# Contract No.: DC/2007/06 River Improvement Works in Upper Lam Tsuen, She Shan River and Upper Tai Po River

# ENVIRONMENTAL MONITORING AND AUDIT

## MONTHLY EM&A REPORT of

# **UPPER TAI PO RIVER**

for January 2011

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#### **Executive summary**

This is the twenty-ninth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1<sup>st</sup> January 2011 to 31<sup>st</sup> January 2011. Construction of footbridge and retaining wall and gabion wall were carried out in this reporting period.

The Environmental Team (ET) is responsible for the EM&A works required in the EM&A manual. Site inspections were carried out on weekly basis to investigate and audit the equipment and work methodologies with respect to pollution control and environmental mitigation. The weekly inspections records and photos taken were kept.

Ecological impact monitoring was conducted on 27<sup>th</sup> January 2011 by the Ecologist Dr. Mark Shea. The ecological impact monitoring report prepared by the Ecologist is still under preparation and the report will be provided in the next monthly report. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, are provided in table 6.2 and Appendix G respectively.

Environmental Team had carried out construction noise monitoring on weekly basis and no exceedance was found. Noise monitoring records for the reporting month and the data is presented in Section 4. The location plan and the graphical plots presenting the data are provided in Appendix D.

Piling works has been omitted. Therefore, no vibration monitoring was conducted by ET during the reporting month.

Two non-compliance events, regarding generation of muddy water causing contamination to the downstream area, were recorded during weekly site inspection held on 26<sup>th</sup> January 2011. Further details please refer to Section 6.2.

There was no formal complaint in relation to environmental issue received in the reporting month.

There was no breach of action and limit levels for this month.

There was no reporting change for this month.

Construction of retaining wall, footbridge and gabion wall and box culvert will be the major construction activities to be carried out in the upcoming month.

ET has reminded the contractor to provide environmental pollution control measures wherever necessary and to keep a good environmental management at site practice.

#### 1.0 Introduction

This is the twenty-ninth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". The site layout plan is shown in Figure 2.1. The Environmental Team, Environmental Pioneers & Solutions Limited appointed by Chiu Hing Construction and Transportation Company Limited, prepares the report. The report is to be submitted to the Contractor, the Engineer and the IEC.

This report presents the results of the environmental monitoring of the project activities for Upper Tai Po River conducted during the month of January 2011. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-223/2005/A) (EP), EM&A Manual and the Contractor's Environmental Management Plan (EMP).

#### 2.0 Environmental status

#### 2.1 Project area

The location of the project site – Upper Tai Po River starting from Ta Tit Yan of Yai Mo Shan, the Upper Tai Po River flows from southeast to northeast alongside Wilson Trail, turning northward before joining the Lam Tsuen River and then runs towards Tai Po Market. To the east of the river, there are active and abandoned cultivated lands. While the village settlements are mainly located on the west and northeast side of the river bank, where the San Uk Ka and Lai Chi Shan establishment also lie. The Project site is indicated in **Figure 2.1.** 

#### 2.2 Construction programme

Approximately 0.6km of Upper Tai Po River will be improved to enhance the hydraulic performance of the river. The improvement works comprise the following:

- (1) Re-profiling and realignment of the Channel;
- (2) Inclusion of gabions and retaining wall for bank protection whilst providing a natural channel bed; and
- (3) Re-provisioning of footbridges and footpaths along the channel

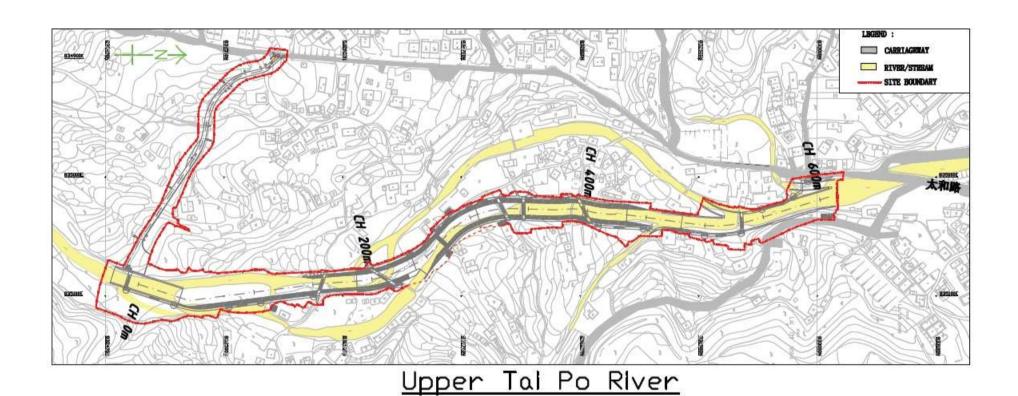
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15<sup>th</sup> 2008 and anticipated to complete in March 2012.

#### 2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

- (1) Site clearance and preparation works
- (2) Construction of the maintenance access which involves the construction of retaining walls
- (3) River channel construction and excavation, involving the excavation works, construction of retaining walls and gabion walls
- (4) Re-provisioning of footbridges
- (5) Construction of footpaths
- (6) Landscaping works

Fig 2.1 Layout of construction area



#### 2.4 Construction activities for the reporting period

Major construction activities carried out by the contractor during this reporting period include:

- 1.) construction of retaining wall;
- 2.) construction of footbridge; and
- 3.) construction of gabion wall.

#### 2.5 Construction activities for the next reporting period

Major construction activities carried out by the contractor anticipated for the coming month include:

- 1.) construction of retaining wall;
- 2.) construction of footbridge; and
- 3.) construction of gabion wall.

#### 2.6 Non-compliance with the environmental performance limits

According to the monitoring results no non-compliance with the environmental performance limits were recorded for this reporting month. However, two non-compliance events regarding observation of muddy water during inspection were recorded on 26<sup>th</sup> January 2011. Details of the events please refer to Section 6.2. The event and action plan for Ecology is shown in Appendix A. The action and limit level for Noise is shown in Appendix B. The reference standards for vibration are shown in Appendix C.

#### 2.7 Summary of complaints

No formal complaint in relation to environmental issue was received in the reporting month. Totally, eleven complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

#### 3.0 Ecological monitoring results

Ecological impact monitoring was conducted on 27<sup>th</sup> January 2011. The Ecological Impact monitoring report, prepared by Ecologist Dr. Mark Shea, is under preparation and would be provided in the next monthly EM&A report.

#### 4.0 Noise monitoring results

In accordance with the EM&A Manual, monitoring locations were established at 11 N.S.R. locations. The description of all 11 N.S.R. are shown in Table 4.1.

**TABLE 4.1 Description of Noise Sensitive Receivers** 

Sensitive Receiver	Location and Description
No.	
UTP1	54B, Sheung Wun Yiu
UTP2	Village House in Lai Chi Shan
UTP3	Village House near Upper Tai Po River
UTP4	Village House near Upper Tai Po River
UTP5	Village House near Upper Tai Po River
UTP6	Village House near Upper Tai Po River
UTP7	Village House near Upper Tai Po River
UTP8	Village House near Upper Tai Po River
UTP9	49A, Pun Shan Chau
UTP10	Village House near the proposed access road
UTP11	49G, San Uk Ka

Noise monitoring was carried out by the Environmental Team on weekly basis for this reporting month on  $7^{th}$ ,  $14^{th}$ ,  $21^{st}$  and  $28^{th}$  January 2011. Measured  $L_{eq~(30min)}$  results ranged from 52.2dB(A) to 70.8dB(A). And therefore, no exceedance was recorded within the reporting period.

For further details of the monitoring results, graphical plots and the location plan, please refer to the Appendix D.

#### **5.0 Vibration monitoring results**

There was no vibration monitoring results for this reporting month. Vibration monitoring will be started once the piling works start in Upper Tai Po River.

#### 6.0 Environmental issues and actions

#### 6.1 Site inspections and key environmental issues

Site inspections were undertaken routinely to inspect the construction activities in Upper Tai Po River to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented. Implementation status of environmental protection and mitigation measures is shown in Appendix G.

Within this reporting month, site inspections were conducted on 5<sup>th</sup>, 12<sup>th</sup>, 19<sup>th</sup> and 26<sup>th</sup> January 2011. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 31<sup>st</sup> January 2011. Details of findings were summarized in Table 6.2.

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
20, 27 Oct,	Oil stains were observed on	Observation	Contractor was reminded to	Contaminated soil were	12 Jan 11	
03, 17 Nov &	the haul access and		provide regular maintenance to	collected as reported by		
08 Dec 10	underneath the backhoe at		the site equipments as to avoid	Contractor		
	approximate ch.50, 100,		leakage. Contaminated soil			
	400, 500 and 600		observed should be collected			
	respectively		and handled as chemical waste			
			for storage and disposal			
03 Nov 10	Implementation of	Observation	Contractor was reminded to	Still outstanding. To be	Ongoing	
	protective measures for		provide proper bund wall at	followed during the next		
	haul access and exposed		edges of haul access and	reporting period		
	riverbanks was outstanding		geo-textile coverings to the			
			riverbanks to prevent erosion			
			and runoff			

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
17 Nov 10	Excavated materials were	Observation	Contractor was advised to	Concerned stockpiles were	05 Jan 11	
	stockpiled on top of the		remove the stockpiles away	removed prior to the		
	riverbank at approximate		from the river channel as soon	inspection on 05 Jan		
	ch.200		as possible			
08 Dec 10	Implementation of water	Observation	Contractor was recommended	Still outstanding. To be	Ongoing	
	quality mitigation measure		to implement necessary	followed during the next		
	for construction of		protective measures, such as	period		
	footbridge at ch.200 was		provision of bund wall and			
	outstanding		geo-textile coverings, to avoid			
			water contamination from site			
			works			
15 Dec 10	Implementation of water	Observation	Contractor was recommended	Concerned haul access was	12 Jan 11	
	quality mitigation measure f		to implement necessary	rectified by providing bund		
	at ch.500 was outstanding		protective measures, such as	wall, which formed by		
			provision of bund wall and	concrete blocks, prior to the		
			geo-textile coverings, to avoid	inspection on 12 Jan		
			water contamination from site			
			works			
15, 22 & 29	Sandbag barriers for	Observation	Contractor was advised to	Follow up action was taken as	05 Jan 11	
Dec 10	temporary crossing at		replace the damaged sandbags	advised prior to the inspection		
	ch.600 were observed to be		to avoid grit and soil from	on 05 Jan		
	damaged		dropping into the river channel			
29 Dec 10	Site surface was observed	Observation	Contractor was reminded to	Follow up action was taken as	05 Jan 11	
	to be dry and dusty		dampen dusty static area	advised prior to the inspection		
			regularly for dust suppression	on 05 Jan		
05 Jan 11	Site water seepage from	Observation	Contractor was requested to	Follow up action was taken as	12 Jan 11	
	site at approximate ch.500		implement necessary corrective	advised. No further seepage		
	caused contamination of		action to stop further	of site water was observed		
	water quality at the		deterioration of water quality	during inspection on 12 Jan		
	downstream area		immediately			
12 Jan 11	River water at down stream	Reminder	Although condition observed	No follow up action was	N/A	
	area from ch.450 was		was not mainly caused by	required		
	observed to be turbid and		project works Contractor was			
	such condition was		still reminded to pay serious			
	attributed by turbid water		attention on not arising muddy			
	outside site boundary		water from their activities			

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
12 & 19 Jan	Riverbanks along ch.300 to	Observation	Contractor was recommended	Still outstanding. To be	Ongoing	
11	400 was barely exposed		to protect the riverbanks and	followed during the next		
	without protective measures		haul access by provision of	reporting period		
			bund wall and geo-textile			
			coverings			
26 Jan 11	No mitigation measures in	Non-compliance	Details of advice given please	Details of action taken please	Ongoing	
	preventing erosion and		refer to Section 6.2	refer to Section 6.2		
	surface runoff for newly					
	formed haul access and					
	riverbanks was					
	implemented at ch.300. The					
	condition observed caused					
	consecutive sediment runoff					
	and contamination of water					
	quality to the downstream					
	area					
26 Jan 11	Muddy water arisen from	Non-compliance	Details of advice given please	Details of action taken please	Ongoing	
	excavation works at ch.250		refer to Section 6.2	refer to Section 6.2		
	was being diverted to an					
	under-designed site water					
	treatment system. Muddy					
	water without sufficient					
	treatment was then					
	discharged to the river					
	channel and caused					
	contamination to the down					
	stream area					
26 Jan 11	Insufficient of noise	Observation	Contractor should warp up the	To be followed during the next	Ongoing	
	mitigation measure was		breaker tips of the hydraulic	reporting period		
	observed for the hydraulic		breakers with proper noise			
	breakers occupying for		insulation materials to minimize			
	boulder breaking activities		noise generation			

# The summary of ecological inspection prepared by the Ecologist, Dr. Mark Shea is shown in Table 6.2.

Table 6.2 Summary results of ecological site inspection findings						
Date	Observations Advice from Action Taken		Action Taken	Closing		
		Ecologist		Date		
01 Jan	No major findings for this	No Advice is	No Action is required to	N/A		
2011	inspection	required	be taken			
08 Jan	No major findings for this	No Advice is	No Action is required to	N/A		
2011	inspection	required	be taken			
15 Jan	No major findings for this	No Advice is	No Action is required to	N/A		
2011	inspection	required	be taken			
22 Jan	No major findings for this	No Advice is	No Action is required to	N/A		
2011	inspection	required	be taken			
31 Jan	No major findings for this	No Advice is	No Action is required to	N/A		
2011	inspection	required	be taken			

#### **6.2 Non-compliance**

Two non-compliance events regarding insufficient of mitigation measures causing sediment runoff and water quality impact to the down stream were recorded on 26<sup>th</sup> January 2011 respectively.

During inspection carried out on 19<sup>th</sup> January 2011, the newly formed haul access and riverbanks at approximate ch.300 was not properly protected and therefore causing consecutive sediment runoff and water quality impact to the down stream area. As it was repeatedly observed durin the inspection on 26<sup>th</sup> January 2011 and due to the seriousness of the condition ET considered those as a non-compliance event. To rectify the discrepancies Contractor was requested to implement corrective actions immediately, which at least include the following:

- Bund wall should be provided at the edge of the haul access to prevent surface
- Exposed riverbanks and soil slopes should be covered with geo-textile coverings to prevent erosion and sediment runoff
- Any waste water, underground water and/or discharge within site area should be diverted to proper site water treatment facility for treatment before discharge into the river channel

The second non-compliance event was recorded due to the observation of muddy effluent discharge on 26<sup>th</sup> January 2011. During the inspection muddy water arisen from excavation activities being carried out at ch.250 was diverted to an under-designed site water treatment system. Muddy water without sufficient treatment was then discharged to the river channel and caused contamination to the downstream area. Due to the nature and quantities of site water generated from excavation, Contractor was recommended to further enhance their site water treatment system as to ensure effluent meets relevant requirements from applied Effluent Discharge License, Water Pollution Control Ordinance (WPCO) and Environmental Impact Assessment Ordinance (EIAO).

By the end of the reporting period implementation of proper follow up actions for the abovementioned discrepancies was still outstanding. And therefore, contractor was reminded again to implement necessary corrective actions as soon as possible. The effectiveness of mitigation measures implemented will be further checked by ET and

to be reported during the next EM&A report.

#### **6.3 Recommendations**

Contractor was recommended to implement necessary measures in mitigating water quality impact arisen from construction activities. Prior to excavation, bund walls wrapped by geo-textile should be formed as an enclosed environment for excavation activities to prevent any earth material and site water from entering into the river channel. Riverbanks and earth bunds should be covered with geo-textile coverings to prevent erosion. Contractor should also prevent excessive storage of any earth materials on site as to avoid soil debris from washing into the river channel by surface runoff.

Sufficient and effective site water treatment facilities should be provided on site. Any wastewater, underground water and muddy effluent within site area should be diverted for treatment before discharge.

Contractor should also implement necessary measures to mitigate noise generation from construction works such as demolition and boulder breaking. Hydraulic breakers for those activities should be covered by adequate noise insulation materials as far as practicable. Noisy activities should be scheduled and arranged to prevent parallel operation of site equipments and excessive noise generation during early morning.

#### 6.4 Implementation status and effectiveness of the mitigation measures

Refer the previous table 6.1, contractor has implemented mitigation measures to address those problems as advised by ER, IEC and ET. Some of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. Ongoing investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental items will be inspected in the upcoming month.

#### 7.0 Waste management status

It is the contractor's responsibility to ensure that all wastes produced during construction phase for the drainage improvement works are handled, stored and disposed of in accordance with good waste management practices and EPD's regulation and requirement. Waste materials generated during construction activities such as construction and demolition(C&D) material, chemical wastes and general refuse, are recommended to be audited at regular intervals to ensure that proper storage, transportation and disposal practices are being implemented. **Table 7.1** is the Waste Disposal recorded by the Contractor in this month.

From the report of Contractor, C&D materials generated, were all reused and therefore no inert waste was disposed from the project.

The following table showed amount of waste generation, reused and disposed from this project site in this reporting month.

Table 7.1 Summary of Waste generated and disposed in January 2011

Type of waste	Amount generated	Amount reused	Amount disposed
Inert waste	117 m <sup>3</sup>	117 m <sup>3</sup>	0
Non-inert waste	44 kg	0	44 kg
Chemical waste	0	N/A	0

The cumulative waste flow table is shown in Appendix H.

## 8.0 Status of environmental licensing and permit

This project requires different permits and licenses to be run legally. **Table 8.1** is the summary of permits/ licenses for this project.

Table 8.1 Summary of Environmental Licensing and Permit Status

Description	License / Permit No.	Date of Issue	Date of Expiry	Remarks
Environmental	EP-223/2005	31 <sup>st</sup> Aug, 2005	N/A	Superseded
Permit				
Amended	EP-223/2005/A	18 <sup>th</sup> Nov, 2008	N/A	Issued
Environmental				
Permit				
Construction Noise	N/A	N/A	N/A	N/A
Permit				
Effluent Discharge	3678	14 <sup>th</sup> Mar, 2008	31 <sup>st</sup> Mar, 2013	Issued
License				
Registration as a	5213-724-C3251-03	19 <sup>th</sup> Dec, 2007	Not applicable	Issued
Chemical Waste				
Producer				
Billing Account for	7006101	N/A	N/A	N/A
Disposal of				
Construction Waste				

#### 9.0 Future key issues

Construction of retaining wall, footbridge and gabion wall will still be major construction activities to be carried out in the upcoming month. The construction activities for these items will generate environmental impacts in several aspects.

To minimize water quality impact arising from construction activities within river channel, water quality mitigation measures should be implemented as far as practicable. Any muddy water, underground water or wastewater generated from construction activities should be diverted to proper treatment facility prior to discharge.

For the proposed construction activities, heavy plants and vehicles may be occupied and those would generate certain noise impacts to the sensitive receivers. To minimize noise generation, noisy activities should be well planned and scheduled to avoid parallel operation of multiple plants. Erection of noise barriers and/or movable barriers should be implemented whenever necessary.

Contractor was reminded to provide regular water spraying to dusty static area for dust suppression. Excessive storage of earthy stockpile and/or C&D wastes should be prevented to minimize air quality impact arisen by wind erosion.

Aforementioned construction works may generate wastes on site. Contractor is advised to assign a site area for temporary waste storage and segregation. Wastes accumulation should be prevented on site; licensed waste collection and disposal should be implemented regularly for hygiene issues.

#### 10.0 Conclusion

Construction of retaining wall, footbridge, formation and gabion wall were major site activities carried out by the Contractor in this reporting period.

Regular site meetings and inspection audits led by the seniors for discussing environmental issues were held among project proponent, Contractor and the Environmental Team on weekly basis.

Environmental Team had carried out construction noise monitoring on weekly basis. All results obtained were within limit and therefore no exceedance was recorded in this reporting month.

Piling works has been omitted. Therefore, no vibration monitoring was conducted during the reporting month.

From the summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, there is no abnormal finding observed in the reporting month. The ecologist has no further advice and no action suggested to the contractor.

Two non-compliance events, regarding generation of muddy water causing contamination to the downstream area, were recorded during weekly site inspection held on 26<sup>th</sup> January 2011. The follow up action taken by Contractor was still outstanding and final outcome will be updated during the next EM&A report.

There was no formal complaint in relation to environmental issue received in the reporting month.

Ecological impact monitoring was conducted on 27<sup>th</sup> January 2011. The next ecological impact monitoring would be carried out in July 2011.

ET has reminded the contractor to provide environmental pollution control measures wherever necessary; and to keep a good environmental management at site practice.

The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirement.

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Appendix A: Event and action plan for ecology		

#### Event and action plan for ecology

In the event of non-compliance, the Event / Action plan prepared by the ecologist shall be followed. Detailed Event/ Action plan was shown in **Appendix Table 1** for reference.

It is not proposed to set population size of the three species (i.e. Three-lined Chinese Stream Catfish, Predaceous and the Hong Kong Newt) or other faunal species for the Action Level and Limit Level in the revised EM&A manual in considering the following reasons:

- I. The schedule capture surveys would let to decrease in the populations of the target species; and
- II. The planned drainage works would also temporally de-fauna the stream habitat.

It is considered logical and appropriate to audit non-compliance events in relation with ecological mitigation measures, which were specified in the EP and the PS of the project.

# APPENDIX TABLE 1 Event / Action plan table for Ecology

Event				Action				
Event		ET		ER		IEC	(	Contractor
Non-confor	1.	Identify Source	1.	Check report	1.	Ensure	1.	Amend
mity on one	2.	Inform the IEC and the	2.	Check the Contractor's		Remedial		working
occasion		ER		working method		measures are		methods
	3.	Discuss remedial actions	3.	Discuss with the ET and		properly	2.	Rectify
		with the IEC, the ER and		the Contractor on possible		implemented		damage and
		the Contractor		remedial measures,				undertake
	4.	Monitor remedial actions	4.	Advise the Contractor on				any
		until rectification has been		effectiveness of proposed				necessary
		completed		remedial measures				replacement
			5.	Check implementation of				
				remedial measures				
Repeated	1.	Identify Source	1.	Check monitoring report	1.	Ensure	1.	Amend
Non	2.	Inform the IEC and the	2.	Check the Contractor's		Remedial		working
conformity		ER		working method		measures		methods
	3.	Increase monitoring	3.	Discuss with the ET and		are properly	2.	Rectify
		frequency		the Contractor on possible		implemented		damage and
	4.	Discuss remedial		remedial measures				undertake
		actions with the IEC,	4.	Advise the Contractor on				any
		the ER and the		effectiveness of proposed				necessary
		Contractor		remedial measures				replacement
	5.	Monitor remedial	5.	Check implementation of				
		actions until rectification		remedial measures				
		has been completed						
	6.	If exceedance stops,						
		cease additional						
		monitoring						

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Appendix B: Action and limit level for constr	ruction noise	,

# The Action and Limit levels for construction noise are defined in Appendix Table 2

Appendix Table 2: Action and Limit Levels for Construction Noise

Time Period	Action	Limit
0700 – 1900 hrs on normal weekdays	When one	75 dB(A)*
0700 – 2300hrs on holidays; and 1900 – 2300 hrs on all	documented	Subject to the control of
other days	complaint is	Noise Control
	received	Ordinance
2300 – 0700 hrs of next day		Subject to the control of
		Noise Control
		Ordinance

<sup>\*</sup>Limit level set in accordance with Particular Specification Section 26

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Guidance regarding vibration limits is provided by the following British Standards (or their equivalent ISO standards):

BS 7385 - Measurement and evaluation of vibration in buildings. Part 2: Guide to damage levels from ground borne vibration.

BS 7385 suggests vibration levels, below which damage is unlikely to occur in 95% of buildings. For cosmetic damage, the level is 15 mm/s at 4 Hz, increasing to 20 mm/s at 15 Hz, increasing to 50 mm/s at 40 Hz and above. Minor structural damage is possible at vibration levels twice those given above, major damage at four times the levels given.

**Appendix Table 3:** Transient vibration guide values for cosmetic building damage (BS7385:Part 2 1993)

	Type of Building	Peak component particle velocity (mm/s) in
		frequency range of predominant pulse
1	Reinforced or framed structures	50 at 4 Hz and above
2	Un-reinforced or light framed structures	15 at 4 Hz,
		increasing to 20 at 15 Hz,
		increasing to 50 at 40 Hz and above.

The vibration magnitudes and frequencies refer to Peak Particle Velocities (PPV) occurring in any single direction, measured on the ground level of the building concerned.

Chiu Hing Construction & Transportation Co., Ltd	River improvement	DC/2007/06 works in Upper Tai Po River Twenty-ninth Monthly Report
A P. D. N	1.4 11	4 1
Appendix D: Noise monitoring results, graphical	piots and loca	ttion pian

Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	66.2	70.4	60.6	7-Jan-11	09:24-9:54	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Cloudy	Façade
UTP 2	65.4	71.3	57.4	7-Jan-11	08:45-09:15	Boulder breaking and boulder movement	Background noise from traffic	Cloudy	Façade
UTP 3	68.4	73.7	60.2	7-Jan-11	10:01-10:31	Boulder breaking and boulder movement	N/A	Cloudy	Façade
UTP 4	68.8	72.6	61.7	7-Jan-11	10:35-11:05	Operation of backhoe	N/A	Cloudy	Façade
UTP 5	70.5	74.8	32.2	7-Jan-11	11:07-11:37	Operation of backhoe	N/A	Cloudy	Façade
UTP 6	66.8	72.2	58.0	7-Jan-11	15:55-16:25	Operation of backhoe	N/A	Cloudy	Façade
UTP 7	64.7	70.3	55.4	7-Jan-11	15:23-15:53	Operation of backhoe	N/A	Cloudy	Façade
UTP 8	64.3	69.3	53.4	7-Jan-11	14:50-15:20	Operation of backhoe	N/A	Cloudy	Façade
UTP 9	62.1	65.5	57.3	7-Jan-11	14:11-14:41	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 10	53.7	54.2	41.1	7-Jan-11	13:35-14:05	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 11	55.0	55.4	43.3	7-Jan-11	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	*Freefield

Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	63.3	68.0	55.4	14-Jan-11	09:29-9:59	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Cloudy	Façade
UTP 2	61.3	66.6	54.1	14-Jan-11	08:53-09:23	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Cloudy	Façade
UTP 3	65.6	66.8	62.2	14-Jan-11	10:07-10:37	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 4	66.4	71.0	58.2	14-Jan-11	10:43-11:13	Operation of backhoe	N/A	Cloudy	Façade
UTP 5	64.3	70.1	53.0	14-Jan-11	11:15-11:45	Operation of backhoe	N/A	Cloudy	Façade
UTP 6	62.4	66.3	51.8	14-Jan-11	16:07-16:37	Operation of backhoe	N/A	Cloudy	Façade
UTP 7	58.8	59.2	50.3	14-Jan-11	15:33-16:03	Operation of backhoe	N/A	Cloudy	Façade
UTP 8	60.3	64.1	51.6	14-Jan-11	14:58-15:28	Operation of backhoe	N/A	Cloudy	Façade
UTP 9	57.1	59.4	51.8	14-Jan-11	14:19-14:49	Operation of backhoe	N/A	Cloudy	Façade
UTP 10	52.2	52.4	41.6	14-Jan-11	13:37-14:07	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 11	54.3	54.3	45.2	14-Jan-11	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	*Freefield

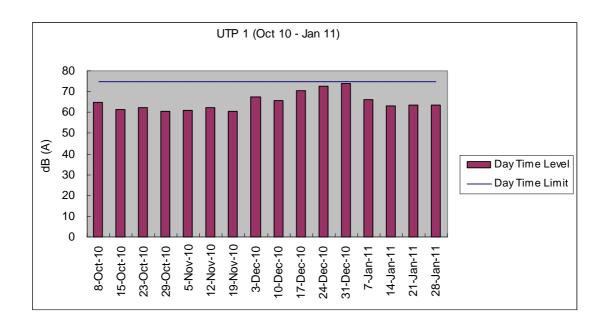
Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	63.4	68.4	54.7	21-Jan-11	09:38-10:08	Operation of backhoe	Background noise from traffic	Sunny	Façade
UTP 2	61.8	65.2	53.6	21-Jan-11	09:00-09:30	Operation of backhoe	Background noise from traffic	Sunny	Façade
UTP 3	63.4	65.8	60.7	21-Jan-11	10:15-10:45	Operation of backhoe	N/A	Sunny	Façade
UTP 4	68.3	74.6	60.4	21-Jan-11	10:52-11:22	Operation of backhoe	N/A	Sunny	Façade
UTP 5	63.4	70.2	57.4	21-Jan-11	11:25-11:55	Operation of backhoe	N/A	Sunny	Façade
UTP 6	62.4	66.4	55.4	21-Jan-11	16:00-16:30	Operation of backhoe	N/A	Sunny	Façade
UTP 7	64.0	66.8	57.3	21-Jan-11	15:23-15:53	Operation of backhoe	N/A	Sunny	Façade
UTP 8	68.8	73.5	60.3	21-Jan-11	14:48-15:18	Operation of backhoe	N/A	Sunny	Façade
UTP 9	63.4	66.6	56.6	21-Jan-11	14:09-14:39	Operation of backhoe	N/A	Sunny	Façade
UTP 10	55.4	55.9	43.3	21-Jan-11	13:33-14:03	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Sunny	Façade
UTP 11	56.4	56.7	45.0	21-Jan-11	13:00-13:30	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Sunny	*Freefield

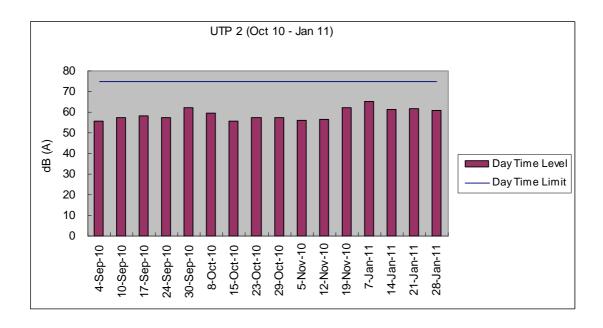
Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	63.4	68.8	56.2	28-Jan-11	13:34-14:04	Boulder Breaking	Background noise from traffic	Cloudy	Façade
UTP 2	60.8	67.4	53.2	28-Jan-11	13:00-13:30	Boulder Breaking	Background noise from traffic	Cloudy	Façade
UTP 3	68.6	74.4	60.5	28-Jan-11	14:09-14:39	Boulder Breaking	N/A	Cloudy	Façade
UTP 4	69.4	74.6	61.7	28-Jan-11	14:45-15:15	Operation of backhoe	N/A	Cloudy	Façade
UTP 5	70.8	76.4	65.6	28-Jan-11	15:17-15:47	Operation of backhoe	N/A	Cloudy	Façade
UTP 6	67.7	73.4	64.5	28-Jan-11	15:51-16:21	Operation of backhoe	N/A	Cloudy	Façade
UTP 7	67.0	74.3	63.4	28-Jan-11	11:27-11:57	Operation of backhoe	N/A	Cloudy	Façade
UTP 8	64.4	71.8	57.3	28-Jan-11	10:55-11:25	Operation of backhoe	N/A	Cloudy	Façade
UTP 9	64.3	66.6	58.3	28-Jan-11	10:18-10:48	Operation of backhoe	N/A	Cloudy	Façade
UTP 10	53.5	53.5	41.3	28-Jan-11	09:34-10:04	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	Façade
UTP 11	55.6	565.3	43.8	28-Jan-11	08:56-09:26	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Cloudy	*Freefield

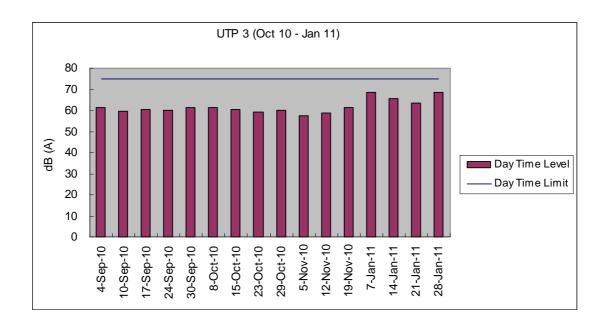
#### **Graphical plot for noise measurements**

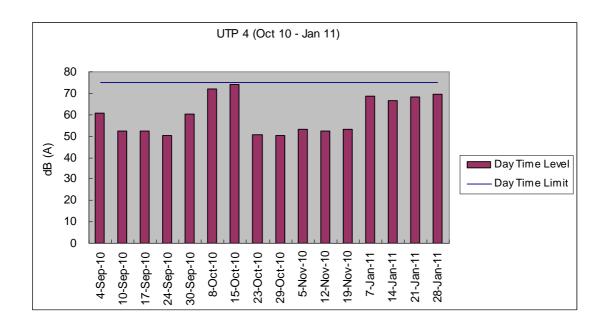
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from October 2010 to January 2011.

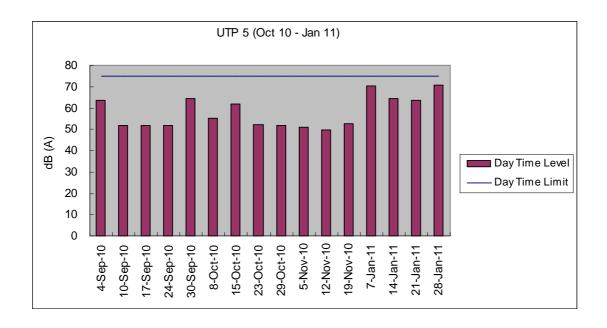
Noise monitoring originally proposed to be carried out 26<sup>th</sup> November 2010 was cancelled due to security and safety reason.

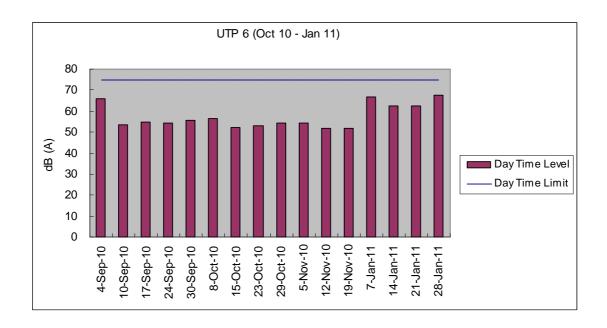


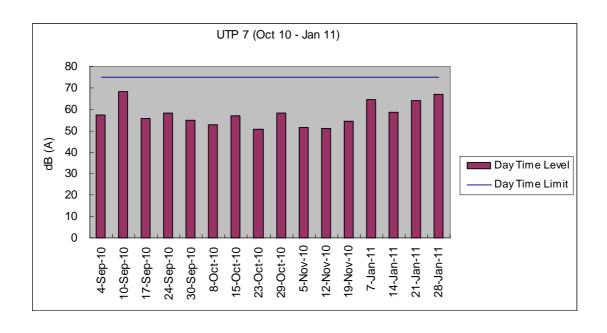


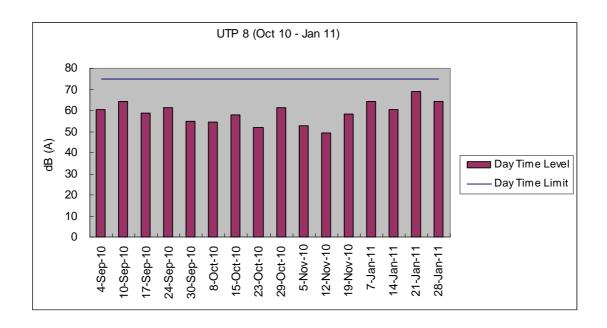


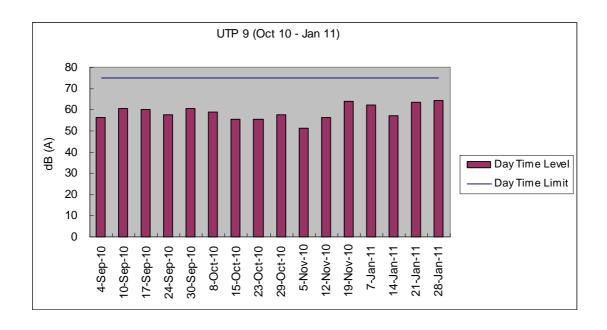


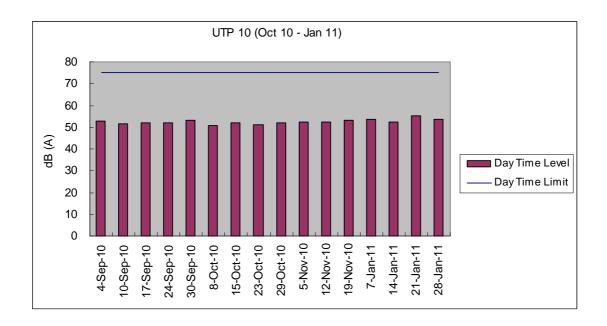


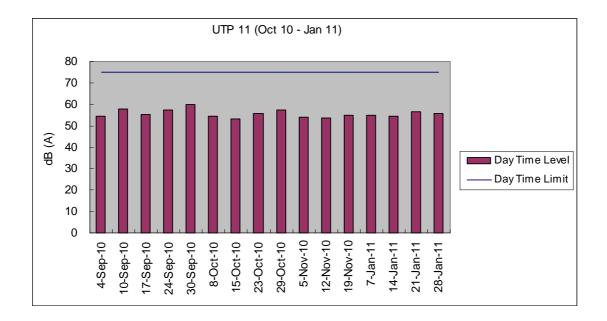


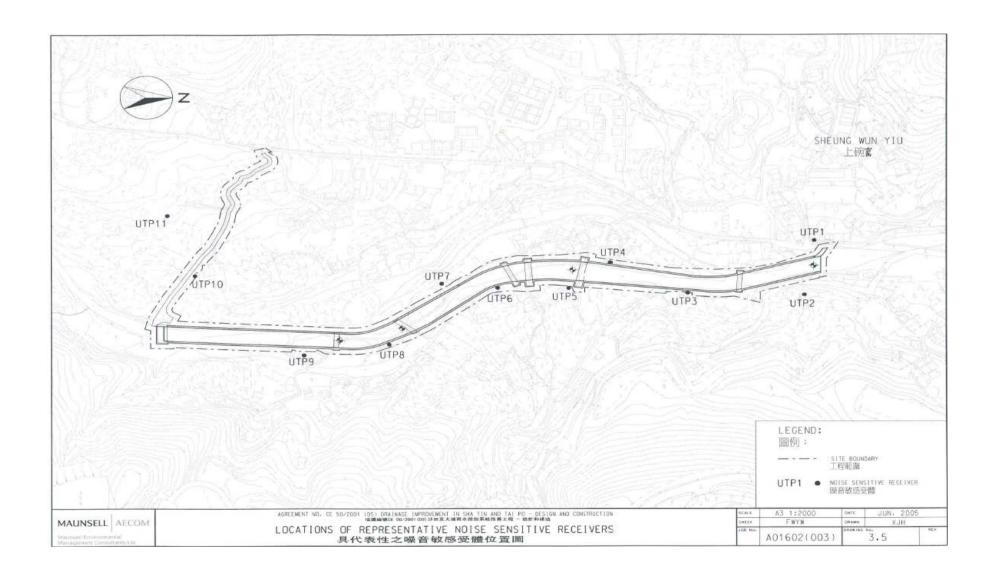












niu Hing Construction & Transportation Co., Ltd	River	improvement	DC/2007/06 works in Upper Tai Po River Twenty-ninth Monthly Report
Appendix E: Monitoring schedule for the pr	resent	t and nex	t reporting period

Chiu Hing Construction & Transportation Co., Ltd

# Master Schedule of EM&A works in January 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30/01	31/01					01/01
	Ecological site inspection					Ecological site inspection
02/01	03/01	04/01	05/01	06/01	07/01	08/01
			Site inspection at afternoon		Noise monitoring	Ecological site inspection
09/01	10/01	11/01	12/01	13/01	14/01	15/01
			Site inspection at afternoon		Noise monitoring	Ecological site inspection
16/01	17/01	18/01	19/01	20/01	21/01	22/01
			Site inspection at afternoon		Noise monitoring	Ecological site
23/01	24/01	25/01	26/01	27/01	28/01	29/01
			Site inspection and SSEMC at morning	Ecological impact monitoring	Noise monitoring	

### Master Schedule of EM&A works in February 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30/01	31/01	01/02	02/02	03/02	04/02	05/02
	Ecological site inspection	Site inspection at morning				
06/02	07/02	08/02	09/02	10/02	11/02	12/02
	Ecological site inspection		Site inspection at afternoon		Noise monitoring	
13/02	14/02	15/02	16/02	17/02	18/02	19/02
	Ecological site inspection		Site inspection at afternoon		Noise monitoring	
20/02	21/02	22/02	23/02	24/02	25/02	26/02
	Ecological site inspection		Site inspection and SSEMC at morning		Noise monitoring	
27/02	28/02					
	Ecological site inspection					

# **Appendix F: Cumulative complaint log**

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	<b>Brought forward</b>	January 2011	
Air/Dust	1	0	1
Noise	2	0	2
Water	8	0	8
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	11	0	11

Chiu Hing Construction & Transportation Co., Ltd			River improvement	works in Upper To Twenty-ninth Mon	DC/2007/06 ai Po River othly Report
Appendix G: Implementation mitigation measures	status	of	environmenta	l protection	and

# Implementation status of environmental protection and mitigation

Environmental	Protection / Mitigation Measures	Implementation	Follow-up
Aspect		status	action
Construction Noise	No percussive piling shall be carried out	Implemented	Not required
	-Use well maintained construction plant	Implemented	Not required
	-Shut down plants between work periods	Implemented	Not required
	-Install silencers on construction equipment	Implemented	Not required
	-Locate mobile plant far away from NSRs	Implemented	Not required
	-Quiet plants should be used	Implemented	Not required
	-2m high temporary noise barriers, as stipulated in EP condition 2.9,	Implemented	Not required
	shall be installed		
Fugitive Dust Emission	-Implement regular watering and vehicle washing facilities	Implemented	Not required
	-Cover excavated or stockpile of dusty material by impervious sheeting or sprayed with water	Implemented	Not required
	-Use tarpaulin to cover dusty materials on vehicles	Implemented	Not required
Water Quality	Excavation works within the Tai Po River within the Project shall be	Implemented	Not required
	carried out in stages and excavation area for each stage shall be limited		
	to section of half width of the channel and less than 100m long at any		
	one time in order to maintain water flow within the river during		
	construction stage		
	Land-based plant shall be employed and site run-off shall be directed	Implemented	Not required
	towards regularly cleaned and maintained silt traps and oil / grease		
	separators to minimize leakage and loss of sediments during excavation		
	Large boulders removed from the Tai Po River within the Project during	Implemented	Not required
	excavation shall be re-instated upon completion of works A section of		
	150m long natural riverbank on the western side of the river channel		
	(Ch0 –Ch150) shall be retained		
	The excavation area shall be enclosed with bunds or barriers and	Deficiency identified	Ongoing
	dewatered prior to excavation to minimize the impacts upon the		
	downstream of the Tai Po River		

	Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Implemented	Not required
	silt, grit and debris from the wastewater before pumped to the public		
	storm water drainage system		
	Provide site toilet facilities	Implemented	Not required
Waste	Reuse excavated material as far as possible	Implemented	Not required
Management			
	Recycle scrap metals or abandoned equipment	Implemented	Not required
	Adopt a trip ticket system for the disposal of C&D materials	Implemented	Not required
	All general refuse should be segregated and stored in enclosed bins or	Implemented	Not required
	compaction units		
Vibration	Percussive piling is to be replaced by bore-hole piling to minimize	Not applicable at this	Not required
	vibration impacts to the two identified Declared monuments	stage	
	Carrying out of vibration monitoring to ensure that vibration associated	Not applicable at this	Not required
	with the construction phase do not exceed the threshold limit otherwise	stage	
	contractor have to review the work method and construction activities		
	have to be slow down or rescheduled to reduce the impacts		
	Close monitoring and measurement on the cracks of the external wall of	Not Applicable at this	Not required
	Fan Sin Temple during construction works will be carried out. Any	stage	
	changes on the cracks will be recorded for the contractor to slow down		
	the construction activities accordingly; and to review the work methods		
	and equipments immediately		

# Implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, Dr. Mark Shea.

Environmental	Protection / Mitigation Measures	Implementation status	Follow-up
Aspect			action
Ecology	Large boulders will be returned to the riverbed	Not applicable	Not
	following the excavation works.		required
	Construction works from Ch. 0.0m - Ch. 150m	Concerns raised due to the flood incident on	To be
	would be along one side of the river only	22 Jul 10 and the follow up flood relief works	followed
	Approximately 150m of the existing natural	Implemented	Not
	riverbank on the western side of the river would be		required
	retained.		
	Excavation works within the river channel should	Implemented	Not
	be restricted to an enclosed dewater section of the		required
	river, and would be limited to sections 50-100m		
	long at any one time.		
	Flows to the area downstream shall be maintained	Implemented	Not
	at all times during the construction phase		required
	Capture survey shall be conducted within the Tai	Capture surveys had been conducted at the	Not
	Po River before commencement of works. The	beginning of the Contract, during the wet	required
	captured target species shall be relocated to areas of	season July/August 2008, 4th November 2008,	
	the watercourse upstream of the watercourse	27 <sup>th</sup> , 28 <sup>th</sup> October 2009, 15 <sup>th</sup> October and 9 <sup>th</sup>	
	upstream of the Tai Po River	November 2010	
	Temporary noise barriers should be constructed to	Implemented	Not
	control noise impacts to habitats and associated		required
	wildlife within and adjacent to the proposed works		
	area		
	Excavation works shall be carried out by land based	Implemented	Not
	plant within enclosed dry section of river channel.		required
	Compensatory planting of trees and other	Not applicable	Not
	vegetation along the banks of the newly improved		required
	drainage channel should be provided to compensate		
	for the loss of riparian vegetation.		
	Operation phase activities in the improved drainage	Not applicable	Not
	channel would be limited to periodic channel		required
	maintenance such as de-silting.		

### **Appendix H: Cumulative waste flow table**

Cumulative waste flow table showing amount of wastes generated, reused and disposed since 15<sup>th</sup> September 2008

Type of waste		Inert Waste		ı	Non-Inert Waste	)	Chemica	al Waste
	Amount generated	Amount reused	Amount disposed	Amount generated	Amount reused	Amount disposed	Amount generated	Amount disposed*
Year 2008 to 2009	36.9m <sup>3</sup>	0	36.9m <sup>3</sup>	2.000 tonnes	0	2.000 tonnes	20kg	20kg
Year 2010	1955m <sup>3</sup>	1955m <sup>3</sup>	0	0.192 tonnes	0	0.192 tonnes	0	0
January 2011	117m <sup>3</sup>	117m <sup>3</sup>	0	0.040 tonnes	0	0.040 tonnes	0	0
Total	2108.9m <sup>3</sup>	1944m³	36.9m <sup>3</sup>	2.232 tonnes	0	2.232 tonnes	20kg	20kg

Remark\*: Chemical wastes generated from the project sites including Upper Tai Po River, Lam Tsuen River and She Shan River were centralized for disposal.

Appendix I: Construction programme (Rev. No. 14)

Revised Mast	1053	1052	1051	VCOI	1050		1048 P		1046	1045	1044	WO!	1043	1042	1041	1040	1039	0001	1037	1037	2001	1035	1020	1022	1001	1031	1029	0001	1020	0701	1026	1024	1023	1022	1021	1020	1019	8101	1017	9101	5101	1013	1012	1011	1010	1009	1008	1006	1005	1004	1003	1002	1001	1000	998	997	996	ID 任務名稱			
Revised Master Prog (Aug10-Apr1	Gabion Wall (Ch 235-300 RHS) TG1	Ch 230-350	Wet Season of 2012	TO STORY OF THE ST	Wet Season of 2011	Wet Season of 2010	Programme of Upper Tai Po River		Reinstatement of river bed	Install Stone racing	Install Stone Es	Material delivery	Temp. Haul Rd/Divesion	Variation Order No. 145	Reinstatement of river bed	Make Good	Make Cond	Discement of Co	Rlinding layer	Excavation Excavation	Temp drainage	Material delivery	Variation Order No. 232	Infill of Planting Soil	Installation of Planters	PVC sheeting	Blinding layer	Temp drainage	Mararial delivery	Fabrication of P	Variation Order No. 116	Watermain Diversion	T&C	Public Lighting	Dwarf Wall/Drav	Footbridge SB01	Excavation to fo	Drainage pipe ar	Chainlink fencing	Install Handrails	Footpath constru	Section 2 - site stidit Nivet (Alica is	Cartion 7 Cha Chan Riv	Footpath / Surface Dramage	Temp. Drainage	Grade 500 Rockfilling	Excavation to for	From CHL 2000 to CHL 1850	Watermain Diversion	Removal of Publ	T&C	Public Lighting I	Dwarf Wall/Drav	Footbridge SB02 Deck	Retaining Wall B	Chamink lencing	Install Handrails/Chainage Markers	7			
任務 (1998年1998年1998年) 里程碑	35-300 RHS) TG1						River		f nver bed	CIER	0.00	V	Divesion	145	f nver bed		Title Links	Rike			diversion	V to	232	Soil	anters		Rinding lawer	diversion/ haul rd	ECON CUINTOR LIMINA	Edwinstrian of Descript Concrete Planter	116	SJON		Public Lighting Installation (CE2278/79)	Dwarf Wall/Drawpit and Ducting Construction	Footbridge SB01 - Dwarf Wall	rm new arrangement of river bed (Prov. Substrate	Drainage pipe and U-channel construction	6	Install Handrails/Chainage Markers	Footbath construction at LHS (Ch. 1520 to 1600)	From CHL 1850 to CHL 1550	(Area K) Ch 1850 to 1550	e Dramage	Temp. Drainage Diversion at Ch.2025	filling	Excavation to form new arrangement of river bed (Prov. Substrates on riverbed	HL 1850	sion	Removal of Public Lighting VE 1240-A1		Public Lighting Installation (CE2281/82/83/84/85/86)	Dwarf Wall/Drawpit and Ducting Construction	Deck	Retaining Wall Bay 9 and Bay 10 Construction	II showed construction (both sides)	Chainage Markers				
•																																					s on riverbea					SW.																עע			ZIV
	30 days	444 days	Add do	184 days	183 days	184 days	1001 uaya	such 1381	Juays	2 days	14 days	14 days	7 days	38 days	Quaya	3 days	4 days	3 days	I day	2 days	3 days	14 days	30 days	12 days	14 days	3 days	3 days	7 days	14 days	35 days	248 days	artimos	/ days	14 days	60 days	60 days	45 days	40 days	30 days	30 days	40 days	236 days	491 days	21 uays	14 days	40 days	151 days	172 days	21 ways	2 days	7 days	21 days	60 days	30 days	31 days	45 days	30 days				CI IIIIpiov
上顯迅作游	1/10/2011	14/1/2011	140011	1/5/2012	1/4/2011	1/4/2010	100216100	78/0/2/0/27	110216011	1100/5/00	15/5/2011	1/5/2011	24/4/2011	1107/6/67	TOTALITA	21/0/2011	17/4/2011	14/4/2011	13/4/2011	11/4/2011	8/4/2011	25/3/2011	25/3/2011	13/3/2011	27/2/2011	24/2/2011	21/2/2011	14/2/2011	24/8/2010	20/7/2010	20/7/2010		1107/11/01	1107/11/7	1102/6/5	5/1/2011	21/5/2011	11/4/2011	10/6/2011	11/5/2011	1/4/2011	1/4/2011	20/7/2010	0107441	0107/6/81	20/2/2010	1/11/2009	1/11/2009	11071011	1107/0/87	1107/011	31/5/2011	1/4/2011	11/3/2010	1/3/2010	30/7/2011	30/6/2011	JIEIC			
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Drainage Services Department Contract No. DC/2007/06

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Revised Master Prog (Aug10-Apr1 在版 SSEESSEESSE 里程岬	Backfilling	Gabion Wall Construction (Ch 330-350 LHS)	Excavation and Formation	Gabion Wall (Ch 330-350 LHS) TG2		T&C	Public lighting Installation (CE2314)	Public lighting Installation (CE2313)	Construction of Drawpits / Ductings	Lighting at Footbridge TB05	Demolition works	Demolition of Bridge TB-B	Railing installation	Stripping off formwork	Concepting	Construction of account	Supping of formwork	Concreting of column	Rebar fixing and shuttering formwork for column	Supping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	Construction of Abutment B (RHS)	String of formwork	Concepting of column	Supping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	Construction of Abutment A (LHS)	Footbridge TB05 (ch 350)	IOO	T&C	Public lighting Installation (CE2315)	Construction of Drawpits / Ductings	Lighting at Footbridge TB04	Demolition works	Demolition of Bridge TB-A	Railing installation	Stringing off formwork	Formwork and rebar fixing for decking	Construction of decking	Stripping off formwork	Concreting of base slab	Rebar fixing and shuttering formwork for column	Stringing of formwork	romwork and rebat lixing for base stab	Excavation and Blinding	Construction of Abutment B (RHS)	Stripping off formwork	Concreting of column	Dahar Swing and chartograp formands for column	任務名稱
•	4 days	6 days	6 days	16 days		1 day	6 days	6 days	12 days	19 days	3 days	3 days	2 days	14 days	l day	17 days	on days	I day	4 days	3 days	1 day	4 days	5 days	21 days	3 days	- day	A days	l day	4 days	5 days	21 days	440 days	o unjo	6 days	12 days	18 days	36 days	3 days	3 days	2 days	i 4 days	12 days	29 days	3 days	l day	5 days	3 days	) days	5 days	23 days	2 days	l day	€ dans	Duration
上顯型任務	9/3/2011	3/3/2011	25/2/2011	25/2/2011		28/3/2012	22/3/2012	22/3/2012	10/3/2012	10/3/2012	10/3/2012	10/3/2012	8/3/2012	23/2/2012	22/2/2012	2102/2/01	1107/2/1	31/1/2011	27/1/2011	24/1/2011	23/1/2011	19/1/2011	14/1/2011	14/1/2011	22/2/2011	1100011	1100011	13/2/2011	9/2/2011	4/2/2011	4/2/2011	14/1/2011	and the second	27/3/2012	15/3/2012	26/2/2012	26/2/2012	26/2/2012	26/2/2012	24/2/2012	10/2/2012	28/1/2012	28/1/2012	20/2/2011	19/2/2011	14/2/2011	11/2/2011	1100/001	31/1/2011	31/1/2011	6/3/2011	5/3/2011	1100080	Start
	12/3/2011	8/3/2011	2/3/2011	12/3/2011		28/3/2012	27/3/2012	27/3/2012	21/3/2012	28/3/2012	12/3/2012	12/3/2012	9/3/2012	7/3/2012	22/2/2012	21020010	1102076	31/1/2011	30/1/2011	26/1/2011	23/1/2011	22/1/2011	18/1/2011	3/2/2011	24/2/2011	1100011	1107/2/01	13/2/2011	12/2/2011	8/2/2011	24/2/2011	28/3/2012		1/4/2012	26/3/2012	14/3/2012	1/4/2012	28/2/2012	28/2/2012	25/2/2012	23/2/2012	8/2/2012	25/2/2012	22/2/2011	19/2/2011	18/2/2011	13/2/2011	1100001	9/2/2011	22/2/2011	7/3/2011	5/3/2011	1100277	Finish
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Drainage Services Department Contract No. DC/2007/06

		34			2011			6 days	Backfilling	1227
					2011			15 days	Cahion Wall construction (Ch 100-150 RHS)	
	-	74			2011	2011 20/3/2011	ys 24/2/2011	25 days	Gabion Wal (Ch 100-150 RHS) TGZ	
		60			2011	1102/2011	ys 14/2/201	4 days	Formwork and concreting	
		41			2011		Tarres E	4 days	Maintainence Staircase (Ch 185 LHS)	
	7.041	64			2011			5 days	Backfilling	
		P42			1100	2011 23/3/2011	ys 14/3/2011	10 days	Gabion Wall (Ch 185-230 LHS) Remaining Works Gabion Wall construction (Ch 190-230 LHS)	1217 Gabio
		0			2011			5 days	Backfilling	
		<b>P</b>			2011			18 days	Gabion Wall construction (Ch 140-190 LHS)	
		9 •			2011		ys 14/2/2011	10 days	Excavation and formation	
		1			011			22 A	WELLING TOO I HOVED	1212
		@ <b>*</b>			2011	2011 22/4/2011	ys 2/4/2011	21 days	River fied infination (Cir 50-150)  Placing Grade 500 toe Stone	
					Š.			2	0.3 E	
351		*						O way o	Notice of externily filling (a productive)	1208
		- F			1102	1102/5/1	ys 26/4/2011	12 days	Public lighting Installation (CE2309)	3 8
		¥9	•••		2011			12 days	Public lighting Installation (CE2308)	1205
		P			2011			21 days	Construction of Drawpits / Ductings	
		1			2011			51 days	Lighting at Footbridge TB02	
		y			2011			7 days	Railing installation	202
		<b>9</b> 4	4		2011			1 da	Stripping off formwork	100
					1100	11002/6	ys 14/2/2011	20 days	Formwork and rebar fixing for decking	199
		1			2011			47 days	Construction of decking	
					2010			2 days	Stripping off formwork	
			(F)		2010			1 day	Concreting of column	1196
			<b>F√</b>		2010			5 days	Rebar fixing and shuttering formwork for column	1195
			r¢		2010	2010 16/10/2010	ay 13/10/2010	1 day	Concreting of base slab	1193
			**************************************		2010			5 days	Formwork and rebar fixing for base slab	1192
			\$P.		2010			6 days	Excavation and Blinding	
			1		2010	2		23 days	Construction of Abutment A (LHS)	
		Commence			2011			224 days	Footbridge TB02 (Ch 150)	
- N					2011	2007 22/12/2011		1547 days		Ch 4
,					2012			, varj	Suipping ou Journwork	1187
**					2012	2102/2/10 2102	ay 20/3/2012	I day	Concreting of base stab	
· ·					2107			4 days	Formwork and rebar fixing for base stab	
<b>4</b> 5					2012			7 days	Excavation and Blinding	
48					2012	65		13 days	Step 4 (Ch 350)	Step
									6	
~					2012			5 days	Placing Grade 500 toe Stone	
4					2012	2012 28/2/2012	vs 24/2/2012	5 days	River Red formation (Ch 330.35(1))	1170 River
		0			2011	2011 1/3/2011	ys 18/2/2011	12 days	Construction of drainage & footpath	
		4			2011			12 days	Drainage & Footpath (Ch 330-350 RHS)	
		94			2011			4 days	Backfilling	
		94			2011			6 days	Gabion Wall Construction (Ch 260-270 LHS)	
		94			2011			4 days	Excavation and Formation	
		1			2011			14 days	Cabion Wall (Ch 330-345 RHS) TG2	Gahi
-		1			2011	24/3/2011	ys 13/3/2011	12 days	Drainage & Footpath (Ch 330-350 LHS)	1170 Drain
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# Revised Master Programme Aug 2010 - Apr 2013

Revised Ma: 日期: 19/1/20	1200	1284	1283	7871	1281	1280	12/9	12/8	170	0/71	276	12/4	1273	1272	1271	1270	1269	1021	1260	1265	1264	1263	1262	1261	1260	1259	1258	1357	1255	1254	1253	1252	1251	1250	1248	1247	1246	1245	1244	1242	1241	1240	1239	1238	1237	1235	1234	1233	1231	1230	1229	1228	Control Street
Revised Master Prog (Aug10-Apr1日期: 19/1/2011	rubiic ngnu	Public lighti	Public lighti	Public light	Construction	Lighting CH 1/3-230	Backfilling	Construction	Excavation	Gabion waii (Cii Zi0-ZZ) KH3) 101	Formwork a	Maintainence Staircase (Ch 180 LHS)	Backhiling	Construction	Excavation a	Gabion Wall (Ch 185-210 RHS) TG1	Liacilly Clar	Placing Gode SW to Stone	Stripping off formwork	Concreting of base slab	Formwork a	Excavation a	Step 1 (Ch 180)	Remov	T&C	Public	Public	Construction at the construction of the constr	Railing	Strippin	Concreting	Formw	Constructio	Stripping o	Kebarr	Strippii	Concre	Formw	Excava	Construction of Abuta	English TDO	Backfilling	Construction	Excavation a	Gabion Wall (Ch 160-185 RHS) TG4	Cabion Wall	Excavation a	Gabion Wall (Ch 150-160 RHS) TG4	Construction	Drainage & Footpath (Ch 0-150 RHS)	Formwork a	Maintainence Staircase (Ch 130 RHS)	
任務	Public lighting installation (CE2224)	Public lighting Installation (CE2523)	Public lighting Installation (CE2320)	Public lighting installation (CE2319)	Construction of Drawpits / Ductings	0-250		tot Captott w	Excavation and formation	1X C77-017	Formwork and concreting	aircase (Ch I		of Gabion W	Excavation and formation	185-210 RF	Liacilly Orlane 200 for 3folio	the SOO top Ste	I Iomwork	of base slab	nd rebar fixin	Excavation and Blinding		al of existing	WOOD STATE OF THE PARTY OF THE	lighting Instal	lighting Instal	Construction of Drawnits	Railing installation	Stripping off formwork	ling	ork and rebar	Construction of Decking (TB03)	Stripping off formwork	ixing and snu	Stripping off formwork	Concreting of base slab	ork and rebar	Excavation and Blinding	Construction of Abutment B (RHS)	וניף אוויי		of Gabion W	Excavation and formation	160-185 RF	Construction	Excavation and formation	150-160 RF	Construction of drainage & footpath	tpath (Ch 0-1	Formwork and concreting	aircase (Ch 1	
(88888888888888888888888888888888888888	1 (CE2524)	1 (CE2323)	1 (CE2320)	1 (CE2319)	/ Ductings			Collegetion of Capton Watt (Cn 210-223 KHS)	711 (C) 210 225 BHS)	101 (61	IC) TC1	80 LHS)	00 1 100	Construction of Gabion Wall (Ch 185-210 RHS)		IS) TG1	NIC	-16U)	1900		Formwork and rebar fixing for base slab			Removal of existing lighting (VA1309-Z1)		Public lighting Installation (CE2322)	Public lighting Installation (CE2321)	pus / Dictings	ROS	rk		Formwork and rebar fixing for decking	(TB03)	rk.	Rebar fixing and shuttering formwork for column	EX	ab	Formwork and rebar fixing of base slab	ling	nt B (RHS)			Construction of Gabion Wall (Ch 160-185 RHS)		IS) TG4	Cabion Wall Construction (Ch 150-160 KHS)  Backfilling		IS) TG4	k lootpath	50 RHS)		30 RHS)	
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1.	to days	6 days	6 days	0 days	12 days	21 days	4 days	ouays	6 days	14 uays	14 days	4 days	4 days	6 days	4 days	14 days	o caps	6 days	6 days	l day	4 days	7 days	13 days	2 days	1 day	6 days	6 days	12 days	2 days	14 days	1 day	10 days	27 days	2 days	1 days	5 days	1 day	5 days	12 days	29 days	83 days	4 days	6 days	4 days	14 days	6 days	4 days	14 days	28 days	28 days	4 days	4 days	
上顯型任務	102/2/1/07	1100/01/01	13/13/201	107771161	107/71/1	1102/21/1	1100/11/1/2	100/11/12	11/1/1/1/11/11/11/11/11	1102011111	1100111/11	1100/11/61	1102/11/6	3/11/2011	30/10/2011	30/10/2011	111002101111	000/01/11	1002/01/11	9/10/2007	5/10/2007	28/9/2007	28/9/2007	21/12/2011	20/12/2011	14/12/2011	8/12/2011	26/11/2011	24/11/2011	10/11/2011	9/11/2011	30/10/2011	30/10/2011	28/10/2011	1100/01/70	10001/6	18/10/201	13/10/2011	1/10/2011	1/10/2011	1/10/201/1	25/10/2011	19/10/2011	15/10/2011	15/10/2011	11/10/2011	1/10/2011	1/10/2011	1107/6/1	1/9/2011	21/3/2011	21/3/2011	
		1100/01/81				1			1100/11/90	200						-			16/10/2007				-					7/12/201							27/10/201						100/61/66	28/10/2011				14/10/2011	4/10/201	14/10/201	75/9/2011			24/3/2011	
	0.11	21.1	011	011	211	711		011	311	711	)11		011	011	011	Ξ	201	207	X) 7	8 0	307	07	)07	011	011	110	011	)11	)]] ]]	211	)II	DII	21	)II			011	)II	)11	Ξ:		110	11	)II		)]]		OI 1	111		11(	A	
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River Improvement Works in Upper Lam Tsusen River, SNS Shan River and Upper Tail Po River  Revised Master Programme Aug 2010 1. Apr 2013    Damin   Sem   Fem   Lamb   Lam	Date   Property   Pr	5.3	Concretifi	Concreting	Formwork and	Construction of Ba	Stripping off for	Concreting	Formwork and	Construction of Ba	Excavation and blin	Retaining Wall (LHS)	Retaining Wall at Access D	Stripping off formwork	Concreting	Formwork and rebar fixi	Construction of Wall Stem a	Concreting	Formwork and rebar fixi	Excavation and Blinding	Construction of Base Slah	Backfill	Stripping off formwork	Concreting	Stripping off formwork  Rehar fixing and shuttering for	Concreting of base slab	Formwork and rebar fixing or	Excavation and Blinding	Dwarf Wall (Ch 60-75) RHS	Filling Work at Boulder Trap (	Backfill the Retain	Stripping off formy	Formwork and reb	Construction of Wall S	Stripping off formy	Formwork and reb	Construction of Wall S	Stripping off forms	Concreting	Construction of Base	Stripping off form	Formwork and reb Concreting	Construction of Base ?	Excavation and blinding	Retaining Wall (RHS)	Ch -23-110	Livering Grade Soo live Stolli	River Bed formation (Ch 180-2	Removal of existing lighting	Removal of existing lighting		<b>日禄夕</b> 籍	
Rever   Improvement Works in Upper Lam Tsuen River and Upper Tail Po River   Revised Master Programme Aug 2010 - Apr 2013	Rever   Improvement Works   In Upper Lam   Stant River and Upper Tail Po River   Revised Master Programma Aug 2010 - Apr 2013   Mild	(2000年) 里程碑			rebar fixing	ase Slab, Bay 1	ormwork		rebar fixing	ase Slab, Bay 2	nding		(Boulder Trap)		0	ing and rop orac	and Ton Slah		gni	0.0				OTHWOLK TOT COUNTIL	commonly for column		f base slab			RHS of downstream)	ing Wall	Work	ar fixing	Stem, Bay 1 and 3	work	ear fixing	Stem, Bay 2 and 4	work	ar hxing	Slab, Bay 1 and 3	work	oar fixing	Slab, Bay 2 and 4	(PG)	oulder (rap)			30)	(VA1310-A1)	g (VE2641-A1)			
Hair 2, 2011 J A S O N D Hair L  THOUSE THE STATE OF THE	Hair 2012    Hair 1.0012   Hair 2.2012   J   A   S   O   N   D   J   F   M   A   M   J   J   A   S		1 uay	1 day	4 days	8 days	3 days	1 day	4 days	8 days	6 days	41 days	41 days	5 days	1 day	4 days	o days	1 day	5 days	6 days	341 days	5 days	I day	1 day	l day	1 day	5 days	4 days	6 days	6 days	3 days	3 days	4 days	11 days	1 day	4 days	8 days	3 days	4 days	8 days	3 days	4 days	8 days	6 days	41 days	604 days	14 days	14 days	2 days	1 day 2 days	Dulanoi	,	RiverImp
Hair 2, 2011  J A S O N D Hair I.  Fig. 1.	Hair 2, 2017  Hair 1, 2017  Hair 2, 2017  Ha	上顯型任務	0107/11/61	0102/11/61	0100/11/51	15/11/2010	12/11/2010	11/11/2010	7/11/2010	7/11/2010	1/11/2010	1/11/2010	1/11/2010	13/11/2011	12/11/2011	1107/11/8	1102/11/6	4/11/2011	30/10/2011	24/10/2011	24/10/2010	19/10/2011	18/10/2011	17/10/2011	11/10/2011	10/10/2011	5/10/2011	1102/01/1	30/8/2010	30/8/2010	9/10/2010	0102010	1/10/2010	1/10/2010	28/9/2010	23/9/2010	23/9/2010	20/9/2010	15/9/2010	15/9/2010	12/9/2010	7/9/2010	7/9/2010	1/9/2010	1/9/2010	30/8/2010	24/11/2011	24/11/2011	20/12/2011	20/12/2011	TIPIC		rovement v
Hair 2, 2011  J A S O N D Hair I.  Fig. 1.	Hair 2, 2011 Hair 1, 2012 Hair 2, 2012  Hair 2, 2012  Hair 2, 2012  Hair 2, 2012		13/11/2010	0102/11/61	0100/11/81	22/11/2010	14/11/2010	11/11/2010	10/11/2010	14/11/2010	6/11/2010	11/12/2010	11/12/2010	17/11/2011	12/11/2011	1102/11/11	1100/11/21	4/11/2011	3/11/2011	29/10/2011	24/4/2012	23/10/2011	18/10/2011	17/10/2011	11/10/2011	10/10/2011	9/10/2011	4/10/2011	4/9/2010	4/9/2010	11/10/2010	010/2/01/8	4/10/2010	11/10/2010	30/9/2010	26/9/2010	30/9/2010	22/9/2010	18/9/2010	22/9/2010	14/9/2010	10/9/2010	14/9/2010	6/9/2010	010201/11	24/4/2012	1102011	7/12/2011	21/12/2011	21/12/2011		evised Ma	Vorks in Up
Hair 2, 2011  J A S O N D Hair I.  Fig. 1.	Haif 2, 2011	上類型進度		*.0.4			2.70								**	*.*.			* * *					1314	~ ~ •												222														0 N D	ster Programme Aug 2	per Lam Tsuen River, She
O N D Hair F.	Haif 1. 2012   Haif 2. 2012   Haif 2. 2012   Haif 3. 2012   Haif	外部任務	27		41		P.	7" <b>∢</b> "	5F4:	4 *	9	1	1			• • •													63	4	•	**	€ <sup>24</sup>	4		•	4			(1)	7*♦⊅		4	7	11				••		J A S O N D J F M A M J	5500	Shan River and Upper Tai Po River
	Haif 2, 2012   Haif 2, 2012	1		i ( ac la		- 340	4 (47)						80		r45	48	<i>SP</i>	45"4	94	743		94	מיים		45.4			1														0.00					60		**		O N D J F		

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Revised Master Prog (Aug10-Apr1 任務 医医型性衰弱 里程碑	Laying concrete blocks and gabion blocks	Excavation and Evidentium	Execution and Execution	Retaining Wall (Ch 400-450 LHS) TRI (replaced by ADI)	Backfiling	Laving concrete blocks and gabion blocks	Excavation and Formation	Retaining Wall (Ch 400-450 RHS) TR1 (replaced by AD1)	Demontroll works	Demolition works	T&C	Public lighting Installation (CE2310)	Public lighting Installation (CE2311)	Construction of Drawpits / Ductings	Lighting at Footbridge TBU6	Railing installation	Stripping off formwork	Concreting	Formwork and rebar fixing for decking	Construction of decking	Stripping off formwork	Concreting	Stripping off formwork	Concreting of base slab	Formwork and rebar fixing of base slab	Excavation and Blinding	Construction of Abutment A (LHS)	Footbridge TB06 (Ch 400)	Backfilling	Laying concrete blocks and gabion blocks	Excavation and Foramtion	Retaining Wall (Ch 345-400 LHS) TR1 (replaced by AD1)	Ch 350-450	Kemoval of existing lighting (VALZ/9-AL)	Removal of existing lighting (VA1278-A1)	T&C	Public lighting Installation (CE2302)	Public lighting Installation (CE2301)	Public lighting Installation (CE2300)	Construction of Drawpits / Ductings	Lighting at Access D	Pailing and street firmiture	Road Kerb and formation	Vehicular Access D	Backfill the Retaining Wall	Stripping off formwork	Concreting	Formwork and rebar fixing	Construction of Wall Stom Bay	Concreting	Formwork and rebar fixing	Construction of Wall Stem, Bay 2	Stripping off formwork	名稱		
•	12 days	12 days	10 days	30 days	6 days	12 days	12 days	30 days	o days	3 days	2 days	5 days	5 days	10 days	22 days	2 days	14 days	I day	10 days	27 days	3 days	4 days	3 days	1 day	4 days	6 days	22 days	435 days	12 days	12 days	24 days	477 days	477 days	2 days	2 days	1 day	3 days	3 days	3 days	21 days	734 days	30 days	80 days	329 days	3 days	3 days	1 day	4 days	3 days	1 day	4 days	8 days	3 days	Duration		
松井低間十	16/3/2011	1107/5/15	11077014	4/3/2011	27/1/2011	15/1/2011	110011/2	1100/1/2	4/4/2012	4/4/2012	22/4/2012	17/4/2012	12/4/2012	2/4/2012	2/4/2012	2/4/2012	19/3/2012	18/3/2012	8/3/2012	8/3/2012	\$/3/2011	28/2/2011	25/2/2011	24/2/2011	20/2/2011	14/2/2011	14/2/2011	14/2/2011	4/3/2011	20/2/2011	27/1/2011	3/1/2011	3/1/2011	20/5/2012	18/3/2012	17/3/2012	14/3/2012	14/3/2012	14/3/2012	1/8/2/011	7107/4/01	13/4/2012	1/6/2011	1/6/2011	9/12/2010	6/12/2010	5/12/2010	1/12/2010	0102/11/87	27/11/2010	23/11/2010	23/11/2010	20/11/2010	Start	Re	)
(1010/1010/1010/1010/1010/1010/1010/101	27/3/2011	1107/6/61	1107/4/7	1107071	1/2/2011	26/1/2011	14/1/2011	110001	6/4/2012	6/4/2012	23/4/2012	21/4/2012	16/4/2012	11/4/2012	23/4/2012	3/4/2012	1/4/2012	18/3/2012	17/3/2012	3/4/2012	7/3/2011	3/3/2011	27/2/2011	24/2/2011	23/2/2011	19/2/2011	7/3/2011	23/4/2012	15/3/2011	3/3/2011	19/2/2011	23/4/2012	23/4/2012	21/5/2012	19/3/2012	17/3/2012	16/3/2012	16/3/2012	16/3/2012	21/8/2011	21020417	12/4/2012	19/8/2011	24/4/2012	11/12/2010	8/12/2010	5/12/2010	4/12/2010	30/1/2010	27/11/2010	26/11/2010	30/11/2010	22/11/2010 A	Finish 2	vised Ma	
one are the 171			* *																																														***		7 0 0 0		S O N D J F M A M J	2009 Half 1, 2010	Revised Master Programme Aug 2010 - A	
A CONTRACTOR OF THE PARTY OF TH	i Bn		1	a a said		4				••	* *	•••	**				••					· · ·	42774	45"4	54	9	1		- 124	G.	9		-		•••	* *				••		• • •	100	1		74	r'4º	P41	*P.	<b>(</b> ***)	54	4	A M J	Half 1, 2011	- Apr 2013	
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									*Co.	44	pool 4	594		<b>P</b>		Police -		<b>→</b>	94	1							•							9-14 <sub>4</sub>							0								* * * *				JASONDJEMAMJJASONDJEMAM	Half 1, 2012 Half 2, 2012 Half 1, 201		

Revised Maste	1439	1436	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	145	1444	1443	1442	144	1439	1438	1437	1436	1435	1434	1433	1431	1430	1429	1428	1426	1425	1424	1422	1421	1420	1419	1418	1416	1415	1414	1413	1411	1410	1409	1408	1406	1405	1404	1402		3	
Revised Master Prog (Aug10-Apr1 任務 医三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三三	Concreting	FORTHWORK and reday liking	Wall Stem Construction Bay 3 (LHS, KHS)	Stripping off formwork	Concreting	Formwork and rebar fixing	Base Slab Construction Bay 3	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction Bay 2 (LHS, RHS)	Stripping of formwork	Concreting	Base Slab Construction Bay 2	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction Bay 1 (LHS RHS)	Concreting	Formwork and rebar fixing	Base Slab Construction Bay 1	Excavation and Formation	Demolition of House 2 Sha Po Tsai	Retaining Wall (ch 450-500) TR2	Ch 450-525	T&C	Public lighting Installation (CE2312)	Construction of Drawpits / Ductings	Lighting at CH 350-380	Dramage & Footpath (Ch350-450) LHS & RHS	Drainage & Footpath (Ch350-450) LHS & RHS	Sinpping off formwork	Concreting	Formwork and rebar fixing	Construction of Wall Stem and Top Slab	Stripping off formwork	Concreting	Excavation and Blinding	Construction of Base Slab	Box Culvert TB01 (Ch 450)	Singping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	Step 5 (Ch 410)	Placing Grade 500 toe Stone	River Bed formation (Ch 400-450)	Formwork and concreting	Maintainence Staircase (Ch 420 I HS)		<b>丘然</b> 名組	
٠	I day	4 days	8 days	5 days	2 days	8 days	15 days	3 days	l day	4 days	8 days	5 days	8 days	15 days	3 days	1 day	4 days	2 days	2 days	8 days	15 days	15 days	18 days	115 days	592 days	2 days	7 days	49 days	SQ Mayo	42 days	42 days	14 days	1 day	4 days	19 days	5 days	o days	6 days	21 days	40 days	1 day	1 day	5 days	7 days	14 days	6 days	6 days	4 days	6 days	Duration	7	RiverImp
上顯型任務	22/12/2011	18/12/2011	18/12/2011	13/12/2011	11/12/2011	3/12/2011	3/12/2011	8/12/2011	7/12/2011	3/12/2011	3/12/2011	1100/11/80	18/11/2011	18/11/2011	23/12/2011	22/12/2011	110/2/2011	1106/61/81	11/11/2011	3/11/2011	3/11/2011	19/10/2011	1/10/2011	1/10/2017	010001051	9/1/2012	2/1/2012	14/11/2011	1100/11/61	1/11/2011	1/11/2011	22/2/2011	21/2/2011	17/2/2011	17/2/2011	12/2/2011	1102/2/01	27/1/2011	27/1/2011	27/1/2011	1/4/2012	31/3/2012	26/3/2012	19/3/2012	19/3/2012	19/3/2012	19/3/2012	24/3/2011	28/3/2011	1mic		provement
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上顯型進度											**		4 6 4																		5.5.						2.50		7. 2											S O N D J F M A M J	ster Programme Aug 20	River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River
外部任務									• •				• • •	••			••				••						••					 ⊗	•	54	1	PP	· · · · · · · · · · · · · · · · · · ·	45°4	*	1	•••	•••					7	2 (	 I.O.	J A S O N D J F M A M J J		River and Upper Tai Po River
4	200		14	SH	5	94	1	4		<b>**</b> 41	9	· •	<b>₽</b>	4	-(1	er <b>s</b> t	2. 1	-5°	45"4	β•4 	1					may	94		- 20						125	- 41		- V2 T			ы,	4274	PÍ	74			4			Half 2, 2011 Half 1, 2012 J A S O N D J F M A M J		
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**Drainage Services Department** 

Revised Maste	1771	1515	5131	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	705	1502	1501	1500	1498	1497	14%	1495	1494	1492	1491	1490	1489	1488	1486	1485	1484	1482	1481	1480	1478	1477	1476	1474	1473	1472	1471	1469	1468	1467	1465	1464	1463	1462	1460	日 住然名稱	
Revised Master Prog (Aug10-Apr1) 任務	Ewayanoli ala Dillollig	Construction of Abutment B	Sinpping off formwork	Concreting	Rebar fixing and shuttering formwork for column	Stripping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	Construction of Abutment A	Demolition works	Demolition of existing Footbridge TB-D (Ch 525)	Temporary Pedestrain Division	Temporary Pedestrian Division	Ecosheidae TRO7 (Ck 525)	Construction of drainage & footpath	Drainage & Footpath (Ch 490-525 RHS)	Cascades (Ch 500 LHS)	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction Bay 2 (LHS, RHS)	Concreting	Formwork and rebar fixing	Base Slab Construction Bay 2 (incl. Step 7)	Stripping off formwork	Formwork and rebar fixing Concreting	Wall Stem Construction Bay 1 (LHS, RHS)	Stripping off formwork	Concreting	Formucial and other fixing	Excavation and Formation	Retaining Wall (Ch 500-530 LHS) TR3	Construction of drainage & footpath	Drainage & Footpath (Ch 450-490 RHS)	Stripping off formwork	Formwork and rebar fixing	Wall Stem Construction Bay 5 (LHS, RHS)	Stripping off formwork	Concreting	Base Slab Construction Bay 5 (incl. Step 6)	Stripping off formwork	Concreting	Wall Stem Construction Bay 4 (LHS, RHS)	Stripping off formwork	Concreting	Formwork and rebay fixing	Stripping off formwork		
•	12 days	28 days	3 days	1 day	4 days	3 days	I day	4 days	12 days	28 days	3 days	3 days	3 days	40 days	16 Jan	14 days	24 days	24 days	3 days	1 day	6 days	10 days	2 days	12 days	19 days	3 days	6 days	10 days	5 days	2 days	19 days	12 days	70 days	28 days	28 days	1 day	6 days	10 days	5 days	12 days	19 days	3 days	1 day	10 days	5 days	2 days	19 days	3 days	Duration	
上顯型任務	0107/11/61	0107/1/61	2/12/2010	1/12/2010	27/11/2010	24/11/2010	23/11/2010	19/11/2010	7/11/2010	7/11/2010	4/11/2010	4/11/2010	1/11/2010	0102/11/1	1/11/0010	21/2/2012	21/2/2012	13/1/2012	18/2/2012	17/2/2012	11/2/2012	11/2/2012	4/2/2012	23/1/2012	23/1/2012	20/1/2012	19/1/2012	13/1/2012	8/1/2012	0100011	25/12/2011	13/12/2011	13/12/2011	1/5/2012	1/5/2012	21/1/2012	14/1/2012	14/1/2012	9/1/2012	1102017	26/12/2011	13/1/2012	12/1/2012	6/1/2012	1/1/2012	30/12/2011	18/12/2011	23/12/2011	Start	7.0
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外部任務	*				• • •														202				2 2											7.5.00	ofa	7.5.1		C.71					5,315	1747	Tuttor				-	2010 - Apr 2013
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**Drainage Services Department** 

		Re	Revised Master Programme Aug 2010	me Aug 2010 - Apr 2013	
任務名稱	Duration	Start	Finish 2, 2009 Ha		Half 2, 2011
	4 days	1/12/2010		0	
	1 day	5/12/2010	5/12/2010	·	
	3 days	6/12/2010	8/12/2010	7427	
1522 Concreting Concreting	1 days	0100/01/61	010001/61	ייני	
	3 days	14/12/2010	16/12/2010	-7¢	
	Š.	2100010	040010		
Foot	29 days	21/2/2012	20/3/2012		
1527 Formwork and rebar fixing for decking	12 days	21/2/2012	3/3/2012		
	1 day	4/3/2012	4/3/2012		<b>♦</b> ™ <b>4</b>
	14 days	5/3/2012	18/3/2012	M 46	<b>₽</b>
	2 days	19/3/2012	20/3/2012		LTY
1531 Footbridge TBU/ Lighting	20 days	21/3/2012	9/4/2012		**
Public lighting Installation (CE2328)	6 days	2/4/2012	7/4/2012		
	6 days	2/4/2012	7/4/2012	7.7.	<b>\$</b>
1535 T&C	2 days	8/4/2012	9/4/2012		#M
1537 Ch 525-615	174 days	15/10/2010	6/4/2011		
Reta	47 days	17/12/2010	1/2/2011	1	
1539 Excavation and Formation Rose Clab Construction Roy 1	12 days	0106/61/06	28/12/2010	9.5	
Formwork and rebat fixing	8 days	29/12/2010	5/1/2011	94	
	2 days	6/1/2011	7/1/2011	e-4	
1543 Stripping off formwork	5 days	8/1/2011	12/1/2011	15:	
1545 Formwork and rebar fixing	4 days	13/1/2011	16/1/2011	941	
	l day	17/1/2011	17/1/2011	4 m	
154/ Sire State Contraction Ray 2	3 days	1107/1/81	12/1/2011		
1549 Formwork and rebar fixing	8 days	29/12/2010	5/1/2011		
	2 days	6/1/2011	7/1/2011	47Y	
	5 days	1102/1/8	12/1/2011	1.9	
1352 Wall Stem Construction Bay 2 LHS	4 days	1100/1/61	16/1/2011	744	
	1 day	17/1/2011	17/1/2011		
	3 days	18/1/2011	20/1/2011		
Wall	12 days	21/1/2011	1/2/2011	43	
1558 Concreting	o udys	29/1/2011	29/1/2011		
	3 days	30/1/2011	1/2/2011	B	
Reta	174 days	15/10/2010	6/4/2011	3	
1.562 Demolition of Existing structure at slope crest	4 days	30/10/2010	2/11/2010		
	5 days	3/11/2010	7/11/2010	<b>₽</b> •	
	45 days	8/11/2010	22/12/2010		
1566 Construction of skin wall (from D/S to U/S, from toe to crest)	60 days	6/2/2011	6/4/2011		
Reta	48 days	18/1/2011	6/3/2011	1	
	12 days	18/1/2011	30/1/2011	130	
Dasc	8 days	1100/20	1102001		
1571 Concreting	2 days	10/2/2011	11/2/2011	Př	
1572 Supping off formwork	5 days	12/2/2011	16/2/2011	574	
1573 Wall Stem Construction TR5A Bay 1 LHS	8 days	17/2/2011	24/2/2011		
	1 days	1100011	21/2/2011	2°4	

第27頁

Revised Maste 日期: 19/1/2011	0001	1633	1632	1631	1630	1620	1638	1627	1626	1625	1624	1603	1621	1620	1619	1618	1617	1616	1615	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1001	1600	1599	1500	1500	1596	1595	1594	1593	1592	1591	1590	1580	1500	1586	1585	1584	1583	1582	1581	1580	1570	1577	1576	加加加加	
Revised Master Prog (Aug10-Apr1 任務 医医医医医医医 组排: 19/1/2011	Property reports after School Hills	Formwork and rebar fixing	Construction of Wall Stem Bay 3 RHS	Stringing off formwork	Concreting	Formwork and rebar fixing	Construction of Wall Stem Bay 3 LHS	Stripping off formwork	Concreting	Formwork and rebar fixing	Construction of Base Slab Bay 3	Excavation and formation	Personal Well (ch sos 615) TD3	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction TR5B Bay 2 LHS	Stripping off formwork	Concreting	Base Sido Construction Bay 2 Lines	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction TR5B Bay 1 LHS	Stripping off formwork	Concreting	Formwork and rebar fixing	Base Slab Construction Bay 1 LHS	Retaining Wall TR5B & TR6 CH585-595 LHS	Stripping of formwork	Contents	Formwork and rebar fixing	Construction of Wall Stem and Top State	Simpping off formwork	Concreting	Formwork and rebar fixing	Excavation and Blinding	Construction of Base Slab	Box Culvert TB02 (ch 580)	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction TRSA Bay 3 LHS	Concreting	Formwork and rebar fixing	Base Slab Construction TR5A Bay 3 LHS	Stripping off formwork	Concreting	Formwork and rebar fixing	Wall Stem Construction TR5A Bay 2 LHS	Stripping off formwork	Concepting	Base Slab Construction TRSA Bay 2 LHS	Stripping off formwork		U2 4 4
里程碑																																																								
1	of the o	6 days	10 days	3 days	1 day	6 days	10 days	6 days	2 days	12 days	20 days	12 days	A7 days	3 days	1 day	4 days	8 days	5 days	2 days	8 days	3 days	1 day	4 days	8 days	5 days	2 days	8 days	15 days	33 days	I4 days	1 day	b days	21 days	o days	1 day	4 days	24 days	32 days	71 days	3 days	1 day	4 days	8 days	2 days	8 days	15 days	3 days	l day	4 days	8 days	5 days	2 days	15 days	3 days	nonanon	
上顯型里程碑 ◇		30/12/2011	30/12/2011	6/1/2012	5/1/2012	30/12/2011	30/12/2011	24/12/2011	22/12/2011	10/12/2011	10/12/2011	28/11/2011	1100/11/80	8/12/2011	7/12/2011	3/12/2011	3/12/2011	28/11/2011	26/11/2011	1100/11/81	1107/11/87	2//11/2011	25/11/2011	23/11/2011	18/11/2011	16/11/2011	8/11/2011	8/11/2011	8/11/2011	711/2011	11001170	11001178	1102/11/2	1102/01/06	1107/01/67	75/10/2011	1102/01/1	1/10/2011	1/10/2011	22/2/2011	21/2/2011	17/2/2011	17/2/2011	1102/2/01	1102/201	2/2/2011	4/3/2011	3/3/2011	27/2/2011	27/2/2011	22/2/2011	1100000	1100001	22/2/2011	) IIII C	
<b>室碑</b> ◇		4/1/2012			5/1/2012	4/1/2012	8/1/2012	29/12/2011	23/12/2011	21/12/2011	29/12/2011	0/10/0/12	2100178	10/12/2011	7/12/2011	6/12/2011	10/12/2011	2/12/2011	27/11/2011	110011150	1107/11/06	1102/11//2	26/11/2011	30/11/2011	22/11/2011	17/11/2011	15/11/2011	22/11/2011	10/12/2011	1109/11/07	110011/00	1100/11/8	1102/11/27	11001170	1102/01/67	28/10/2011	24/10/2011	1/11/2011	10/12/2011	24/2/2011	21/2/2011	20/2/2011	24/2/2011	1100/091	11000011	16/2/2011	6/3/2011	3/3/2011	2/3/2011	6/3/2011	26/2/2011	21/2/2011	1100001	24/2/2011	A S	Revised Mas
上順型進度		554	•	~			4	994				×4.	1			•	4				•		***	***		a di di		4	1	8	•											***************************************								•	₽₽	· · · · · · · · · · · · · · · · · · ·		4 4	S   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O   N   D   J   T   A   S   O	r Programme Aug 2010 - Apr 2013

ID 任務名稱	B)	Duration	Start	Finish	O N D J F M A M J J A S
1634	Concreting	l day	5/1/2012	5/1/2012 A	NDJFMA
1635	Stripping off formwork	3 days	6/1/2012	8/1/2012	
1636	Drainage & Footpath (Ch 525-615 LHS & RHS)	86 days	22/2/2011	18/5/2011	(a) =
1638	Construction of footpath & drainage works	72 days	8/3/2011	18/5/2011	20
1639	Lighting at CH 550-610	15 days	19/5/2011	2/6/2011	
164	Public lighting Installation (CE2325)	6 days	25/5/2011	30/5/2011	
1642	Public lighting Installation (CE2326)	6 days	25/5/2011	30/5/2011	
164	T&C	l day	31/5/2011	31/5/2011	
	Removal of existing lighting (CE1600-B2)	2 days	1/6/2011	2/6/2011	
S	Section 4 - Box Culvert at Ping Long	0 days	9/12/2009	9/12/2009	♦ 9/12
	Section 4 - Box Culvert (Area A)	0 days	9/12/2009	9/12/2009	♦ 9/12
	Completion of Work at Section 4	0 days	9/12/2009	9/12/2009	<b>4</b> 9/12
S	Section 5 - Landscape Establishemnt Works (Portion B. C. D. E. F. G. H & I)	1666 days?	28/9/2007	19/4/2012	
	Section 5 Landscape Works	1665 days	28/9/2007	18/4/2012	
	Commencement of Works	1 day	28/9/2007	28/9/2007	
	Material Submission	120 days	29/9/2007	26/1/2008	
	Landscaping Hardworks	1541 days?	31/1/2008	19/4/2012	
	Landscaping Softworks	365 days	20/4/2011	18/4/2012	
	Submission of Tree Survey	400 days	29/9/2007	*	
	and reserved trees and reserved trees	1265 days	2/11/2008	19/4/2012	
	Completion of Works	0 days	19/4/2012	19/4/2012	
S	Section 6 - Landscape Establishemnt Works (Portion J, K & M)	1666 days?	28/9/2007	19/4/2012	
	Section 6 Landscape Works Commencement of Works	1665 days	28/9/2007	28/9/2007	
	Material Submission	120 days	29/9/2007	26/1/2008	
	Submission Approval	0 days	9/2/2008	9/2/2008	
	Landscaping Hardworks	1161 days?	21/4/2011	19/4/2012	
	Submission of Tree Survey	400 days	29/9/2007	1/11/2008	
	Preservation and Protection of Preserved Trees	1265 days	2/11/2008	19/4/2012	
	Landscape Establishment Works	0 days	19/4/2012	19/4/2012	♦ 19/4
	Completion of works	O udys	210214/61	710714/61	
c	Section 7 Landscape Works	1665 days	28/9/2007	18/4/2012	
	Commencement of Works	1 day	28/9/2007	28/9/2007	
	Material Submission	120 days	29/9/2007	26/1/2008	
	Submission Approval	0 days	8002/7/6	19/4/2012	
1680	Landscaping Hardworks	11/6 days?	201/1/2009	7107/16/1	
	Landscaping Softworks Submission of Tree Survey	365 days 400 days	29/9/2007	19/4/2012	
	Preservation and Protection of Preserved Trees	1265 days	2/11/2008	19/4/2012	
	Landscape Establishment Works	1265 days	2/11/2008	19/4/2012	
	Completion of Works	0 days	19/4/2012	19/4/2012	
S	Section 8 - All Remaining Work at All Portions	1301 days	28/9/2007	20/4/2011	
	Commencement of Works	1 day	28/9/2007	28/9/2007	
	Committee of the commit	0 days	20/1/2001		

Revised Master Prog (Aug10-Apr1 任務 日期: 19/1/2011 進度

里程碑

上顯型里程碑 ◇ 上類型任務

上顯型進度 分割 ...... 專案摘要

外部任務

期限 摘要群組

第29頁