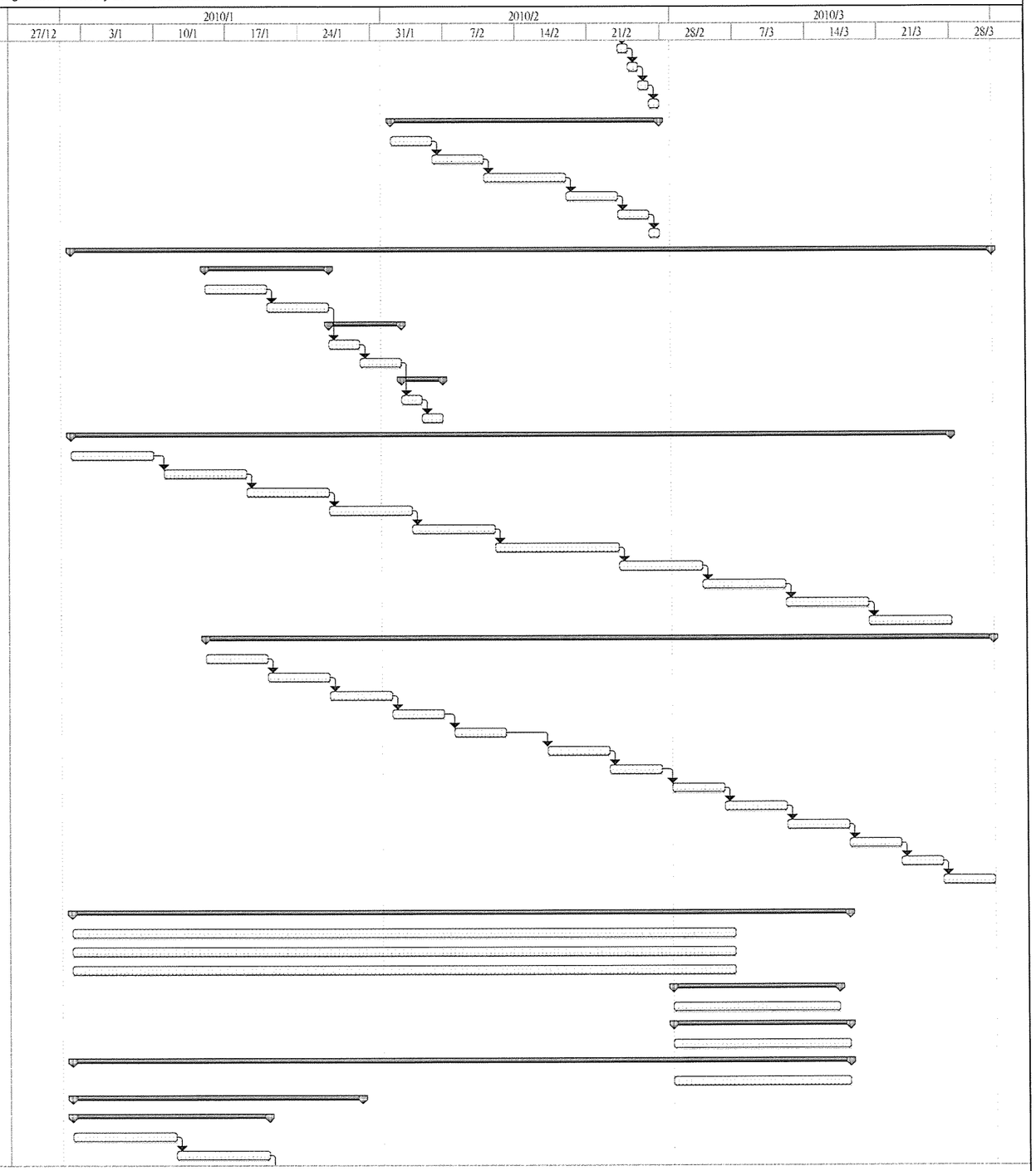
Three Months Rolling Programme - January 2010 to March 2010

ID	Task Name	Duration	Start	Complete
62	Bay A17 (A CH157.00 - A CH170.00) - TG2 (E.B.)	3 days	2010/3/4	2010/3/6
63	Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.)	3 days	2010/3/8	2010/3/10
64	Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	3 days	2010/3/11	2010/3/13
65	Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.)	3 days	2010/3/15	2010/3/17
66	Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	3 days	2010/3/18	2010/3/20
67	Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	3 days	2010/3/22	2010/3/24
68	Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	3 days	2010/3/25	2010/3/27
69	Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	3 days	2010/3/29	2010/3/31
70	**Laying gabion block / granite block inside the channel**	**62 days**	**2010/1/15**	**2010/3/31**
71	Bay A1 (A CH00.00 - A CH09.00) - RC2	6 days	2010/1/15	2010/1/21
72	Bay A2 (A CH09.00 - A CH18.00) - RC2	6 days	2010/1/22	2010/1/28
73	Bay A9 (A CH59.00 - A CH71.00) - TG2 (W.B.)	6 days	2010/1/29	2010/2/4
74	Bay A10 (A CH71.00 - A CH83.00) - TG2 (W.B.)	6 days	2010/2/5	2010/2/11
75	Bay A11 (A CH83.00 - A CH95.00) - TG2 (W.B.)	6 days	2010/2/12	2010/2/22
76	Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.)	6 days	2010/2/23	2010/3/1
77	Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.)	6 days	2010/3/2	2010/3/8
78	Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.)	6 days	2010/3/9	2010/3/15
79	Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.)	6 days	2010/3/16	2010/3/22
80	Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.)	6 days	2010/3/23	2010/3/29
81	Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.)	2 days	2010/3/30	2010/3/31
82	**Construction of catchpit / manhole / drain pipe along the channel sides**	**36 days**	**2010/2/18**	**2010/3/31**
83	Bay A3 (A CH18.00 - A CH26.00) - RC2	4 days	2010/2/18	2010/2/22
84	Bay A4 (A CH26.00 - A CH34.00) - Transition	4 days	2010/2/23	2010/2/26
85	Bay A5 (A CH34.00 - A CH41.00) - Transition	4 days	2010/2/27	2010/3/3
86	Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing	4 days	2010/3/4	2010/3/8
87	Bay A7 (A CH44.00 - A CH51.00) - Transition	4 days	2010/3/9	2010/3/12
88	Bay A8 (A CH51.00 - A CH59.00) - Transition	4 days	2010/3/13	2010/3/17
89	Bay A9 (A CH59.00 - A CH71.00) - TG2	4 days	2010/3/18	2010/3/22
90	Bay A10 (A CH71.00 - A CH83.00) - TG2	4 days	2010/3/23	2010/3/26
91	Bay A11 (A CH83.00 - A CH95.00) - TG2	4 days	2010/3/27	2010/3/31
92	**Construction retaining wall KT13-1 at A CH269.00 - A CH385.00 West bank**	**65 days**	**2010/1/12**	**2010/3/31**
93	Bay RT1 (A CH271.00 - A CH283.00)	7 days	2010/1/12	2010/1/19
94	Bay RT2 (A CH283.00 - A CH295.00)	7 days	2010/1/20	2010/1/27
95	Bay RT3 (A CH295.00 - A CH308.00)	7 days	2010/2/1	2010/2/8
96	Bay RT4 (A CH308.00 - A CH320.00)	7 days	2010/2/9	2010/2/19
97	Bay RT5 (A CH320.00 - A CH332.00)	7 days	2010/2/20	2010/2/27
98	Bay RT6 (A CH332.00 - A CH344.00)	7 days	2010/3/1	2010/3/8
99	Bay RT7 (A CH344.00 - A CH353.00)	7 days	2010/3/9	2010/3/16
100	Bay RT8 (A CH353.00 - A CH363.00)	7 days	2010/3/17	2010/3/24
101	Bay RT9 (A CH363.00 - A CH380.00)	6 days	2010/3/25	2010/3/31
102	**Section of Box Culvert BC13-1**	**46 days**	**2010/1/2**	**2010/2/27**
103	**Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)**	**46 days**	**2010/1/2**	**2010/2/27**
104	**Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)**	**12 days**	**2010/1/2**	**2010/1/15**
105	Bay BC15 (BC CH173.00 - BC CH187.00)	4 days	2010/1/2	2010/1/6
106	Bay BC14 (BC CH158.00 - BC CH173.00)	4 days	2010/1/7	2010/1/11
107	Bay BC13 (BC CH143.00 - BC CH158.00)	4 days	2010/1/12	2010/1/15
108	**Construction of box culvert Type BC1**	**44 days**	**2010/1/2**	**2010/2/25**
109	Bay BC18 (BC CH216.00 - BC CH231.00)	5 days	2010/1/2	2010/1/7
110	Bay BC17 (BC CH201.00 - BC CH216.00)	5 days	2010/1/8	2010/1/13
111	Bay BC25 (BC CH320.00 - BC CH334.00)	5 days	2010/1/14	2010/1/19
112	Bay BC24 (BC CH305.00 - BC CH320.00)	5 days	2010/1/20	2010/1/25
113	Bay BC16 (BC CH187.00 - BC CH201.00)	6 days	2010/1/26	2010/2/1
114	Bay BC15 (BC CH173.00 - BC CH187.00)	6 days	2010/2/2	2010/2/8
115	Bay BC14 (BC CH158.00 - BC CH173.00)	6 days	2010/2/9	2010/2/18
116	Bay BC13 (BC CH143.00 - BC CH158.00)	6 days	2010/2/19	2010/2/25
117	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**14 days**	**2010/2/9**	**2010/2/27**
118	Bay BC19 (BC CH231.00 - BC CH246.00)	2 days	2010/2/9	2010/2/10
119	Bay BC18 (BC CH216.00 - BC CH231.00)	2 days	2010/2/11	2010/2/12
120	Bay BC17 (BC CH201.00 - BC CH216.00)	2 days	2010/2/17	2010/2/18
121	Bay BC25 (BC CH320.00 - BC CH334.00)	2 days	2010/2/19	2010/2/20
122	Bay BC24 (BC CH305.00 - BC CH320.00)	2 days	2010/2/22	2010/2/23



Task Split Progress Milestone Summary

ID	Task Name	Duration	Start	Complete
123	Bay BC16 (BC CH187.00 - BC CH201.00)	1 day	2010/2/24	2010/2/24
124	Bay BC15 (BC CH173.00 - BC CH187.00)	1 day	2010/2/25	2010/2/25
125	Bay BC14 (BC CH158.00 - BC CH173.00)	1 day	2010/2/26	2010/2/26
126	Bay BC13 (BC CH143.00 - BC CH158.00)	1 day	2010/2/27	2010/2/27
127	**Construction of catchpit / manhole / drain pipe along channel sides**	**20 days**	**2010/2/2**	**2010/2/27**
128	Bay BC29 (BC CH372.00 - BC CH386.00)	4 days	2010/2/2	2010/2/5
129	Bay BC28 (BC CH363.00 - BC CH372.00)	4 days	2010/2/6	2010/2/10
130	Bay BC27 (BC CH349.00 - BC CH363.00)	4 days	2010/2/11	2010/2/18
131	Bay BC26 (BC CH334.00 - BC CH349.00)	4 days	2010/2/19	2010/2/23
132	Bay BC23 (BC CH291.00 - BC CH305.00)	3 days	2010/2/24	2010/2/26
133	Bay BC22 (BC CH276.00 - BC CH291.00)	1 day	2010/2/27	2010/2/27
134	**Section B**	**73 days**	**2010/1/2**	**2010/3/31**
135	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**10 days**	**2010/1/15**	**2010/1/26**
136	Bay B2 (B CH07.00 - B CH14.00) - Transition	5 days	2010/1/15	2010/1/20
137	Bay B1 (B CH00.00 - B CH07.00) - Transition	5 days	2010/1/21	2010/1/26
138	**Backfilling along the sides of channel & laying of underground drain**	**6 days**	**2010/1/27**	**2010/2/2**
139	Bay B2 (B CH07.00 - B CH14.00) - Transition	3 days	2010/1/27	2010/1/29
140	Bay B1 (B CH00.00 - B CH07.00) - Transition	3 days	2010/1/30	2010/2/2
141	**Installation of Type 2 railing on top of channel wall**	**4 days**	**2010/2/3**	**2010/2/6**
142	Bay B2 (B CH07.00 - B CH14.00) - Transition	2 days	2010/2/3	2010/2/4
143	Bay B1 (B CH00.00 - B CH07.00) - Transition	2 days	2010/2/5	2010/2/6
144	**Laying gabion block / granite block inside the channel**	**70 days**	**2010/1/2**	**2010/3/27**
145	Bay B12 (B CH119.00 - B CH129.00) - TG3	7 days	2010/1/2	2010/1/9
146	Bay B11 (B CH107.00 - B CH119.00) - TG3	7 days	2010/1/11	2010/1/18
147	Bay B10 (B CH94.00 - B CH107.00) - TG3	7 days	2010/1/19	2010/1/26
148	Bay B9 (B CH80.00 - B CH94.00) - TG3	7 days	2010/1/27	2010/2/3
149	Bay B8 (B CH68.00 - B CH80.00) - TG3	7 days	2010/2/4	2010/2/11
150	Bay B7 (B CH57.00 - B CH68.00) - TG3	7 days	2010/2/12	2010/2/23
151	Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2010/2/24	2010/3/3
152	Bay B5 (B CH34.00 - B CH46.00) - TG3	7 days	2010/3/4	2010/3/11
153	Bay B4 (B CH24.00 - B CH34.00) - TG3	7 days	2010/3/12	2010/3/19
154	Bay B3 (B CH14.00 - B CH24.00) - TG3	7 days	2010/3/20	2010/3/27
155	**Construction of catchpit / manhole / drain pipe along channel sides**	**62 days**	**2010/1/15**	**2010/3/31**
156	Bay B30 (B CH302.00 - B CH312.00) - Transition	5 days	2010/1/15	2010/1/20
157	Bay B29 (B CH294.00 - B CH302.00) - Transition	5 days	2010/1/21	2010/1/26
158	Bay B28 (B CH282.00 - B CH294.00) - TG4	5 days	2010/1/27	2010/2/1
159	Bay B27 (B CH270.00 - B CH282.00) - TG4	5 days	2010/2/2	2010/2/6
160	Bay B26 (B CH260.00 - B CH270.00) - TG4	5 days	2010/2/8	2010/2/12
161	Bay B25 (B CH248.00 - B CH260.00) - TG5	5 days	2010/2/17	2010/2/22
162	Bay B24 (B CH236.00 - B CH248.00) - TG5	5 days	2010/2/23	2010/2/27
163	Bay B23 (B CH224.00 - B CH236.00) - TG5	5 days	2010/3/1	2010/3/5
164	Bay B22 (B CH212.00 - B CH224.00) - TG5	5 days	2010/3/6	2010/3/11
165	Bay B21 (B CH200.00 - B CH212.00) - TG8	5 days	2010/3/12	2010/3/17
166	Bay B20 (B CH188.00 - B CH200.00) - TG8	4 days	2010/3/18	2010/3/22
167	Bay B19 (B CH174.00 - B CH188.00) - TG8	4 days	2010/3/23	2010/3/26
168	Bay B18 (B CH162.00 - B CH174.00) - TG8	4 days	2010/3/27	2010/3/31
169				
170	**Section IV (Channel KT14B & 14C and Portion 8A & 8B)**	**61 days**	**2010/1/2**	**2010/3/17**
171	**Regular Environmental Impact Monitoring**	52 days	2010/1/2	2010/3/6
172	**Regular Tree Survey & Protection**	52 days	2010/1/2	2010/3/6
173	**Regular Structural Condition Survey**	52 days	2010/1/2	2010/3/6
174	**Portion 8B (CP1 to CP9) - Kam Sheung Road**	**14 days**	**2010/3/1**	**2010/3/16**
175	Planting of Shrubs and Compensatory Planting	14 days	2010/3/1	2010/3/16
176	**Channel 14B**	**15 days**	**2010/3/1**	**2010/3/17**
177	Compensatory Planting	15 days	2010/3/1	2010/3/17
178	**Channel KT14C**	**61 days**	**2010/1/2**	**2010/3/17**
179	Compensatory Planting	15 days	2010/3/1	2010/3/17
180	**Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)**	**24 days**	**2010/1/2**	**2010/1/29**
181	**Construction of channel structure (CH180.00 - CH475.00)**	**16 days**	**2010/1/2**	**2010/1/20**
182	Bay 6E (CH420.00 - CH408.00)	8 days	2010/1/2	2010/1/11
183	Bay 7E (CH408.00 - CH398.00)	8 days	2010/1/12	2010/1/20



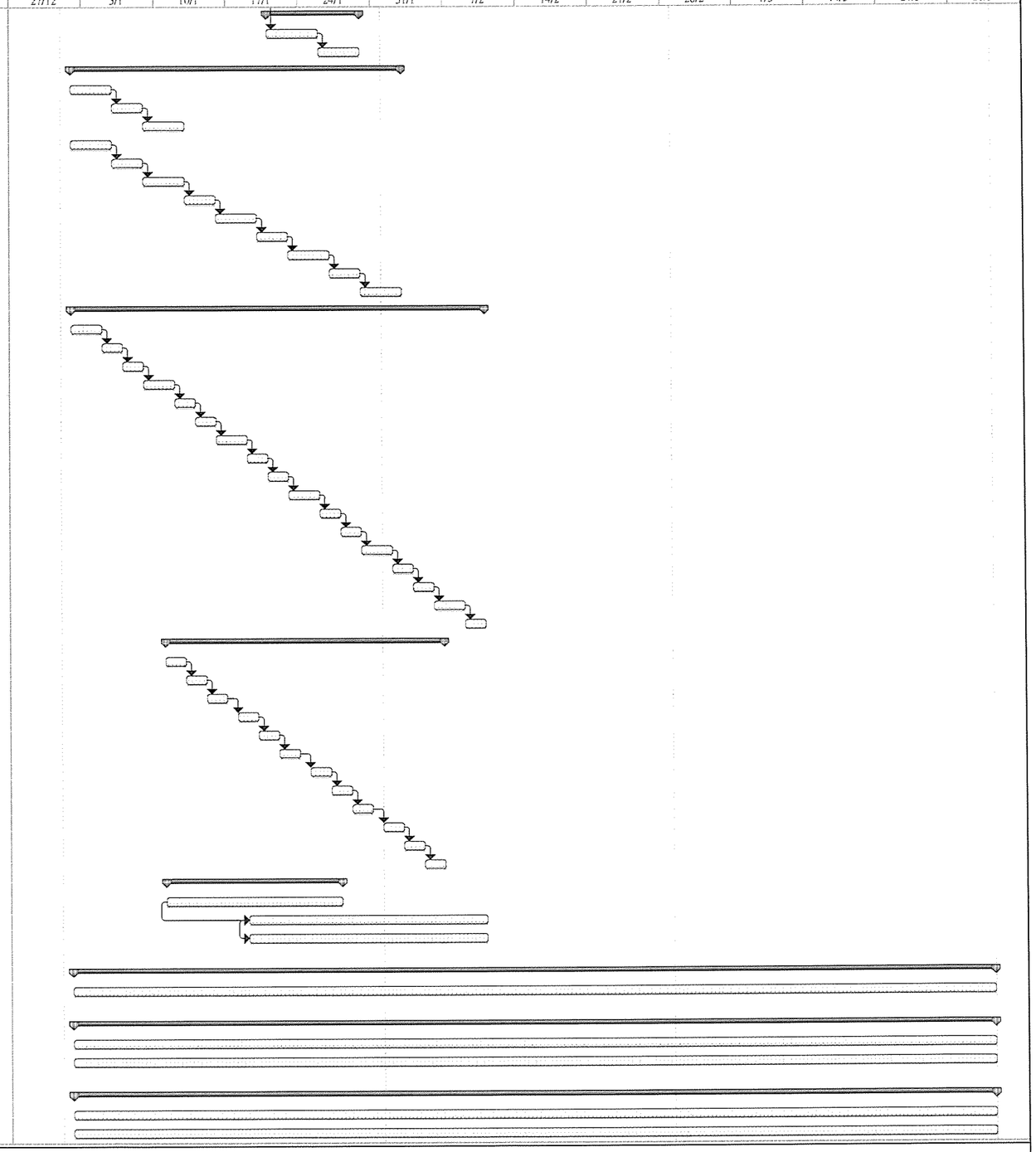
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - January 2010 to March 2010

ID	Task Name	Duration	Start	Complete
184	**Backfilling along the sides of the channel structure & laying underground drain pipe**	**8 days**	**2010/1/21**	**2010/1/29**
185	Bay 6E (CH420.00 - CH408.00)	4 days	2010/1/21	2010/1/25
186	Bay 7E (CH408.00 - CH398.00)	4 days	2010/1/26	2010/1/29
187	**Laying gabion blocks**	**27 days**	**2010/1/2**	**2010/2/2**
188	Bay 8E (CH398.00 - CH390.00)	3 days	2010/1/2	2010/1/5
189	Bay 9E (CH390.00 - CH384.00)	3 days	2010/1/6	2010/1/8
190	Bay 10E (CH384.00 - CH371.00)	3 days	2010/1/9	2010/1/12
191	Bay 11E (CH371.00 - CH359.00)	3 days	2010/1/2	2010/1/5
192	Bay 12E (CH359.00 - CH347.00)	3 days	2010/1/6	2010/1/8
193	Bay 13E (CH347.00 - CH336.00)	3 days	2010/1/9	2010/1/12
194	Bay 14E (CH336.00 - CH324.00)	3 days	2010/1/13	2010/1/15
195	Bay 15E-1 (CH324.00 - CH318.00)	3 days	2010/1/16	2010/1/19
196	Bay 15E-2 (CH318.00 - CH311.00)	3 days	2010/1/20	2010/1/22
197	Bay 2E (CH452.00 - CH446.00)	3 days	2010/1/23	2010/1/26
198	Bay 3E (CH446.00 - CH434.00)	3 days	2010/1/27	2010/1/29
199	Bay 4E (CH434.00 - CH426.00)	3 days	2010/1/30	2010/2/2
200	**Construction of catchpit / manhole / drain pipe**	**34 days**	**2010/1/2**	**2010/2/10**
201	Bay 15E-2 (CH318.00 - CH311.00)	2 days	2010/1/2	2010/1/4
202	Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days	2010/1/5	2010/1/6
203	Bay 20E (CH267.00 - CH255.00)	2 days	2010/1/7	2010/1/8
204	Bay 21E (CH255.00 - CH243.00)	2 days	2010/1/9	2010/1/11
205	Bay 22E (CH243.00 - CH235.00)	2 days	2010/1/12	2010/1/13
206	Bay 23E (CH235.00 - CH222.00)	2 days	2010/1/14	2010/1/15
207	Bay 24E (CH222.00 - CH210.00)	2 days	2010/1/16	2010/1/18
208	Bay 25E (CH210.00 - CH199.00)	2 days	2010/1/19	2010/1/20
209	Bay 26E (CH199.00 - CH187.00)	2 days	2010/1/21	2010/1/22
210	Bay 1E (CH466.00 - CH452.00)	2 days	2010/1/23	2010/1/25
211	Bay 2E (CH452.00 - CH446.00)	2 days	2010/1/26	2010/1/27
212	Bay 3E (CH446.00 - CH434.00)	2 days	2010/1/28	2010/1/29
213	Bay 4E (CH434.00 - CH426.00)	2 days	2010/1/30	2010/2/1
214	Bay 5E (CH426.00 - CH420.00)	2 days	2010/2/2	2010/2/3
215	Bay 8E (CH401.00 - CH390.00)	2 days	2010/2/4	2010/2/5
216	Bay 9E (CH390.00 - CH384.00)	2 days	2010/2/6	2010/2/8
217	Bay 10E (CH384.00 - CH371.00)	2 days	2010/2/9	2010/2/10
218	**Installation of Type 2 railing on top of channel walls**	**24 days**	**2010/1/11**	**2010/2/6**
219	Bay 20E (CH267.00 - CH255.00)	2 days	2010/1/11	2010/1/12
220	Bay 21E (CH255.00 - CH243.00)	2 days	2010/1/13	2010/1/14
221	Bay 22E (CH243.00 - CH235.00)	2 days	2010/1/15	2010/1/16
222	Bay 23E (CH235.00 - CH222.00)	2 days	2010/1/18	2010/1/19
223	Bay 24E (CH222.00 - CH210.00)	2 days	2010/1/20	2010/1/21
224	Bay 25E (CH210.00 - CH199.00)	2 days	2010/1/22	2010/1/23
225	Bay 26E (CH199.00 - CH187.00)	2 days	2010/1/25	2010/1/26
226	Bay 1E (CH466.00 - CH452.00)	2 days	2010/1/27	2010/1/28
227	Bay 2E (CH452.00 - CH446.00)	2 days	2010/1/29	2010/1/30
228	Bay 3E (CH446.00 - CH434.00)	2 days	2010/2/1	2010/2/2
229	Bay 4E (CH434.00 - CH426.00)	2 days	2010/2/3	2010/2/4
230	Bay 5E (CH426.00 - CH420.00)	2 days	2010/2/5	2010/2/6
231	**Construction of Ramp No. 2 at KT14C (CH200.00 - CH220.00) (West Bank)**	**15 days**	**2010/1/11**	**2010/1/27**
232	Bay 24 & Bay 25 (CH200.00 - CH220.00)	15 days	2010/1/11	2010/1/27
233	Construction of 3.5m access road at CH180.00 - CH270.00 (west bank)	20 days	2010/1/19	2010/2/10
234	Installation of traffic sign plate / Road marking / street furniture	20 days	2010/1/19	2010/2/10
235				
236	**Section V**	**73 days**	**2010/1/2**	**2010/3/31**
237	Preservation and protection of tree for Section I, II, III and IV	73 days	2010/1/2	2010/3/31
238				
239	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**73 days**	**2010/1/2**	**2010/3/31**
240	Structural Survey and Monitoring	73 days	2010/1/2	2010/3/31
241	Construction of Manhole, Timber Box and Trench Excavation	73 days	2010/1/2	2010/3/31
242				
243	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**73 days**	**2010/1/2**	**2010/3/31**
244	Structural Survey and Monitoring	73 days	2010/1/2	2010/3/31
245	Construction of Manhole, Timber Box and Trench Excavation	73 days	2010/1/2	2010/3/31

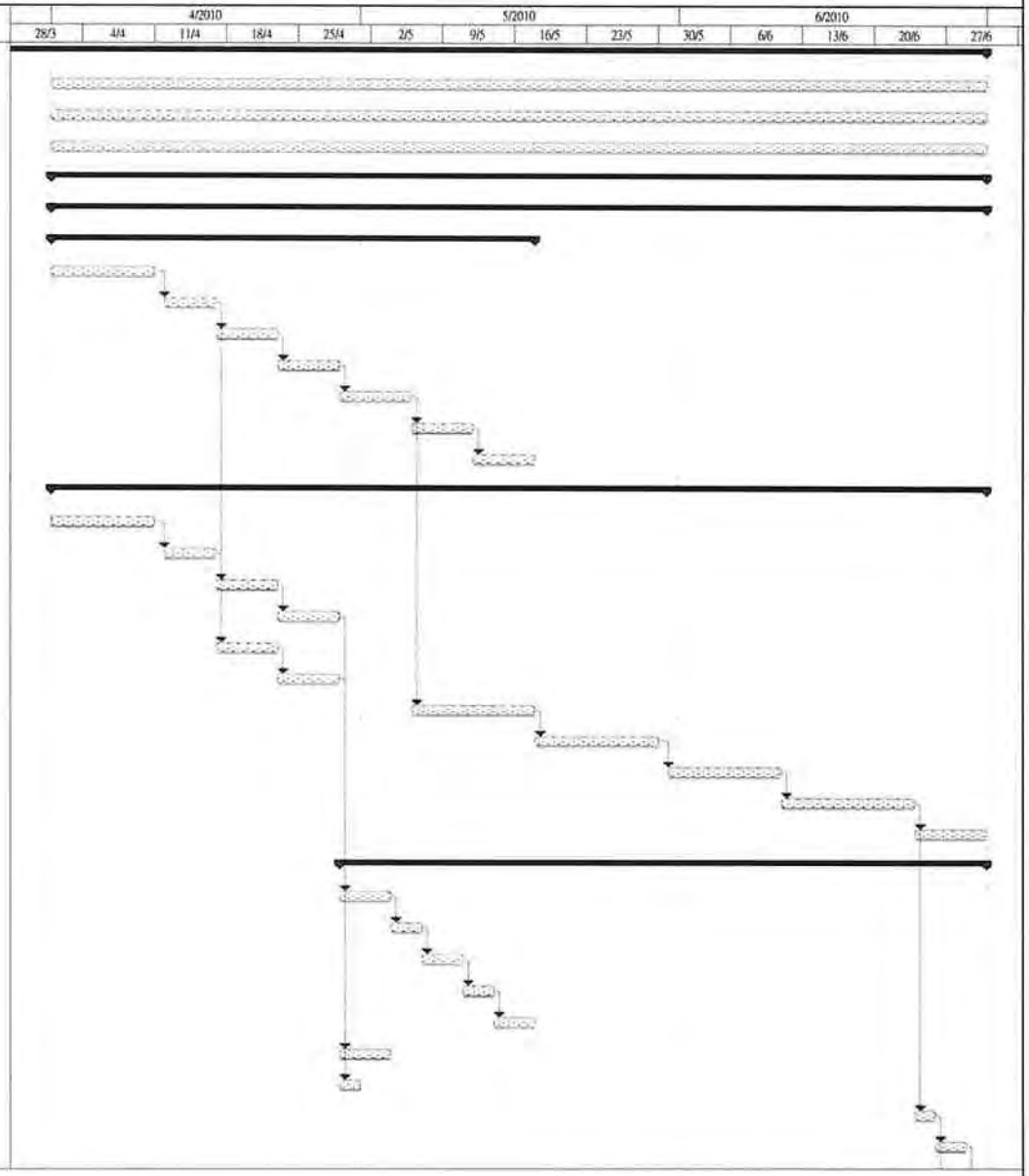


Task Split Progress Milestone Summary

Contract No. : DC/2007/17
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - April 2010 to June 2010

Item	Task Name	Duration	Start	Finish
1	Section II (Channel KT13)	98 days	2010/3/1	2010/6/30
2	Regular Environmental Impact Monitoring	71 days	2010/4/1	2010/6/30
3	Regular Tree Survey & Protection	71 days	2010/4/1	2010/6/30
4	Regular Structural Condition Survey	71 days	2010/4/1	2010/6/30
5	Section A	71 days	2010/4/1	2010/6/30
6	Construction of Retaining Wall and Channel (A CH0.00 - A CH402.00)	71 days	2010/4/1	2010/6/30
7	Excavation to retaining wall KT13-1 and channel formation & laying of rock fill material	35 days	2010/4/1	2010/5/17
8	Bay A25 (A CH244.23 - A CH257.09) - TG2 (EB)	5 days	2010/4/1	2010/4/10
9	Bay A26 (A CH257.09 - A CH269.95) - TG2 (EB)	5 days	2010/4/12	2010/4/16
10	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	5 days	2010/4/17	2010/4/22
11	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	5 days	2010/4/23	2010/4/28
12	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	5 days	2010/4/29	2010/5/5
13	Bay RT4 (A CH306.75 - A CH318.91) - Retaining Wall	5 days	2010/5/6	2010/5/11
14	Bay RT5 (A CH318.91 - A CH331.09) - Retaining Wall	5 days	2010/5/12	2010/5/17
15	Construction of channel structure (RC2, Transition, and TG2)	71 days	2010/4/1	2010/6/30
16	Bay A33 (A CH343.21 - A CH359.26) - Transition	5 days	2010/4/1	2010/4/10
17	Bay A34 (A CH359.26 - A CH374.28)	5 days	2010/4/12	2010/4/16
18	Bay A35 (A CH374.28 - A CH389.29)	5 days	2010/4/17	2010/4/22
19	Bay A36 (A CH389.29 - A CH400.18)	5 days	2010/4/23	2010/4/28
20	Bay A25 (A CH244.23 - A CH257.09) - TG2 (EB)	5 days	2010/4/17	2010/4/22
21	Bay A26 (A CH257.09 - A CH269.95) - TG2 (EB)	5 days	2010/4/23	2010/4/28
22	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	10 days	2010/5/6	2010/5/17
23	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	10 days	2010/5/18	2010/5/29
24	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	10 days	2010/5/31	2010/6/10
25	Bay RT4 (A CH306.75 - A CH318.91) - Retaining Wall	10 days	2010/6/11	2010/6/23
26	Bay RT5 (A CH318.91 - A CH331.09) - Retaining Wall	6 days	2010/6/24	2010/6/30
27	Backfilling along the channel sides / laying underground drain pipe	51 days	2010/4/29	2010/6/30
28	Bay A32 (A CH331.09 - A CH343.21) - Transition	3 days	2010/4/29	2010/5/3
29	Bay A33 (A CH343.21 - A CH359.26) - Transition	3 days	2010/5/4	2010/5/6
30	Bay A34 (A CH359.26 - A CH374.28)	3 days	2010/5/7	2010/5/10
31	Bay A35 (A CH374.28 - A CH389.29)	3 days	2010/5/11	2010/5/13
32	Bay A36 (A CH389.29 - A CH400.18)	3 days	2010/5/14	2010/5/17
33	Bay A25 (A CH244.23 - A CH257.09) - TG2 (EB)	3 days	2010/4/29	2010/5/3
34	Bay A26 (A CH257.09 - A CH269.95) - TG2 (EB)	2 days	2010/4/29	2010/4/30
35	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	2 days	2010/6/24	2010/6/25
36	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	2 days	2010/6/26	2010/6/28

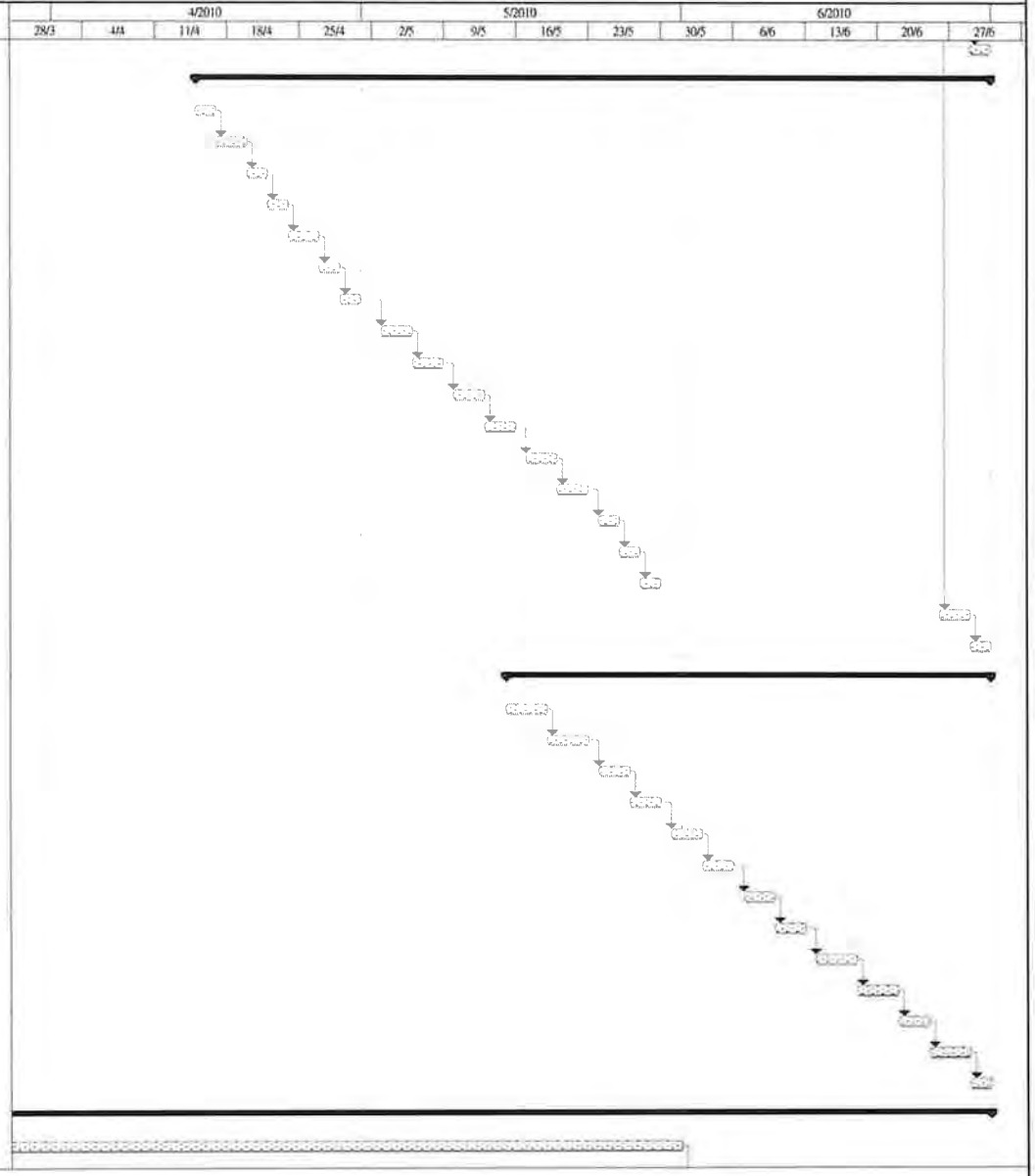


Task Split Progress Milestone Summary

Contract No : DC/2007/17
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - April 2010 to June 2010

Item	Task Name	Duration	Start	Finish
37	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	2 days	2010/6/29	2010/6/30
38	Installation of Type 2 railing	63 days	2010/4/15	2010/6/30
39	Bay A9 (A CH58.74 - A CH70.69) - TG2 (EB)	2 days	2010/4/15	2010/4/16
40	Bay A10 (A CH70.69 - A CH84.25) - TG2 (EB)	2 days	2010/4/17	2010/4/19
41	Bay A11 (A CH84.25 - A CH96.57) - TG2 (EB)	2 days	2010/4/20	2010/4/21
42	Bay A12 (A CH96.57 - A CH107.46) - TG2 (EB)	2 days	2010/4/22	2010/4/23
43	Bay A13 (A CH107.46 - A CH119.62) - TG2 (EB)	2 days	2010/4/24	2010/4/26
44	Bay A14 (A CH119.62 - A CH131.78) - TG2 (EB)	2 days	2010/4/27	2010/4/28
45	Bay A15 (A CH131.78 - A CH143.92) - TG2 (EB)	2 days	2010/4/29	2010/4/30
46	Bay A16 (A CH143.92 - A CH156.08) - TG2 (EB)	3 days	2010/5/3	2010/5/5
47	Bay A17 (A CH156.08 - A CH167.00) - TG2 (EB)	3 days	2010/5/6	2010/5/8
48	Bay A18 (A CH167.00 - A CH179.97) - TG2 (EB)	3 days	2010/5/10	2010/5/12
49	Bay A19 (A CH179.97 - A CH190.69) - TG2 (EB)	3 days	2010/5/13	2010/5/15
50	Bay A20 (A CH190.69 - A CH201.41) - TG2 (EB)	3 days	2010/5/17	2010/5/19
51	Bay A21 (A CH201.41 - A CH213.44) - TG2 (EB)	2 days	2010/5/20	2010/5/22
52	Bay A22 (A CH213.44 - A CH225.47) - TG2 (EB)	2 days	2010/5/24	2010/5/25
53	Bay A23 (A CH225.47 - A CH237.50) - TG2 (EB)	2 days	2010/5/26	2010/5/27
54	Bay A24 (A CH237.50 - A CH244.23) - TG2 (EB)	2 days	2010/5/28	2010/5/29
55	Bay A25 (A CH244.23 - A CH257.09) - TG2 (EB)	2 days	2010/6/26	2010/6/28
56	Bay A26 (A CH257.09 - A CH269.95) - TG2 (EB)	2 days	2010/6/29	2010/6/30
57	Laying gabion block / granite block inside the channel	38 days	2010/5/15	2010/6/30
58	Bay A1 (A CH00.00 - A CH11.16) - RC2	3 days	2010/5/15	2010/5/18
59	Bay A2 (A CH11.16 - A CH17.28) - RC2	3 days	2010/5/19	2010/5/22
60	Bay A9 (A CH58.74 - A CH70.69) - TG2	3 days	2010/5/24	2010/5/26
61	Bay A10 (A CH70.69 - A CH84.25) - TG2	3 days	2010/5/27	2010/5/29
62	Bay A11 (A CH84.25 - A CH96.57) - TG2	3 days	2010/5/31	2010/6/2
63	Bay A12 (A CH96.57 - A CH107.46) - TG2	3 days	2010/6/3	2010/6/5
64	Bay A13 (A CH107.46 - A CH119.62) - TG2	3 days	2010/6/7	2010/6/9
65	Bay A14 (A CH119.62 - A CH131.78) - TG2	3 days	2010/6/10	2010/6/12
66	Bay A15 (A CH131.78 - A CH143.92) - TG2	3 days	2010/6/14	2010/6/17
67	Bay A16 (A CH143.92 - A CH156.08) - TG2	3 days	2010/6/18	2010/6/21
68	Bay A17 (A CH156.08 - A CH167.00) - TG2	3 days	2010/6/22	2010/6/24
69	Bay A18 (A CH167.00 - A CH179.97) - TG2	3 days	2010/6/25	2010/6/28
70	Bay A19 (A CH179.97 - A CH190.69) - TG2	2 days	2010/6/29	2010/6/30
71	Section of Box Culvert BC13-1	98 days	2010/3/1	2010/6/30
72	Cease work (01/03/10 - 31/05/10) - Restriction of EP-263/2007 requirement	73 days	2010/3/1	2010/5/31



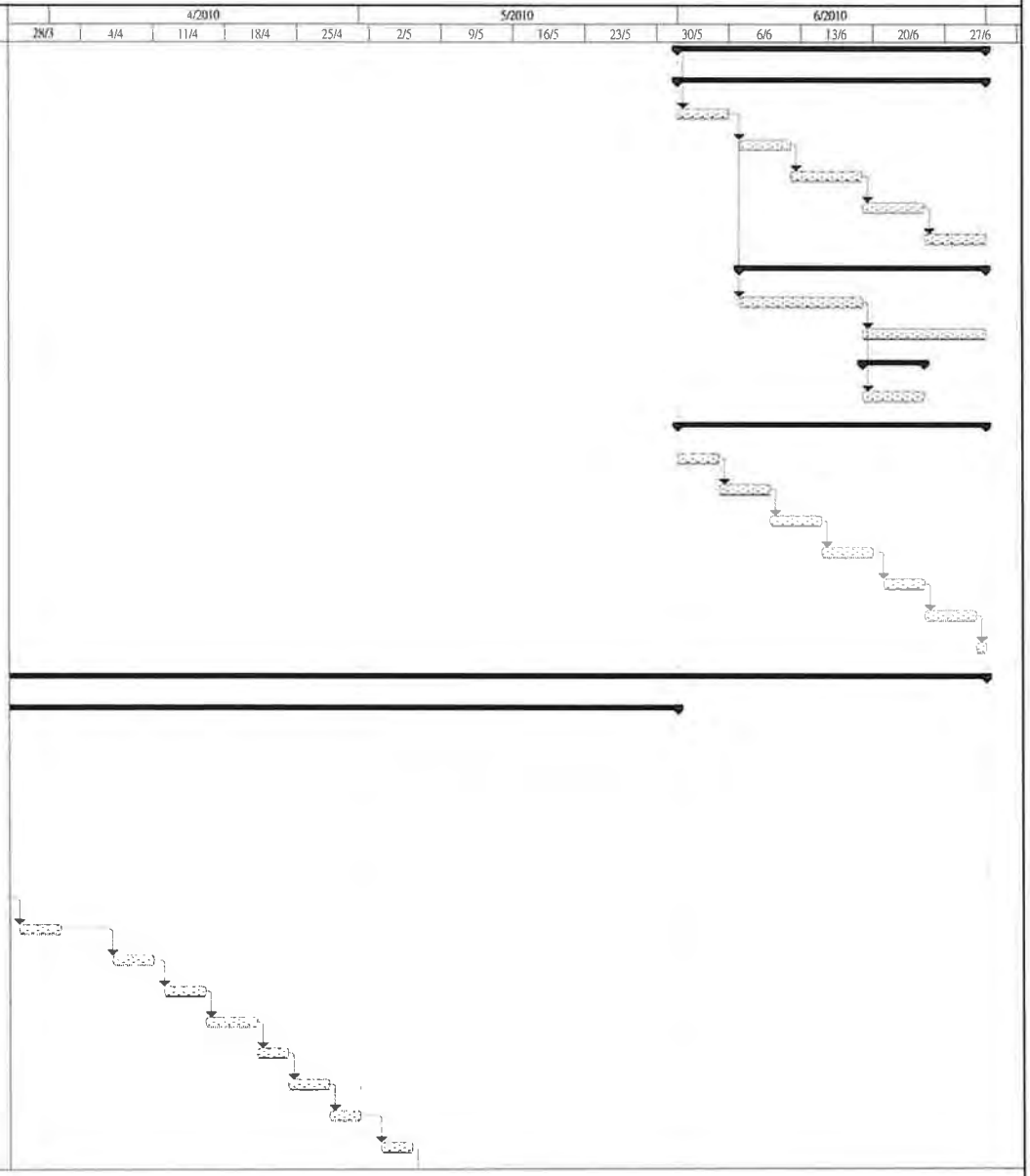
Task Split Progress Milestone Summary

Contract No : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - April 2010 to June 2010

Item	Task Name	Duration	Start	Finish
73	Construct box culvert (BC CH0.00 - BC CH386.00)	25 days	2010/6/1	2010/6/30
74	Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH384.00)	25 days	2010/6/1	2010/6/30
75	Bay BC4 (BC CH46.95 - BC CH32.25)	5 days	2010/6/1	2010/6/5
76	Bay BC5 (BC CH61.97 - BC CH46.95)	5 days	2010/6/7	2010/6/11
77	Bay BC6 (BC CH76.57 - BC CH61.97)	5 days	2010/6/12	2010/6/18
78	Bay BC7 (BC CH91.96 - BC CH76.57)	5 days	2010/6/19	2010/6/24
79	Bay BC8 (BC CH106.27 - BC CH91.96) / Demolish existing playground / Erection of temporary shel	5 days	2010/6/25	2010/6/30
80	Construction of box culvert	20 days	2010/6/7	2010/6/30
81	Bay BC4 (BC CH46.95 - BC CH32.25)	10 days	2010/6/7	2010/6/18
82	Bay BC5 (BC CH61.97 - BC CH46.95)	10 days	2010/6/19	2010/6/30
83	Backfilling the sides of channel structure & Laying of underground drain pipe	5 days	2010/6/19	2010/6/24
84	Bay BC4 (BC CH46.95 - BC CH32.25)	5 days	2010/6/19	2010/6/24
85	Construction of catchpit / manhole / drain pipe along channel sides	25 days	2010/6/1	2010/6/30
86	Bay BC29 (BC CH383.63 - BC CH371.47)	4 days	2010/6/1	2010/6/4
87	Bay BC28 (BC CH371.47 - BC CH362.70)	4 days	2010/6/5	2010/6/9
88	Bay BC27 (BC CH362.70 - BC CH348.11)	4 days	2010/6/10	2010/6/14
89	Bay BC26 (BC CH348.11 - BC CH333.53)	4 days	2010/6/15	2010/6/19
90	Bay BC25 (BC CH333.53 - BC CH318.82)	4 days	2010/6/21	2010/6/24
91	Bay BC24 (BC CH318.82 - BC CH304.34)	4 days	2010/6/25	2010/6/29
92	Bay BC23 (BC CH304.34 - BC CH289.87)	1 day	2010/6/30	2010/6/30
93	Section B	98 days	2010/3/1	2010/6/30
94	Laying gabion block / granite block inside the channel	73 days	2010/3/1	2010/5/31
95	Bay B28 (B CH282.00 - B CH294.00) - TG4	4 days	2010/3/1	2010/3/4
96	Bay B27 (B CH270.00 - B CH282.00) - TG4	4 days	2010/3/5	2010/3/9
97	Bay B26 (B CH260.00 - B CH270.00) - TG4	4 days	2010/3/10	2010/3/13
98	Bay B25 (B CH248.00 - B CH260.00) - TG5	4 days	2010/3/15	2010/3/18
99	Bay B24 (B CH236.00 - B CH248.00) - TG5	4 days	2010/3/19	2010/3/23
100	Bay B23 (B CH224.00 - B CH236.00) - TG5	4 days	2010/3/24	2010/3/27
101	Bay B22 (B CH212.00 - B CH224.00) - TG5	4 days	2010/3/29	2010/4/1
102	Bay B21 (B CH200.00 - B CH212.00) - TG8	4 days	2010/4/7	2010/4/10
103	Bay B20 (B CH188.00 - B CH200.00) - TG8	4 days	2010/4/12	2010/4/15
104	Bay B19 (B CH174.00 - B CH188.00) - TG8	4 days	2010/4/16	2010/4/20
105	Bay B18 (B CH162.00 - B CH174.00) - TG8	3 days	2010/4/21	2010/4/23
106	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2010/4/24	2010/4/27
107	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2010/4/28	2010/4/30
108	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2010/5/3	2010/5/5



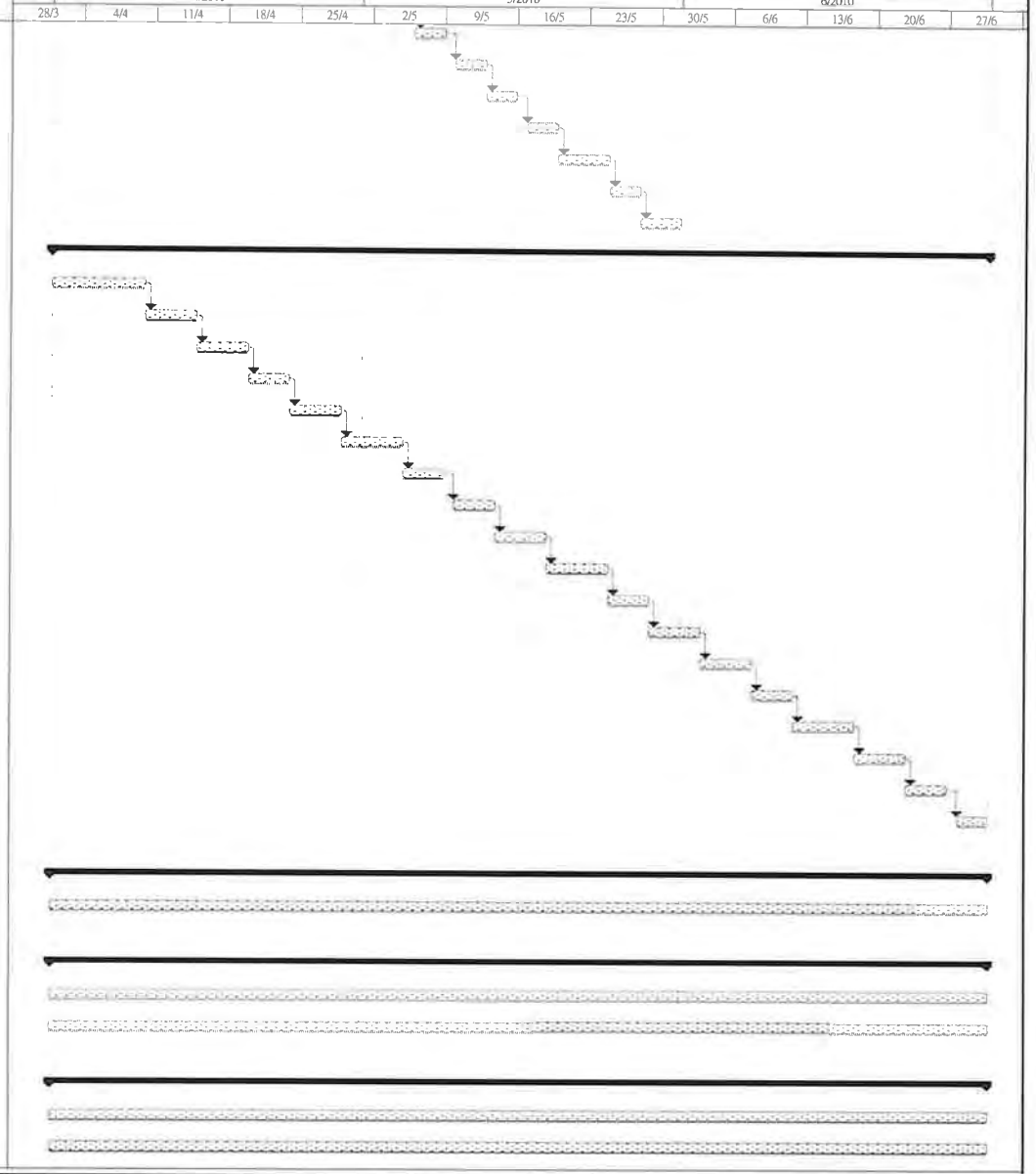
Task Split Progress Milestone Summary

Contract No : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - April 2010 to June 2010

Item	Task Name	Duration	Start	Finish
109	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2010/5/6	2010/5/8
110	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2010/5/10	2010/5/12
111	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2010/5/13	2010/5/15
112	Bay B6 (B CH46.00 - B CH57.00) - TG3	3 days	2010/5/17	2010/5/19
113	Bay B5 (B CH34.00 - B CH46.00) - TG3	3 days	2010/5/20	2010/5/24
114	Bay B4 (B CH24.00 - B CH34.00) - TG3	3 days	2010/5/25	2010/5/27
115	Bay B3 (B CH14.00 - B CH24.00) - TG3	3 days	2010/5/28	2010/5/31
116	Construction of catchpit / manhole / drain pipe along channel sides	71 days	2010/4/1	2010/6/30
117	Bay B30 (B CH302.00 - B CH312.00) - Transition	4 days	2010/4/1	2010/4/9
118	Bay B29 (B CH294.00 - B CH302.00) - Transition	4 days	2010/4/10	2010/4/14
119	Bay B28 (B CH282.00 - B CH294.00) - TG4	4 days	2010/4/15	2010/4/19
120	Bay B27 (B CH270.00 - B CH282.00) - TG4	4 days	2010/4/20	2010/4/23
121	Bay B26 (B CH260.00 - B CH270.00) - TG4	4 days	2010/4/24	2010/4/28
122	Bay B25 (B CH248.00 - B CH260.00) - TG5	4 days	2010/4/29	2010/5/4
123	Bay B24 (B CH236.00 - B CH248.00) - TG5	4 days	2010/5/5	2010/5/8
124	Bay B23 (B CH224.00 - B CH236.00) - TG5	4 days	2010/5/10	2010/5/13
125	Bay B22 (B CH212.00 - B CH224.00) - TG5	4 days	2010/5/14	2010/5/18
126	Bay B21 (B CH200.00 - B CH212.00) - TG8	4 days	2010/5/19	2010/5/24
127	Bay B20 (B CH188.00 - B CH200.00) - TG8	4 days	2010/5/25	2010/5/28
128	Bay B19 (B CH174.00 - B CH188.00) - TG8	4 days	2010/5/29	2010/6/2
129	Bay B18 (B CH162.00 - B CH174.00) - TG8	4 days	2010/6/3	2010/6/7
130	Bay B17 (B CH154.00 - B CH162.00) - Transition	4 days	2010/6/8	2010/6/11
131	Bay B16 (B CH147.00 - B CH154.00) - Transition	4 days	2010/6/12	2010/6/17
132	Bay B15 (B CH144.00 - B CH147.00) - Transition	4 days	2010/6/18	2010/6/22
133	Bay BC14 (BC CH184.94 - BC CH170.20)	4 days	2010/6/23	2010/6/26
134	Bay BC13 (BC CH170.20 - BC CH155.56)	3 days	2010/6/28	2010/6/30
135				
136	Section V	71 days	2010/4/1	2010/6/30
137	Preservation and protection of tree for Section I, II, III and IV	71 days	2010/4/1	2010/6/30
138				
139	Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	71 days	2010/4/1	2010/6/30
140	Structural Survey and Monitoring	71 days	2010/4/1	2010/6/30
141	Construction of Manhole, Timber Box and Trench Excavation	71 days	2010/4/1	2010/6/30
142				
143	Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)	71 days	2010/4/1	2010/6/30
144	Structural Survey and Monitoring	71 days	2010/4/1	2010/6/30
145	Construction of Manhole, Timber Box and Trench Excavation	71 days	2010/4/1	2010/6/30



Task Split Progress Milestone Summary

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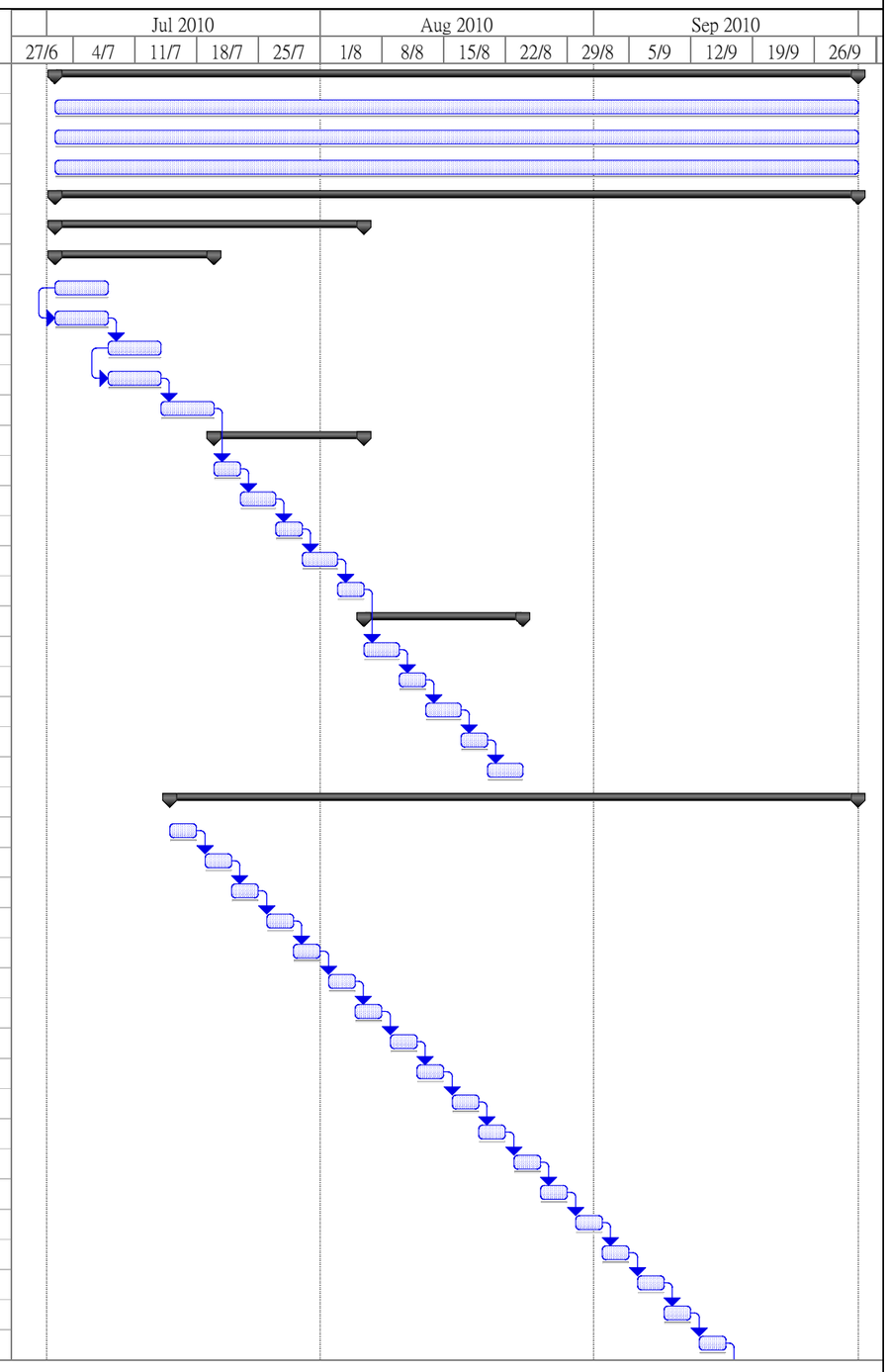
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - July 2010 to September 2010

ID	Task Name	Duration	Start	Finish
1	**Section II (Channel KT13)**	**77 days**	**2010/7/2**	**2010/9/30**
2	**Regular Environmental Impact Monitoring**	77 days	2010/7/2	2010/9/30
3	**Regular Tree Survey & Protection**	77 days	2010/7/2	2010/9/30
4	**Regular Structural Condition Survey**	77 days	2010/7/2	2010/9/30
5	**Section A**	**77 days**	**2010/7/2**	**2010/9/30**
6	**Construction of Retaining Wall and Channel (A CH0.00 - A CH402.00)**	**30 days**	**2010/7/2**	**2010/8/5**
7	**Construction of channel structure (RC2, Transition, and TG2)**	**15 days**	**2010/7/2**	**2010/7/19**
8	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	5 days	2010/7/2	2010/7/7
9	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	5 days	2010/7/2	2010/7/7
10	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	5 days	2010/7/8	2010/7/13
11	Bay RT4 (A CH306.75 - A CH318.91) - Retaining Wall	5 days	2010/7/8	2010/7/13
12	Bay RT5 (A CH318.91 - A CH331.09) - Retaining Wall	5 days	2010/7/14	2010/7/19
13	**Backfilling along the channel sides / laying underground drain pipe**	**15 days**	**2010/7/20**	**2010/8/5**
14	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	3 days	2010/7/20	2010/7/22
15	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	3 days	2010/7/23	2010/7/26
16	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	3 days	2010/7/27	2010/7/29
17	Bay RT4 (A CH306.75 - A CH318.91) - Retaining Wall	3 days	2010/7/30	2010/8/2
18	Bay RT5 (A CH318.91 - A CH331.09) - Retaining Wall	3 days	2010/8/3	2010/8/5
19	**Installation of Type 2 railing**	**15 days**	**2010/8/6**	**2010/8/23**
20	Bay RT1 (A CH269.95 - A CH282.43) - Retaining Wall	3 days	2010/8/6	2010/8/9
21	Bay RT2 (A CH282.43 - A CH294.59) - Retaining Wall	3 days	2010/8/10	2010/8/12
22	Bay RT3 (A CH294.59 - A CH306.75) - Retaining Wall	3 days	2010/8/13	2010/8/16
23	Bay RT4 (A CH306.75 - A CH318.91) - Retaining Wall	3 days	2010/8/17	2010/8/19
24	Bay RT5 (A CH318.91 - A CH331.09) - Retaining Wall	3 days	2010/8/20	2010/8/23
25	**Laying gabion block / granite block inside the channel**	**66 days**	**2010/7/15**	**2010/9/30**
26	Bay A34 (A CH359.26 - A CH374.28) - Rectangular Channel	3 days	2010/7/15	2010/7/17
27	Bay A31 (A CH318.91 - A CH331.09) - TG6	3 days	2010/7/19	2010/7/21
28	Bay A30 (A CH306.75 - A CH318.91) - TG6	3 days	2010/7/22	2010/7/24
29	Bay A29 (A CH294.59 - A CH306.75) - TG6	3 days	2010/7/26	2010/7/28
30	Bay A28 (A CH282.43 - A CH294.59) - TG6	3 days	2010/7/29	2010/7/31
31	Bay A27 (A CH269.95 - A CH282.43) - TG6	3 days	2010/8/2	2010/8/4
32	Bay A26 (A CH257.09 - A CH269.95) - TG2	3 days	2010/8/5	2010/8/7
33	Bay A25 (A CH244.23 - A CH257.09) - TG2	3 days	2010/8/9	2010/8/11
34	Bay A24 (A CH237.50 - A CH244.23) - TG2	3 days	2010/8/12	2010/8/14
35	Bay A23 (A CH225.47 - A CH237.50) - TG2	3 days	2010/8/16	2010/8/18
36	Bay A22 (A CH213.44 - A CH225.47) - TG2	3 days	2010/8/19	2010/8/21
37	Bay A21 (A CH201.41 - A CH213.44) - TG2	3 days	2010/8/23	2010/8/25
38	Bay A20 (A CH190.69 - A CH201.41) - TG2	3 days	2010/8/26	2010/8/28
39	Bay A19 (A CH179.97 - A CH190.69) - TG2	3 days	2010/8/30	2010/9/1
40	Bay A18 (A CH167.00 - A CH179.97) - TG2	3 days	2010/9/2	2010/9/4
41	Bay A17 (A CH156.08 - A CH167.00) - TG2 (WB)	3 days	2010/9/6	2010/9/8
42	Bay A16 (A CH143.92 - A CH156.08) - TG2 (WB)	3 days	2010/9/9	2010/9/11
43	Bay A15 (A CH131.78 - A CH143.92) - TG2 (WB)	3 days	2010/9/13	2010/9/15



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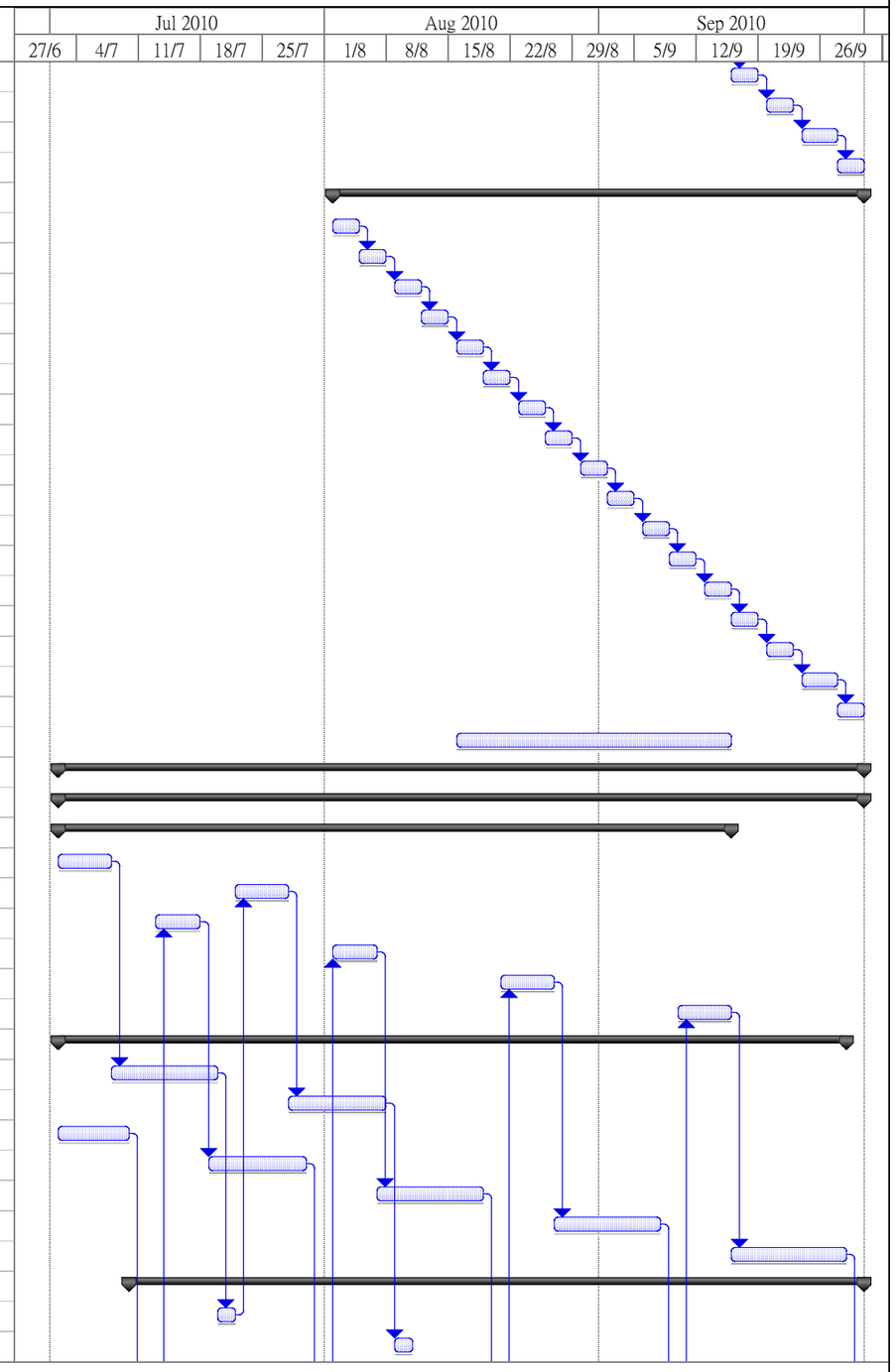
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - July 2010 to September 2010

ID	Task Name	Duration	Start	Finish
44	Bay A14 (A CH119.62 - A CH131.78) - TG2 (WB)	3 days	2010/9/16	2010/9/18
45	Bay A13 (A CH107.46 - A CH119.62) - TG2 (WB)	3 days	2010/9/20	2010/9/22
46	Bay A12 (A CH96.57 - A CH107.46) - TG2 (WB)	3 days	2010/9/24	2010/9/27
47	Bay A11 (A CH84.25 - A CH96.57) - TG2 (WB)	3 days	2010/9/28	2010/9/30
48	**Construction of catchpit / manhole / drain pipe along the channel sides**	**51 days**	**2010/8/2**	**2010/9/30**
49	Bay A1 (A CH00.00 - A CH11.16) - RC2	3 days	2010/8/2	2010/8/4
50	Bay A2 (A CH11.16 - A CH17.28) - RC2	3 days	2010/8/5	2010/8/7
51	Bay A3 (A CH17.28 - A CH26.04) - RC2	3 days	2010/8/9	2010/8/11
52	Bay A4 (A CH26.04 - A CH33.57) - Transition	3 days	2010/8/12	2010/8/14
53	Bay A5 (A CH33.57 - A CH41.09) - Transition	3 days	2010/8/16	2010/8/18
54	Bay A6 (A CH41.09 - A CH43.72) & Pedestrian Crossing	3 days	2010/8/19	2010/8/21
55	Bay A7 (A CH43.72 - A CH51.19) - Transition	3 days	2010/8/23	2010/8/25
56	Bay A8 (A CH51.19 - A CH58.74) - Transition	3 days	2010/8/26	2010/8/28
57	Bay A9 (A CH58.74 - A CH70.69) - TG2	3 days	2010/8/30	2010/9/1
58	Bay A10 (A CH70.69 - A CH84.25) - TG2	3 days	2010/9/2	2010/9/4
59	Bay A11 (A CH84.25 - A CH96.57) - TG2	3 days	2010/9/6	2010/9/8
60	Bay A12 (A CH96.57 - A CH107.46) - TG2	3 days	2010/9/9	2010/9/11
61	Bay A13 (A CH107.46 - A CH119.62) - TG2	3 days	2010/9/13	2010/9/15
62	Bay A14 (A CH119.62 - A CH131.78) - TG2	3 days	2010/9/16	2010/9/18
63	Bay A15 (A CH131.78 - A CH143.92) - TG2	3 days	2010/9/20	2010/9/22
64	Bay A16 (A CH143.92 - A CH156.08) - TG2	3 days	2010/9/24	2010/9/27
65	Bay A17 (A CH156.08 - A CH167.00) - TG2	3 days	2010/9/28	2010/9/30
66	**Compensatory Planting At Downstream**	27 days	2010/8/16	2010/9/15
67	**Section of Box Culvert BC13-1**	**77 days**	**2010/7/2**	**2010/9/30**
68	**Construct box culvert (BC CH0.00 - BC CH386.00)**	**77 days**	**2010/7/2**	**2010/9/30**
69	**Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH384.00)**	**65 days**	**2010/7/2**	**2010/9/15**
70	Bay BC13 (BC CH170.20 - BC CH155.56)	5 days	2010/7/2	2010/7/7
71	Bay BC12 (BC CH155.56 - BC CH140.65)	5 days	2010/7/22	2010/7/27
72	Bay BC7 (BC CH91.96 - BC CH76.57)	5 days	2010/7/13	2010/7/17
73	Bay BC8 (BC CH106.27 - BC CH91.96) / Demolish existing playground / Erection of temporary shelter	5 days	2010/8/2	2010/8/6
74	Bay BC9 (BC CH121.12 - BC CH106.27)	5 days	2010/8/21	2010/8/26
75	Bay BC10 (BC CH126.63 - BC CH121.12)	5 days	2010/9/10	2010/9/15
76	**Construction of box culvert**	**75 days**	**2010/7/2**	**2010/9/28**
77	Bay BC13 (BC CH170.20 - BC CH155.56)	10 days	2010/7/8	2010/7/19
78	Bay BC12 (BC CH155.56 - BC CH140.65)	10 days	2010/7/28	2010/8/7
79	Bay BC6 (BC CH76.57 - BC CH61.97)	7 days	2010/7/2	2010/7/9
80	Bay BC7 (BC CH91.96 - BC CH76.57)	10 days	2010/7/19	2010/7/29
81	Bay BC8 (BC CH106.27 - BC CH91.96) / Demolish existing playground / Erection of temporary shelter	10 days	2010/8/7	2010/8/18
82	Bay BC9 (BC CH121.12 - BC CH106.27)	10 days	2010/8/27	2010/9/7
83	Bay BC10 (BC CH126.63 - BC CH121.12)	10 days	2010/9/16	2010/9/28
84	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**70 days**	**2010/7/10**	**2010/9/30**
85	Bay BC13 (BC CH170.20 - BC CH155.56)	2 days	2010/7/20	2010/7/21
86	Bay BC12 (BC CH155.56 - BC CH140.65)	2 days	2010/8/9	2010/8/10



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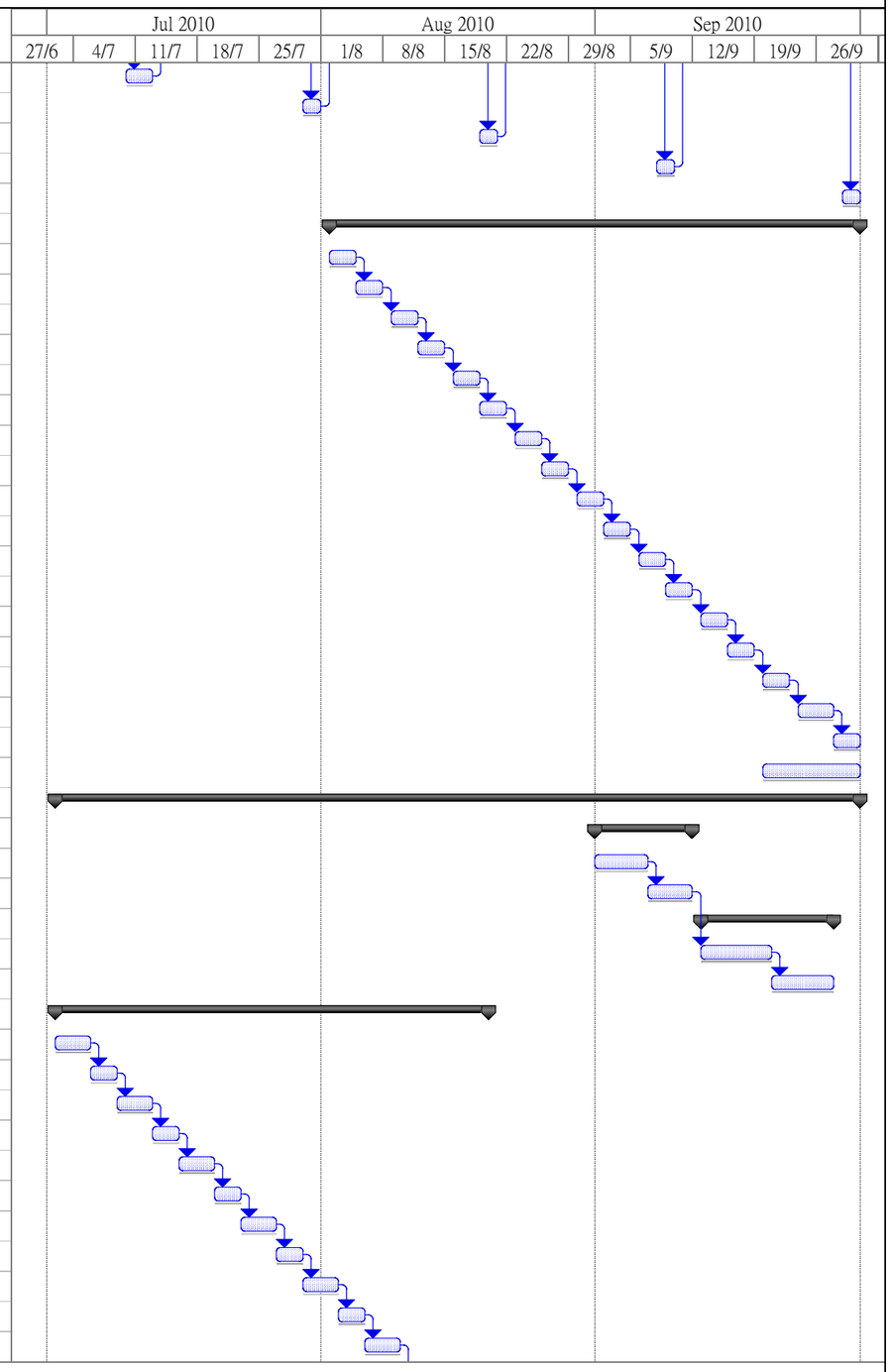
Three Months Rolling Programme - July 2010 to September 2010

ID	Task Name	Duration	Start	Finish
87	Bay BC6 (BC CH76.57 - BC CH61.97)	2 days	2010/7/10	2010/7/12
88	Bay BC7 (BC CH91.96 - BC CH76.57)	2 days	2010/7/30	2010/7/31
89	Bay BC8 (BC CH106.27 - BC CH91.96) / Demolish existing playground / Erection of temporary shelter	2 days	2010/8/19	2010/8/20
90	Bay BC9 (BC CH121.12 - BC CH106.27)	2 days	2010/9/8	2010/9/9
91	Bay BC10 (BC CH126.63 - BC CH121.12)	2 days	2010/9/29	2010/9/30
92	**Construction of catchpit / manhole / drain pipe along channel sides**	**51 days**	**2010/8/2**	**2010/9/30**
93	Bay BC29 (BC CH383.63 - BC CH371.47)	3 days	2010/8/2	2010/8/4
94	Bay BC28 (BC CH371.47 - BC CH362.70)	3 days	2010/8/5	2010/8/7
95	Bay BC27 (BC CH362.70 - BC CH348.11)	3 days	2010/8/9	2010/8/11
96	Bay BC26 (BC CH348.11 - BC CH333.53)	3 days	2010/8/12	2010/8/14
97	Bay BC25 (BC CH333.53 - BC CH318.82)	3 days	2010/8/16	2010/8/18
98	Bay BC24 (BC CH318.82 - BC CH304.34)	3 days	2010/8/19	2010/8/21
99	Bay BC23 (BC CH304.34 - BC CH289.87)	3 days	2010/8/23	2010/8/25
100	Bay BC22 (BC CH289.87 - BC CH275.39)	3 days	2010/8/26	2010/8/28
101	Bay BC21 (BC CH275.39 - BC CH260.81)	3 days	2010/8/30	2010/9/1
102	Bay BC20 (BC CH260.81 - BC CH245.97)	3 days	2010/9/2	2010/9/4
103	Bay BC19 (BC CH245.97 - BC CH231.13)	3 days	2010/9/6	2010/9/8
104	Bay BC18 (BC CH231.13 - BC CH216.21)	3 days	2010/9/9	2010/9/11
105	Bay BC17 (BC CH216.21 - BC CH201.97)	3 days	2010/9/13	2010/9/15
106	Bay BC16 (BC CH201.97 - BC CH196.48)	3 days	2010/9/16	2010/9/18
107	Bay BC15 (BC CH196.48 - BC CH184.94)	3 days	2010/9/20	2010/9/22
108	Bay BC14 (BC CH184.94 - BC CH170.20)	3 days	2010/9/24	2010/9/27
109	Bay BC13 (BC CH170.20 - BC CH155.56)	3 days	2010/9/28	2010/9/30
110	Reprovision of playground (BC CH50.00 - BC CH80.00)	9 days	2010/9/20	2010/9/30
111	**Section B**	**77 days**	**2010/7/2**	**2010/9/30**
112	**Excavation for channel formation & laying of rock fill material (B CH0.00 - B CH316.00)**	**10 days**	**2010/9/1**	**2010/9/11**
113	Bay B2 (B CH07.00 - B CH14.00) - Transition	5 days	2010/9/1	2010/9/6
114	Bay B1 (B CH00.00 - B CH07.00) - Transition	5 days	2010/9/7	2010/9/11
115	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**12 days**	**2010/9/13**	**2010/9/27**
116	Bay B2 (B CH07.00 - B CH14.00) - Transition	7 days	2010/9/13	2010/9/20
117	Bay B1 (B CH00.00 - B CH07.00) - Transition	5 days	2010/9/21	2010/9/27
118	**Laying gabion block / granite block inside the channel**	**42 days**	**2010/7/2**	**2010/8/19**
119	Bay B21 (B CH200.00 - B CH212.00) - TG8	3 days	2010/7/2	2010/7/5
120	Bay B20 (B CH188.00 - B CH200.00) - TG8	3 days	2010/7/6	2010/7/8
121	Bay B19 (B CH174.00 - B CH188.00) - TG8	3 days	2010/7/9	2010/7/12
122	Bay B18 (B CH162.00 - B CH174.00) - TG8	3 days	2010/7/13	2010/7/15
123	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2010/7/16	2010/7/19
124	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2010/7/20	2010/7/22
125	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2010/7/23	2010/7/26
126	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2010/7/27	2010/7/29
127	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2010/7/30	2010/8/2
128	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2010/8/3	2010/8/5
129	Bay B6 (B CH46.00 - B CH57.00) - TG3	3 days	2010/8/6	2010/8/9



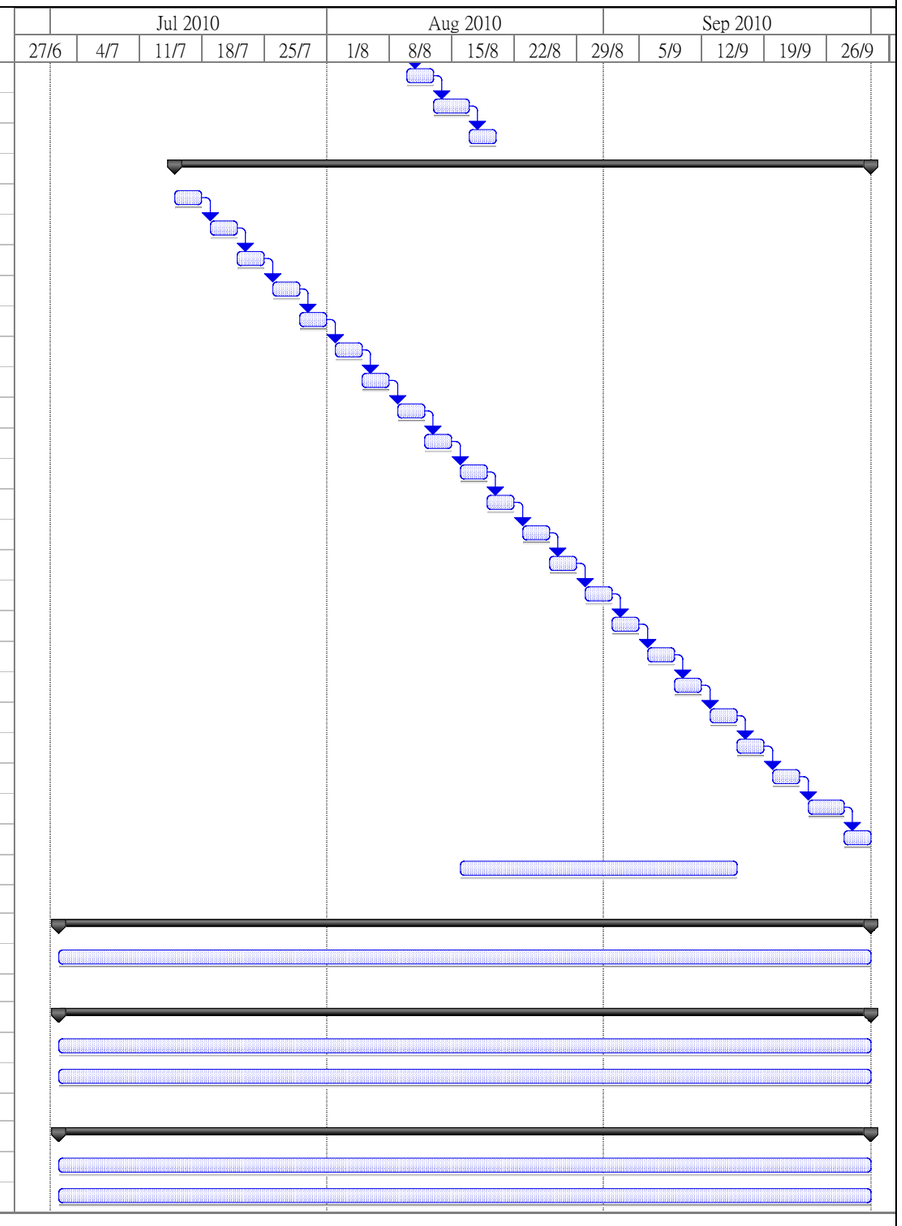
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - July 2010 to September 2010

ID	Task Name	Duration	Start	Finish
130	Bay B5 (B CH34.00 - B CH46.00) - TG3	3 days	2010/8/10	2010/8/12
131	Bay B4 (B CH24.00 - B CH34.00) - TG3	3 days	2010/8/13	2010/8/16
132	Bay B3 (B CH14.00 - B CH24.00) - TG3	3 days	2010/8/17	2010/8/19
133	**Construction of catchpit / manhole / drain pipe along channel sides**	**66 days**	**2010/7/15**	**2010/9/30**
134	Bay B30 (B CH302.00 - B CH312.00) - Transition	3 days	2010/7/15	2010/7/17
135	Bay B29 (B CH294.00 - B CH302.00) - Transition	3 days	2010/7/19	2010/7/21
136	Bay B28 (B CH282.00 - B CH294.00) - TG4	3 days	2010/7/22	2010/7/24
137	Bay B27 (B CH270.00 - B CH282.00) - TG4	3 days	2010/7/26	2010/7/28
138	Bay B26 (B CH260.00 - B CH270.00) - TG4	3 days	2010/7/29	2010/7/31
139	Bay B25 (B CH248.00 - B CH260.00) - TG5	3 days	2010/8/2	2010/8/4
140	Bay B24 (B CH236.00 - B CH248.00) - TG5	3 days	2010/8/5	2010/8/7
141	Bay B23 (B CH224.00 - B CH236.00) - TG5	3 days	2010/8/9	2010/8/11
142	Bay B22 (B CH212.00 - B CH224.00) - TG5	3 days	2010/8/12	2010/8/14
143	Bay B21 (B CH200.00 - B CH212.00) - TG8	3 days	2010/8/16	2010/8/18
144	Bay B20 (B CH188.00 - B CH200.00) - TG8	3 days	2010/8/19	2010/8/21
145	Bay B19 (B CH174.00 - B CH188.00) - TG8	3 days	2010/8/23	2010/8/25
146	Bay B18 (B CH162.00 - B CH174.00) - TG8	3 days	2010/8/26	2010/8/28
147	Bay B17 (B CH154.00 - B CH162.00) - Transition	3 days	2010/8/30	2010/9/1
148	Bay B16 (B CH147.00 - B CH154.00) - Transition	3 days	2010/9/2	2010/9/4
149	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	3 days	2010/9/6	2010/9/8
150	Bay B14 (B CH137.00 - B CH144.00) - Transition	3 days	2010/9/9	2010/9/11
151	Bay B13 (B CH129.00 - B CH137.00) - Transition	3 days	2010/9/13	2010/9/15
152	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2010/9/16	2010/9/18
153	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2010/9/20	2010/9/22
154	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2010/9/24	2010/9/27
155	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2010/9/28	2010/9/30
156	**Compensatory Planting At Upstream**	27 days	2010/8/16	2010/9/15
157				
158	**Section V**	**77 days**	**2010/7/2**	**2010/9/30**
159	Preservation and protection of tree for Section I, II, III and IV	77 days	2010/7/2	2010/9/30
160				
161	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**77 days**	**2010/7/2**	**2010/9/30**
162	Structural Survey and Monitoring	77 days	2010/7/2	2010/9/30
163	Construction of Manhole, Timber Box and Trench Excavation	77 days	2010/7/2	2010/9/30
164				
165	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**77 days**	**2010/7/2**	**2010/9/30**
166	Structural Survey and Monitoring	77 days	2010/7/2	2010/9/30
167	Construction of Manhole, Timber Box and Trench Excavation	77 days	2010/7/2	2010/9/30



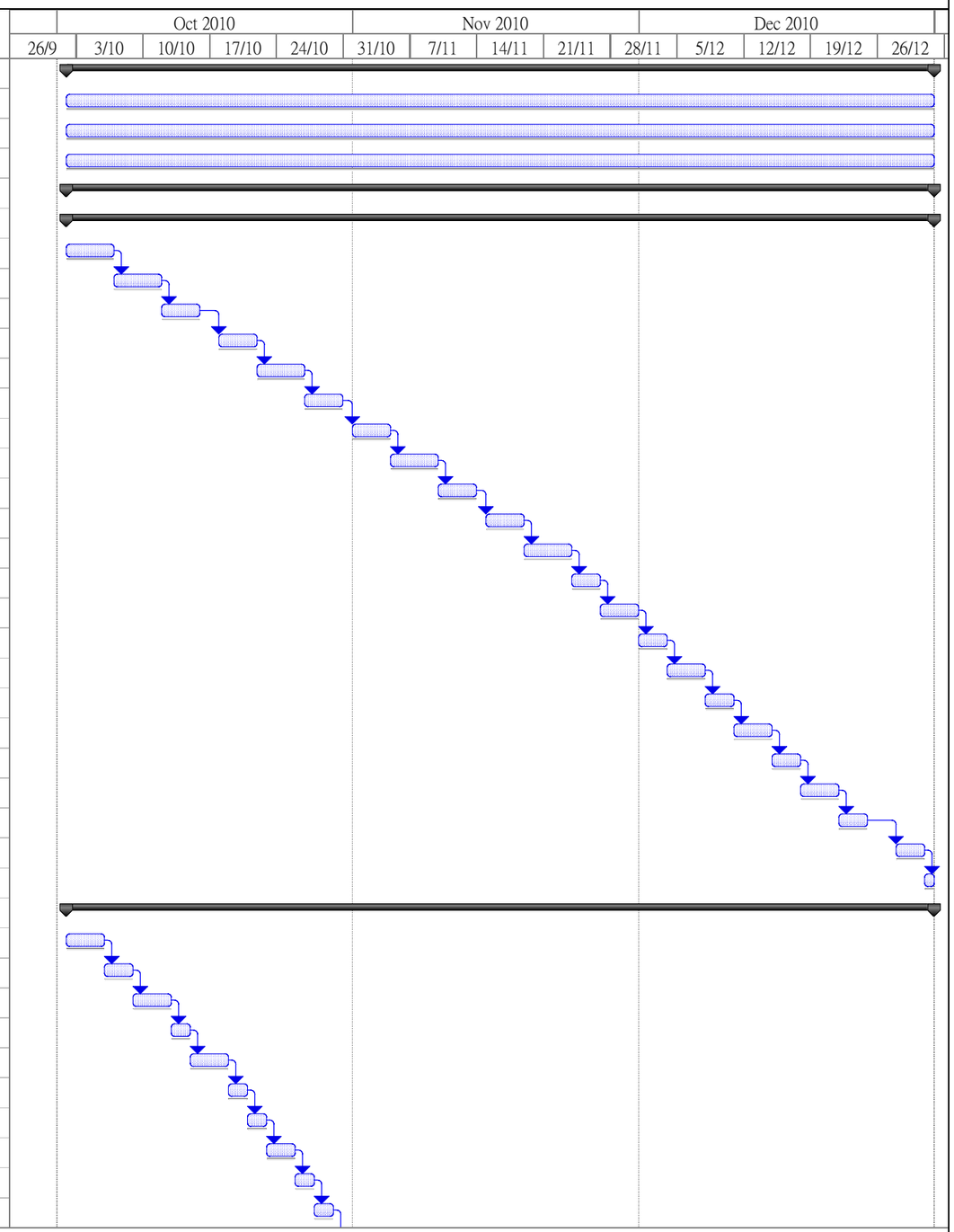
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - October 2010 to December 2010

ID	Task Name	Duration	Start	Finish
1	**Section II (Channel KT13)**	**75 days**	**2010/10/2**	**2010/12/31**
2	**Regular Environmental Impact Monitoring**	75 days	2010/10/2	2010/12/31
3	**Regular Tree Survey & Protection**	75 days	2010/10/2	2010/12/31
4	**Regular Structural Condition Survey**	75 days	2010/10/2	2010/12/31
5	**Section A**	**75 days**	**2010/10/2**	**2010/12/31**
6	**Laying gabion block / granite block inside the channel**	**75 days**	**2010/10/2**	**2010/12/31**
7	Bay A9 (A CH58.74 - A CH70.69) - TG2 (WB)	4 days	2010/10/2	2010/10/6
8	Bay A10 (A CH70.69 - A CH84.25) - TG2 (WB)	4 days	2010/10/7	2010/10/11
9	Bay A11 (A CH84.25 - A CH96.57) - TG2 (WB)	4 days	2010/10/12	2010/10/15
10	Bay A12 (A CH96.57 - A CH107.46) - TG2 (WB)	4 days	2010/10/18	2010/10/21
11	Bay A13 (A CH107.46 - A CH119.62) - TG2 (WB)	4 days	2010/10/22	2010/10/26
12	Bay A14 (A CH119.62 - A CH131.78) - TG2 (WB)	4 days	2010/10/27	2010/10/30
13	Bay A15 (A CH131.78 - A CH143.92) - TG2 (WB)	4 days	2010/11/1	2010/11/4
14	Bay A16 (A CH143.92 - A CH156.08) - TG2 (WB)	4 days	2010/11/5	2010/11/9
15	Bay A17 (A CH156.08 - A CH167.00) - TG2 (WB)	4 days	2010/11/10	2010/11/13
16	Bay A18 (A CH167.00 - A CH179.97) - TG2	4 days	2010/11/15	2010/11/18
17	Bay A19 (A CH179.97 - A CH190.69) - TG2	4 days	2010/11/19	2010/11/23
18	Bay A20 (A CH190.69 - A CH201.41) - TG2	3 days	2010/11/24	2010/11/26
19	Bay A21 (A CH201.41 - A CH213.44) - TG2	3 days	2010/11/27	2010/11/30
20	Bay A22 (A CH213.44 - A CH225.47) - TG2	3 days	2010/12/1	2010/12/3
21	Bay A23 (A CH225.47 - A CH237.50) - TG2	3 days	2010/12/4	2010/12/7
22	Bay A24 (A CH237.50 - A CH244.23) - TG2	3 days	2010/12/8	2010/12/10
23	Bay A25 (A CH244.23 - A CH257.09) - TG2 (WB)	3 days	2010/12/11	2010/12/14
24	Bay A26 (A CH257.09 - A CH269.95) - TG2 (WB)	3 days	2010/12/15	2010/12/17
25	Bay A27 (A CH269.95 - A CH282.43) - TG6 (WB)	3 days	2010/12/18	2010/12/21
26	Bay A28 (A CH282.43 - A CH294.59) - TG6 (WB)	3 days	2010/12/22	2010/12/24
27	Bay A29 (A CH294.59 - A CH306.75) - TG6 (WB)	3 days	2010/12/28	2010/12/30
28	Bay A30 (A CH306.75 - A CH318.91) - TG6 (WB)	1 day	2010/12/31	2010/12/31
29	**Construction of catchpit / manhole / drain pipe along the channel sides**	**75 days**	**2010/10/2**	**2010/12/31**
30	Bay A1 (A CH00.00 - A CH11.16) - RC2	3 days	2010/10/2	2010/10/5
31	Bay A2 (A CH11.16 - A CH17.28) - RC2	3 days	2010/10/6	2010/10/8
32	Bay A3 (A CH17.28 - A CH26.04) - RC2	3 days	2010/10/9	2010/10/12
33	Bay A4 (A CH26.04 - A CH33.57) - Transition	2 days	2010/10/13	2010/10/14
34	Bay A5 (A CH33.57 - A CH41.09) - Transition	2 days	2010/10/15	2010/10/18
35	Bay A6 (A CH41.09 - A CH43.72) & Pedestrian Crossing	2 days	2010/10/19	2010/10/20
36	Bay A7 (A CH43.72 - A CH51.19) - Transition	2 days	2010/10/21	2010/10/22
37	Bay A8 (A CH51.19 - A CH58.74) - Transition	2 days	2010/10/23	2010/10/25
38	Bay A9 (A CH58.74 - A CH70.69) - TG2	2 days	2010/10/26	2010/10/27
39	Bay A10 (A CH70.69 - A CH84.25) - TG2	2 days	2010/10/28	2010/10/29



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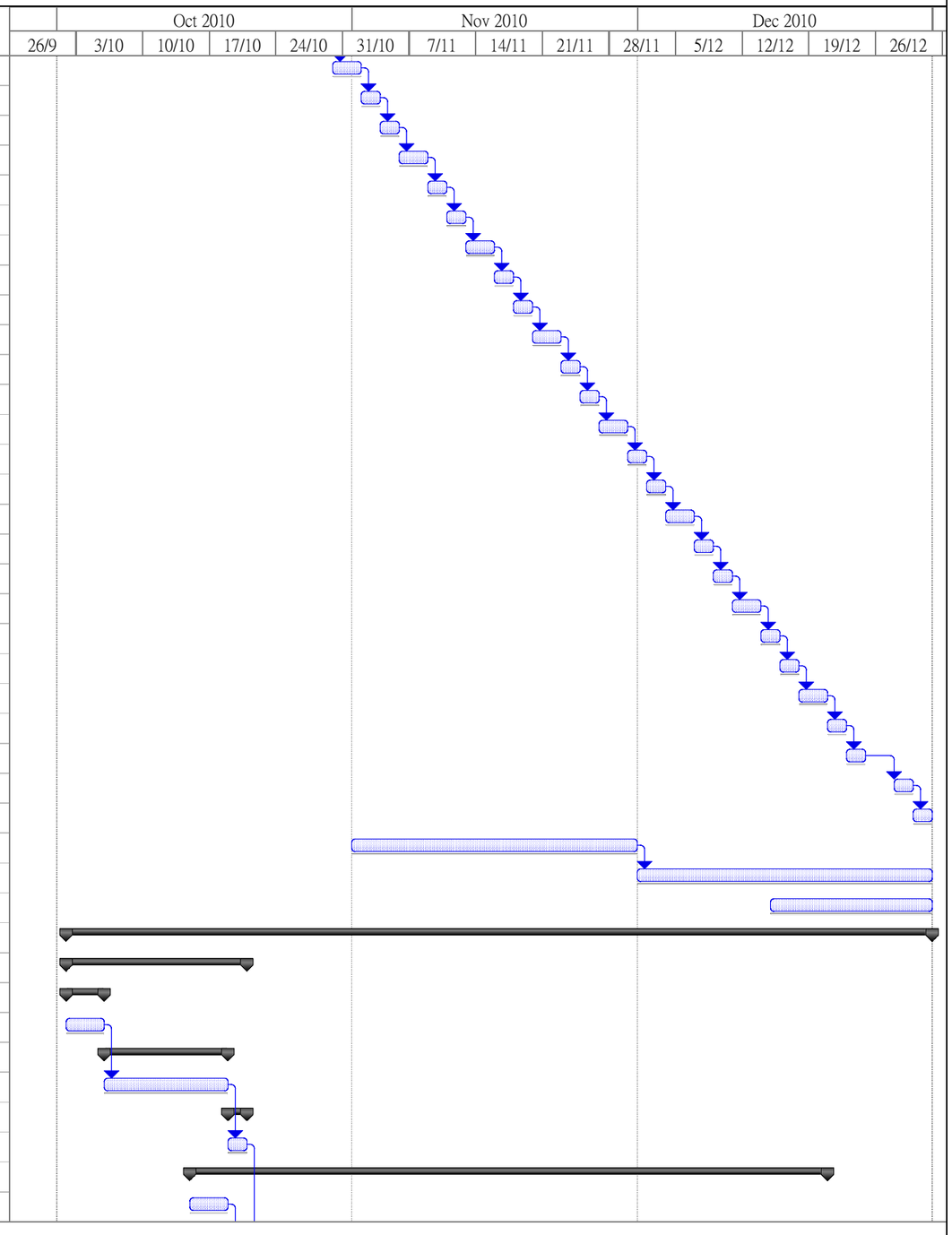
Three Months Rolling Programme - October 2010 to December 2010

ID	Task Name	Duration	Start	Finish
40	Bay A11 (A CH84.25 - A CH96.57) - TG2	2 days	2010/10/30	2010/11/1
41	Bay A12 (A CH96.57 - A CH107.46) - TG2	2 days	2010/11/2	2010/11/3
42	Bay A13 (A CH107.46 - A CH119.62) - TG2	2 days	2010/11/4	2010/11/5
43	Bay A14 (A CH119.62 - A CH131.78) - TG2	2 days	2010/11/6	2010/11/8
44	Bay A15 (A CH131.78 - A CH143.92) - TG2	2 days	2010/11/9	2010/11/10
45	Bay A16 (A CH143.92 - A CH156.08) - TG2	2 days	2010/11/11	2010/11/12
46	Bay A17 (A CH156.08 - A CH167.00) - TG2	2 days	2010/11/13	2010/11/15
47	Bay A18 (A CH167.00 - A CH179.97) - TG2	2 days	2010/11/16	2010/11/17
48	Bay A19 (A CH179.97 - A CH190.69) - TG2	2 days	2010/11/18	2010/11/19
49	Bay A20 (A CH190.69 - A CH201.41) - TG2	2 days	2010/11/20	2010/11/22
50	Bay A21 (A CH201.41 - A CH213.44) - TG2	2 days	2010/11/23	2010/11/24
51	Bay A22 (A CH213.44 - A CH225.47) - TG2	2 days	2010/11/25	2010/11/26
52	Bay A23 (A CH225.47 - A CH237.50) - TG2	2 days	2010/11/27	2010/11/29
53	Bay A24 (A CH237.50 - A CH244.23) - TG2	2 days	2010/11/30	2010/12/1
54	Bay A25 (A CH244.23 - A CH257.09) - TG2	2 days	2010/12/2	2010/12/3
55	Bay A26 (A CH257.09 - A CH269.95) - TG2	2 days	2010/12/4	2010/12/6
56	Bay A27 (A CH269.95 - A CH282.43) - TG6	2 days	2010/12/7	2010/12/8
57	Bay A28 (A CH282.43 - A CH294.59) - TG6	2 days	2010/12/9	2010/12/10
58	Bay A29 (A CH294.59 - A CH306.75) - TG6	2 days	2010/12/11	2010/12/13
59	Bay A30 (A CH306.75 - A CH318.91) - TG6	2 days	2010/12/14	2010/12/15
60	Bay A31 (A CH318.91 - A CH331.09) - TG6	2 days	2010/12/16	2010/12/17
61	Bay A32 (A CH331.09 - A CH343.21) - Transition	2 days	2010/12/18	2010/12/20
62	Bay A33 (A CH343.21 - A CH359.26) - Transition	2 days	2010/12/21	2010/12/22
63	Bay A34 (A CH359.26 - A CH374.28)	2 days	2010/12/23	2010/12/24
64	Bay A35 (A CH374.28 - A CH389.29)	2 days	2010/12/28	2010/12/29
65	Bay A36 (A CH389.29 - A CH400.18)	2 days	2010/12/30	2010/12/31
66	Construction of Ramp No.2	26 days	2010/11/1	2010/11/30
67	Construction of vehicular access (A CH200.00 - A CH400.00) - East Bank	25 days	2010/12/1	2010/12/31
68	Installation of traffic sign plate / railing / street furniture	13 days	2010/12/15	2010/12/31
69	**Section of Box Culvert BC13-1**	**75 days**	**2010/10/2**	**2010/12/31**
70	**Construct box culvert (BC CH0.00 - BC CH386.00)**	**15 days**	**2010/10/2**	**2010/10/20**
71	**Excavation for box culvert formation & laying of rock fill material**	**3 days**	**2010/10/2**	**2010/10/5**
72	Bay BC5 (BC CH61.97 - BC CH46.95)	3 days	2010/10/2	2010/10/5
73	**Construction of box culvert**	**10 days**	**2010/10/6**	**2010/10/18**
74	Bay BC5 (BC CH61.97 - BC CH46.95)	10 days	2010/10/6	2010/10/18
75	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**2 days**	**2010/10/19**	**2010/10/20**
76	Bay BC5 (BC CH61.97 - BC CH46.95)	2 days	2010/10/19	2010/10/20
77	**Construction of catchpit / manhole / drain pipe along channel sides**	**56 days**	**2010/10/15**	**2010/12/20**
78	Bay BC29 (BC CH383.63 - BC CH371.47)	2 days	2010/10/15	2010/10/18



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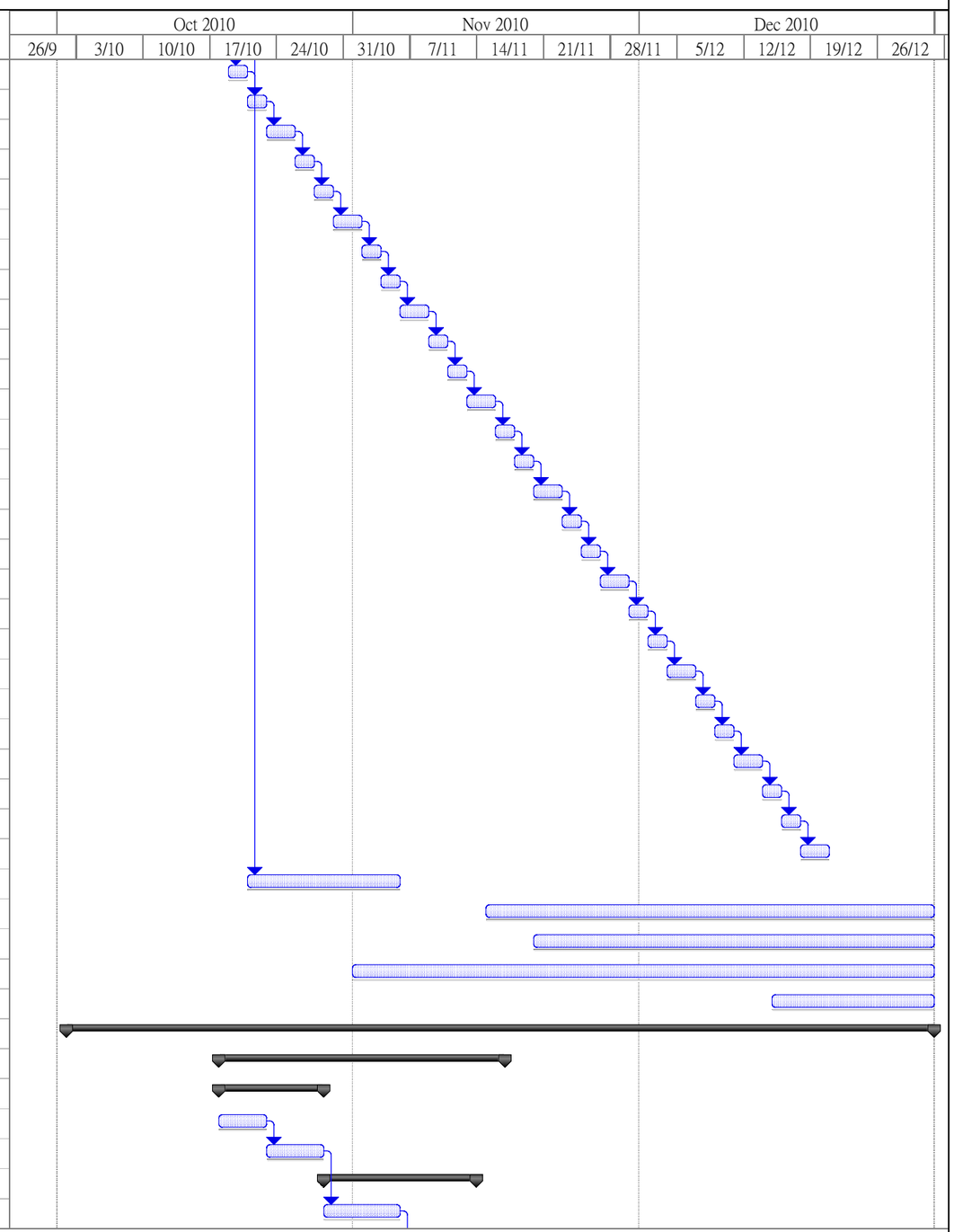
Three Months Rolling Programme - October 2010 to December 2010

ID	Task Name	Duration	Start	Finish
79	Bay BC28 (BC CH371.47 - BC CH362.70)	2 days	2010/10/19	2010/10/20
80	Bay BC27 (BC CH362.70 - BC CH348.11)	2 days	2010/10/21	2010/10/22
81	Bay BC26 (BC CH348.11 - BC CH333.53)	2 days	2010/10/23	2010/10/25
82	Bay BC25 (BC CH333.53 - BC CH318.82)	2 days	2010/10/26	2010/10/27
83	Bay BC24 (BC CH318.82 - BC CH304.34)	2 days	2010/10/28	2010/10/29
84	Bay BC23 (BC CH304.34 - BC CH289.87)	2 days	2010/10/30	2010/11/1
85	Bay BC22 (BC CH289.87 - BC CH275.39)	2 days	2010/11/2	2010/11/3
86	Bay BC21 (BC CH275.39 - BC CH260.81)	2 days	2010/11/4	2010/11/5
87	Bay BC20 (BC CH260.81 - BC CH245.97)	2 days	2010/11/6	2010/11/8
88	Bay BC19 (BC CH245.97 - BC CH231.13)	2 days	2010/11/9	2010/11/10
89	Bay BC18 (BC CH231.13 - BC CH216.21)	2 days	2010/11/11	2010/11/12
90	Bay BC17 (BC CH216.21 - BC CH201.97)	2 days	2010/11/13	2010/11/15
91	Bay BC16 (BC CH201.97 - BC CH196.48)	2 days	2010/11/16	2010/11/17
92	Bay BC15 (BC CH196.48 - BC CH184.94)	2 days	2010/11/18	2010/11/19
93	Bay BC14 (BC CH184.94 - BC CH170.20)	2 days	2010/11/20	2010/11/22
94	Bay BC13 (BC CH170.20 - BC CH155.56)	2 days	2010/11/23	2010/11/24
95	Bay BC12 (BC CH155.56 - BC CH140.65)	2 days	2010/11/25	2010/11/26
96	Bay BC11 (BC CH140.65 - BC CH125.76)	2 days	2010/11/27	2010/11/29
97	Bay BC10 (BC CH125.76 - BC CH118.71)	2 days	2010/11/30	2010/12/1
98	Bay BC9 (BC CH118.71 - BC CH103.69)	2 days	2010/12/2	2010/12/3
99	Bay BC8 (BC CH103.69 - BC CH88.68)	2 days	2010/12/4	2010/12/6
100	Bay BC7 (BC CH88.68 - BC CH73.68)	2 days	2010/12/7	2010/12/8
101	Bay BC6 (BC CH73.68 - BC CH58.95)	2 days	2010/12/9	2010/12/10
102	Bay BC5 (BC CH58.95 - BC CH46.95)	2 days	2010/12/11	2010/12/13
103	Bay BC4 (BC CH46.95 - BC CH32.25)	2 days	2010/12/14	2010/12/15
104	Bay BC3 (BC CH32.25 - BC CH17.23)	2 days	2010/12/16	2010/12/17
105	Bay BC2 (BC CH17.23 - BC CH00.00)	2 days	2010/12/18	2010/12/20
106	Laying of new watermains across Bay A35 & Bay BC4	14 days	2010/10/21	2010/11/5
107	Reprovision of playground (BC CH60.00 - BC CH80.00)	39 days	2010/11/15	2010/12/31
108	Provision of cellular concrete paving at BC CH110.00 - BC CH250.00	34 days	2010/11/20	2010/12/31
109	Construction of Maintenance Access on the top of Box Culvert	51 days	2010/11/1	2010/12/31
110	Installation of traffic sign plate / railing street / furniture	13 days	2010/12/15	2010/12/31
111	**Section B**	**75 days**	**2010/10/2**	**2010/12/31**
112	**Construction of Transition (Bay B1 & Bay B2)**	**26 days**	**2010/10/18**	**2010/11/16**
113	**Excavation for channel formation & laying of rock fill material**	**10 days**	**2010/10/18**	**2010/10/28**
114	Bay B2 (B CH07.00 - B CH14.00) - Transition	5 days	2010/10/18	2010/10/22
115	Bay B1 (B CH00.00 - B CH07.00) - Transition	5 days	2010/10/23	2010/10/28
116	**Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)**	**14 days**	**2010/10/29**	**2010/11/13**
117	Bay B2 (B CH07.00 - B CH14.00) - Transition	7 days	2010/10/29	2010/11/5



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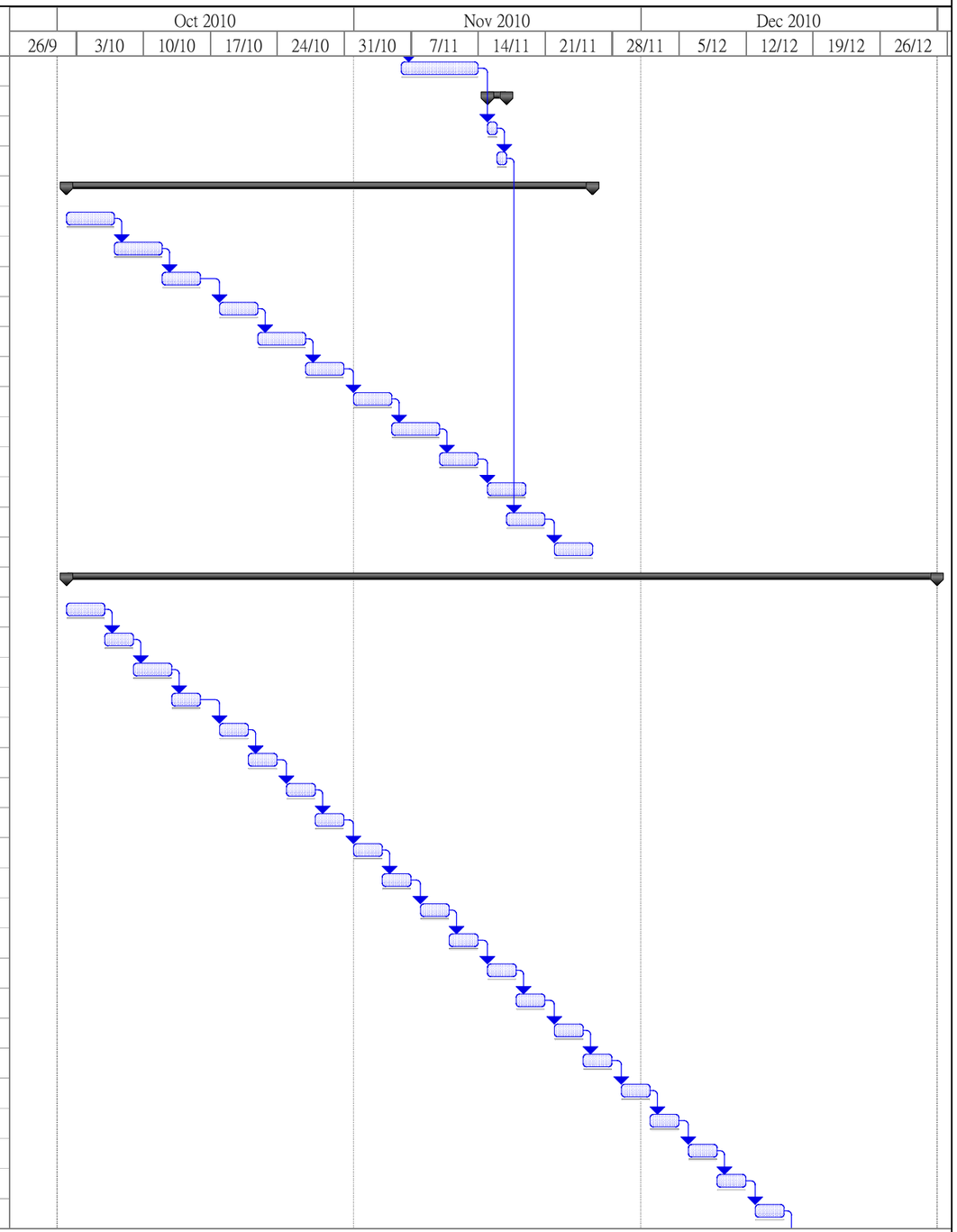
Three Months Rolling Programme - October 2010 to December 2010

ID	Task Name	Duration	Start	Finish
118	Bay B1 (B CH00.00 - B CH07.00) - Transition	7 days	2010/11/6	2010/11/13
119	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**2 days**	**2010/11/15**	**2010/11/16**
120	Bay B2 (B CH07.00 - B CH14.00) - Transition	1 day	2010/11/15	2010/11/15
121	Bay B1 (B CH00.00 - B CH07.00) - Transition	1 day	2010/11/16	2010/11/16
122	**Laying gabion block / granite block inside the channel**	**46 days**	**2010/10/2**	**2010/11/25**
123	Bay B22 (B CH212.00 - B CH224.00) - TG5	4 days	2010/10/2	2010/10/6
124	Bay B21 (B CH200.00 - B CH212.00) - TG8	4 days	2010/10/7	2010/10/11
125	Bay B20 (B CH188.00 - B CH200.00) - TG8	4 days	2010/10/12	2010/10/15
126	Bay B19 (B CH174.00 - B CH188.00) - TG8	4 days	2010/10/18	2010/10/21
127	Bay B18 (B CH162.00 - B CH174.00) - TG8	4 days	2010/10/22	2010/10/26
128	Bay B5 (B CH34.00 - B CH46.00) - TG3	4 days	2010/10/27	2010/10/30
129	Bay B4 (B CH24.00 - B CH34.00) - TG3	4 days	2010/11/1	2010/11/4
130	Bay B3 (B CH14.00 - B CH24.00) - TG3	4 days	2010/11/5	2010/11/9
131	Bay B4 (B CH24.00 - B CH34.00) - TG3	4 days	2010/11/10	2010/11/13
132	Bay B3 (B CH14.00 - B CH24.00) - TG3	4 days	2010/11/15	2010/11/18
133	Bay B2 (B CH07.00 - B CH14.00) - Transition	4 days	2010/11/17	2010/11/20
134	Bay B1 (B CH00.00 - B CH07.00) - Transition	4 days	2010/11/22	2010/11/25
135	**Construction of catchpit / manhole / drain pipe along channel sides**	**75 days**	**2010/10/2**	**2010/12/31**
136	Bay B30 (B CH302.00 - B CH312.00) - Transition	3 days	2010/10/2	2010/10/5
137	Bay B29 (B CH294.00 - B CH302.00) - Transition	3 days	2010/10/6	2010/10/8
138	Bay B28 (B CH282.00 - B CH294.00) - TG4	3 days	2010/10/9	2010/10/12
139	Bay B27 (B CH270.00 - B CH282.00) - TG4	3 days	2010/10/13	2010/10/15
140	Bay B26 (B CH260.00 - B CH270.00) - TG4	3 days	2010/10/18	2010/10/20
141	Bay B25 (B CH248.00 - B CH260.00) - TG5	3 days	2010/10/21	2010/10/23
142	Bay B24 (B CH236.00 - B CH248.00) - TG5	3 days	2010/10/25	2010/10/27
143	Bay B23 (B CH224.00 - B CH236.00) - TG5	3 days	2010/10/28	2010/10/30
144	Bay B22 (B CH212.00 - B CH224.00) - TG5	3 days	2010/11/1	2010/11/3
145	Bay B21 (B CH200.00 - B CH212.00) - TG8	3 days	2010/11/4	2010/11/6
146	Bay B20 (B CH188.00 - B CH200.00) - TG8	3 days	2010/11/8	2010/11/10
147	Bay B19 (B CH174.00 - B CH188.00) - TG8	3 days	2010/11/11	2010/11/13
148	Bay B18 (B CH162.00 - B CH174.00) - TG8	3 days	2010/11/15	2010/11/17
149	Bay B17 (B CH154.00 - B CH162.00) - Transition	3 days	2010/11/18	2010/11/20
150	Bay B16 (B CH147.00 - B CH154.00) - Transition	3 days	2010/11/22	2010/11/24
151	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	3 days	2010/11/25	2010/11/27
152	Bay B14 (B CH137.00 - B CH144.00) - Transition	3 days	2010/11/29	2010/12/1
153	Bay B13 (B CH129.00 - B CH137.00) - Transition	3 days	2010/12/2	2010/12/4
154	Bay B12 (B CH119.00 - B CH129.00) - TG3	3 days	2010/12/6	2010/12/8
155	Bay B11 (B CH107.00 - B CH119.00) - TG3	3 days	2010/12/9	2010/12/11
156	Bay B10 (B CH94.00 - B CH107.00) - TG3	3 days	2010/12/13	2010/12/15



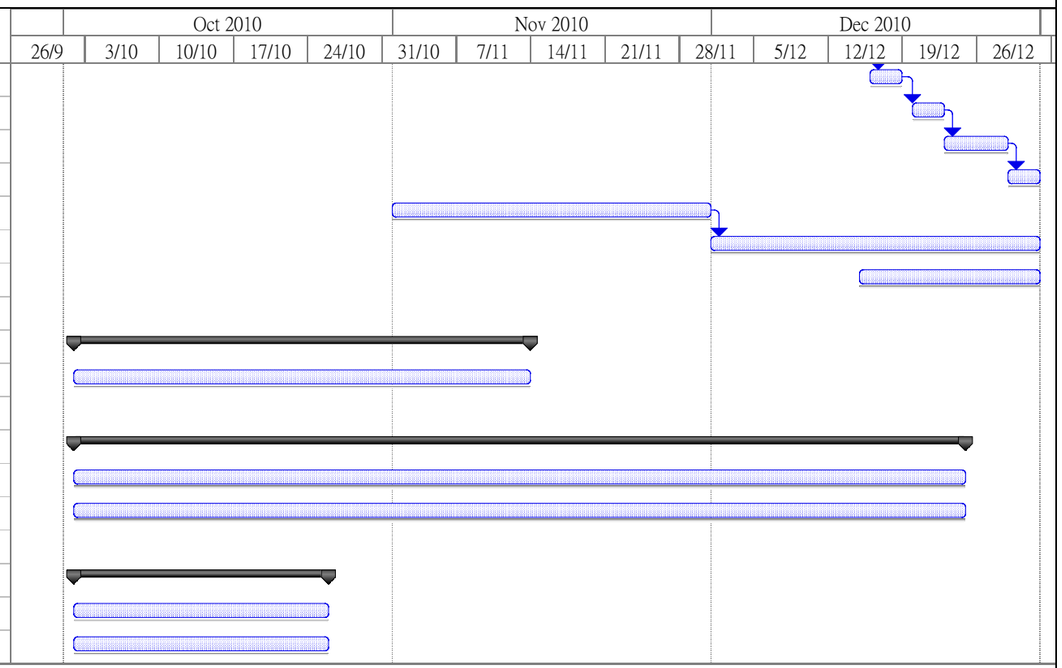
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - October 2010 to December 2010

ID	Task Name	Duration	Start	Finish
157	Bay B9 (B CH80.00 - B CH94.00) - TG3	3 days	2010/12/16	2010/12/18
158	Bay B8 (B CH68.00 - B CH80.00) - TG3	3 days	2010/12/20	2010/12/22
159	Bay B7 (B CH57.00 - B CH68.00) - TG3	3 days	2010/12/23	2010/12/28
160	Bay B6 (B CH46.00 - B CH57.00) - TG3	3 days	2010/12/29	2010/12/31
161	Construction of Ramp No.1	26 days	2010/11/1	2010/11/30
162	Construct 3.5m access road at B CH14.00 - B CH94.00 (North Bank)	25 days	2010/12/1	2010/12/31
163	Installation of traffic sign plate / Street furniture	13 days	2010/12/15	2010/12/31
164				
165	**Section V**	**36 days**	**2010/10/2**	**2010/11/13**
166	Preservation and protection of tree for Section I, II, III and IV	36 days	2010/10/2	2010/11/13
167				
168	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**71 days**	**2010/10/2**	**2010/12/24**
169	Structural Survey and Monitoring	71 days	2010/10/2	2010/12/24
170	Construction of Manhole, Timber Box and Trench Excavation	71 days	2010/10/2	2010/12/24
171				
172	**Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)**	**19 days**	**2010/10/2**	**2010/10/25**
173	Structural Survey and Monitoring	19 days	2010/10/2	2010/10/25
174	Construction of Manhole, Timber Box and Trench Excavation	19 days	2010/10/2	2010/10/25



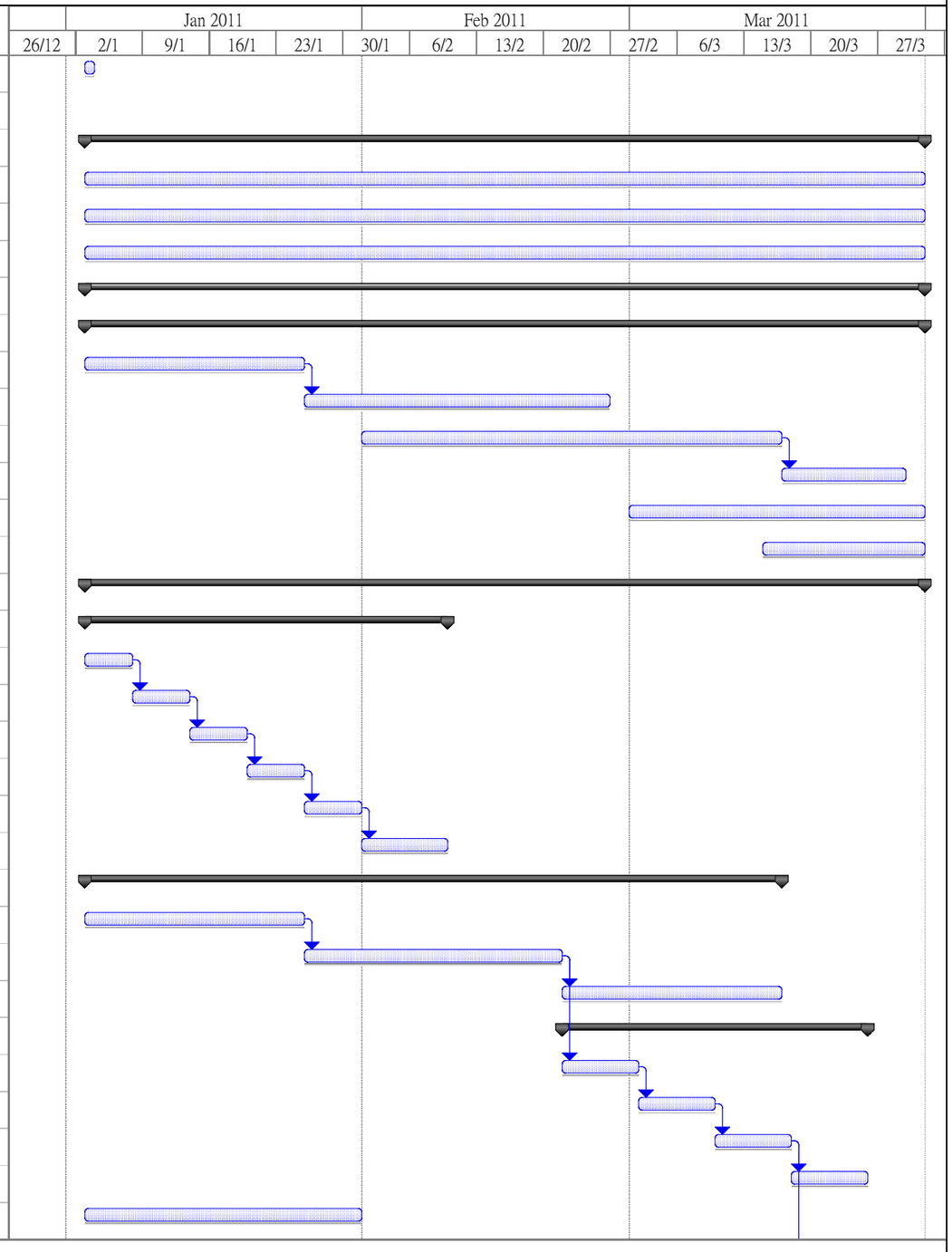
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - January 2011 to March 2011

ID	Task Name	Duration	Start	Finish
1	EOT was granted up to 30 September 2010	1 day	2011/1/3	2011/1/3
2				
3	**Section II (Channel KT13)**	**73 days**	**2011/1/3**	**2011/3/31**
4	**Regular Environmental Impact Monitoring**	73 days	2011/1/3	2011/3/31
5	**Regular Tree Survey & Protection**	73 days	2011/1/3	2011/3/31
6	**Regular Structural Condition Survey**	73 days	2011/1/3	2011/3/31
7	**Section A**	**73 days**	**2011/1/3**	**2011/3/31**
8	**Construction of Dry Weather Flow Channel**	**73 days**	**2011/1/3**	**2011/3/31**
9	Break Up the Existing Base Slab of Transition & Crossing	20 days	2011/1/3	2011/1/25
10	Removal of Existing Gabion Lining at Section A	25 days	2011/1/26	2011/2/26
11	Construction of Dry Flow Channel along Gabion Lining	35 days	2011/2/1	2011/3/16
12	Construction of Dry Flow Channel (Transition & Crossing)	11 days	2011/3/17	2011/3/29
13	Re-installation of Gabion Lining along Dry Flow Channel	27 days	2011/3/1	2011/3/31
14	Construction of Ramp No.2	15 days	2011/3/15	2011/3/31
15	**Section of Box Culvert BC13-1**	**73 days**	**2011/1/3**	**2011/3/31**
16	**Construction of catchpit / manhole / drain pipe along channel sides**	**30 days**	**2011/1/3**	**2011/2/9**
17	Bay BC7 (BC CH88.68 - BC CH73.68)	5 days	2011/1/3	2011/1/7
18	Bay BC6 (BC CH73.68 - BC CH58.95)	5 days	2011/1/8	2011/1/13
19	Bay BC5 (BC CH58.95 - BC CH46.95)	5 days	2011/1/14	2011/1/19
20	Bay BC4 (BC CH46.95 - BC CH32.25)	5 days	2011/1/20	2011/1/25
21	Bay BC3 (BC CH32.25 - BC CH17.23)	5 days	2011/1/26	2011/1/31
22	Bay BC2 (BC CH17.23 - BC CH00.00)	5 days	2011/2/1	2011/2/9
23	**Construction of 3.5m access road on top of box culvert (BC CH0.00 - BC CH384.00)**	**60 days**	**2011/1/3**	**2011/3/16**
24	Bay 3 (BC CH200.00 - BC CH300.00)	20 days	2011/1/3	2011/1/25
25	Bay 2 (BC CH100.00 - BC CH200.00)	20 days	2011/1/26	2011/2/21
26	Bay 1 (BC CH0.00 - BC CH100.00)	20 days	2011/2/22	2011/3/16
27	**Installation of chain link fence on top of box culvert (BC CH0.00 - BC CH384.00)**	**28 days**	**2011/2/22**	**2011/3/25**
28	BC CH300.00 - BC CH384.00	7 days	2011/2/22	2011/3/1
29	BC CH200.00 - BC CH300.00	7 days	2011/3/2	2011/3/9
30	BC CH100.00 - BC CH200.00	7 days	2011/3/10	2011/3/17
31	BC CH0.00 - BC CH100.00	7 days	2011/3/18	2011/3/25
32	Reprovision of playground (BC CH60.00 - BC CH80.00)	25 days	2011/1/3	2011/1/31



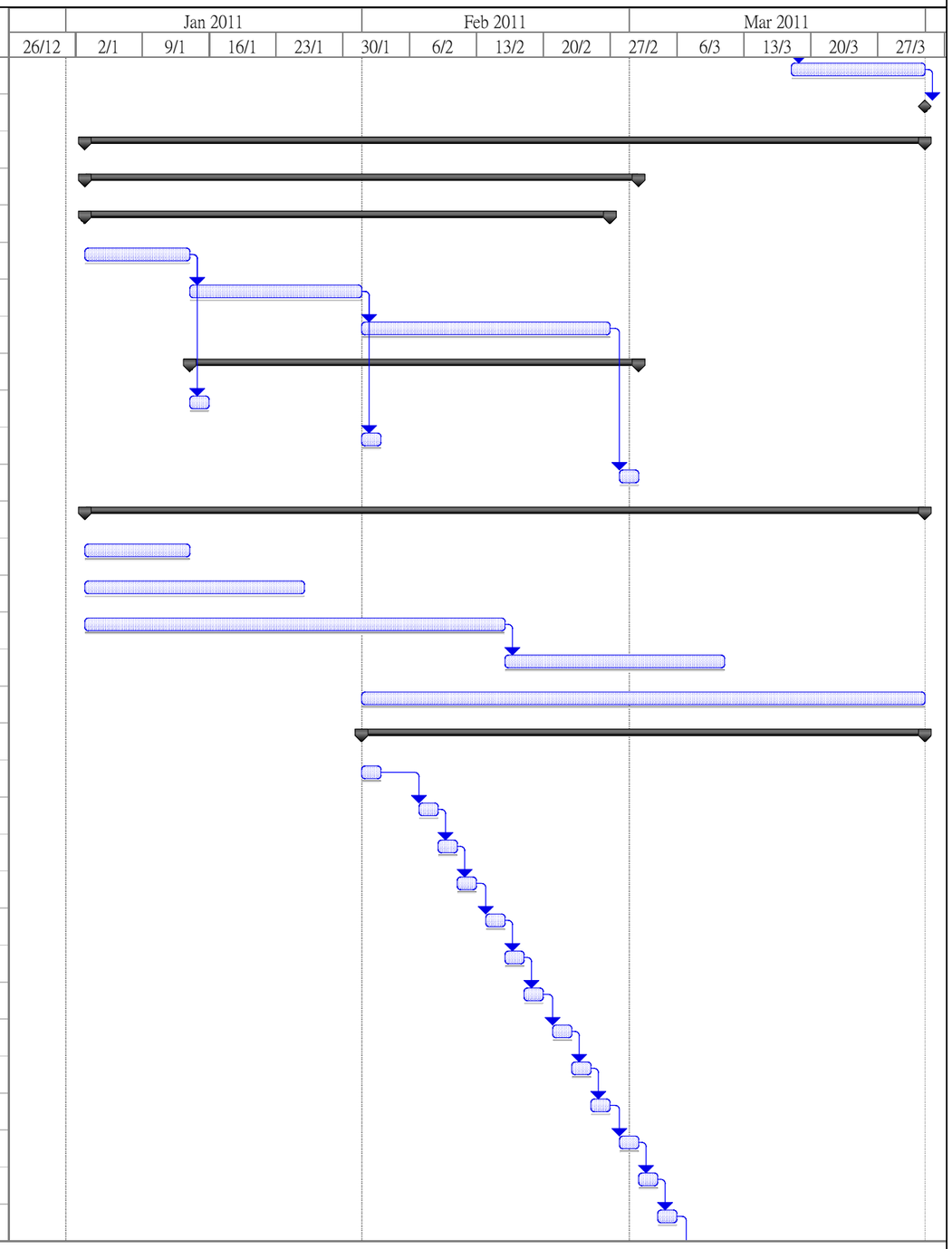
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - January 2011 to March 2011

ID	Task Name	Duration	Start	Finish
33	Installation of traffic sign plate / railing street / furniture	12 days	2011/3/18	2011/3/31
34	Completion of Section of Box Culvert	0 days	2011/3/31	2011/3/31
35	**Section B**	**73 days**	**2011/1/3**	**2011/3/31**
36	**Construction of New Box Culvert at Upstream**	**47 days**	**2011/1/3**	**2011/3/1**
37	**Construction of channel structure**	**45 days**	**2011/1/3**	**2011/2/26**
38	New Box Culvert	10 days	2011/1/3	2011/1/13
39	Inlet Structure	15 days	2011/1/14	2011/1/31
40	Modification of Transition (Bay B30)	20 days	2011/2/1	2011/2/26
41	**Backfilling the sides of channel structure & Laying of underground drain pipe**	**37 days**	**2011/1/14**	**2011/3/1**
42	New Box Culvert	2 days	2011/1/14	2011/1/15
43	Inlet Structure	2 days	2011/2/1	2011/2/2
44	Modification of Transition (Bay B30)	2 days	2011/2/28	2011/3/1
45	**Construction of Dry Weather Flow Channel**	**73 days**	**2011/1/3**	**2011/3/31**
46	Break Up the Existing Base Slab of Transition & Crossing	10 days	2011/1/3	2011/1/13
47	Removal of Existing Gabion Lining at Section B	20 days	2011/1/3	2011/1/25
48	Construction of Dry Flow Channel along Gabion Lining	35 days	2011/1/3	2011/2/15
49	Construction of Dry Flow Channel (Transition & Crossing)	20 days	2011/2/16	2011/3/10
50	Re-installation of Gabion Lining along Dry Flow Channel	48 days	2011/2/1	2011/3/31
51	**Construction of catchpit / manhole / drain pipe along channel sides**	**48 days**	**2011/2/1**	**2011/3/31**
52	Bay B29 (B CH294.00 - B CH302.00) - Transition	2 days	2011/2/1	2011/2/2
53	Bay B28 (B CH282.00 - B CH294.00) - TG4	2 days	2011/2/7	2011/2/8
54	Bay B27 (B CH270.00 - B CH282.00) - TG4	2 days	2011/2/9	2011/2/10
55	Bay B26 (B CH260.00 - B CH270.00) - TG4	2 days	2011/2/11	2011/2/12
56	Bay B25 (B CH248.00 - B CH260.00) - TG5	2 days	2011/2/14	2011/2/15
57	Bay B24 (B CH236.00 - B CH248.00) - TG5	2 days	2011/2/16	2011/2/17
58	Bay B23 (B CH224.00 - B CH236.00) - TG5	2 days	2011/2/18	2011/2/19
59	Bay B22 (B CH212.00 - B CH224.00) - TG5	2 days	2011/2/21	2011/2/22
60	Bay B21 (B CH200.00 - B CH212.00) - TG8	2 days	2011/2/23	2011/2/24
61	Bay B20 (B CH188.00 - B CH200.00) - TG8	2 days	2011/2/25	2011/2/26
62	Bay B19 (B CH174.00 - B CH188.00) - TG8	2 days	2011/2/28	2011/3/1
63	Bay B18 (B CH162.00 - B CH174.00) - TG8	2 days	2011/3/2	2011/3/3
64	Bay B17 (B CH154.00 - B CH162.00) - Transition	2 days	2011/3/4	2011/3/5



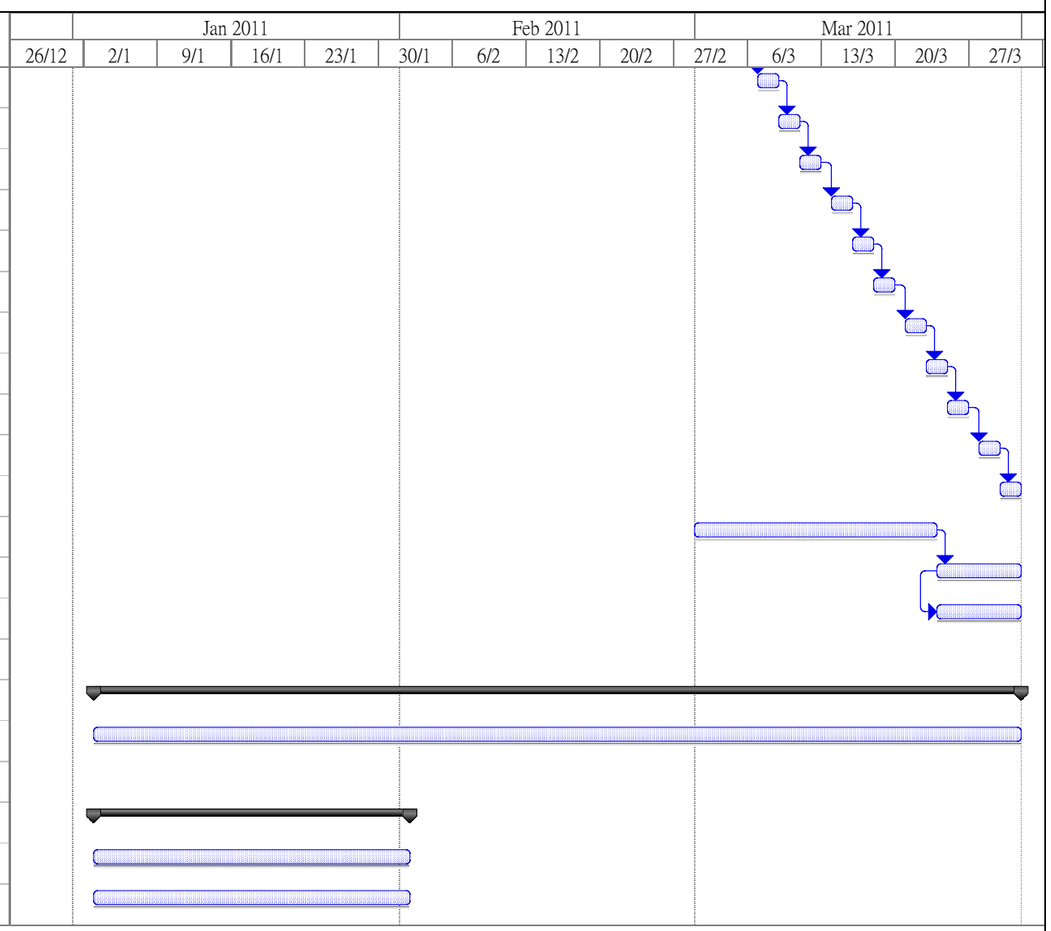
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - January 2011 to March 2011

ID	Task Name	Duration	Start	Finish
65	Bay B16 (B CH147.00 - B CH154.00) - Transition	2 days	2011/3/7	2011/3/8
66	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	2 days	2011/3/9	2011/3/10
67	Bay B14 (B CH137.00 - B CH144.00) - Transition	2 days	2011/3/11	2011/3/12
68	Bay B13 (B CH129.00 - B CH137.00) - Transition	2 days	2011/3/14	2011/3/15
69	Bay B12 (B CH119.00 - B CH129.00) - TG3	2 days	2011/3/16	2011/3/17
70	Bay B11 (B CH107.00 - B CH119.00) - TG3	2 days	2011/3/18	2011/3/19
71	Bay B10 (B CH94.00 - B CH107.00) - TG3	2 days	2011/3/21	2011/3/22
72	Bay B9 (B CH80.00 - B CH94.00) - TG3	2 days	2011/3/23	2011/3/24
73	Bay B8 (B CH68.00 - B CH80.00) - TG3	2 days	2011/3/25	2011/3/26
74	Bay B7 (B CH57.00 - B CH68.00) - TG3	2 days	2011/3/28	2011/3/29
75	Bay B6 (B CH46.00 - B CH57.00) - TG3	2 days	2011/3/30	2011/3/31
76	Construction of Ramp No.1	20 days	2011/3/1	2011/3/23
77	Construct 3.5m access road at B CH14.00 - B CH94.00 (North Bank)	7 days	2011/3/24	2011/3/31
78	Installation of traffic sign plate / Street furniture	7 days	2011/3/24	2011/3/31
79				
80	**Section V**	**73 days**	**2011/1/3**	**2011/3/31**
81	Preservation and protection of tree for Section II and IV	73 days	2011/1/3	2011/3/31
82				
83	**Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)**	**26 days**	**2011/1/3**	**2011/2/1**
84	Structural Survey and Monitoring	26 days	2011/1/3	2011/2/1
85	Construction of Manhole, Timber Box and Trench Excavation	26 days	2011/1/3	2011/2/1



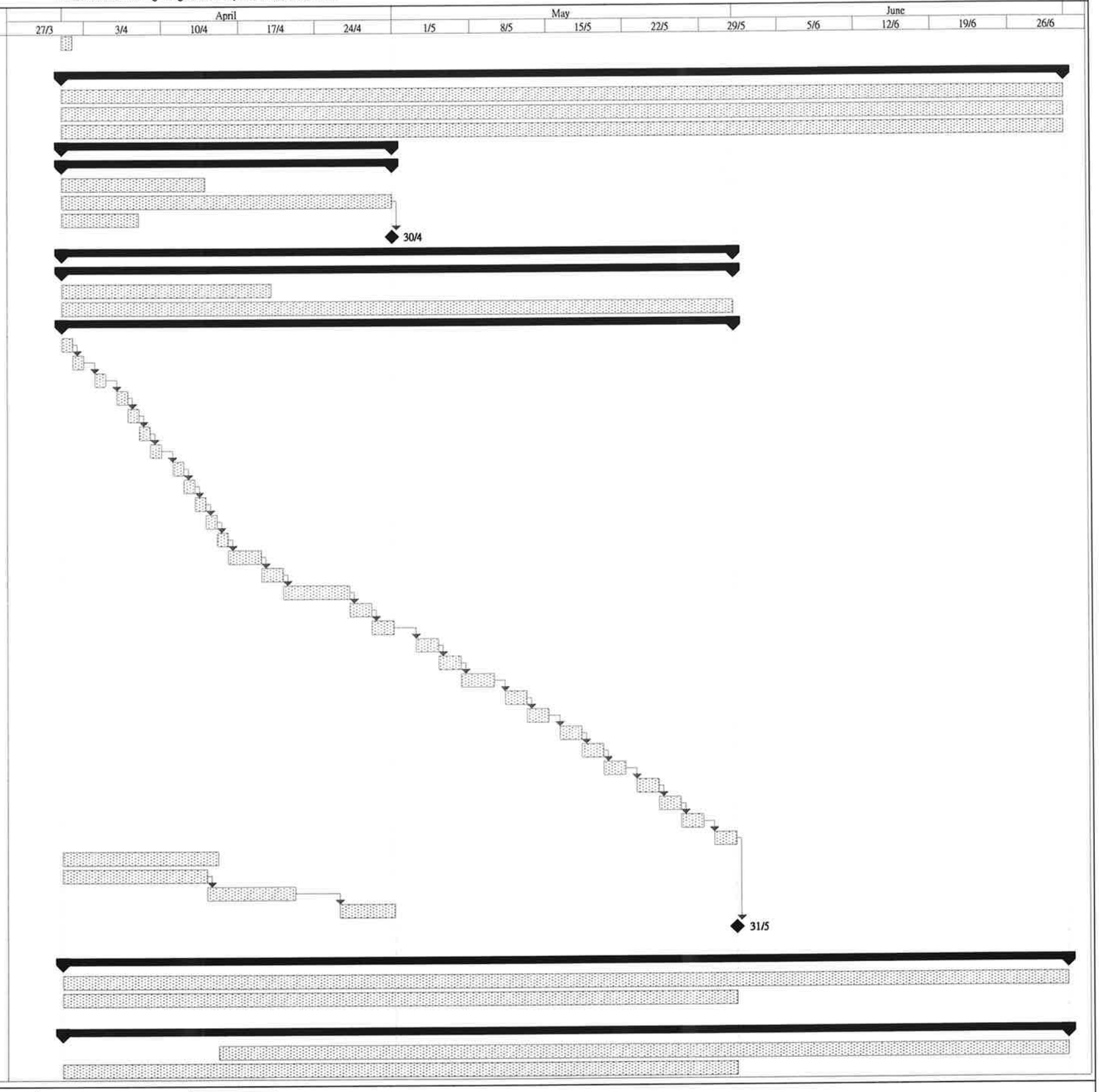
Task Split Progress Milestone Summary

Contract No. : DC/2007/17

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Three Months Rolling Programme - April 2011 to June 2011

ID	Task Name	Duration	Start	Finish
1	EOT was granted up to 31 December 2010	1 day	Fri 1/4/11	Fri 1/4/11
2				
3	**Section II (Channel KT13)**	**71 days**	**Fri 1/4/11**	**Thu 30/6/11**
4	**Regular Environmental Impact Monitoring**	71 days	Fri 1/4/11	Thu 30/6/11
5	**Regular Tree Survey & Protection**	71 days	Fri 1/4/11	Thu 30/6/11
6	**Regular Structural Condition Survey**	71 days	Fri 1/4/11	Thu 30/6/11
7	**Section A**	**22 days**	**Fri 1/4/11**	**Sat 30/4/11**
8	**Installation of Gabion Lining along Gabion Lining (VO-107)**	**22 days**	**Fri 1/4/11**	**Sat 30/4/11**
9	Removal of Existing Gabion Lining at Section A from Bay A17 to Bay A9 (EB)	10 days	Fri 1/4/11	Wed 13/4/11
10	Re-installation of Gabion Lining along Dry Flow Channel from Bay A34 to Bay A9	22 days	Fri 1/4/11	Sat 30/4/11
11	Installation of Traffic Sign Plate / Railing Street / Furniture	5 days	Fri 1/4/11	Thu 7/4/11
12	Completion of Section A of KT13	0 days	Sat 30/4/11	Sat 30/4/11
13	**Section B**	**46 days**	**Fri 1/4/11**	**Tue 31/5/11**
14	**Construction of Dry Weather Flow Channel & Installation of Gabion Lining**	**46 days**	**Fri 1/4/11**	**Tue 31/5/11**
15	Construction of Dry Flow Channel along Gabion Lining from Bay B28 to Bay B3	15 days	Fri 1/4/11	Tue 19/4/11
16	Re-installation of Gabion Lining along Dry Flow Channel from Bay B28 to Bay B3	46 days	Fri 1/4/11	Tue 31/5/11
17	**Construction of Catchpit / Manhole / Drain Pipe along Channel Sides**	**46 days**	**Fri 1/4/11**	**Tue 31/5/11**
18	Bay B29 (B CH294.00 - B CH302.00) - Transition	1 day	Fri 1/4/11	Fri 1/4/11
19	Bay B28 (B CH282.00 - B CH294.00) - TG4	1 day	Sat 2/4/11	Sat 2/4/11
20	Bay B27 (B CH270.00 - B CH282.00) - TG4	1 day	Mon 4/4/11	Mon 4/4/11
21	Bay B26 (B CH260.00 - B CH270.00) - TG4	1 day	Wed 6/4/11	Wed 6/4/11
22	Bay B25 (B CH248.00 - B CH260.00) - TG5	1 day	Thu 7/4/11	Thu 7/4/11
23	Bay B24 (B CH236.00 - B CH248.00) - TG5	1 day	Fri 8/4/11	Fri 8/4/11
24	Bay B23 (B CH224.00 - B CH236.00) - TG5	1 day	Sat 9/4/11	Sat 9/4/11
25	Bay B22 (B CH212.00 - B CH224.00) - TG5	1 day	Mon 11/4/11	Mon 11/4/11
26	Bay B21 (B CH200.00 - B CH212.00) - TG8	1 day	Tue 12/4/11	Tue 12/4/11
27	Bay B20 (B CH188.00 - B CH200.00) - TG8	1 day	Wed 13/4/11	Wed 13/4/11
28	Bay B19 (B CH174.00 - B CH188.00) - TG8	1 day	Thu 14/4/11	Thu 14/4/11
29	Bay B18 (B CH162.00 - B CH174.00) - TG8	1 day	Fri 15/4/11	Fri 15/4/11
30	Bay B17 (B CH154.00 - B CH162.00) - Transition	2 days	Sat 16/4/11	Mon 18/4/11
31	Bay B16 (B CH147.00 - B CH154.00) - Transition	2 days	Tue 19/4/11	Wed 20/4/11
32	Bay B15 (B CH144.00 - B CH147.00) - Transition & Pedestrian Crossing	2 days	Thu 21/4/11	Tue 26/4/11
33	Bay B14 (B CH137.00 - B CH144.00) - Transition	2 days	Wed 27/4/11	Thu 28/4/11
34	Bay B13 (B CH129.00 - B CH137.00) - Transition	2 days	Fri 29/4/11	Sat 30/4/11
35	Bay B12 (B CH119.00 - B CH129.00) - TG3	2 days	Tue 3/5/11	Wed 4/5/11
36	Bay B11 (B CH107.00 - B CH119.00) - TG3	2 days	Thu 5/5/11	Fri 6/5/11
37	Bay B10 (B CH94.00 - B CH107.00) - TG3	2 days	Sat 7/5/11	Mon 9/5/11
38	Bay B9 (B CH80.00 - B CH94.00) - TG3	2 days	Wed 11/5/11	Thu 12/5/11
39	Bay B8 (B CH68.00 - B CH80.00) - TG3	2 days	Fri 13/5/11	Sat 14/5/11
40	Bay B7 (B CH57.00 - B CH68.00) - TG3	2 days	Mon 16/5/11	Tue 17/5/11
41	Bay B6 (B CH46.00 - B CH57.00) - TG3	2 days	Wed 18/5/11	Thu 19/5/11
42	Bay B5 (B CH34.00 - B CH46.00) - TG3	2 days	Fri 20/5/11	Sat 21/5/11
43	Bay B4 (B CH24.00 - B CH34.00) - TG3	2 days	Mon 23/5/11	Tue 24/5/11
44	Bay B3 (B CH14.00 - B CH24.00) - TG3	2 days	Wed 25/5/11	Thu 26/5/11
45	Bay B2 (B CH07.00 - B CH14.00) - Transition	2 days	Fri 27/5/11	Sat 28/5/11
46	Bay B1 (B CH00.00 - B CH07.00) - Transition	2 days	Mon 30/5/11	Tue 31/5/11
47	Hydroseeding & Compensatory Planting	11 days	Fri 1/4/11	Thu 14/4/11
48	Construction of Ramp No.1	10 days	Fri 1/4/11	Wed 13/4/11
49	Construct 3.5m Access Road at B CH14.00 - B CH94.00 (North Bank)	7 days	Thu 14/4/11	Thu 21/4/11
50	Installation of Traffic Sign Plate / Railing Street / Furniture	5 days	Tue 26/4/11	Sat 30/4/11
51	Completion of Section B of KT13	0 days	Tue 31/5/11	Tue 31/5/11
52				
53	**Section V**	**71 days**	**Fri 1/4/11**	**Thu 30/6/11**
54	Preservation and Protection of Tree for Section II	71 days	Fri 1/4/11	Thu 30/6/11
55	Preservation and Protection of Tree at Ma Tong Road	46 days	Fri 1/4/11	Tue 31/5/11
56				
57	**Others**	**71 days**	**Fri 1/4/11**	**Thu 30/6/11**
58	Installation of Retro-reflective Identification Tags in Manholes at Tseng Tau Chung Tsuen	60 days	Fri 15/4/11	Thu 30/6/11
59	Rehabilitation Works for Existing Sewerage at Leung Tin Tsuen	46 days	Fri 1/4/11	Tue 31/5/11

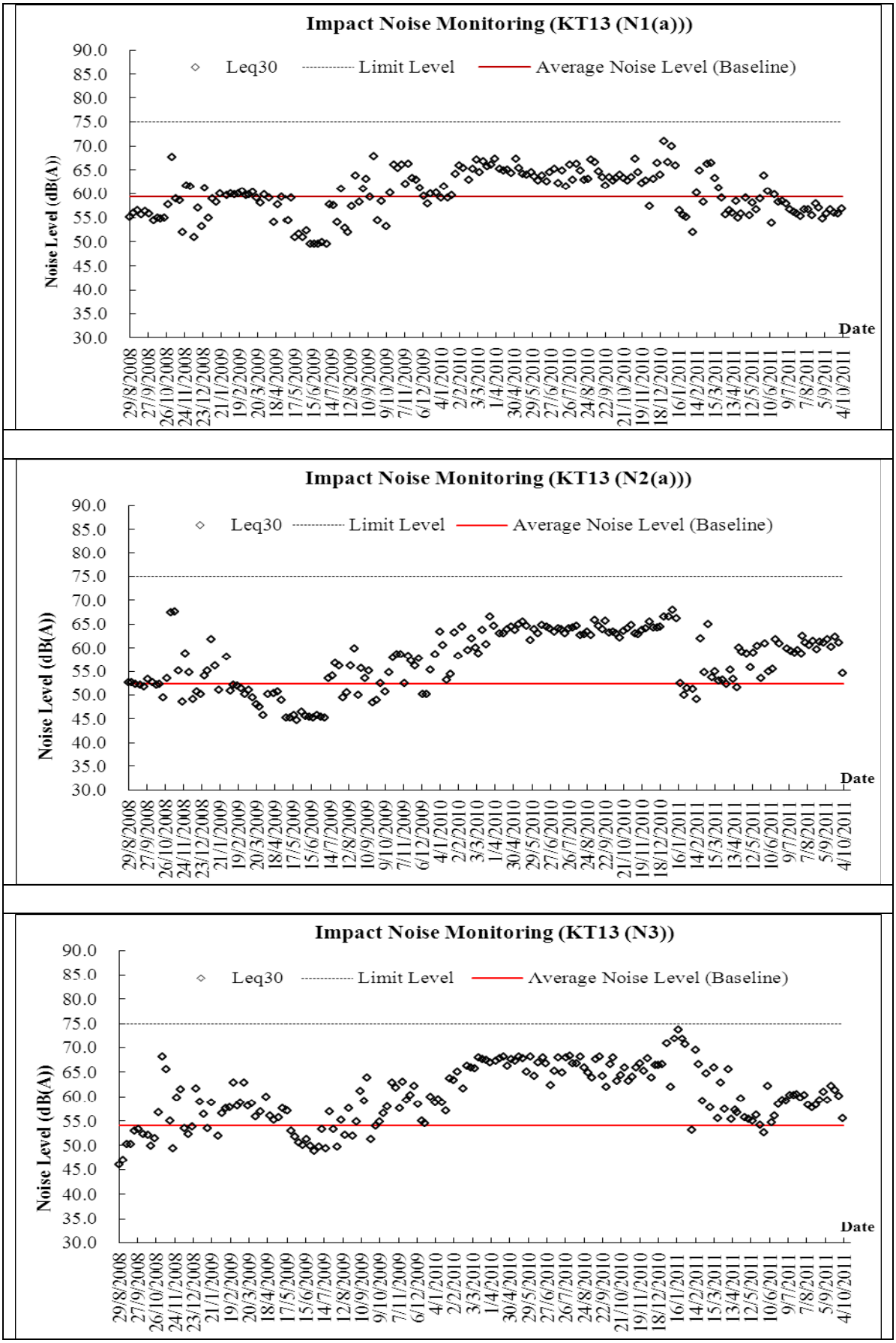


Task Split Progress Milestone Summary

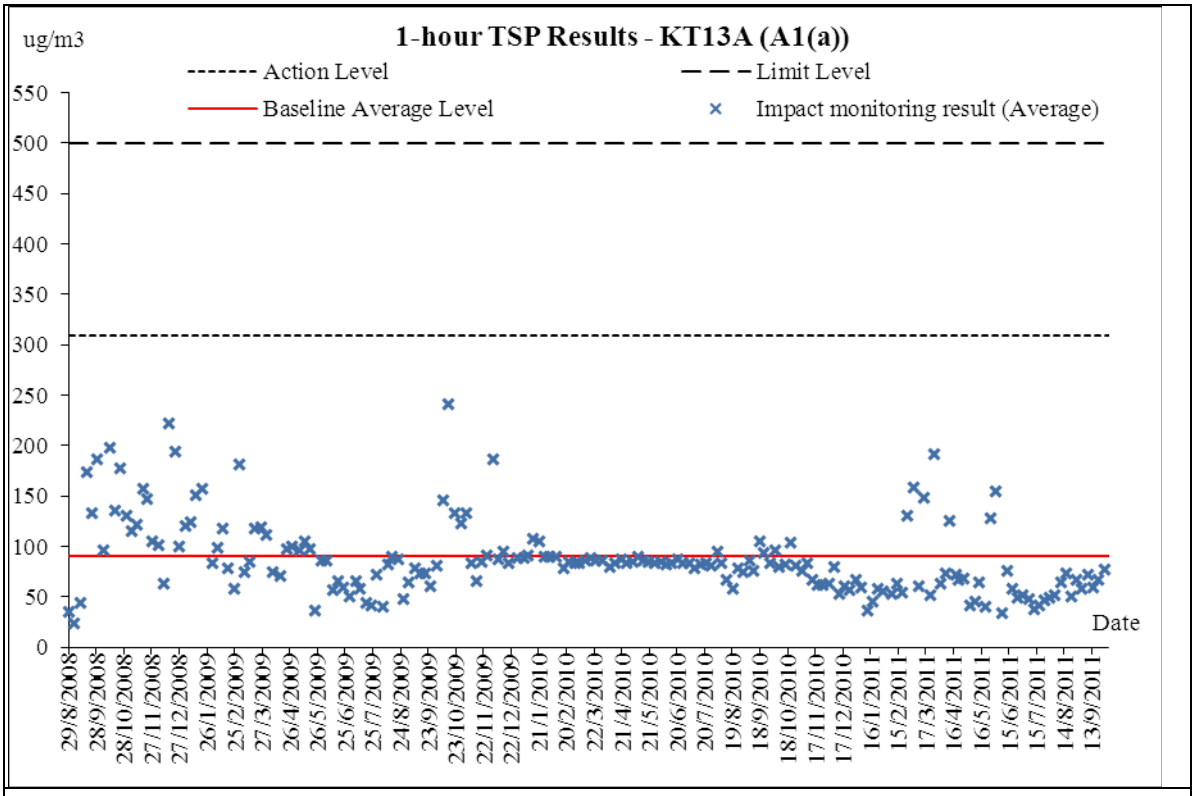
Appendix D

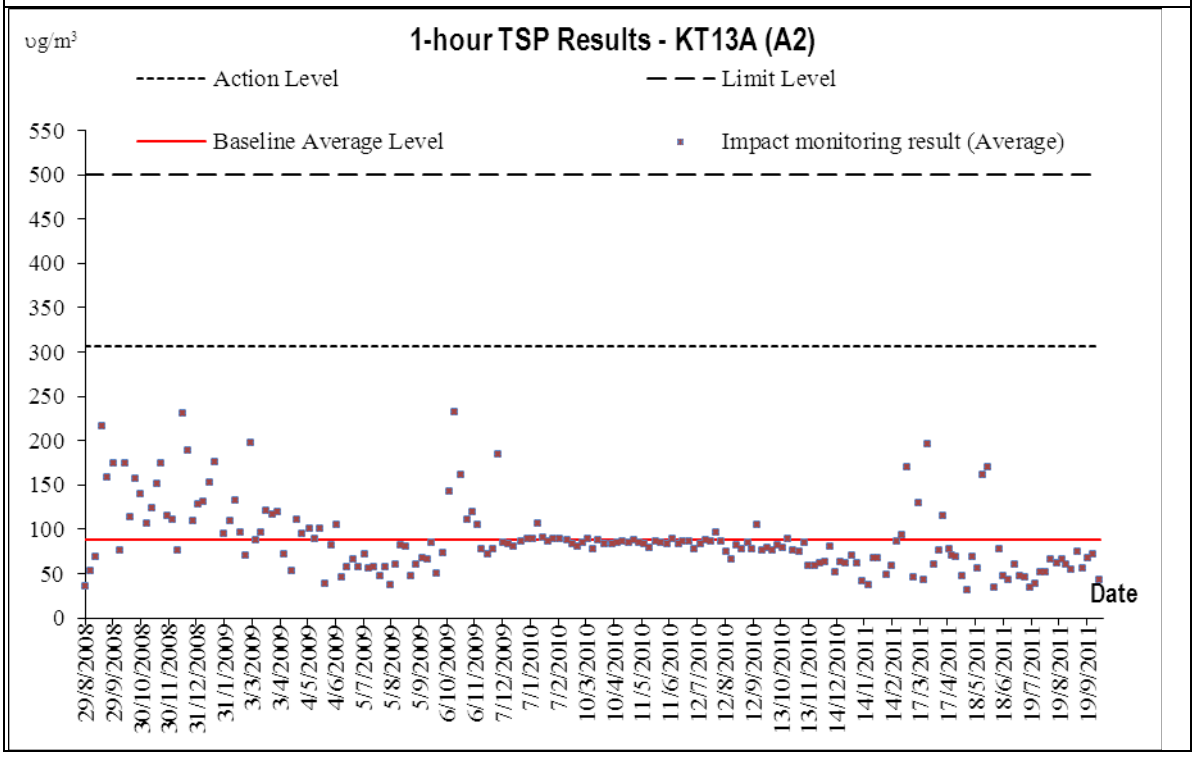
Graphical Plots

Graphical Plots for Construction Noise

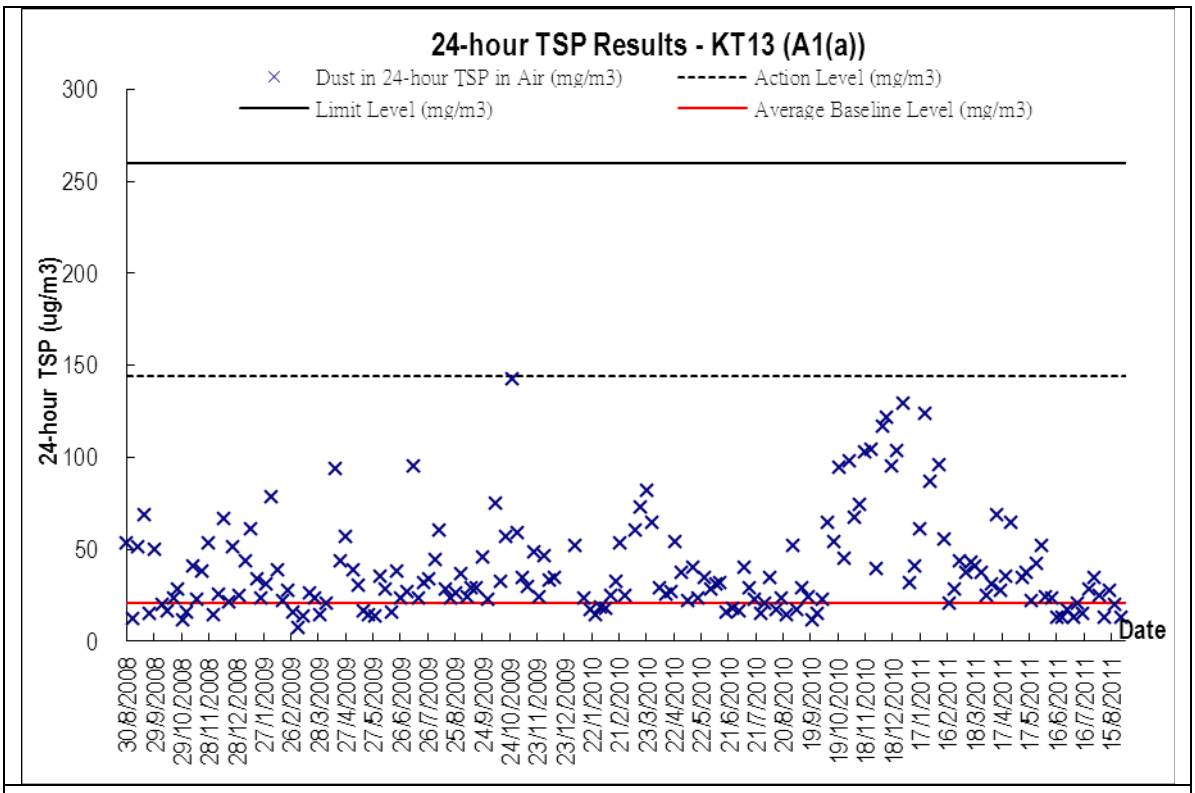


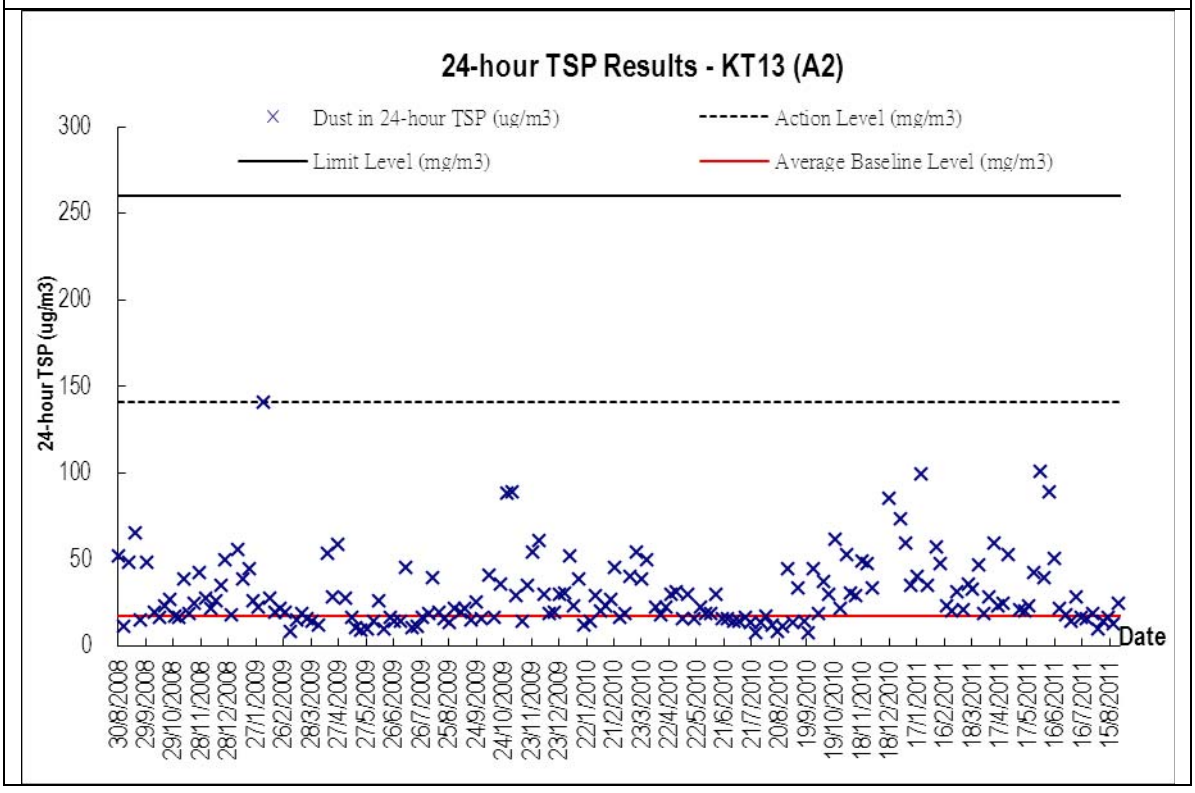
Graphical plots for 1-hour TSP Monitoring



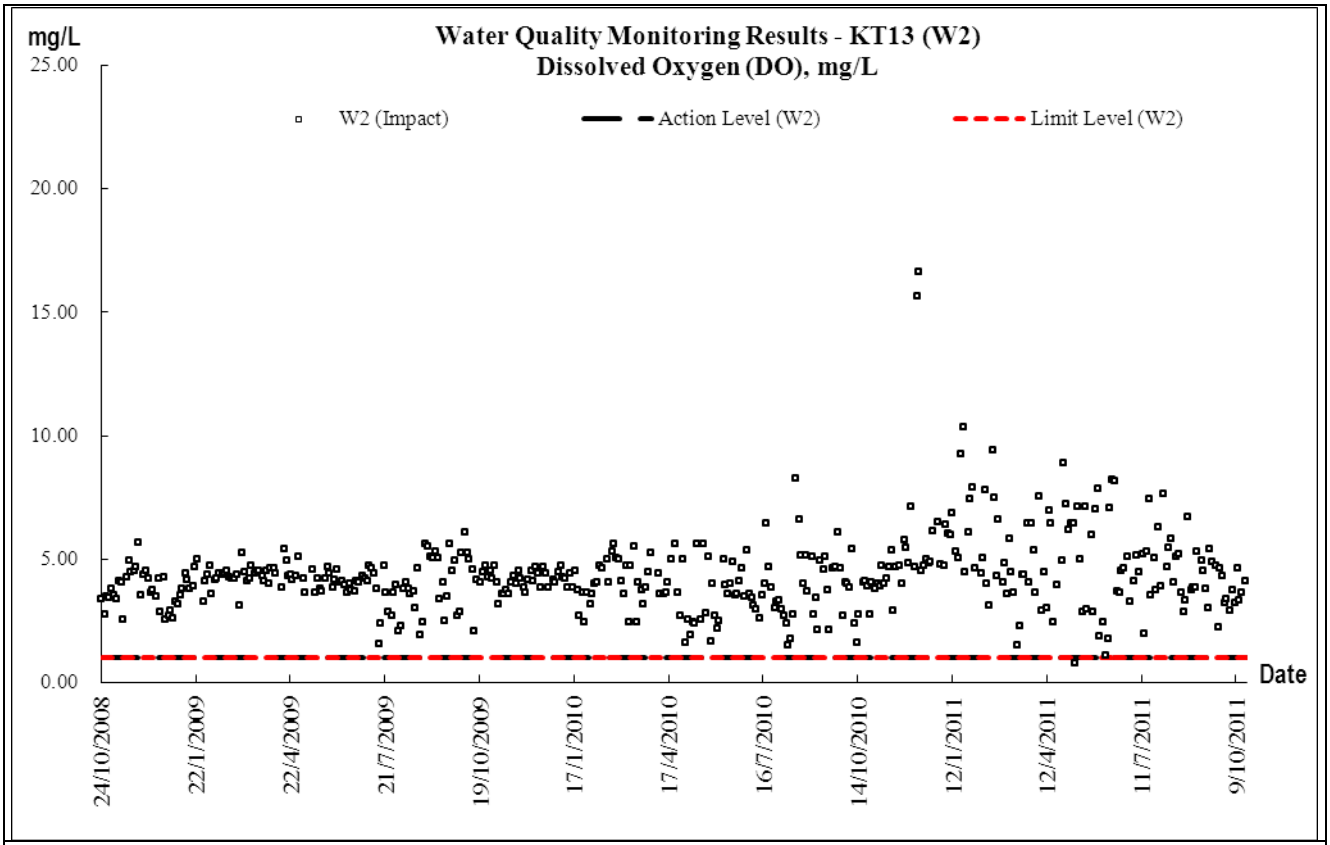


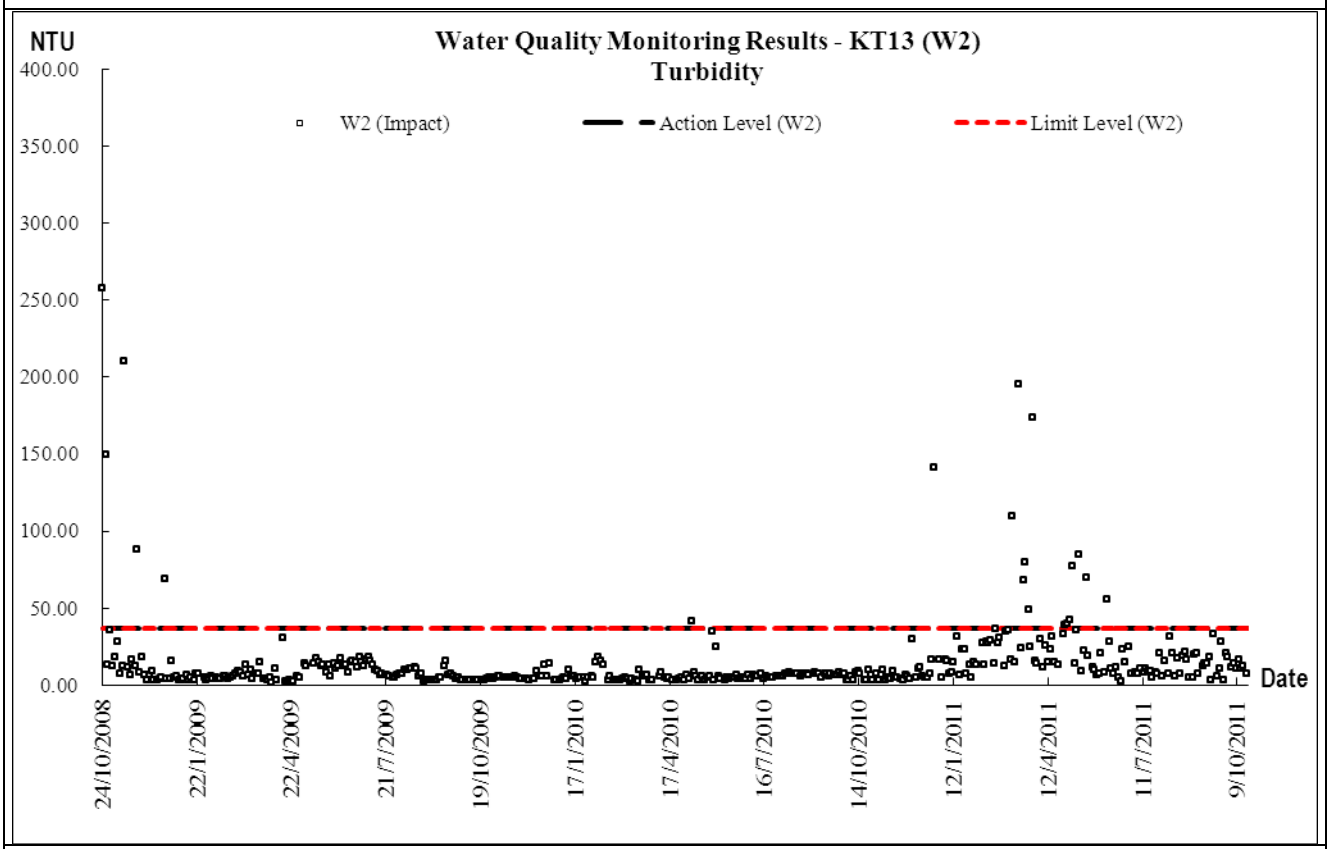
Graphical plots for 24-hour TSP Monitoring

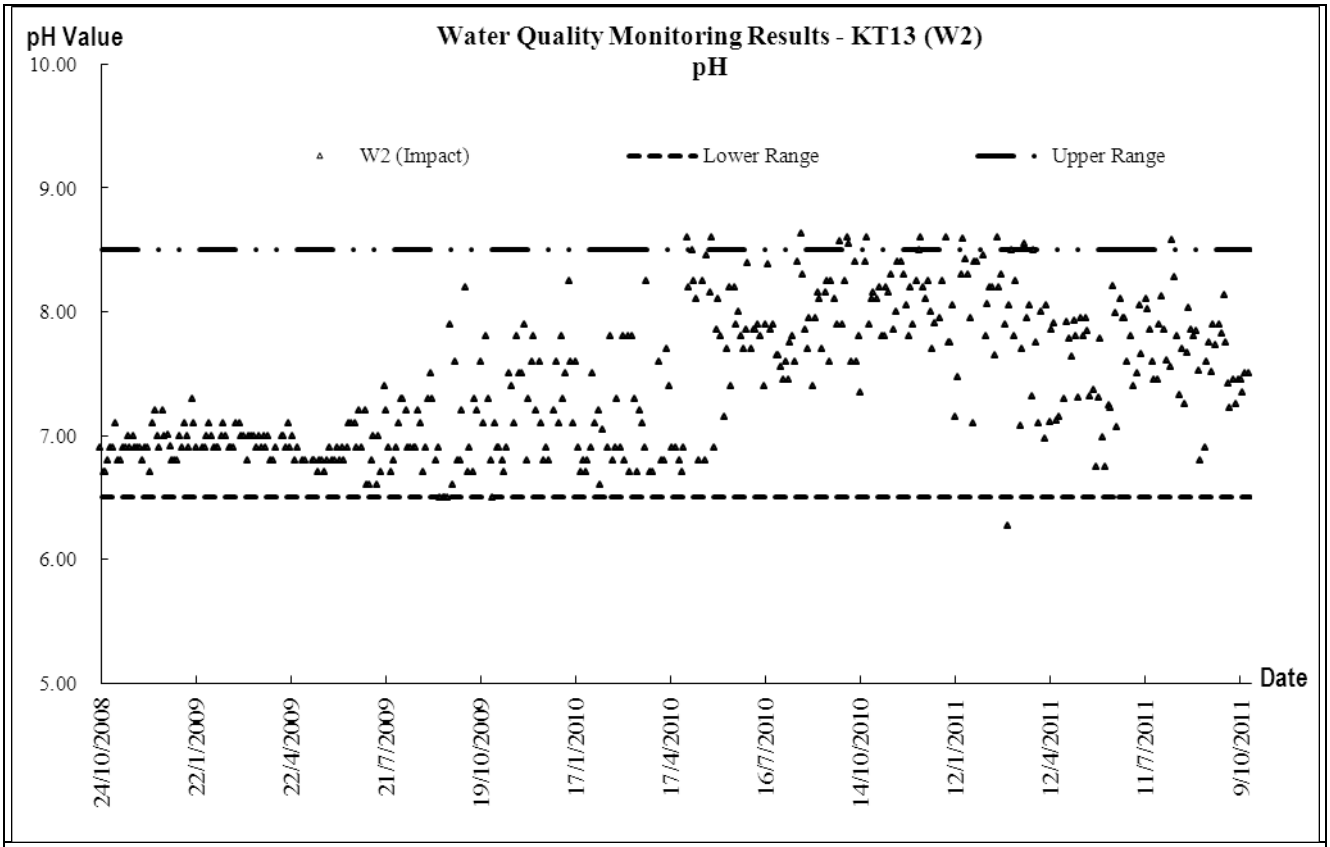


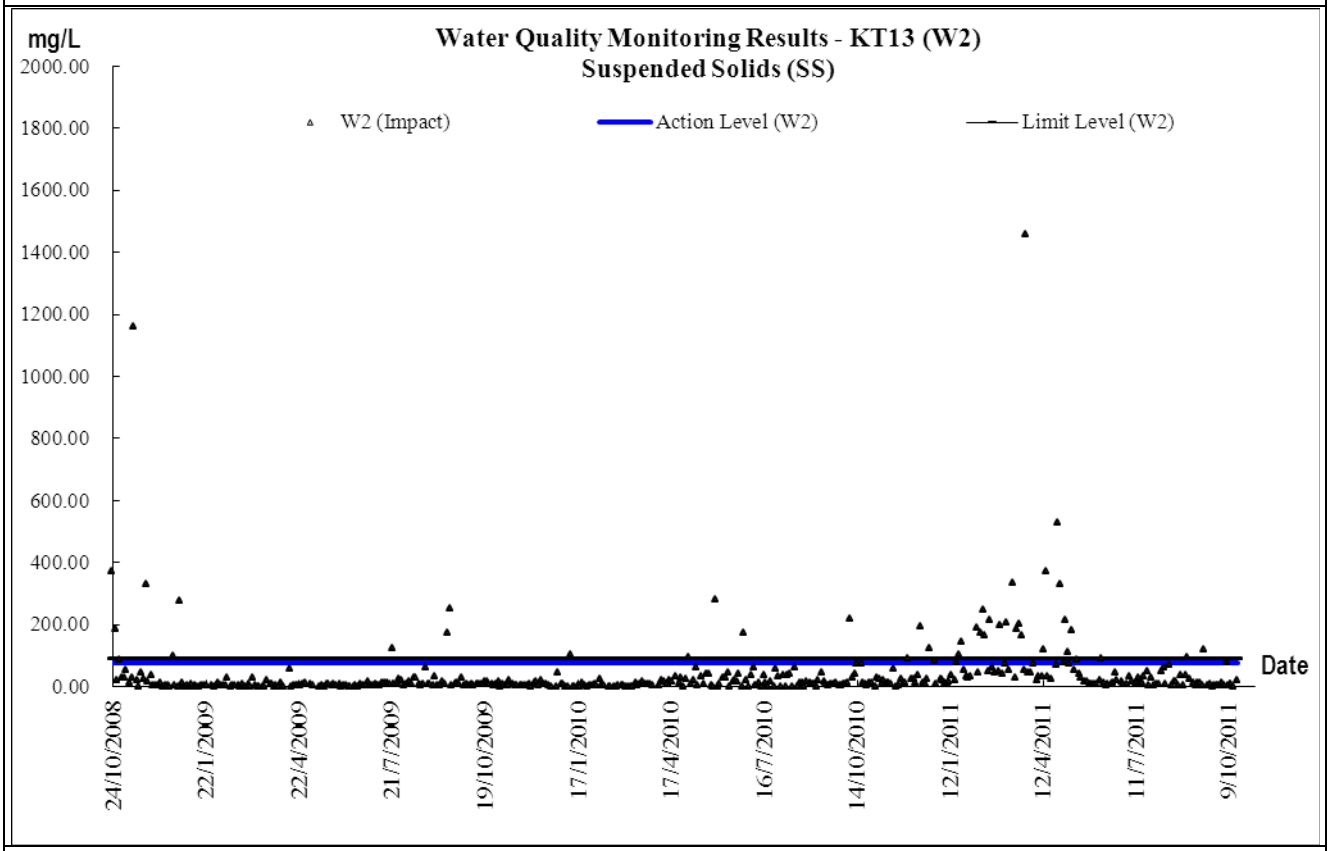


Graphical Plots for Water Quality Monitoring






Water Quality Monitoring Results - KT13 (W2)
pH
pH Value
10.00
9.00
8.00
7.00
6.00
5.00
W2 (Impact)
Lower Range
Upper Range
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
17/1/2010
17/4/2010
16/7/2010
14/10/2010
12/1/2011
12/4/2011
11/7/2011
9/10/2011


Water Quality Monitoring Results - KT13 (W2)
Suspended Solids (SS)
mg/L
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
W2 (Impact)
Action Level (W2)
Limit Level (W2)
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
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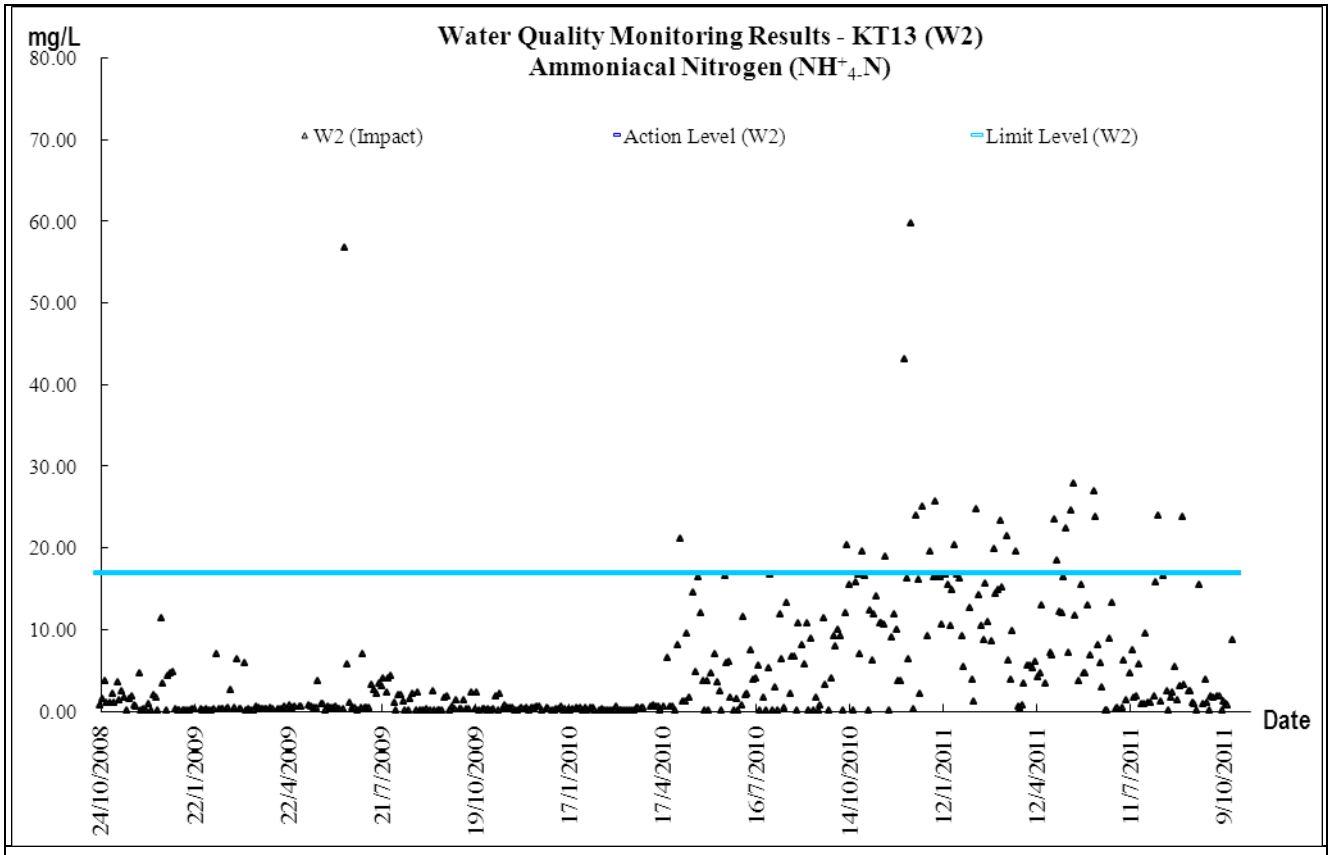
12/1/2011
12/4/2011
11/7/2011
9/10/2011


mg/L
Water Quality Monitoring Results - KT13 (W2)
Ammoniacal Nitrogen (NH^+_4-N)
W2 (Impact)
Action Level (W2)
Limit Level (W2)
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
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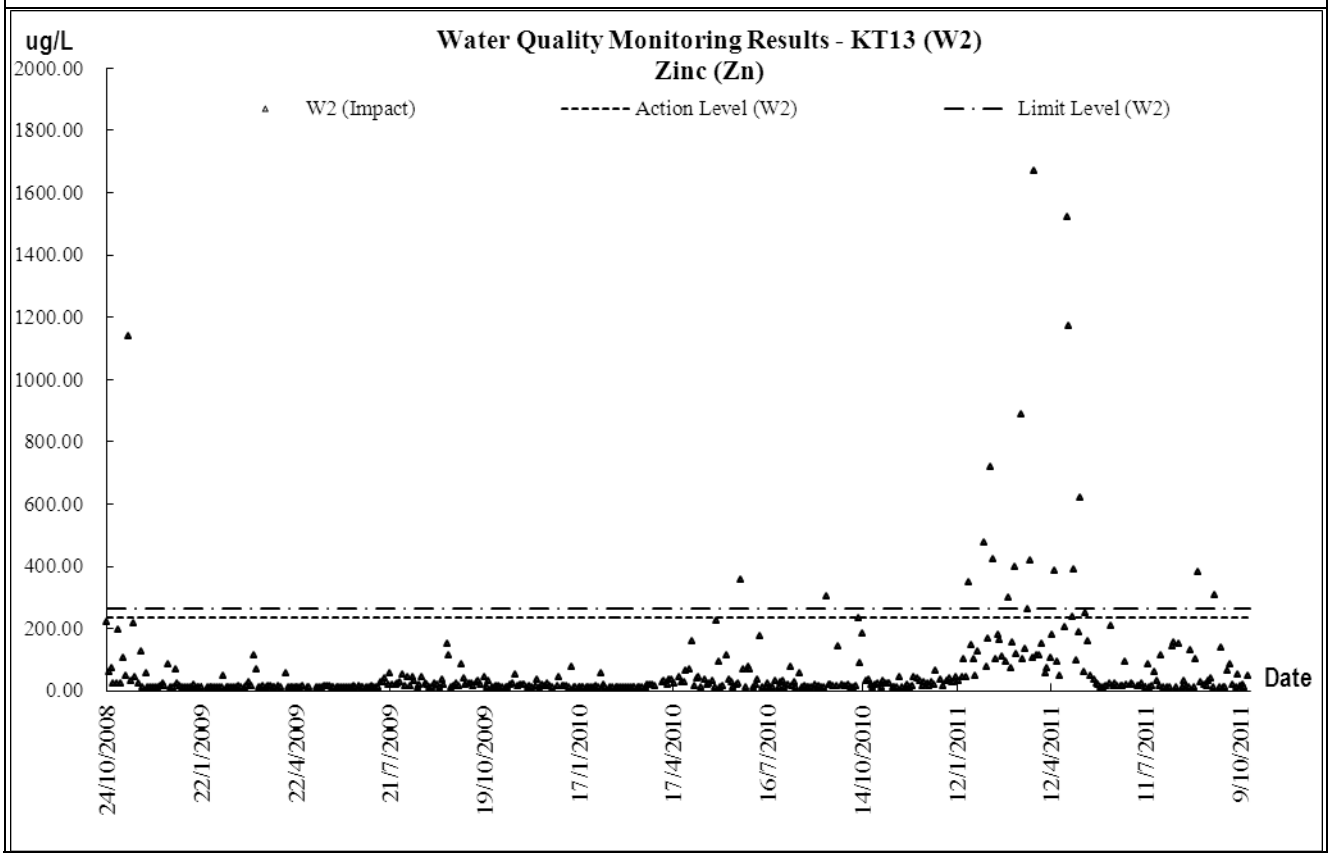
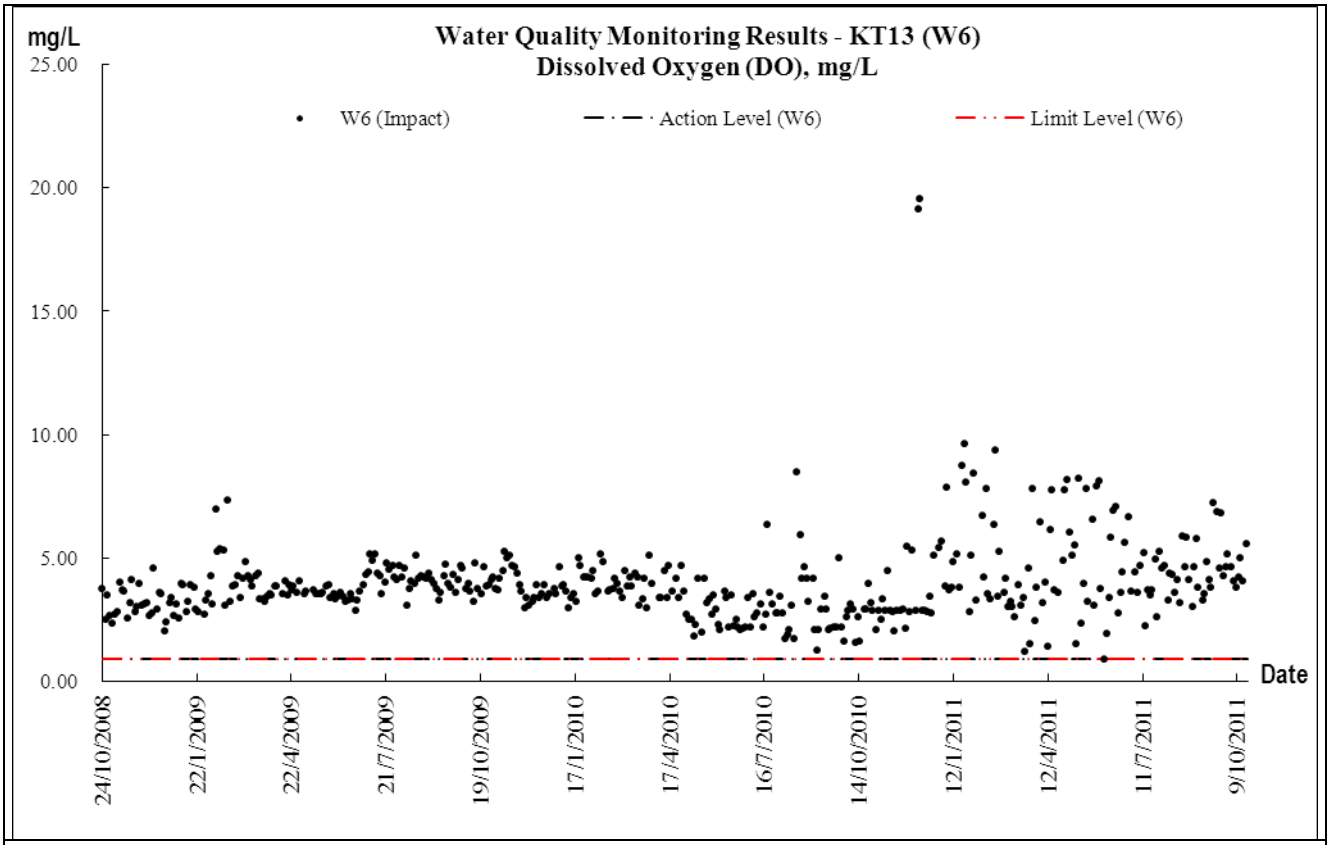
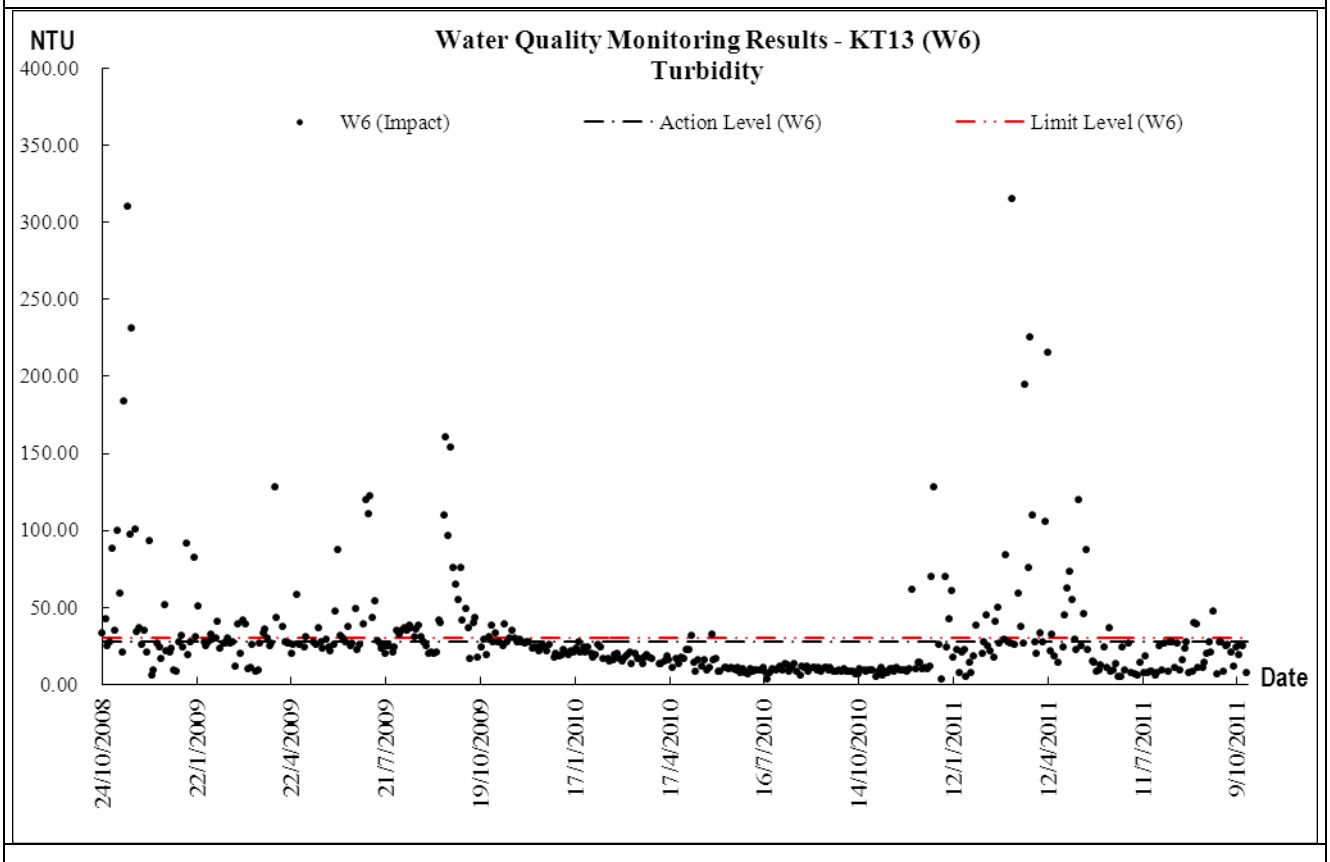
12/1/2011
12/4/2011
11/7/2011
9/10/2011


ug/L
Water Quality Monitoring Results - KT13 (W2)
Zinc (Zn)
W2 (Impact)
Action Level (W2)
Limit Level (W2)
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
17/1/2010
17/4/2010
16/7/2010
14/10/2010
12/1/2011
12/4/2011
11/7/2011
9/10/2011


mg/L
Water Quality Monitoring Results - KT13 (W6)
Dissolved Oxygen (DO), mg/L
W6 (Impact)
Action Level (W6)
Limit Level (W6)
25.00
20.00
15.00
10.00
5.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
17/1/2010
17/4/2010
16/7/2010
14/10/2010
12/1/2011
12/4/2011
11/7/2011
9/10/2011


NTU
Water Quality Monitoring Results - KT13 (W6)
Turbidity
W6 (Impact)
Action Level (W6)
Limit Level (W6)
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
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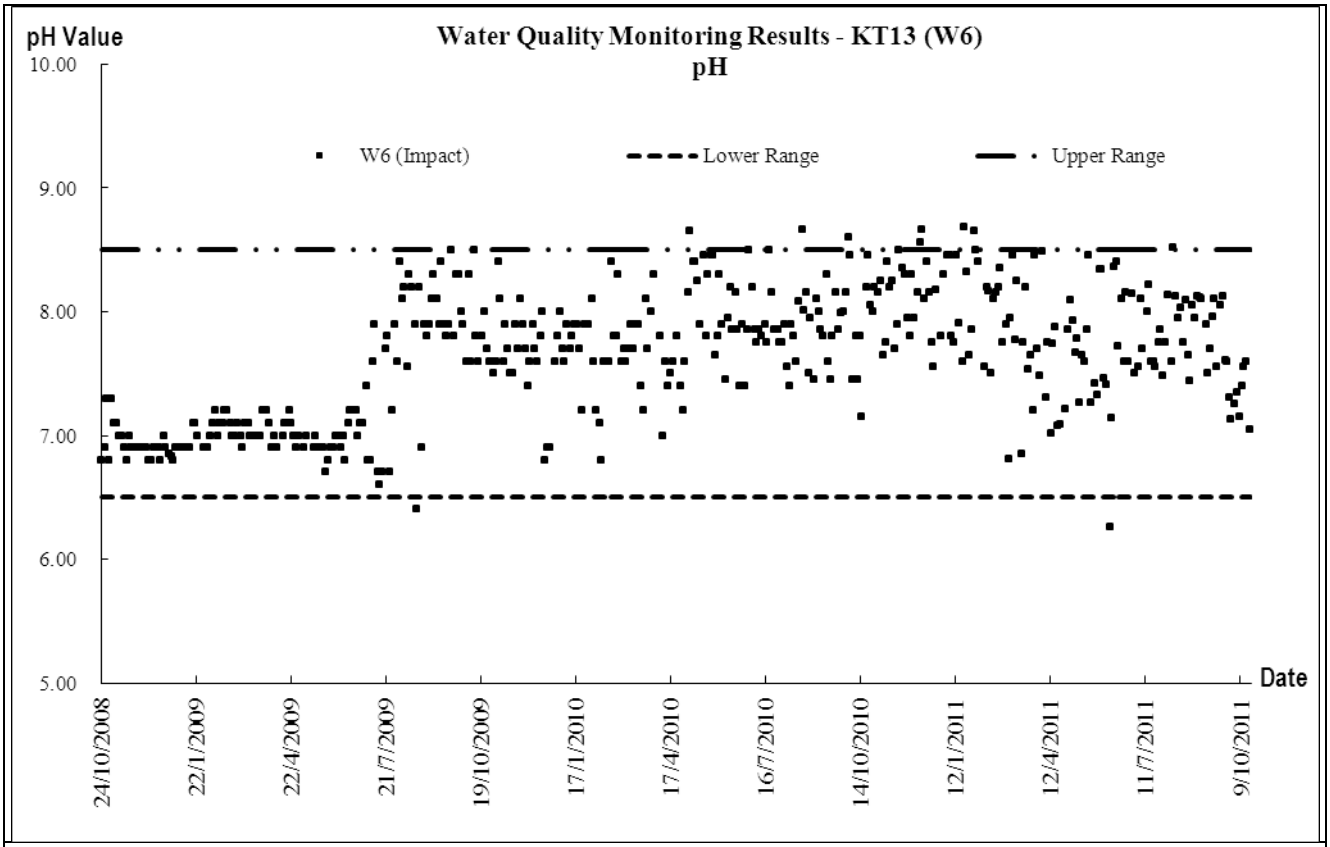
12/1/2011
12/4/2011
11/7/2011
9/10/2011


Water Quality Monitoring Results - KT13 (W6)
pH
pH Value
10.00
9.00
8.00
7.00
6.00
5.00
W6 (Impact)
Lower Range
Upper Range
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
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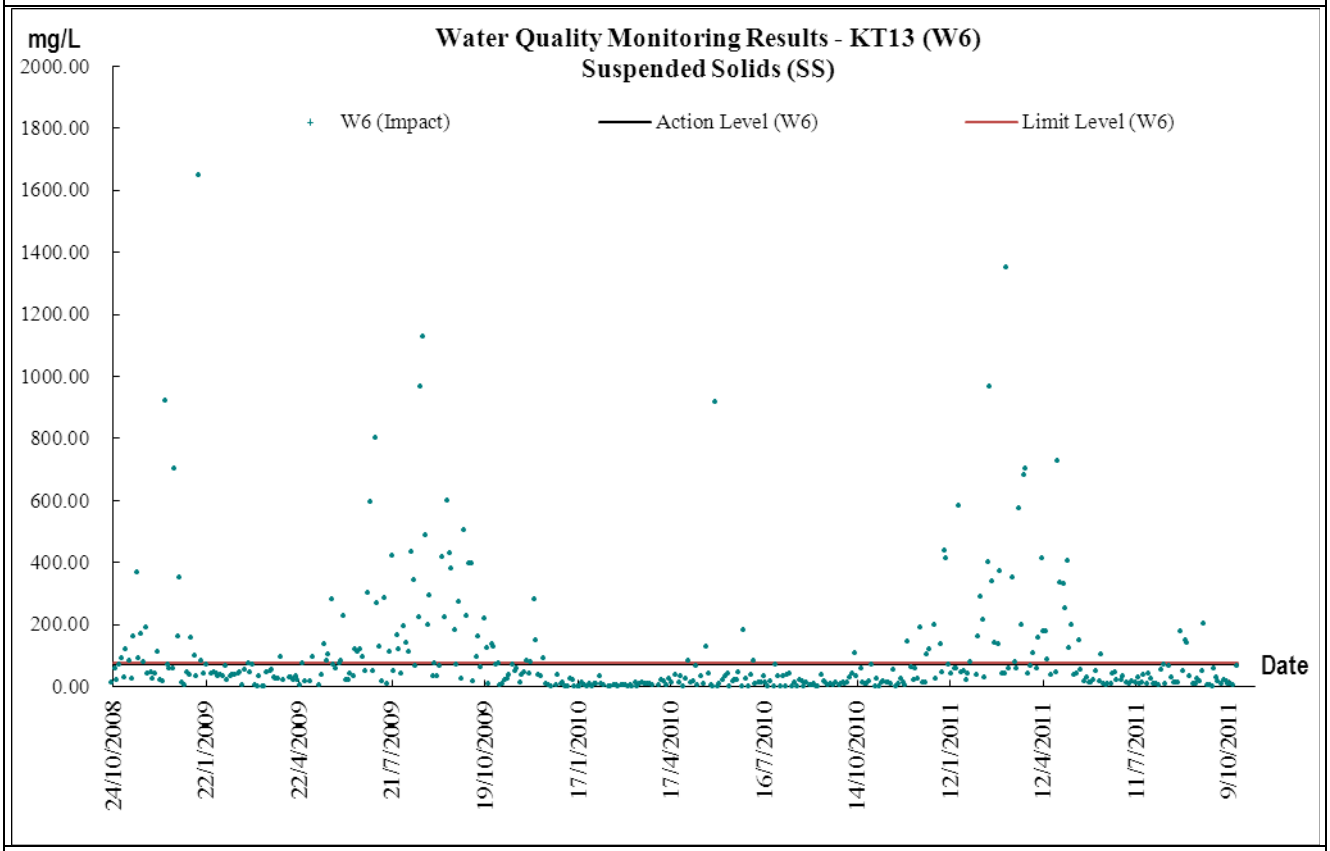
12/1/2011
12/4/2011
11/7/2011
9/10/2011


Water Quality Monitoring Results - KT13 (W6)
Suspended Solids (SS)
mg/L
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
W6 (Impact)
Action Level (W6)
Limit Level (W6)
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
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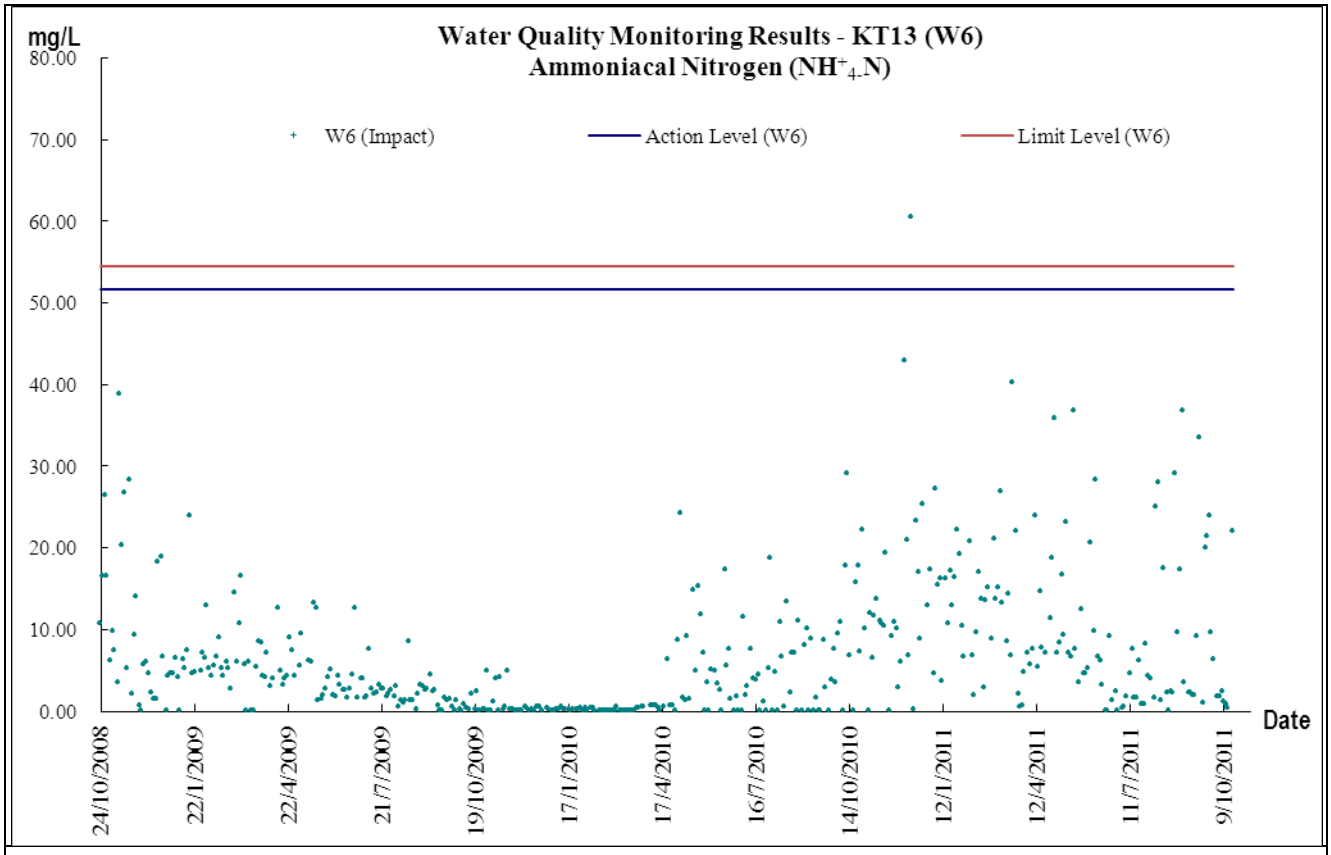
12/1/2011
12/4/2011
11/7/2011
9/10/2011


Water Quality Monitoring Results - KT13 (W6)
Ammoniacal Nitrogen (NH^+_4.N)
mg/L
W6 (Impact)
Action Level (W6)
Limit Level (W6)
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
17/1/2010
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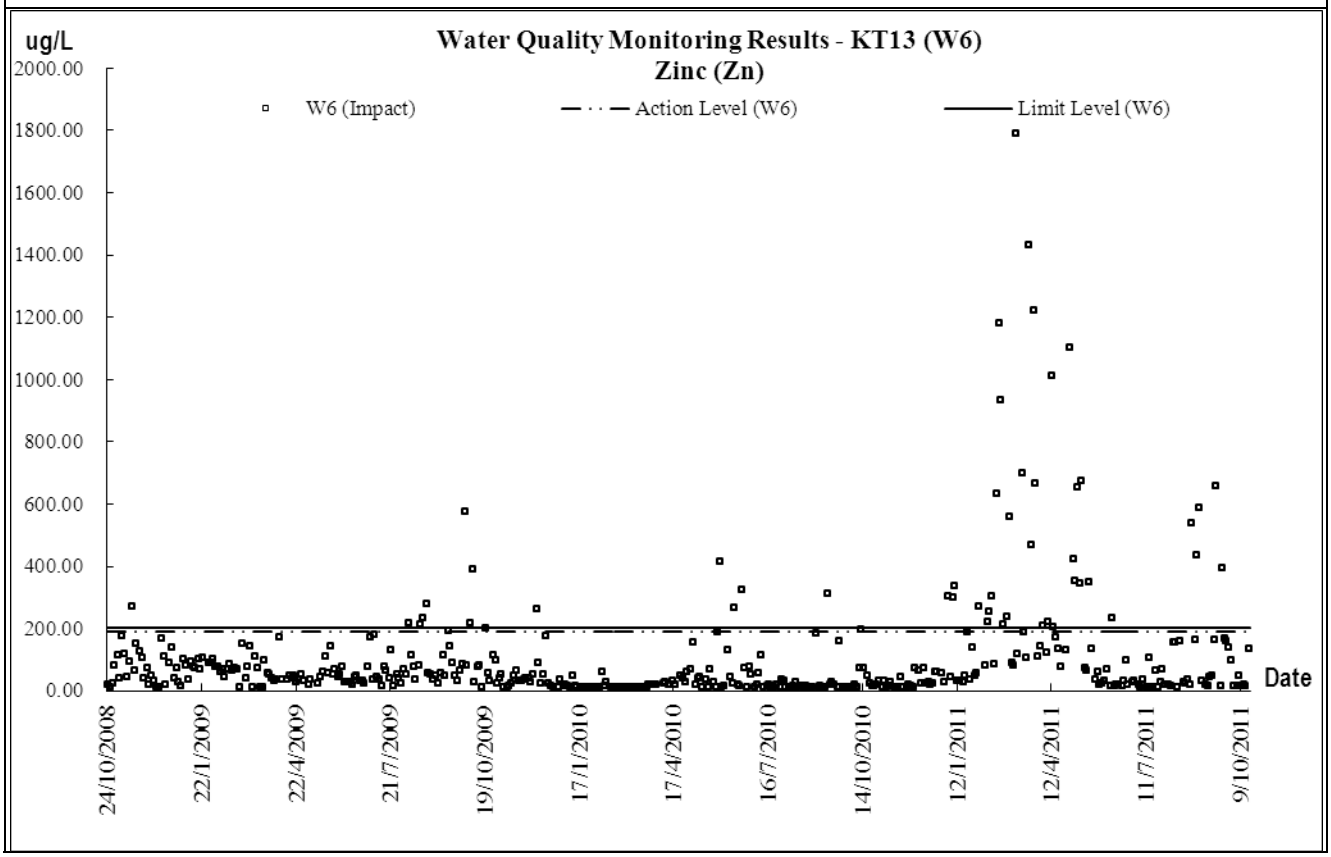
12/1/2011
12/4/2011
11/7/2011
9/10/2011


Water Quality Monitoring Results - KT13 (W6)
Zinc (Zn)
ug/L
W6 (Impact)
Action Level (W6)
Limit Level (W6)
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
Date
24/10/2008
22/1/2009
22/4/2009
21/7/2009
19/10/2009
17/1/2010
17/4/2010
16/7/2010
14/10/2010
12/1/2011
12/4/2011
11/7/2011
9/10/2011

Appendix E

Event and Action Plan

Event/Action Plan for Air Quality

EVENT	ACTION			
	Contractor's ET leader	**IEC**	**ER**	**Contractor**
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source 2. Inform IEC, ER and Contractor 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily	1. Check monitoring data submitted by Contractor's ET leader 2. Check Contractor's working method	1. Notify Contractor	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identify source 2. Inform IEC, ER and Contractor 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Discuss with IEC, Contractor and ER on remedial actions required 6. If exceedance continue, arrange meeting with IEC, ER and Contractor 7. If exceedance stops, cease additional monitoring	1. Checking monitoring data submitted by Contractor's ET leader. 2. Check Contractor's working method 3. Discuss with Contractor's ET leader and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Submit proposals for remedial actions to IEC and ER within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source 2. Inform IEC, ER, EPD and Contractor 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Assess effectiveness of Contractor's remedial actions and kept IEC, EPD and ER informed of the results	1. Check monitoring data submitted by Contractor's ET leader 2. Check Contractor's working method 3. Discuss with Contractor's ET leader and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Audit implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Take immediate action to avoid for the exceedance 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, Contractor's ET leader and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Audit the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures properly implemented 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.	1. Take immediate action to avoid for the exceedance 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abate.

Event and Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	Repeat in-site measurement to confirm findings; Identify Source(s) of impact; Inform IEC an Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented;	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check al plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive sampling days	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC on the proposed mitigation measures; Made agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the R accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contract to critically review the working methods; Made agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures/
Limit level being exceeded by more than one consecutive sampling days	Repeat in-situ measurement to confirm fundings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the Monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level.	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.

Event/Action Plan for Construction Noise Monitoring

EVENT	ACTION			
	CONTRACTOR'S ET LEADER	IEC	ER	Contractor
Action Level	1. Notify IEC, Contractor and ER 2. Carry out investigation 3. Report the results of investigation to the IEC, Contractor and ER 4. Discuss with the Contractor and formulate remedial measures 5. Double monitoring frequency 6. Check compliance to Action/Limit Levels after application of mitigation measures	1. Review the analysed results submitted by the Contract's ET leader 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly 3. Review the implementation of remedial measures	1. Confirm receipt of notification of complaint in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed noise problem 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to ER and IEC 2. Implement noise mitigation proposals
Limit Level	1. Notify IEC, ER, EPD and Contractor 2. Identify Source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Inform IEC, ER and EPD the causes & actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, Contractor's ET leader and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Audit the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed noise problem 4. Ensure remedial measures are properly implemented 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	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated

Event/Action Plan for Ecology

EVENT	ACTION			
	ET Leader	**IEC**	**Engineer**	**Contractor**
ACTION LEVEL REACHED	1. Carry out investigation 2. Review results and assess whether amendment to action level is appropriate 3. Report the results of investigation to the IEC 4. Notify Contractor and Engineer 5. Discuss with the Contractor and formulate remedial measures 6. Repeat survey to confirm results	1. Review the analysed results submitted by ET 2. Review the proposed remedial measures by the Contractor and advice the Engineer accordingly 3. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed problem 4. Ensure remedial measures properly implemented	1. Take immediate action to avoid further problem 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control
LIMIT LEVEL REACHED	1. Carry out investigation 2. Review results and assess whether amendment to limit level is appropriate 3. Report the results of investigation to the IEC 4. Notify Contractor and Engineer 5. Discuss with the Contractor and formulate remedial measures 6. Repeat survey to confirm results	1. Review the analysed results submitted by ET 2. Review the proposed remedial measures by the Contractor and advice the Engineer accordingly 3. Supervise implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analysed problem 4. Ensure remedial measures properly implemented 5. Issue instruction to stop the relevant portion of the works until the problem is abated (construction period only).	1. Take immediate action to avoid further problem 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the Engineer until the problem is abated (construction period only)

Event and Action Plan for Cultural Heritage

EVENT	ACTION			
	ET Leader	IEC	ER	Contractor
Action Level	Notify IEC and Contractor to carry out investigation Report reasons of structural damage or instability to the IEC and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to once per week to check mitigation effectiveness	Review report of structural damage or instability by the ET. Review proposed remedial measures by the Contractor and advise the ER and Antiquities and Monuments Office (AMO) accordingly Supervise the implementation of remedial measures, with approval from AMO.	Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures and to notify and seek approval from AMO. Ensure remedial measures are properly implemented.	Notify AMO concerning the damage or structural instability of the cultural heritage resources Submit proposals for repair of damage to cultural heritage resources to AMO for approval and to implement approved measures.
Limit Level	Notify IEC and Contractor to carry out investigation and to stop construction work within 100m of cultural heritage resource to avoid further impact until AMO are satisfied that the relevant structure has been repaired or stabilized to an acceptable level. Report reasons of continued structural damage or instability to the IEC and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to daily to check mitigation effectiveness	Review report of structural damage or instability by the ET. Review proposed remedial measures by the Contractor and advise the ER and Antiquities and Monuments Office (AMO) accordingly. Supervise the implementation of remedial measures, with approval from AMO.	Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures and to notify and seek approval from AMO. Ensure remedial measures are properly implemented.	To carry out investigation and to stop construction work within 100m of cultural heritage resource to avoid further impact until AMO are satisfied that the relevant structure has been repaired or stabilized to an acceptable level. Propose remedial measures for the repair and stabilization of cultural heritage resources, up to liaison of moving and rebuilding the relevant structure with the approval of owner (usually the clan members) and AMO.

Event and Action Plan for Landscape and Visual Impact - Construction Phase

Action Level	Environmental Team Leader (ETL)	Independent Evnironmental Checker (IEC)	Engineer's Representative (ER)	Contractor
Non-conformity on one occasion	1. Identify source 2. Inform the IEC and the ER 3. Discuss remedial actions with the IEC, the ER and the Contractor 4. Monitor remedial actions until rectification has been completed	1. Check report 2. Check the Contractor's working method 3. Discuss with the ER and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures	1. Notify the Contractor 2. Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement
Repeated Non-conformity	1. Identify source 2. Inform the IEC and the ER 3. Increase monitoring (site audit) frequency 4. Discuss remedial actions with the IEC, the ER and the Contractor 5. Monitor remedial actions until rectification has been completed 6. If exceedance stops, cease additional monitoring (site audit)	1. Check report 2. Check the Contractor's working method 3. Discuss with the ER and the Contractor on possible remedial measures 4. Advise the ER on effectiveness of proposed remedial measures 5. Supervise implementation of remedial measures	1. Notify the Contractor 2. Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake remedial measures or any necessary replacement

Appendix F

Meteorological Condition

Summary of Weather Condition in 2008

Month	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Mean Wind Speed (km/h)
		Mean Daily Max. (deg. C)	Mean (deg. C)	Mean Daily Min. (deg. C)					
August	1005.9	31.3	28.4	26.5	24.3	79	66	317.0	19.0
September	1007.8	32.0	29.0	26.8	23.8	75	66	159.2	18.2
October	1014.1	29.1	26.5	24.9	22.1	77	69	144.6	28.5
November	1018.0	24.5	21.9	19.8	14.7	65	48	54.3	27.4
December	1019.8	21.0	18.4	16.2	11.1	63	50	9.0	24.3
mean or total	**1012.8**	**25.8**	**23.1**	**21.1**	**18.5**	**77**	**67**	**3066.2**	**22.2**
Normal*	**1013.0**	**25.6**	**23.1**	**21.1**	**18.8**	**78**	**67**	**2382.**	**23.9**

Globally, the year 2008 ranked as the 10th warmest year on record. In Hong Kong, the average temperature in 2008 was slightly lower than those for previous years in this century. This was attributable to the La Nina phenomenon at the beginning of the year. The longest cold spell in 40 years occurred from 24 January to 16 February when the minimum temperature stayed below 12 degrees for 24 consecutive days. The year saw other new records. Record-breaking rain fell in April and June 2008, while October 2008 was the warmest October since record began in 1884. The year 2008 was also wetter than usual. The annual rainfall of 3066.2 millimetres was about 29 percent above normal.

In 2008, the typhoon season started in mid-April, the second earliest onset time since 1946. Altogether six tropical cyclones affected Hong Kong and necessitated the issuance of local Tropical Cyclone Warning Signals, which were about normal. Four of them necessitated the issuance of the No. 8 or higher signals, making 2008 the year with the most No. 8 Signals since 1999. Typhoon Nuri crossed Hong Kong in August 2008 and necessitated the issuance of the Increasing Gale or Storm Signal No. 9. This was the first No. 9 signal since the passage of Typhoon Dujuan in September 2003.

August was sunnier and drier than usual. With long periods of sunshine, the monthly total global solar radiation in August was 564.48 megajoules per square metre, the second highest for August since record began.

September was hotter and drier than usual. The monthly mean temperature of 29.0 degrees equaled the record set in 1969. The passage of Typhoon Hagupit in late September brought storm surges, which combined with high tides led to the highest sea level since Typhoon Wanda in 1962 and brought extensive flooding to many low-lying areas.

October was unseasonably warm. Both the monthly mean temperature of 26.5 degrees and the mean daily minimum temperature of 24.9 degrees broke the records set in 1983 by 0.1 degrees and 0.2 degrees respectively.

November was brighter and warmer than usual.

December was warmer and drier than usual.

Summary of Weather Condition in 2009

Month	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Mean Wind Speed (km/h)
		Mean Daily Max. (deg. C)	Mean (deg. C)	Mean Daily Min. (deg. C)					
January	1021.9	18.3	15.3	13.0	8.1	64	40	Trace	25.9
February	1015.5	23.7	20.5	18.6	17.1	81	64	1.1	21.0
March	1015.2	22.1	19.7	17.9	16.6	83	81	120.7	23.8
April	1012.7	24.8	22.0	20.2	17.6	77	79	108.7	28.9
May	1010.8	28.8	25.5	23.5	21.2	78	70	245.2	22.0
June	1004.8	30.7	28.1	26.2	24.6	81	76	341.8	18.4
July	1005.1	31.9	29.1	27.0	25.3	81	69	389.4	21.5
August	1004.9	32.2	29.4	27.7	25.5	80	69	334.1	16.1
September	1007.5	31.9	28.8	26.9	24.6	78	66	486.3	28.4
October	1012.4	28.9	26.2	24.3	20.8	73	59	44.4	23.0
November	1017.7	23.2	20.5	18.3	15.1	72	61	60.4	25.5
December	1019.3	19.3	17.3	15.6	13.3	78	65	50.2	25.8
mean or total	**1012.3**	**26.3**	**23.5**	**21.6**	**19.2**	**77**	**67**	**2182.3**	**23.4**
Normal*	**1013.0**	**25.6**	**23.1**	**21.1**	**18.8**	**78**	**67**	**2382.7**	**23.9**

According to the World Meteorological Organization, the year 2009 would likely rank among the top 10 hottest years globally on record. In Hong Kong, the weather was also exceptionally warm in 2009 with an annual mean temperature of 23.5 degrees, ranking the 9th highest on record with 1991 and 2006. The average temperature in February reached a record high of 20.5 degrees, 4.2 degrees above the climatological normal. Also, prolonged hot weather extended from summer into late September, with altogether 30 days having daily maximum temperatures of 33 degrees or above, the highest since 1963. The Very Hot Weather Warning was in effect for a total of 40 days, the highest number since the warning started operation in 2000. The year 2009 was also drier than usual. The annual rainfall of 2182.3 millimetres was about 8 percent below normal.

A total of 30 tropical cyclones occurred over the western North Pacific and the South China Sea in 2009. Five tropical cyclones attained super typhoon intensity (maximum 10-minute wind speed of 185 km/h or above near the centre) over the western North Pacific. However, none of these directly affected Hong Kong. Eight tropical cyclones necessitated the issuance of local tropical cyclone warning signals this year, slightly more than the annual average of six to seven. Typhoon Molave passed about 40 km north-northeast of the Hong Kong Observatory Headquarters in July and necessitated issuance of the Increasing Gale or Storm Signal No. 9, the highest signal issued in the year. Two other tropical cyclones necessitated the issuing of the Gale or Storm Signal No. 8, namely Severe Tropical Storm Goni in August and Typhoon Koppu in September.

As for individual months, January 2009 was sunnier and drier than usual. The total bright sunshine duration for the month was 226.5 hours, about 60 percent above the normal.

Due to a lack of northerly surges, it was unusually warm in February. The month was the warmest February since records began in 1884. The temperature of 28.3 degrees recorded on 25 February was the highest ever on record for February. The month was also sunnier than normal.

March was wetter and warmer than usual.

The weather in April, May and June was drier than normal.

July was warmer than usual.

Under the influence of a stronger than normal sub-tropical ridge, the weather was much hotter than usual in August, September and October. The mean temperatures of 29.4 degrees for August, 28.8 degrees for September and 26.2 degrees for October were 1.0, 1.2 and 0.9 degrees higher than their respective climatological normals. The mean minimum temperatures of 27.7 degrees for August and 26.9 degrees for September were the highest for the respective months on record. It was also wetter than usual in September. The total rainfall of 486.3 millimetres in the month was about 69 percent above the normal.

The weather was cooler than usual in November. The temperature fell to 10.5 degrees on 17 November, the earliest day for winter since 1981 when the minimum temperature was 12.0 degrees or below. The first Cold Weather Warning issued on 16 November was also the earliest for winter since the warning started operation in 1999.

December was cooler and wetter than usual.

Summary of Weather Condition in 2010

Month	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Mean Wind Speed (km/h)
		Mean Daily Max. (deg. C)	Mean (deg. C)	Mean Daily Min. (deg. C)					
January	1020.5	19.0	16.8	15.2	13.3	80	73	24.6	27.1
February	1016.6	19.7	17.9	16.3	15.8	88	88	113.1	22.7
March	1016.9	23.1	20.2	18.1	16.4	80	73	17.5	22.2
April	1014.7	23.6	21.0	19.0	18.6	87	84	78.9	23.0
May	1008.8	28.1	25.6	23.7	22.9	86	77	176.6	19.0
June	1007.8	29.2	27.1	25.4	24.4	85	81	474.9	21.0
July	1008.2	32.1	29.2	26.9	25.5	81	69	469.4	20.4
August	1008.1	31.9	28.8	26.6	25.2	81	67	350.3	15.5
September	1008.7	30.5	28.0	25.9	24.6	83	70	583.1	18.6
October	1012.5	27.2	24.8	22.9	19.2	72	67	22.7	31.5
November	1017.1	23.9	21.2	19.2	16.1	74	51	42.2	24.0
December	1016.3	20.8	18.1	15.6	11.1	66	45	18.4	26.3
mean or total	**1013.0**	**25.8**	**23.2**	**21.2**	**19.4**	**80**	**70**	**2371.7**	**22.6**
Normal*	**1013.0**	**25.6**	**23.1**	**21.1**	**18.8**	**78**	**67**	**2382.7**	**23.9**

According to the World Meteorological Organization, year 2010 is almost certain to rank among the top 3 warmest years globally since the beginning of instrumental climate records in 1850. In Hong Kong, 2010 was characterized by irregular variations in temperature and rainfall, despite the annual figures were close to normal.

Year 2010 started off with three notably warm months with monthly mean temperatures 0.7 to 1.6 degree above normal. This anomaly was mostly offset by the well below normal monthly mean temperatures in April and June, the former due to frequent passage of late season cold fronts and the latter due to gloomy weather. With insignificant anomalies of monthly mean temperatures in the second half of the year, the annual mean temperature in 2010 ended up to 23.2 degrees, close to the normal figure of 23.1 degrees. During the year, there were 13 very hot days (daily maximum temperature at 33.0 degrees or above) and 21 cold days (daily minimum temperature at 12.0 degrees or below), 3 days and 2 days more than normal respectively.

Despite a record breaking daily rainfall of 94.1 millimetres for February, the first half of year 2010 was relatively dry with the total rainfall about 16% below normal. However, the two heavy rain episodes which necessitated the issuance of the Black Rainstorm Warning in July and the torrential rainfall due to the passage of two tropical cyclones, namely Lionrock and Fanapi in September, added up the annual rainfall to 2 371.7 millimetres which was close to the normal figure of 2 382.7 millimetres.

A total of 18 tropical cyclones occurred over the western North Pacific and the South China Sea in 2010, considerably less than the normal figure of around 30 tropical cyclones in a year. Super Typhoon Megi was the most intense tropical cyclone of the year, and was the only tropical cyclone that had reached super typhoon intensity (maximum 10-minute wind speed of 185 km/h or above near the centre) in the region. In Hong Kong, five tropical cyclones necessitated the issuance of local tropical cyclone warning signals, slightly less than the annual average of six to seven. The typhoon season started later than normal on 15 July when Typhoon Conson came within 800 km of Hong Kong and the Standby Signal No. 1 was issued. Typhoon Chanthu, Severe Typhoon Fanapi and Super Typhoon Megi necessitated the issuance of the Strong Wind Signal No. 3 during their passages from July to October.

As for individual months, January was 0.7 degree milder than usual. There were only 4 cold days (daily

minimum temperature at 12.0 degrees or below) in the month, the least for January since 2001.

The cold snap during the Chinese New Year period was more than counter-balanced by a persistently warm and humid maritime airstream towards the end of the month, making February wetter and 1.6 degree milder than usual.

It was mild and dry with plenty of sunshine in March. The northeast monsoon carried sand and dust originated from sandstorms over northern China down the Taiwan Strait to reach the coast of Guangdong on 21 March, resulting in rather low visibility in Hong Kong on 21 and 22 March.

Due to frequent passage of cold fronts, April was 1.5 degree cooler than usual.

The rainfall over the territory was highly uneven in May. The total rainfall recorded at the Hong Kong Observatory Headquarters in the month was only 176.6 millimetres, about 54% of the normal figure of 329.5 millimetres, whereas over 300 millimetres of rainfall were recorded at the eastern part of the New Territories and western Lantau.

June was gloomier than usual. The total bright sunshine duration was only 58 percent of the normal figure. As a result, June was 0.8 degree cooler than usual.

July was hotter than usual with 8 very hot days (daily maximum temperature of 33.0 degrees or above) in the month. The two heavy rain episodes which necessitated the issuance of the Black Rainstorm Warning on 22 and 28 July respectively made the month wetter than usual. Waterspouts associated with unstable weather were reported on 22 and 27 July.

Dominated by a relatively strong Pacific ridge of high pressure, August was sunnier and drier than usual.

September was the wettest month of the year with monthly rainfall of 583.1 millimetres, more than double the normal figure of 287.5 millimetres. Under severe thundery activities, 13 102 strokes of cloud-to-ground lightning were registered in Hong Kong during the hour just after midnight on 9 September, the highest hourly reading since record began in 2005.

Due to the dominance of an intense northeast monsoon over southern China in the last six days of the month, October was cooler than usual.

With prevalence of dry northeast monsoon, there was ample sunshine in November.

Despite several cold episodes in the month, December was slightly milder than normal with abundant sunshine.

Summary of Weather Condition in 2011

Month	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Mean Wind Speed (km/h)
		Mean Daily Max. (deg. C)	Mean (deg. C)	Mean Daily Min. (deg. C)					
January	1021.5	16.3	13.7	11.6	7.5	67	63	5.4	27.0
February	1017.1	19.1	16.2	14.2	12.0	77	65	23.7	22.5
March	1018.7	21.1	18.0	15.7	12.4	71	79	20.5	26.2
April	1014.0	26.9	22.9	20.6	18.2	76	59	36.0	18.4
May	1009.2	29.0	26.0	24.1	22.4	81	73	186.7	16.9
June	1005.3	31.3	28.6	26.7	25.0	82	74	435.6	21.6
July	1004.4	31.4	28.8	27.0	25.1	81	64	226.8	19.3
August	1006.1	32.4	29.5	27.4	24.8	77	56	157.6	13.4
mean or total	**1010.7**	**27.3**	**24.3**	**22.2**	**20.0**	**78**	**67**	**1086.9**	**19.8**
Normal*	**1013.0**	**25.6**	**23.1**	**21.1**	**18.8**	**78**	**67**	**2382.7**	**23.9**

Globally, despite the cooling influence of the La Nina conditions in early and late 2011, the year 2011 is still likely to rank as the tenth warmest year on record. The current La Nina condition, which developed by the end of 2011, is expected to persist into early 2012. For extreme weather events, it was eventful worldwide in 2011. Notably, there were drought and high temperatures in southwestern China and southern United States, dramatic change from drought to flood conditions in east Africa and central China, severe flooding in Pakistan, eastern Australia, Thailand and southeastern Brazil, deadly tornadoes in United States, and tropical cyclone induced torrential rain in Japan and the Philippines.

Locally in 2011, Hong Kong experienced appreciably colder weather from January to March and in December. This is attributed to the stronger northeast monsoon over southern China usually under the effect of La Nina. However, the below-normal temperatures in these four months were almost offset by the noticeably warmer August and November. The average temperature of 2011 ended up with a near normal value of 23.0 degrees.

The year 2011 was also an exceptionally dry year. With well below normal rainfall in the first nine months, the annual rainfall of 1476.7 millimetres was about 38 per cent below normal, the lowest since 1963.

During 2011, there were only two red rainstorm warnings issued by the Hong Kong Observatory, about one half of the average number of red rainstorm warnings in a year since operation of the Rainstorm Warning System in 1992. There was no black rainstorm warning issued in the year.

A total of 22 tropical cyclones formed over the western North Pacific and the South China Sea in 2011, less than the normal figure of around 30. Four of them reached super typhoon* intensity during the year. In Hong Kong, five tropical cyclones necessitated the issuance of local tropical cyclone warning signals, slightly less than the long term average of about six in a year. Typhoon Nesat, which affected Hong Kong in September, necessitated the issuance of the No.8 Gale or Storm Signal.

The annual rainfall in 2011 was 1476.7 millimetres which was the lowest since 1963. The rainfall deficit in 2011 was mainly attributed to the substantially less than normal rainfall in the first nine months. From January to April, under the influence of the La Nina conditions, a stronger and drier northeast monsoon prevailed over southern China and brought less rain to Hong Kong. The lack of rainfall from May to September was due to a number of factors including weaker southerly flows over the South China coast in May and the stronger anticyclone prevailing over southern China in August and September

Under the influence of the La Nina conditions, Hong Kong experienced stronger than normal northeast monsoon and appreciably colder and drier weather for the first three months of 2011. The average temperature from January to March was 1.1 degrees lower than normal. In particular, the mean temperature for January was 13.7 degrees, the lowest since 1977. There were 14 cold days# in January, double the normal figure of about 7 days in the month. Besides the below normal rainfall, the average relative humidity of these three months was also lower than the normal figure by 6%. The monthly mean relative humidity of 71% for March 2011 was even 11% below normal, the lowest for March on record.

Although 2011 was a dry year, there were two episodes of heavy rain on 22 May which necessitated the issuance of the red rainstorm warning. On the morning of 22 May, under the influence of an active trough of low pressure over the northern part of the South China Sea, local weather deteriorated with heavy rain and squally thunderstorms. The red rainstorm warning was in force from 11:10 a.m. to 2:45 p.m. Meanwhile, another trough of low pressure over inland Guangdong edged southwards to cross the coast that evening, bringing another episode of heavy downpour to the territory. The red rainstorm warning was issued again between 9:55 p.m. and 11:25 p.m. on the same day. Totally, more than 100 millimetres of rainfall were recorded over most parts of Hong Kong with more than 200 millimetres over parts of the New Territories on that day. During the rainstorm episodes, 25 cases of flooding and 2 cases of landslip were reported.

The typhoon season in Hong Kong in 2011 started on 10 June when Tropical Storm Sarika came within 800 km of Hong Kong and the Standby Signal No. 1 was issued. The Strong Wind Signal No. 3 was issued during the approach of Tropical Storm Haima, Severe Tropical Storm Nock-ten and Severe Typhoon Nalgae. The No. 8 SE Gale or Storm Signal, the first No.8 Signal since September 2009, was issued on 29 September as Typhoon Nesat passed about 350 km to the south-southwest of Hong Kong. During the passage of Nesat, a crane barge drifted towards the seas off Chai Wan after its anchor cable was snapped. The barge first hit a pier at an oil storage depot in Chai Wan and then slammed into a sea wall at the Heng Fa Chuen promenade.

Appendix G

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table

Date: 31-Dec-08
Year/Month: Dec-08

Monthly Summary Waste Flow Table for December 2008										
Year	Actual Quantities of Inert C & D Materials Generated Monthly					Estimated Annual Quantities of C & D Wastes Generated Monthly				
	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse
	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M^3)
Jan	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0
May	0.08	0.04	0.04	0	0	0	0	0	0	0
Jun	0.00	0.001	0.001	0	0	0	0	0	0	0
Sub-Total	0.08	0.041	0.041	0	0	0	0	0	0	0
Jul	0.021	0.003	0.018	0	0	0	0	0	0	0
Aug	0.899	0.005	0.894	0	0	0	0	0	0	0.01
Sep	5.055	0.003	3.480	0	1.572	0	0	0	0	0.06
Oct	4.044	0.002	2.526	0	1.516	0	0	0	0	0
Nov	6.647	0.011	5.262	0	1.374	0	0	0	0	0.012
Dec	9.050	0.032	8.286	0	0.732	0	0	0	0	0
Total	25.799	0.097	20.507	0.000	5.194	0.000	0.000	0.000	0.000	0.082

Notes: (1) The performance targets are given in PS Clause 28.10(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material
(4) Broken concrete for recycling into aggregates

Monthly Summary Waste Flow Table

Date: 31-Dec-09
Year/Month: Dec-09

Monthly Summary Waste Flow Table for Dec 2009										
Year	Actual Quantities of Inert C & D Materials Generated Monthly					Estimated Annual Quantities of C & D Wastes Generated Monthly				
	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse
	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M^3)
Jan	6.716	0.008	6.708	0	0	0	0	0	0	0
Feb	8.001	0.009	7.632	0.360	0	0	0	0	0	0
Mar	5.792	0.014	5.778	0	0	0	0	0	0	0
Apr	6.622	0.004	6.864	-0.246	0	0	0	0	0	0
May	7.632	0.006	7.674	-0.048	0	0	0	0	0	0
Jun	6.002	0.008	5.676	-0.498	0.816	0	0	0	0	0
Sub-Total	40.76	0.049	40.332	-0.432	0.816	0	0	0	0	0
Jul	4.163	0.005	5.016	-0.858	0	0	0	0	0	0
Aug	5.666	0.007	6.354	-0.828	0.132	0	0	0	0	0
Sep	5.647	0.017	3.510	1.994	0.126	0	0	0	0	0
Oct	8.186	0.008	4.710	2.934	0.534	0	0	0	0	0
Nov	11.265	0.015	8.226	2.838	0.186	0	0	0	0	0
Dec	7.924	0.009	7.458	0.457	0	0	0	0	0	0
Total	83.615	0.110	75.606	6.106	1.794	0.000	0.000	0.000	0.000	0.000

Notes: (1) The performance targets are given in PS Clause 28.10(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material
(4) Broken concrete for recycling into aggregates

Monthly Summary Waste Flow Table

Date: 31-Dec-10
Year/Month: Dec-10

Monthly Summary Waste Flow Table for December 2010										
Year	Actual Quantities of Inert C & D Materials Generated Monthly					Estimated Annual Quantities of C & D Wastes Generated Monthly				
	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse
	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M^3)
Jan	10.556	0.004	10.002	0.55	0	0	0	0	0	0
Feb	4.2195	0.001	4.323	-0.105	0	0	0	0	0	0
Mar	8.654	0.003	7.469	1.182	0	0	0	0	0	0
Apr	8.115	0.002	6.221	1.892	0	0	0	0	0	0
May	5.111	0.001	3.718	1.392	0	0	0	0	0	0
Jun	6.123	0.001	6.562	-0.44	0	0	0	0	0	0
Sub-Total	42.78	0.012	38.295	4.4715	0	0	0	0	0	0
Jul	7.449	0.002	8.652	-1.2045	0	0	0	0	0	0
Aug	7.658	0.002	7.953	-0.297	0	0	0	0	0	0
Sep	5.365	0.002	5.363	0	0	0	0	0	0	0
Oct	5.177	0.001	5.176	0	0	0	0	0	0	0
Nov	5.006	0.001	5.797	-0.792	0	0	0	0	0	0
Dec	3.675	0.001	4.147	-0.473	0	0	0	0	0	0
Total	77.107	0.021	75.381	1.705	0.000	0.000	0.000	0.000	0.000	0.000

Notes: (1) The performance targets are given in PS Clause 28.10(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material
(4) Broken concrete for recycling into aggregates
(5) Negative numbers in “Reused in other Projects” indicate import of materials from other projects.

Monthly Summary Waste Flow Table

Date: 18-Oct-11
Year/Month: Oct-11

Monthly Summary Waste Flow Table for October 2011										
Year	Actual Quantities of Inert C & D Materials Generated Monthly					Estimated Annual Quantities of C & D Wastes Generated Monthly				
	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse
	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000M^3)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M^3)
Jan	2.452	0.001	2.5355	-0.085	0	0	0	0	0	0
Feb	4.167	0.001	1.7215	2.444	0	0	0	0	0	0
Mar	1.894	0.002	2.332	-0.44	0	0	0	0	0	0
Apr	1.123	0.001	1.551	-0.429	0	0	0	0	0	0
May	0.567	0.000	0.5665	0.000	0	0	0	0	0	0
Jun	0.115	0.000	0.297	-0.182	0	0	0	0	0	0
Sub-Total	10.32	0.005	9.004	1.308	0	0	0	0	0	0
Jul	-0.138	0.000	0.2145	-0.352	0	0	0	0	0	0
Aug	0.099	0.000	0.099	0.000	0	0	0	0	0	0
Sep	0.000	0.000	0.000	0.000	0	0	0	0	0	0
Oct	0.000	0.000	0.000	0.000	0	0	0	0	0	0
Nov	0.000				0	0	0	0	0	0
Dec	0.000				0	0	0	0	0	0
Total	10.278	0.005	9.317	0.956	0.000	0.000	0.000	0.000	0.000	0.000

Notes: (1) The performance targets are given in PS Clause 28.10(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material
(4) Broken concrete for recycling into aggregates
(5) Negative numbers in “Reused in other Projects” indicate import of materials from other projects.

Summary of Quantities of Type I and Type II Contaminated Material

Summary of Quantities of Type I and Type II Contaminated Material							
Quantities of Type I Contaminated Material disposal off site				**Quantities of Type II Contaminated Material disposal off site**			
Date	**No of Truck**	**Quantity (m^3)**	**Location of disposal**	**Date**	**No of Truck**	**Quantity (m^3)**	**Location of disposal**
20/10/2008	120	720	East Sha Chau	23/10/2008	110	660	East Sha Chau
17/11/2008	115	690	East Sha Chau	24/10/2008	120	720	East Sha Chau
18/11/2008	115	690	East Sha Chau	25/10/2008	120	720	East Sha Chau
19/11/2008	110	660	East Sha Chau				
20/11/2008	110	660	East Sha Chau				
21/11/2008	100	600	East Sha Chau				
22/11/2008	100	600	East Sha Chau				
24/11/2008	100	600	East Sha Chau				
25/11/2008	100	600	East Sha Chau				
8/12/2008	100	600	East Sha Chau				
9/12/2008	100	600	East Sha Chau				
10/12/2008	100	600	East Sha Chau				
11/12/2008	100	600	East Sha Chau				
12/12/2008	100	600	East Sha Chau				
13/12/2008	100	600	East Sha Chau				
15/12/2008	90	540	East Sha Chau				
16/12/2008	100	660	East Sha Chau				
17/12/2008	100	660	East Sha Chau				
19/2/2009	116	696	East Sha Chau				
20/2/2009	116	696	East Sha Chau				
Total	**2092.0**	**12672.0**		**Total**	**350.0**	**2100.0**	

Appendix H

Mitigation Measure Implementation Schedule

Appendix A
Mitigation Measures Implementation Schedule

Ecological Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
4.9.2	To avoid potential impacts to the egretry and the associated habitats, the proposed layout and gabion structures shown in Figures 2.2A, 2.2B and 2.4 of the EIA shall be adopted. The bypass culvert design shall ensure that continuous flow of the existing unmodified stream is maintained. Reprovide the stream section affected by the bypass culvert with gabion banks and natural substrates as stream bed materials.	Minimize loss of egretry, stream and conservation area, and the associated ecological habitats	Design Stage Refer to Figures 2.2A, 2.2B and 2.4 for locations	Detailed Design Engineer	✓	✓		Environmental Impact Assessment Ordinance (EIAO)
4.9.7	Chain link fence to be provided along the site boundary near the CA zone and Ho Pui Egretry (Figure 4.13). Prohibit the disturbance of vegetation outside the site boundary. Signage to be provided at conspicuous location to warn workers from entering and disturbing the sensitive areas.	Minimize the disturbance and access to the CA zone and Ho Pui Egretry during construction	Construction Stage at locations shown in Figure 4.13 of the EIA before commencement of bypass culvert construction	Construction Contractor		✓		EIAO
4.9.8	Compensatory planting of about 148 heavy standard size trees (in 2:1 ratio) for the approximately 74 trees to be felled.	Compensatory planting of trees that inevitably need to be felled	Construction Stage at locations shown in Figures 4.13, LP-001 and LP-002 of the EIA before commencement of operation stage	Construction Contractor		✓		EIAO
4.9.9 & Table 4.35	Planting an area (855 m²) of appropriate tree and bamboo species as shown in Figure 4.13: *Bambusa eutuldoides* 40% of total species *Cinnamomum camphora* 15% of total species *Celtis tetranda* 15% of total species *Ficus virens* 15% of total species *Ficus microcarpa* 15% of total species	Replace lost vegetation and conservation area by enhancing a stream side area to become suitable habitats for egrets	Construction Stage at locations shown in Figure 4.13 of the EIA before commencement of operation stage	Construction Contractor		✓		EIAO

Ecological Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
4.9.2 (ii)	Potentially adverse impacts arising from the maintenance of the channelized sections will be minimized by restricting routine channel maintenance to annual silt removal by hand or light machinery during the dry season (October to March). The management of woody / emergent vegetation will be limited to manual cutting, to be carried out only when unchecked growth of such vegetation is very likely to impede channel flow.	Minimize impacts arising from the maintenance of KT13	KT13 during Operation Stage	DSD (or DSD's maintenance contractor)			✓	EIAO

Noise Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
5.5.22	Level 1 Mitigation Measure Plant to be used in the construction phase are listed in Appendix F1 of the EIA. Quiet and silenced plant should be used (Appendix F2). No nighttime works will be carried out.	Prevent noise impact at sensitive receivers	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		EIAO
5.5.23 - 5.5.24	Level 2 Mitigation Measure Temporary noise barrier of minimum height 3m should be erected along the site boundary of the construction work which is closest to the NSRs. These barrier shall be gap free apart from the necessary entrances/exits. The overall length for which noise barriers are required is shown in Figure 5.3. These barriers shall be constructed in such a way that no construction works and PME are visible from the low rise noise sensitive receivers they protect. A minimum surface density of 10 kg/m² is required. Where the affected sensitive receivers are very close to the construction works so that they cannot be adequately screened by the proposed temporary noise barrier as described on Figure 5.3, the Contractor is required to fully or partially modify the design of the temporary noise barriers, such as adding cantilevered portion or the use of mobile barrier, to screen the construction works away from the line of sight of the affected sensitive receivers.	Prevent noise impact at sensitive receivers	To be implemented at the works sites during the Construction Phase (see Figure 5.3).	Construction Contractor		✓		EIAO

Air Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
6.5.12	Dust Mitigation Measures The Contractor shall prevent dust nuisance arising from the construction activities. The Contractor is required to follow all the requirements for dust control stipulated in the Air Pollution Control (Construction Dust) Regulation. Dust suppression measures should be installed as part of proper construction practice, and these should be incorporated in the Contract Specification and implemented to minimize dust nuisance to within acceptable levels. The following are examples of the dust suppression measures: (i) The Contractor shall frequently clean and water the site to minimize fugitive dust emissions. (ii) Effective water sprays shall be used during the delivery and handling of aggregate, and other similar materials, when dust is likely to be created and to dampen all stored materials during dry and windy weather. (iii) Watering of exposed surfaces shall be exercised as often as possible depending on the circumstances. (iv) Areas within the site where there is a regular movement of vehicles must be regularly watered as often as necessary for effective suppression of dust or as often as directed by the Engineer. (v) Where dusty material are being discharged to vehicle from a conveying system at a fixed transfer point, a three-sided roofed enclosure with a flexible curtain across the entry shall be provided. Exhaust fans shall be provided for this enclosure and vented to a suitable fabric filter system.	Prevent dust / odour nuisance	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Air Pollution Control Ordinance [Air Pollution Control (Construction Dust) Regulation]

Air Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
6.5.12 (cont'd)	(vi) The Contractor shall restrict all motorised vehicles within the site, excluding those on public roads, to a maximum speed of 15 km per hour and confine haulage and delivery vehicles to designated roadways inside the site. (vii) Wheel washing facilities shall be installed and used by all vehicles leaving the site. No earth, mud, debris, dust and the like shall be deposited on public roads. Water in the wheel cleaning facility shall be changed at frequent intervals and sediments shall be removed regularly. The Contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. (viii) All vehicle exhausts should be directly vertically upwards or directed away from the ground. (ix) Any materials dropped on paved roads will need to be cleaned up immediately to prevent dust nuisance. *Odour Mitigation Measures* (x) Any odourous excavated material should be placed away from sensitive receivers. The material shall be removed within 1 day. (xi) Any odourous material stockpiled should be of the shortest duration. Also, all stockpiled materials must be stored in covered skips. Any leachate from these storage skips shall be collected in covered tanks or buckets and removed from site with toilet waste by licensed collectors for discharging to government sewer.							

Air Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
6.5.4	No on-site concrete batching plant shall be erected.	Prevent dust nuisance	To be implemented at the works sites during the construction phase			✓		Air Pollution Control Construction Dust Regulation
6.5.13	During the Operation Phase, excavated sediment deposits should be regularly removed from the channel to maintain adequate water flow as well as to remove odourous materials. Potentially odourous materials should be stockpiled for the minimum time possible and away from ASRs. The material should be stored in covered impermeable skips and removed from site within 1 day.	Prevent odor nuisance during operation phase	To be implemented along KT13 during the Operation Phase.	DSD's Maintenance Contractor			✓	

Water Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
7.5.5 - 7.5.7	Temporary earth bunds and sand barriers should be used to direct stormwater run-off to temporary settlement area. The settlement area should be within the channel itself. A cofferdam should be formed to keep the working area dry. The channel will be dug out to a depth of around 1 – 2m for a length of approximately 12m, to form a sedimentation area. The volume will be approximately 50m^3 (with a channel width of 3.5m). Sediment flowing downstream should settle in this settlement pond, while run-off from the surface should be channel through a local site drainage system into the settlement area. The settlement area should be maintained and the deposited materials should be removed regularly, at the onset of and after each rainstorm to ensure proper functioning at all times. No sediment removal shall be allowed in rainy weather. Open stockpiles susceptible to erosion should be covered with tarpaulin or similar fabric, especially during the wet season (Apr-Sep) or when heavy rainstorm is predicted.	Prevent additional pollution load being added to stream due to KT13 works (site formation)	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Water Pollution Control Ordinance ProPECC Note (PN 1/94)
7.5.8 - 7.5.10	The Contractor should provide temporary drainage diversion during construction to ensure continuous water flow to the unmodified portion of the stream. The use of containment structure such as temporary earth bunds, sand bags, sheetpile barriers or similar techniques is recommended to facilitate a dry or at least confined excavation within watercourses. Excavated sediment from streams and channel is likely to be wet and contaminated. The material should be stored in covered impermeable skips and disposed on the same day, or within 1 day, to avoid both odour and inadvertent release of contaminants to nearby water bodies.	Prevent additional pollution load being added to stream due to KT13 works (stream diversion and dredging)	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Water Pollution Control Ordinance ProPECC Note (PN 1/94)

Water Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
7.5.11 - 7.5.12	Runoff should be carefully channelled to prevent concrete-contaminated water from entering watercourses. Adjustment of pH can be achieved by adding a suitable neutralising reagent to wastewater prior to discharge. Re-use of the supernatant from the sediment pits for washing out of concrete lorries should be practised. Any exceedance of acceptable range of pH levels in the nearby water bodies caused by inadvertent release of site runoff containing concrete should be monitored and rectified under the EM&A programme for this Project.	Prevent additional pollution load being added to stream due to KT13 works (concreting work)	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Water Pollution Control Ordinance ProPECC Note (PN 1/94)
7.5.13	Any Contractor generating waste oil or other chemicals as a result of his activities should register as a chemical waste producer and provide a safe storage area for chemicals on site. The storage site should be located away from existing water courses. Hard standing compounds should drain via an oil interceptor. To prevent spillage of fuels or other chemicals to water courses, all fuel tanks and storage areas should be sited on sealed areas, within a bund of a capacity equal to 110% of the storage capacity of the largest tank. Disposal of the waste oil should be done by a licensed collector. Oil interceptors should be regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A bypass should be provided to avoid overload of the interceptor's capacity. Good housekeeping practices should be implemented to minimise careless spillage and to keep the storage and the work space in a tidy and clean condition. Appropriate training including safety codes and relevant manuals should be given to the personnel who regularly handle the chemicals on site.	Prevent additional pollution load being added to stream due to KT13 works (site workshop or depot)	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Water Pollution Control Ordinance ProPECC Note (PN 1/94)

Water Quality Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
7.5.14 - 7.5.15	Sewage arising from the additional population of workers on site should be collected in a suitable storage facility, such as portable chemical toilets. An adequate number of portable toilets should be provided for the construction workforce. The portable toilets should be maintained in a state that will not deter the workers from using them. The collected wastewater from sewage facilities and also from eating areas or washing facilities must be disposed of properly, in accordance with the WPCO requirements. Wastewater collected should be discharged into foul sewers and collected by licensed collectors. Either chemical toilets or other types of sewage treatment facilities without local discharge of wastewater shall be used to handle the foul water effluent arising from the project sites.	Prevent additional pollution load being added to stream due to KT13 works (wastewater from workers)	To be implemented at the works sites during the Construction Phase.	Construction Contractor		✓		Water Pollution Control Ordinance ProPECC Note (PN 1/94)

Waste Management

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
8.2.5	All construction wastes shall be sorted on site into inert and non-inert components. Non-inert materials (wood, glass and plastics) shall be recycled or reused and disposed to NENT Landfill as a last resort. Inert materials (soil, rubble, sand, rock, brick and concrete) shall be separated and reused on site prior to final disposal at the public filling facility at Tuen Mun Area 38.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		WBTC No. 12/2000 ETWB TCW No. 33/2002 19/2005 31/2004
8.2.7	Any excavated material from the stream shall be removed within 1 day of excavation, taking measures to reduce odour and potential runoff.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		WBTC No. 12/2000 ETWB TCW No. 33/2002 19/2005 31/2004
8.2.13 – 8.2.18 & 8.3.3	The excavated sediments shall be managed in accordance with ETWB TCW No. 34/2002 and WBTC No. 12/2000. The excavated sediment shall be disposed to marine disposal sites allocated by the Marine Fill Committee (MFC) – Pit IVa / Pit IVb of the East Sha Chau facility as capping material for Type 1 disposal and Pit IVc of the East Sha Chau facility for Type 2 disposal. The general allocation conditions as stipulated by the MFC shall be followed.	To properly manage the excavated sediment	Proposed works area during the Construction Phase	Construction Contractor		✓		WBTC No. 12/2000 ETWB TCW No. 34/2002 Dumping at Sea Ordinance
8.2.20	Dry concrete waste shall be sorted out from the other wastes and recycled at Tuen Mun Area 38 to form aggregates for road sub-base.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		WBTC No. 12/2000 ETWB TCW No. 33/2002 19/2005 31/2004
8.2.22 – 8.2.24	Hoarding, shutters, form works and false works made of reusable materials such as steel or plastic / concrete panels shall be used as a preferred alternative to non-reusable materials such as wood and timber, with reference to WBTC No. 19/2001 - Metallic Site Hoarding and Signboards.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		WBTC No. 19/2001

Waste Management

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
8.2.25 – 8.2.29	Where the construction processes produce chemical waste, the contractor must register with EPD as a Chemical Waste Producer. Storage, handling, transport and disposal of chemical waste shall be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD. All chemical waste shall be collected by a licensed collector for disposal at a licensed chemical waste treatment facility.	Waste reduction, re-use, recycling and proper disposal of chemical waste	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General Regulation)
8.2.30	Settled sediments from wheel wash facilities should be dried and disposed of in the same way as inert excavated material.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		WBTC No. 12/2000 ETWB TCW No. 33/2002 19/2005 31/2004
8.2.32	A temporary refuse collection station shall be set up by the Contractor. Municipal waste shall be collected regularly and delivered to the North East New Territories (NENT) Landfill.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		Waste Disposal Ordinance Public Health and Municipal Services Ordinance
8.4.2	Appropriate waste management measures should be incorporated as part of the Environmental Management Plan (EMP) to be prepared and implemented by the Contractor.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		ETWB TCW No. 19/2005
8.4.3	Training of construction staff should be undertaken by the Contractor in order to increase awareness of waste management issues.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		ETWB TCW No. 19/2005
8.3.4 & 8.4.9	The Contractor shall refer and strictly follow the requirements stipulated in the ETWB TCW No. 31/2004 – Trip Ticket System for Disposal of Construction and Demolition Materials.	Waste reduction, re-use, recycling and proper disposal	Throughout the construction sites during the Construction Phase	Construction Contractor		✓		ETWB TCW No. 31/2004

Cultural Heritage

EIA Ref.	Mitigation Measures	Objectives of Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
Table 9.3	A condition survey will be required before and during the construction phase to ensure the structure of the identified historic grave (KT13-02-02) remains intact. Measures will have to be taken to ensure the structural stability of the identified historic grave (KT13-02-02). Details will be presented in the condition survey.	To ensure the structure of the identified historic grave (KT13-02-02) remains intact during construction phase	Historic grave (KT13-02-02) / Before and during construction of the bypass culvert	Construction Contractor / Qualified archaeologist to conduct condition survey		✓		EIAO

Landscape/Visual Impact Mitigation

EIA Ref.	Mitigation Measures	Objectives for Proposed Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementation Agent(s)	Implementation Stage			Relevant Legislation & Guidelines
					Design	Construction	Operation	
Table 10.2	CONSTRUCTION PHASE CM1 Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. CM2 Temporary access to site should be planned with care and located to minimize disturbance to existing riparian vegetation. CM3 Existing trees to be retained on site should be carefully protected during construction. CM4 Trees unavoidably affected by the works should be transplanted where practical. CM5 Compensatory tree planting should be provided to compensate for felled trees. CM6 Erection of decorative screen hoarding compatible with the surrounding rural setting.	Improves visual quality of project area and proposed works	To be implemented along KT13 works area during the Construction Phase.	Construction Contractor		✓		Works Bureau Technical Circular No. 14/2002
Table 10.3, Figures LP-001 & LP-002	OPERATION PHASE OM1 Buffer planting of trees and shrubs to screen off and blend in the channel with the adjacent settings OM2 Compensation planting of tree and bamboo species as recommended in Ecological Assessment compensates and reinstates riparian woodland disturbed on top of hydroseeding. OM3 Gabion embankment and substratum for natural colonization of vegetation OM4 Chromatic treatment of vehicular and pedestrian crossing to match adjacent setting. OM5 Aesthetic/ Quality design to re-provision of sitting out area of Ma On Kong. OM6 Approximate 50m stretch of grasscrete lined maintenance access road within CA zone.	Improved visual quality of proposed project	To be implemented along KT13 as shown in Figures LP-001 & LP-002 during Construction Phase / To be completed before commencement of Operation	Construction Contractor		✓		WBTC No. 14/2002 & ETWBTC No. 2/2004

Landscape/Visual Impact Mitigation

<table>
<tr><th rowspan="2">EIA Ref.</th><th rowspan="2">Mitigation Measures</th><th rowspan="2">Objectives for Proposed Measures</th><th rowspan="2">Location/Duration of Measures/Timing of Completion of Measures</th><th rowspan="2">Implementation Agent(s)</th><th colspan="3">Implementation Stage</th><th rowspan="2">Relevant Legislation & Guidelines</th></tr>
<tr><th>Design</th><th>Construction</th><th>Operation</th></tr>
<tr><td>10.8.18 Figures LP-001, LP-002 & 4.13</td><td>Compensatory planting of trees and bamboos with requirements as below.<table><tr><td>Size of compensatory tree planting</td><td>At least heavy standard size</td></tr><tr><td>Quantity of compensatory tree planting</td><td>2 times of the tree to be felled (approximately 148 nos. of tree to be compensated)</td></tr><tr><td>Proposed species</td><td>Bambusa eutuldoides*
Celtis tetranda
Cinnamomum camphora
Ficus virens
Ficus microcarpa</td></tr><tr><td>Requirements*</td><td>To ensure the right species of bamboo is planted, an experience botanist shall be acquired by the Contractor to source the correct bamboo species. In addition, the bamboos should have a minimum stem diameter of 8-10 cm and clump size of 5 shoots per plant.</td></tr></table></td><td>To address both landscape / visual and ecological mitigation needs</td><td>To be implemented along KT13 as shown in Figures LP-001 and LP-002 (with reference to Figure 4.13) during Construction Phase / To be completed before commencement of Operation</td><td>Construction Contractor</td><td></td><td>✓</td><td></td><td>WBTC No. 14/2002 & ETWBTC No. 2/2004</td></tr>
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