# 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 2010

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#### **Executive summary**

This is the seventeenth 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 Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1<sup>st</sup> January 2010 to 31<sup>st</sup> January 2010. The major site activities in this reporting month were mainly site access formation, boulder breaking works and construction of footbridges.

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 26<sup>th</sup> and 27<sup>th</sup> January 2010 by the ecologist Dr. Mark Shea. The ecological impact monitoring report prepared by the ecologist is under preparation and therefore information 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 were not scheduled for this month. Therefore, no vibration monitoring was conducted by ET during the reporting month. As a reference, baseline monitoring was conducted by Contractor at the designated locations Fan Sin Temple and Wun Yiu on 20 January 2010. For further information please refer to Appendix J.

There was no non-compliance recorded for this reporting month.

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

There was no reporting change for this month.

Site works proposed to be carried out in the upcoming month will include formation of haul access, provision of drain-off pipes in the boulder trap, construction of footbridge, retaining wall and gabion wall.

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 seventeenth 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 2010. 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

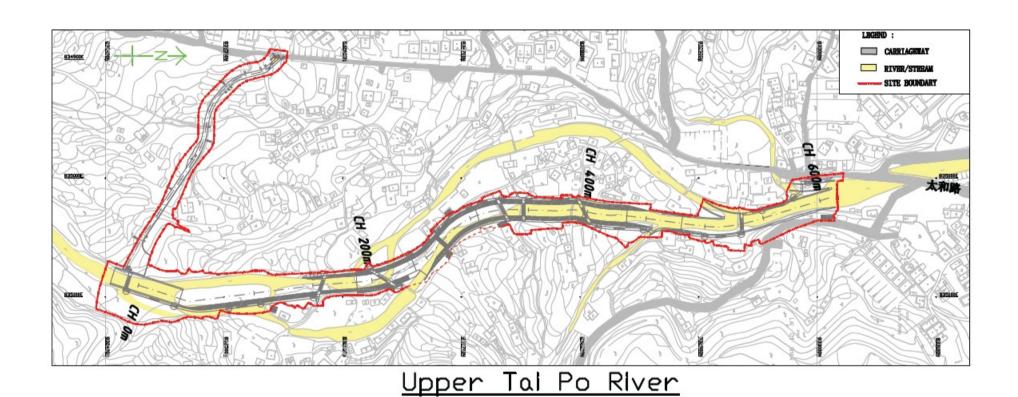
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15<sup>th</sup> 2008 and anticipated to complete in April 2011.

## 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 the reporting month include:

- (1) Haul access formation
- (2) Boulder breaking works
- (3) Construction of footbridges

### 2.5 Construction activities for the next reporting period

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

- (1) Haul access formation
- (2) Provision of drain-off pipes in the boulder trap
- (3) Construction of footbridge and retaining wall
- (4) Construction of gabion wall at upstream

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

There was no non-compliance with the environmental performance limits for this reporting month. 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

There was no formal complaint received in the reporting month. Totally, four 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 26<sup>th</sup> and 27<sup>th</sup> January 2010. The ecological impact monitoring was under preparation and will 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  $8^{th}$ ,  $15^{th}$ ,  $22^{nd}$  &  $29^{th}$  January 2010. Measured  $L_{eq\,(30min)}$  results ranged from 49.6dB(A) to 72.6dB(A), and therefore, no exceedance of action or limit level was recorded in this reporting month. For further details of the monitoring results, graphical plots and the location plan, please refer to Appendix D.

## 5.0 Vibration monitoring results

As no piling works were carried out no vibration monitoring has been conducted by ET during the reporting period. The Contractor conducted baseline monitoring on 20 January 2010.

According to the measurement reports provided by Contractor, 13-minute and 10-minute measurements were conducted at designated monitoring locations Fan Sin Temple and Wun Yiu respectively. Peak velocity 0.402 mm/s at frequency 7.5 Hz was recorded at Fan Sin Temple, while peak velocity 0.381 mm/s at frequency 7.4 Hz was recorded at Wun Yiu. No abnormal result was recorded during the measurements.

Reference standard for vibration monitoring was provided in the Appendix C. For further information of the measured results please find the measurement reports shown in the Appendix J.

#### 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 6<sup>th</sup>, 13<sup>th</sup>, 21<sup>st</sup> and 27<sup>th</sup> January 2010. 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 6<sup>th</sup>, 13<sup>th</sup>, 21<sup>st</sup> and 27<sup>th</sup> January 2010. 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
02 Dec 09	Damaged backhoe was	Observation	Contractor was advised to	Still outstanding. To be follow	Ongoing	
	located at haul access D.		remove the concerned site	up in the next reporting month		
	Also, functional site		equipment to prevent oil			
	equipments were found to		leakage to the surrounding area			
	be leaking oil		and provide maintenance to			
			prevent potential oil leakage			
06 Jan 10	No particular observation	N/A	N/A	N/A	N/A	
13 Jan 10	No particular observation	N/A	N/A	N/A	N/A	
21 Jan 10	No particular observation	N/A	N/A	N/A	N/A	
27 Jan 10	No particular observation	N/A	N/A	N/A	N/A	

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

Table 6.2	Table 6.2 Summary results of ecological site inspection findings				
Date	Observations	Advice from	Action Taken	Closing	
		Ecologist		Date	
06 Jan	No Major findings for this	No Advice is	is No Action is required to No		
2010	inspection	required	be taken		
13 Jan	No Major findings for this	No Advice is	No Action is required to	N/A	
2010	inspection	required	be taken		
21 Jan	No Major findings for this	No Advice is	No Action is required to	N/A	
2010	inspection	required	be taken		
27 Jan	No Major findings for this	No Advice is	No Action is required to	N/A	
2010	inspection	required	be taken		

## 6.2 Non-compliance

There was no non-compliance recorded for the month of January 2010.

#### **6.3 Recommendations**

As removal of broken backhoe at haul access D was still outstanding due to technical difficulty. Contractor was again reminded to be cautious on oil leakage from the backhoe causing contamination to the surrounding area. Proper protective measures such as provision of drip pan and/or absorbing materials should be implemented as far as practicable.

#### 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 follow month.

As there were some ongoing follow up practices, contractor was reminded to regularly review and rectify the discrepancy once found and maintain good site condition.

#### 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 general reuse are recommended to be audited 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.

Table 7.1 Summary of Waste Disposal for the reporting month

Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste
January 2010	0	0	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

As informed by contractor, major construction activities in the upcoming month will include construction of footbridge, gabion wall, site formation and provision of drain-off pipes in the boulder trap. The construction activities for these items will generate several environmental impacts. These include air, noise, water and waste management.

Construction activities such as backfilling, earth movement and boulder breaking may generate dust impact to the vicinity of sensitive receivers. Contractor is advised to provide sufficient water spraying for the dusty static area. Stockpiling may be found on site and those should be covered with tarpaulin sheets to prevent erosion.

Formation of haul access in the stream course may generate water quality impact. Contractor was recommended to provide proper bunds and barriers as forming well enclosed area for construction activities carried out in the river course. Site water treatment facilities should be used whenever necessary.

For the proposed boulder breaking works, heavy plants and vehicles may be deployed and those would generate certain noise impacts to the sensitive receivers. Noisy activities should be well planned and scheduled to avoid parallel operation of multiple plants, so as to minimize noise impacts to the nearby sensitive receivers.

Construction activities may generate wastes on site. Contractor is advised to assign a site area for 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

Site preparation works including site access formation, boulder breaking and construction of footbridges were carried out during the reporting period.

Regular site meetings and inspection audits led by the seniors for discussing environmental issues were held among project proponent, Contractor and the ET 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.

Baseline vibration monitoring was conducted by the Contractor on 20 January 2010. No abnormal finding was shown from the results. Piling works were not scheduled for this month and therefore no vibration monitoring was conducted by ET 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. There was no non-compliance recorded for the reporting month.

There was no complaint recorded in this reporting month.

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

Frant				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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Annendiy C. Reference standards for vibrat	ion

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.

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Appendix D: Noise monitoring results, graphical	I plots and location plan

Location	L <sub>90</sub> 30min	L <sub>10</sub> 30min	Leq 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	58.7	66.8	64.6	8-Jan-10	11:23-11:53	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Cloudy	Façade
UTP 2	51.6	60.0	58.7	8-Jan-10	10:46-11:16	The measured noise level was dominated by the background noise as no construction  N\A  activity was being carried out during measurement		Cloudy	Façade
UTP 3	50.6	64.4	61.4	8-Jan-10	14:37-15:07	Operation of Backhoe	Background noise from traffic	Cloudy	Façade
UTP 4	48.2	58.4	55.3	8-Jan-10	15:42-16:12	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 5	49.4	59.5	57.4	8-Jan-10	15:09-15:39	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 6	46.2	62.1	59.2	8-Jan-10	14:04-14:34	Operation of Backhoe	N\A	Cloudy	Façade
UTP 7	46.3	50.6	49.6	8-Jan-10	13:32-14:02	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N∖A	Cloudy	Façade
UTP 8	49.0	51.5	50.5	8-Jan-10	13:00-13:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 9	42.2	53.8	53.0	8-Jan-10	10:00-10:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 10	40.9	52.1	51.6	8-Jan-10	09:23-09:53	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 11	45.6	59.2	56.4	8-Jan-10	08:50-09:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	*Free field

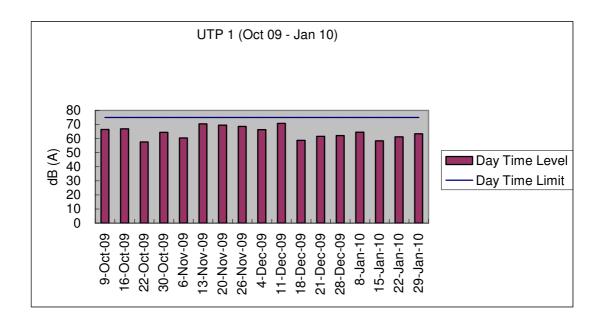
Location	L <sub>90</sub>	L <sub>10</sub>	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	50.6	61.3	58.4	15-Jan-10	13:00-13:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Sunny	Façade
UTP 2	63.4	53.8	61.3	15-Jan-10	13:36-14:06	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Sunny	Façade
UTP 3	54.8	69.4	65.8	15-Jan-10	14:20-14:50	Tree felling	N\A	Sunny	Façade
UTP 4	56.1	58.9	57.9	15-Jan-10	15:25-15:55	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	Façade
UTP 5	49.5	55.0	53.0	15-Jan-10	14:54-15:24	Tree felling	N\A	Sunny	Façade
UTP 6	59.8	69.4	67.3	15-Jan-10	10:39-11:09	Tree felling	N\A	Sunny	Façade
UTP 7	69.3	57.6	66.6	15-Jan-10	10:54-11:24	Tree felling	N\A	Sunny	Façade
UTP 8	60.8	52.6	57.3	15-Jan-10	11:25-11:55	Tree felling	N\A	Sunny	Façade
UTP 9	48.3	55.6	54.6	15-Jan-10	09:58-10:28	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	Façade
UTP 10	46.1	53.1	52.7	15-Jan-10	09:23-09:53	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	Façade
UTP 11	48.4	55.0	54.6	15-Jan-10	08:50-09:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Sunny	*Free field

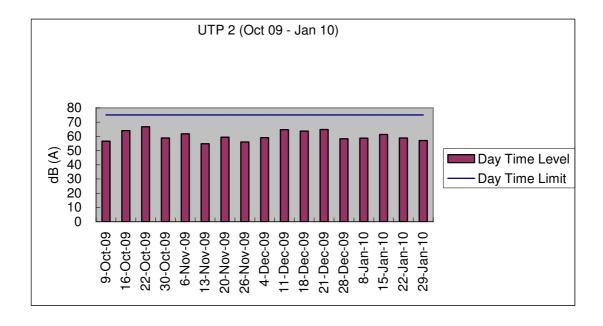
Location	$L_{90}$	$L_{10}$	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	54.1	65.7	61.3	22-Jan-10	10:47-11:17	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Cloudy	Façade
UTP 2	49.3	61.2	58.8	22-Jan-10	11:24-11:54	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	Background noise from traffic	Cloudy	Façade
UTP 3	53.5	75.0	72.6	22-Jan-10	14:37-15:07	Boulder breaking	N\A	Cloudy	Façade
UTP 4	50.4	59.4	58.7	22-Jan-10	15:45-16:15	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 5	49.8	64.9	62.9	22-Jan-10	15:10-15:40	Boulder breaking	N\A	Cloudy	Façade
UTP 6	46.6	68.1	66.2	22-Jan-10	14:04-14:34	Boulder breaking	N\A	Cloudy	Façade
UTP 7	45.8	58.7	55.4	22-Jan-10	13:32-14:02	Boulder breaking	N\A	Cloudy	Façade
UTP 8	48.0	54.6	54.2	22-Jan-10	13:00-13:30	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 9	43.3	54.4	53.7	22-Jan-10	10:08-10:38	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 10	41.7	51.4	50.7	22-Jan-10	09:32-10:02	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 11	47.4	56.5	56.7	22-Jan-10	08:58-09:28	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	*Free field

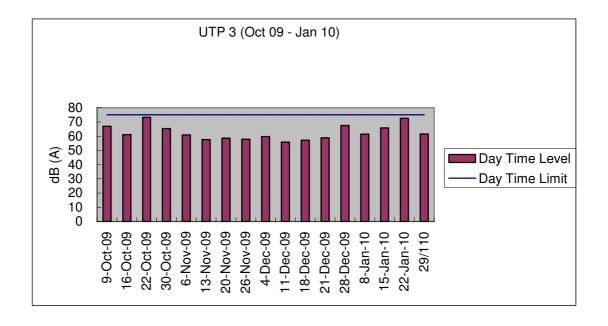
Location	L <sub>90</sub>	$L_{10}$	Leq	Date	Time	Major Construction Noise	Other Noise source	Weather	Location
	30min	30min	30min		Duration				description
UTP 1	51.8	65.6	63.4	29-Jan-10	10:48-11:18	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise from traffic	Cloudy	Façade
UTP 2	50.2	57.8	57.0	29-Jan-10	11:23-11:53	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	51.7	63.2	61.6	29-Jan-10	14:36-15:06	Site formation by backhoe	N\A	Cloudy	Façade
UTP 4	50.3	58.4	57.4	29-Jan-10	15:40-16:10	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 5	42.6	53.5	53.3	29-Jan-10	15:09-15:39	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 6	47.3	58.5	56.1	29-Jan-10	14:04-14:34	Site formation by backhoe	N\A	Cloudy	Façade
UTP 7	50.4	62.8	60.6	29-Jan-10	13:32-14:02	Site formation by backhoe	N\A	Cloudy	Façade
UTP 8	48.6	58.2	56.2	29-Jan-10	13:00-13:30	Site formation by backhoe	N\A	Cloudy	Façade
UTP 9	50.2	63.4	61.7	29-Jan-10	10:00-10:30	Operation of Backhoe at boulder trap	N\A	Cloudy	Façade
UTP 10	44.7	52.9	52.6	29-Jan-10	09:23-09:53	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	Façade
UTP 11	45.7	53.2	52.4	29-Jan-10	08:50-09:20	The measured noise level was dominated by the background noise as no construction activity was being carried out during measurement	N\A	Cloudy	*Free field

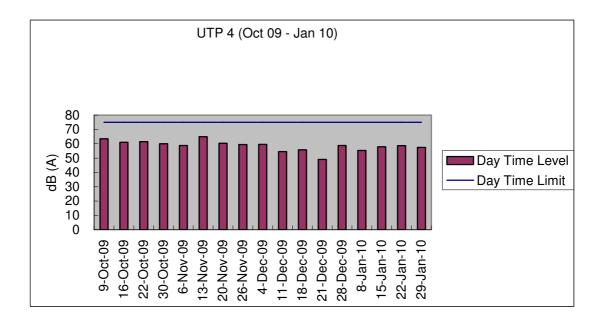
## **Graphical plot for noise measurements**

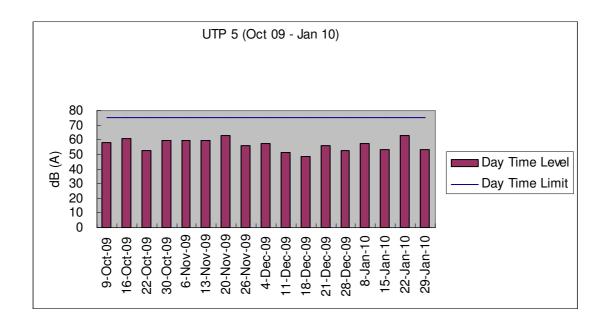
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from October 2009 to January 2010.

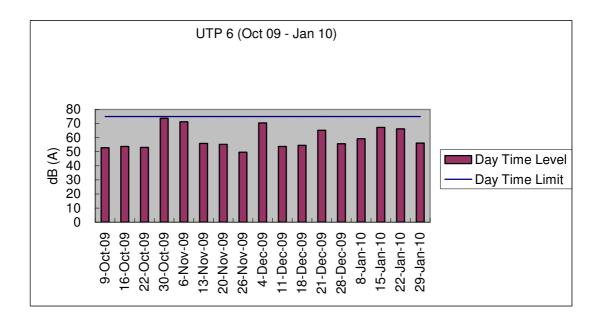


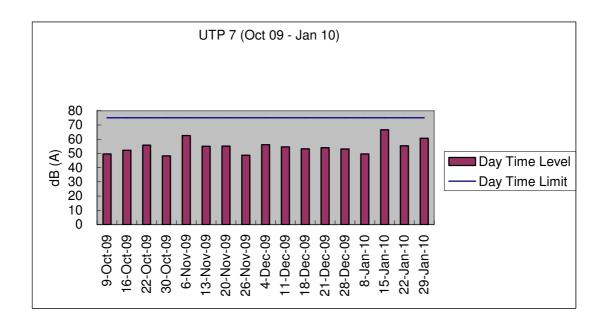


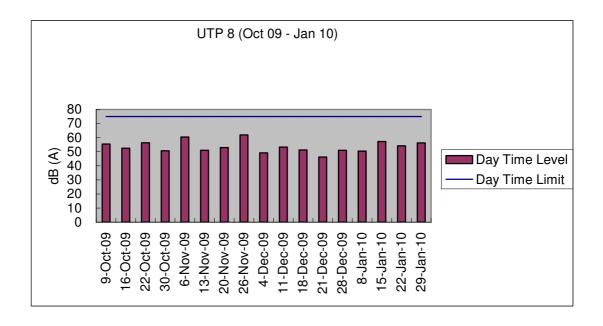


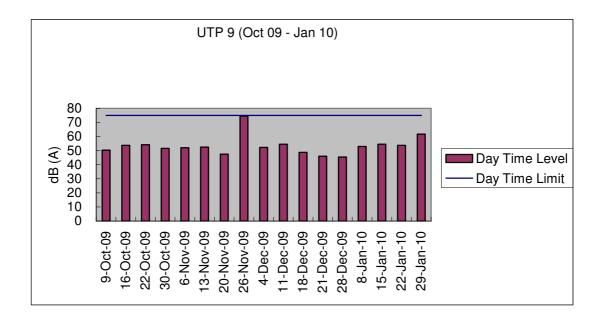


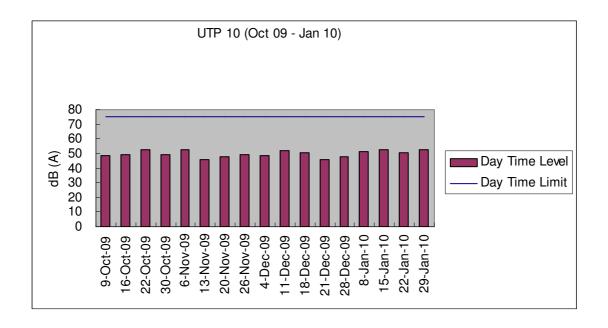


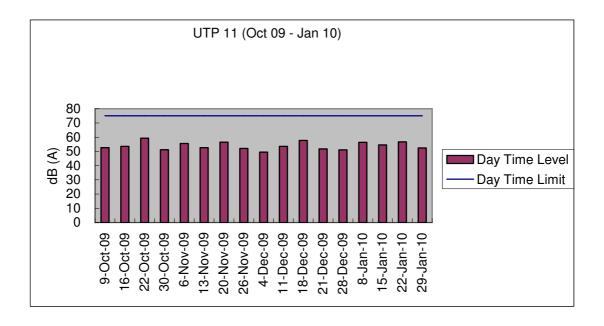


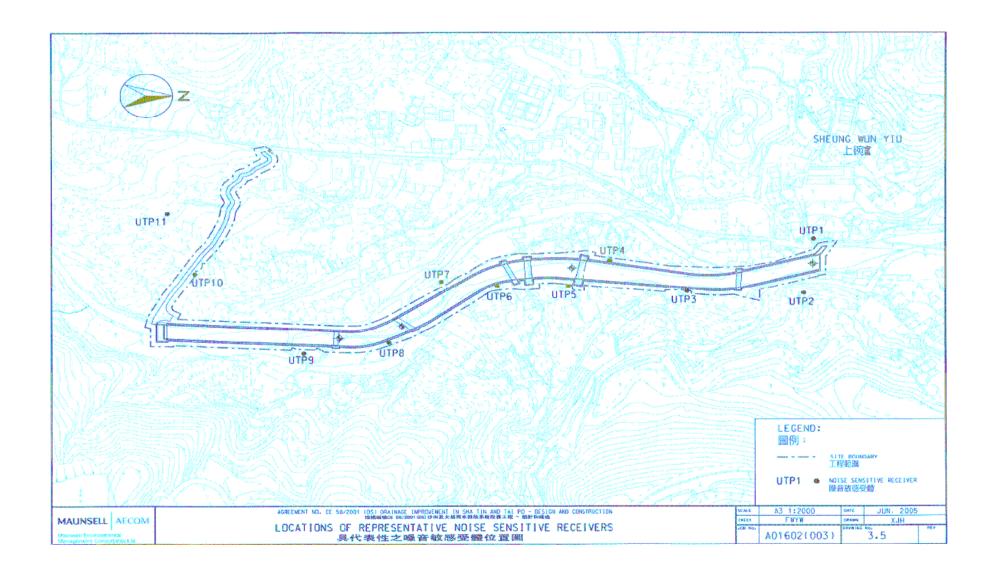












Appendix E:	Monitoring schedu	ile for the present	t and next repor	ting period

Chiu Hing Construction & Transportation Co., Ltd

DC/2007/06 River improvement works in Upper Tai Po River Seventeenth Monthly Report

#### Master Schedule of EM&A works in January 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1/01	2/01
3/01	4/01	5/01	6/01	7/01	8/01	9/01
			Site inspection at afternoon		Noise monitoring	
10/01	11/01	12/01	13/01	14/01	15/01	16/01
			Site inspection at afternoon		Noise monitoring	
17/01	18/01	19/01	20/01	21/01	22/01	23/01
				Site inspection and SSEMC at morning	Noise monitoring	
24/01 & 31/01	25/01	26/01	27/01	28/01	29/01	30/01
			Site inspection at afternoon		Noise monitoring	

#### Master Schedule of EM&A works in February 2010

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

### Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	January 2010	
Air/Dust	1	0	1
Noise	1	0	1
Water	2	0	2
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	4	0	4

<sup>\*</sup> ET received a public enquiry referred by EPD, regarding river water quality and loss of vegetation within construction site, on  $3^{rd}$  July 2009.

Chiu Hing Construction & Transportation Co., Ltd		River improvement v	DC/2007/06 works in Upper Tai Po River Seventeenth Monthly Report
Appendix G: Implementation mitigation measures	status o	of environmental	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, shall be installed	Implemented	Not required
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 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	Not applicable at this stage	Not required
	Land-based plant shall be employed and site run-off shall be directed towards regularly cleaned and maintained silt traps and oil / grease separators to minimize leakage and loss of sediments during excavation	Implemented	Not required
	Large boulders removed from the Tai Po River within the Project during 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	Implemented	Not required
	The excavation area shall be enclosed with bunds or barriers and dewatered prior to excavation to minimize the impacts upon the downstream of the Tai Po River	Implemented	Rectified

	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 would	Not applicable	Not
	be along one side of the river only		required
	Approximately 150m of the existing natural riverbank	Implemented	Not
	on the western side of the river would be retained.		required
	Excavation works within the river channel should be	Implemented	Not
	restricted to an enclosed dewater section of the river,		required
	and would be limited to sections 50-100m long at any		
	one time.		
	Flows to the area downstream shall be maintained at all	Implemented	Not
	times during the construction phase		required
	Capture survey shall be conducted within the Tai Po	Capture surveys had been conducted at the	Not
	River before commencement of works. The captured	beginning of the Contract, during the wet	required
	target species shall be relocated to areas of the	season July/August 2008, 4th November	
	watercourse upstream of the watercourse upstream of	2008 and 27 <sup>th</sup> , 28 <sup>th</sup> October 2009	
	the Tai Po River		
	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 vegetation	Not applicable	Not
	along the banks of the newly improved drainage		required
	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 since 15<sup>th</sup> September 2008

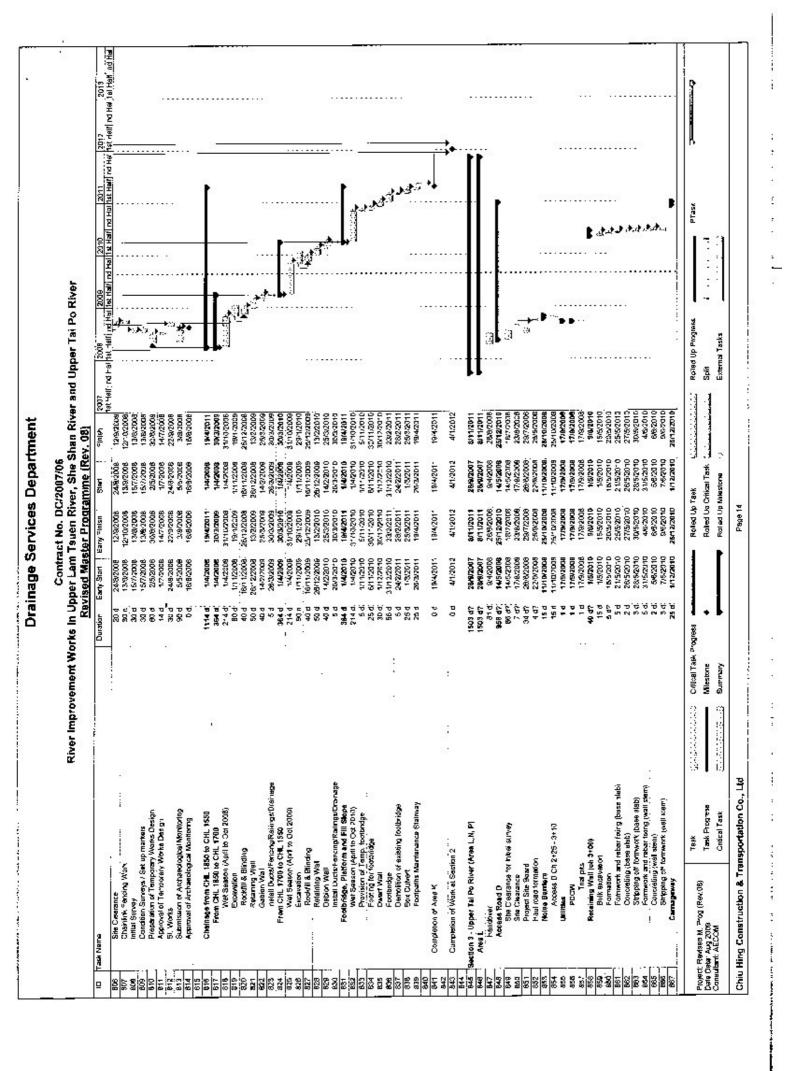
Type of waste	Inert Waste	Non-Inert Waste	Chemical Waste
September 2008	0	0	0
October 2008	0	2 tonnes	0
November 2008	36m <sup>3</sup>	0	0
December 2008	0	0	0
January 2009	0	0	0
February 2009	0	0	0
March 2009	0	0	0
April 2009	0	0	0
May 2009	0	0	20kg*
June 2009	0	0	0
July 2009	0	0	0
August 2009	0	0	0
September 2009	0	0	0
October 2009	$0.9$ m $^3$	0	0
November 2009	0	0	0
December 2009	0	0	0
January 2010	0	0	0
Total	36.9m <sup>3</sup>	2 tonnes	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.

Chiu	Hing	Construction	&	Transportation	Co.,	Ltd
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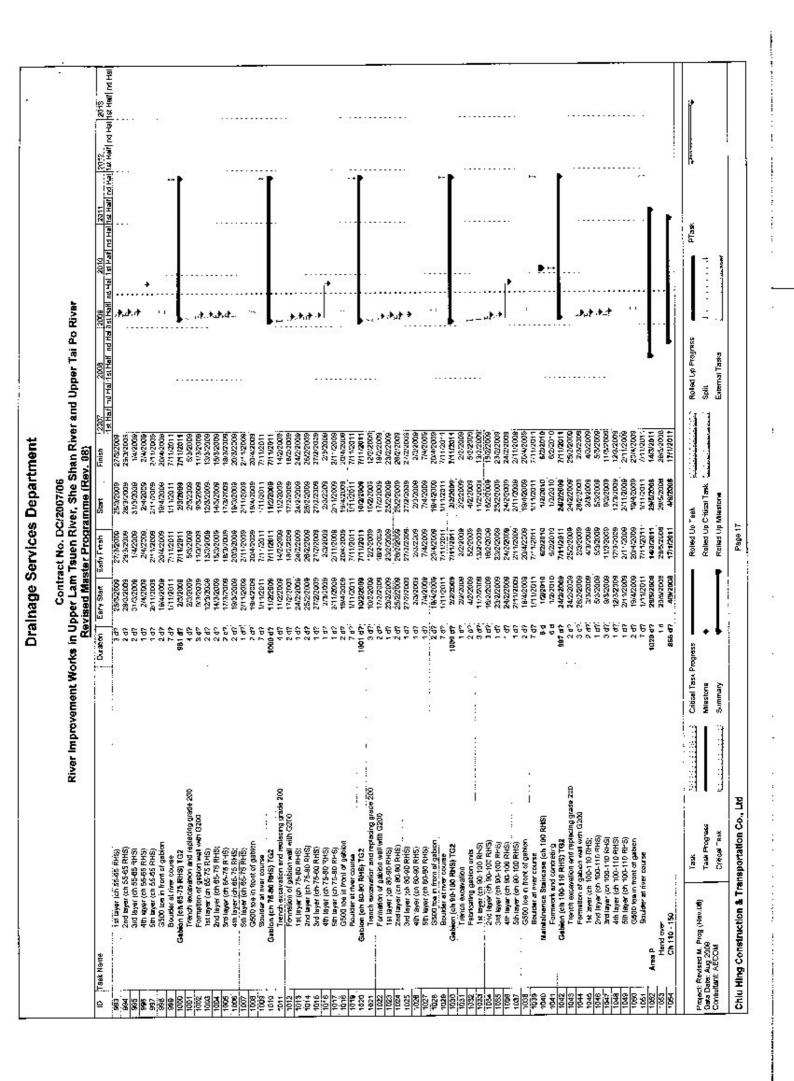
DC/2007/06 River improvement works in Upper Tai Po River Seventeenth Monthly Report

Appendix I: Construction programme



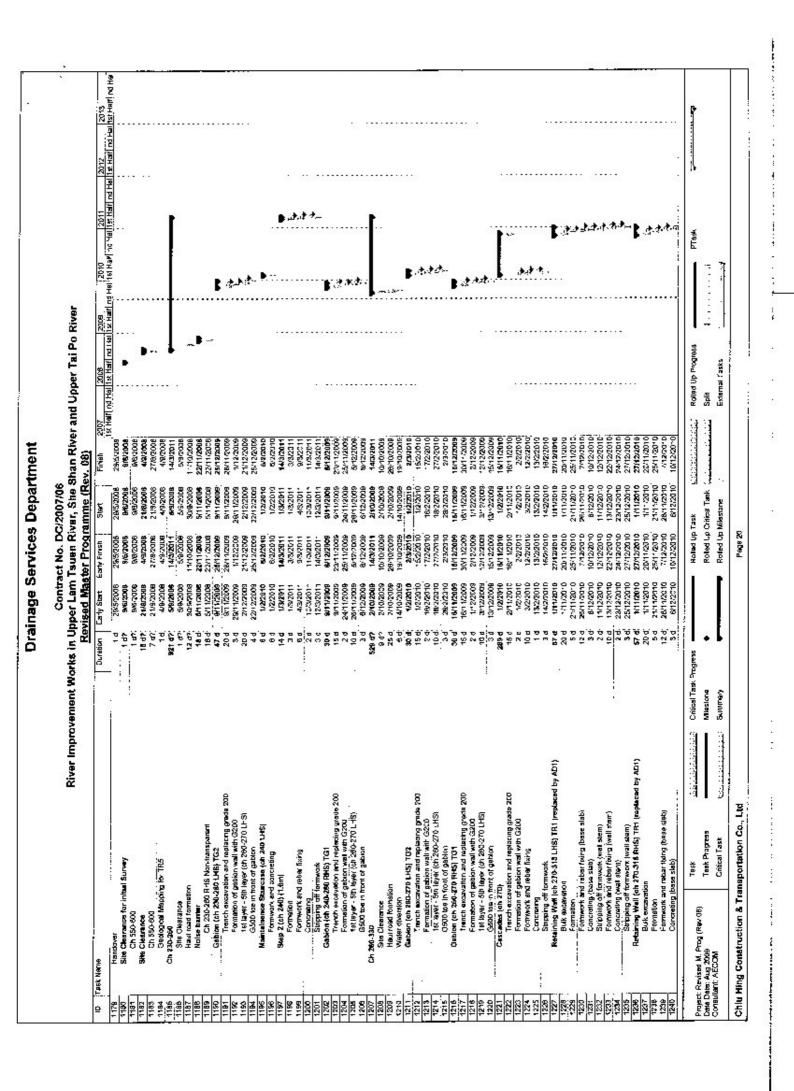
Contract Works in Upper Lam Faul   Part	American Ame				ŏ	ontract N	lo. DC/2	207/06						
1	25.23 S. E. S. E. W. H.		River improve	ement Works in	1 Upper I	Lam Tsug	an River	She St	an River an	d Upper Tai P	o River			
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1	5	ation			-			i	20/12/2010	nd Halling Harlind H	BILIST HOULING HOLDS.		od Hall Strain	nd Hai 1st Haif o
### 1   Fig. 11   Fig. 12   Fig. 12		obiring.		E .					25/12/2010					
Part	# \$   &         	3009			- [-			Ŋ.,	4.9,2308					
### 7   Fig. 25   Fig. 25		formation residen		*S**	24			8/8/2003	5/11/2008			:50	1	
Part of the Part	 	up (Bay 7-8) (ch-23 - 45)		· 2				11/2008	\$44200g		1			
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Activities   Act	- 1	reting (base alab, bay 7) the off formands (base alab ba-	6						3/1/2009;				•••	
Comparison   Com		work (wall stem, bay 7 RHS)		4				8/1/2009 8/1/2009	9/1/2009		٠		ē is	11
Column   C	: 1	ritiding (well stem bay 7 RHS)		2				DY1/2009	11:77/2009		,,,	-2.5		
Fig. 2019   Fig.	-1	reting (wall stem bay 7 KHS)	ia Harry	1				21/2009	12/1/2009					
The state to the given the given that given th		arity on rommerry (was stem us, after (bey 8)	r nna?					S712009	25/1/2008					
15   15   15   15   15   15   15   15		work (base stab only B)		F				1/2/2009	11/2/2006					
1		in fixing (base stab, bay 8)						4/2/2009	14/2/2009		,			ī
Value state   Value		FIRMS (Made state), pay 5), r fixed fixed state). Day 7 LHS),						\$25000 \$25000	262/2009					
Year of teach (well start, by 2 LLS)		errog formwork (wall stem bay a	rungi		4			23200	33200					
Comparison   Com	: 1	refing (wall atem, bay 7 L-15)			•	120		403/2009	14/3/2009					
The discrepancy of the control of		sing off formwork (wall atem), bay	y?LHS)					89,2009	15/3-2029	S. T. S.				
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1	:	ering formwork (wall stern, bay &	8 LHS RHS)					744/2009	774/2000				W.	
Accordance   Acc		veling (wall alem, bay 8 LHS RH Vno off formwork load shart bar	-SI	<del>-</del>	763			0:4/2009. 0:4/2006	8-4/2/D9		*			
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74 (See state, bey 6)  75 (See state, bey 6)  76 (See state, bey 6)  77 (See state, bey 6)  78 (See state, bey 6)  79 (See state, bey 6)  79 (See state, bey 6)  70 (See state, bey 6)  71 (See state, bey 6)  72 (See state, bey 6)  73 (See state, bey 6)  74 (See state, bey 6)  75 (See state, bey 6)  75 (See state, bey 6)  75 (See state, bey 6)  76 (See state, bey 6)  77 (See state, bey 6)  78 (See state, bey 6)  79 (See state, bey 6)  70 (See state, bey 6)  70 (See state, bey 6)  70 (See state, bey 6)  71 (See state, bey 6)  72 (See state, bey 6)  73 (See state, bey 6)  74 (See state, bey 6)  75 (See state, bey 6)  75 (See state, bey 6)  75 (See state, bey 6)  76 (See state, bey 6)  77 (See state, bey 6)  77 (See state, bey 6)  78 (See state, bey 6)  79 (See state, bey 6)  70 (See state, bey 6)  70 (See state, bey 6)  70 (See state, bey 6)  71 (See state, bey 6)  71 (See state, bey 6)  72 (See state, bey 6)  73 (See state, bey 6)  74 (See state, bey 6)  75 (See state, bey 6)		ir flaing (base sleb, bay 5)						22/2009	4/2/2008		·•			
7 (1972)	Γ	reting (base slab, bay 5)						7/2/2039	7,2,2009					
147   152/2009   152		work (wall stem, bay 5)		. •				22/2009	12/2/2005		* .			î
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1		venng (base slab), bay 6). Jing off formwork (wed between	bev 485' base slab bev 6)					422209	422/2008		···			
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1		geting (well stem, bay 5, H5)				27		822203	28/2/2009					
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A d 7 (well stem, bay 4 RHS)         4 d 7 (1732009)         1332009 (1732008)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)         1332009 (1732009)<	- 1	mixing (wall stem, bay 4 LHS)		•		80		10/3/2009	1*48/2009		*.			
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	Chiu Hing Construction	& Transportation Co., L	rtd.			т	Page 15							

ATTEN ASSESSION OF THE PROPERTY OF THE PROPERT		River Improvement Works in Upi	ement Work	S In Upp Revis	Contrac er Lam Te ad Maste	Contract No. DC/2007/06 ber Lam Teuen River, She Shan F sed Master Programme (Rev. 08)	2007/06 rr, She Si	han River	Contract No. DC/2007/06 per Lam Tsuen River, She Shan River and Upper Tai Po River sed Master Programme (Rev. 08)	Po Rive	L				
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· · · · · · · · · · · · · · · · · · ·	Concreting (well stem, bay 5 RHS) Skipping off formwork (wal stem, bay 5 RHS)	9HS)		2 - क - क	1,442029 242059	- 2	**4,2008	1/4/2009						•	
	(BRy 1-3) (ch -23 - 45)					113/2009	28/2/2007	1/3/2008		-		• • •			
					:		8.1,2009	BV1/2009		<b>)</b> ,+		• • •			
<del></del>	Formwork (5994 8180, Day 1633) Rebar Néng (5994 8185, bay 11			÷ 5			27/2009	15/1/2008		į An		• • •			
<del> </del>	Reber floor (base slab, bay 3)					177*(2009	10/1/2009	4771-2029		<b></b>					
	off terminanth (base slab, bay 1	ે. (દ્રષ્ટ	3 3		28/8/2007	28:5:2007	28/8/2007	26.9/2007	š						
· · · · · · · · · · · · · · · · · · ·	c (base slab hey 7) o (base slab, bay 2)		9	45		22/12/09	22/1/2009	22,12009		٨.					
<del></del>	hy (wait elem, bey 1)					7/2/2008	\$22200	7/2/2009							
	gine well stem (bey 1)			5 6	8/2/2009 11/2/2006	8/2/2009	8/2/2009	802/2009 11/37/2009					•		
	Rebardoing (wal stem, bay 2)				122/2009	12/2/2008	12/2/2008	12/2/2009	••	* /* · · ·				•••	
	Formwork shuttering and weep hote (well stein, blay 1-2)	all stem, bey 1-2)		÷ ;	16/2/2009	15:2/2009	16/2/2009	18/2/2009		*.					
	Subparing their Seril, key 1 mino, two 2 Diray. Subparing of the formwork (wall-stein, bay 1 RHS, bay 2 LHS.	ay 1 RHS, bay 2 LHS			18/2/2/06	182/2005	182/2005	18:2:200B		١.					
	( (wall atom, bay * LHS, 26y 2	RHSI					1820039	18/2/2009		.)	٠	•••	•		
	ragger Houng (well brief), 58y h LHO) Formwick, reder fixing (wall stem, bay 3)					20272009	202/2009	202/2029		•	• •				
	ng (wall stem bay 3)						28/2/2009	23/2/2008		۱					
•	ng (wall stem bay 1 LHS, bay .	3 RHS)		6P -		24/2/2/109	24/2/2009	24/2/2009	5	+					
Supplied	off termwork (well stem, bay 1 a formworst final) stem, bay 3 13	LHS, bay 3.8HS,					28/2/2009	2927208							
	Shullering formwork and reber fixing (wall stein, bay 2 RHS)	all stem, bay 2 RPS)					27/22009	27.272009						8	
	Congrating (wall sham, bay 2 RHS liby 3 LHS)	3145					29/2/2009	28/2/2008					55	0.0	
Stripping Stripping (	Stripping off formwork (wall about, bay 2 Continuides TB01 (besides reserved bes. 3)	RHS Lagr3 LHS;					24472008	1/3/2009	6.5	ò	-				
· I	Formwork and rebar fuing for decking			.pg	00200		2717-2009	21/11/2009			*				
·	Concreting (declary) Subsection of formance (declary)						9/12/2009	8/12/2008 11/12/2008			*_		0.1		
	Sailing			1			18:12:2009	20/12/2009				50%		•	
Chaning and a	Chaning and making good prior to pre-handover pattern	lover		38.47		9.5.2009 3.1075000	64/23/09	8/5/2009		ta	7.				
	Sacriffing against RHS wall					45.200	64200	BODZ N.Y			· ·				
	ainst "HS wall	i			19/4/2005	462009	19/4/2009	4,5,2,00						1	
!	Leying Guryon Clan Iday 1-3 779, 3-4 LTD; Beckfilling (547-1-4 RHS), 5-6 LHS;	ŭ				2/8/2009	10/5/2009	2/6/2009							
5				1169 d7		3011/2011	Z7/8/2008	E11/2011			-		ľ		
972 Ste Clearance	200					8/4/2008	27/8/2008 26/3/2008	8-8/2009; 22-40-2008		٠					
1	Name of the last				2112308		2/11/2008	3M17200B			٠				
	he boulder					9000-672	3*/10/2008	273/2009			•••				
	Ch 55-110 RHS Non-transceren			32.0			13/13/2009	13/11/2008		:0					
38	Gabion (ch 48-55 RHS) TG2		Ġ.			6/11/2011.	16/3/2009	841/2011			ŀ	3			
	Trench excevedon and replacing grade 200	1230		102	183/2009	18/3/2009	18/3/2009	18/3/2/09							
980 Formation	Formation of gabon wall with G200 1st Janes (¢) 49-55 RHS)			, p m	25/3/2009	27/3/2009	2532009	27:3/2008		<u>ائر</u> .					
	2nd layer (ch 48-55 RHS)			20	28/3/2029	28/3/2009	28/3/2009	29/2000		-/,					
Best Strategies	(er 45.55 R x 5)			5 <del>6</del>	\$1,300008 24,3000	1,402005	34/2/2005	1.4/2003			 :{				
·	Shilling Charles RHS.			6	27172009	2/11/2008	2/11/2009	271720091			•				
1.7	GSGD tas in front of gabian			2 07	18:4:2009	20/4/2039	19/4/2009	2044700B							
Boulder a	Goulder of river course			6.2	2711/2011	52217044	11020114	AC22011					. 4	2	
	Formwork and concreting			6 6	1.22010	642,2010	12/2010	6220:0							
8	Gablon (ch 55-95 RHS) TG2			\$70 cm	13/2009	1/11/2014	13/3/2009	7/11/2011					Ì		
Trench e	Trench excavetion and replacing greate 200 sometime of calmonical calls (2010)	302 6	83	4 t	12/3/2009	16/3/2009	13/3/2009	16/3/2009		Ĭ.,	•••				
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ort Beared M Dun/Deu (No.	Task	では、100mmの	Chical Tesh Progress	1888		Rolled Up Task		Contraction of the	Railed Us Pragress	1		■ PTset	4	Ì	
Data Date: Aug 2009	Task Progress		Messare	٠		Ralled Up Chikal Task		7	ands of	<del>-</del>		<b>~</b> .			
eurant AECOIV	Critical Tesk	**************************************	Summary	L		Rales Up Milestone			Exemel Table	:1	-	•			
Chil. Hing Construction & Transmostation Co. 144	Transmortation Co. 14					Page 15									



PTask River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Rolled Up Progress Euternal Taska 둟 27122013 27122013 27/1/2010 30/1/2010 20/12/2010 4122010 14122010 16/12/2010 12/1/2013 17/1/2015 18/1/2015 27/1/2010 18/1\*/2009 21/17/2009 21/12/2009 31/12/2009 6/2/2010 19/12/20/10 12/11/2010 47.2/2009 7/12/2009 11/1/2010 3/2/009 28/10/2008 942211 121211 1712011 1492011 4/11/2000 18/11/2009 26/1/20:0 18/11/2/QSE 277702008 47172008 143772009 5902009 16/11/2008 6/12/2006 24/11/2008 25/11/2008 26/11/2009 14,3/2003 18/11/2000 31112/2008 5/3/2006 57201 1212/2009 312220 13/11/200 12/12/200 Drainage Services Department 13/1/200 17/120 Revised Master Programme (Rev. 08) 15/12/2010 17/12/2010 Contract No. DC/2007/06 22/1/2009 22/12/2009 1/2/2010 13/1/2010 4/12/2005 5/12/2008 2/1/2010 27/1/2010 Z8/1/2010 1,222010 1/1/2010 25/11/2009 ロいるいるし 211/2009 17/11/2009 3/12/2010 4%2009 27/8/2009 2712008 37172009 24-10/2008 271/2009 2/1/2008 6222009 1411/2009 94\*1,2009 18/11/2009 121120:0 13-2210 18/1/2010 22/12210 1,12/2010 3/11/20PB 3/11/2008 30/11/2010 Rolled Up Critical Task 122010 2/11/2009 4-81200B 4/11/2/006 4/11/2006 2/1/2009 26/2/2009 211,12008 7/12/2008 911/2006 2011/2008 55/11/2009 21/12/2012 13/1/201 311/200 10/1/201 Rolled up fallestone Rolled Up Teak 12/1/2010 17/11/2010 29/11/2010 4:12/2009 7:12/2009 11/1/2010 12:1/2010 17:1/2010 16/11/2009 21/11/2009 41:222010 27/1/2010 35/1/2010 31/12/2009 9122279 6,2,20,10 42/2039 21/12/2009 18/1/2010 21M/2D10 28/1/2010 28/10/2/108 18/11/2008 4/11/2008 14/3/2009 13/11/2008 2122009 8-22009 12:12/2009 18/11/2009 19/11/2008 0/12/2008 20/12/2010 774.200 4/11/2008 18/11/2008 31/12/2005 5/3/2006 211,2009 nBri 1,2005 24/11/200 25:11:2003 28/11/2009 91.20 10297 Early Slart | Early Finish 1711/201 22/12/2009 1/2/2010 13" 1,2010 15/12/2010 17/12/2010 28/11/2009 4/12/2009 6/12/2009 2/12/2010 21/12/2010 449.2008 2779.2008 2717.2008 3717.2038 2470.2038 2717.209 5/2/2009 17/11/2009 7/12/2009 9/11/2009 19/11/2008 4062008 S\*\* 02008 4/11/2008 1/11/2010 1711/2010 3/12/2013 51222013 **4**/8/2008 2/11/2009 17/11/2009 22/11/2009 1,27,2010 DIGS:MSI 13/1/2010 18/1/2010 1971/2018 22/1/2010 27/1/2010 28:1/2010 112/2010 TENZITE 2-11/2008 311/2009 471/200B 2711/2009 2/1/2009 211/2009 21-1/2009 14/11/2009 91112009 22/11/2028 95711/20DB 28/2/2308 25/11/2008 Critical Task Progress Mestane Surmany Reber fixing and shuttering formwork (Abulment All column) Rebardiding and shuttering formwork (Abuchant B, column) Formwork and reban fixing (Abutment A, Fooling) Formwork and rebar fixing (Aburment B, footing) Concreting (Abutment A, column) Stripping off formwork (Abutment A, column) Strepling off formwork (Abutment A. footing) Shipping off formwork (Aburment B, footing) Supping off formwork (Abunnani B, column) Trench excevation and replacing grade 200 Trench excavation and replacing grade 200 Trench excavation and replacing grade 205 Bulk excevedon for footing (Apument A) Bulk excercation for footing (Abutment B) Chiu Hing Construction & Transportation Co., Ltd Comwork and rebar fixing (well stem) fatlayer Schilayer (ch 110-150 LHS) G500 toe in front of gabian Formwork and reber fixing for decking Formstan of gabion wat with G200 this layer - 4th Eyer (ch. 150-190 LHS) Formwork and rebar floing (base slab) 1st layer - 4th layer (ch. 140-150 LHS) G500 toe m frank of gabion deintemence Steircasse (ch 160 LHS) Farmation of getson wall with G200 Maintainence Staircase (ch 130 RHS) Formation of gabion wall with G200 Ch. 150-230 RHS Non-bansparent Refeiring Well (ch 190-200 LHS) TR1 Stripping of formwork (wall stem; Gabion (ch. 200-210 LHS) 7G2 Concreting (Assument B. Column) Setpping off formwork (wall stem) Concreting (Abutment A. Footing) Congressing (Abutment B, footing) Task Progress Stroping off formwark (decaing) Cre cal Task Rating vistalistics (decking) Ensaing up the bounder Demotes the house near 49C Gabion (eh 110-150 RHS) TOZ SSDO toe in front of gathon Gablon (ch 180-180 LHS) 7G4 Oablon (ch 140-150 LHS) TO4 Formedon - Abanent B Concreting (base alab) Contrading (wall shart) ž Footbridge TB02 (Ch 150) Concreting (decking) Впевкид цр тря бомовя Bulk excession Haul road formation Water diversion She Clearance Noise barriers Formation Project: Revised M. Prog (Rev.D6) Data Date: Aug 2009 Consultant: AECOM Ch 150 - 230 Tesk Name ٥

Tass Name			River Impro	Contract No. DC/2007/08 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River	Con Upper La	itract No.	Contract No. DC/2007/06 if Lam Tsuen River, She	6 Shan Riyer a	nd Upper Tai f	Po River				
		8		Tuggin .	Early Start	rastor Pro	Kevised Master Programme (Rev. 08)	9	2007 2006 2009 45 Holl of Hollso Had an Had to Had	2006	2012 2010 2013 2013	20:1	2012	2003
1117	Trench excevation and replacing grade 200 Formation of certical and	M replacing grade 2	:	\$P	14(3)2008	022	09 14/3/2009	14/3/2008	21110110110110	*				
\$ = \$	1st Inyar (ch 200-210 LHS)	HSI.				09 2-63/2003		21/3/2009		, ,				
121	and layer (on 200-210 LHS) and layer (on 200-210 LHS)	LHS)		100			05 23/2/2009 08 :(4/2009			. <b>.</b> .				
.,.	4th leyer (ch 200-216 LHS) Rebley (ch 450-480 BHS) TG3	CHS		- 5	7. S442009									
1	Trench excevation and replecing grace 200	d replecting grade 2	8	8					•		إبرإ			
1125	Formation of gathon wall with G205 1st layer - 4th layer (ch. 180-185 L4S)	wall with G2d5 5-180-185 LHS)		P 27							<b>-</b> *:			
721	G500 foe in front of gablon	nelder			d: 19:2/2010						<b>)</b> ,			
×	Cabion (ch. 160-185 RHS) TG4 Trench excavation and reclaspic practs 200	j TG4 Id neoleono prade 2)	8	P.C.		10 BY32210		5/2/2010			<b>)</b> «			•
1130	Formation of gabion wall with G200	wall with G200	100		d 13/2/2010			-			<b>بر</b> پ			9
132	18t layer - 4th layer (a CSD0 los in from of ox	44 160-185 CHSI		95L	4 46526 4 4636			23/2010			ď-			
-	Sap 1 (ch 186)   1.4m					-		-			200	Þ		
1134	Formation Formation and range 6			00 8	182011							,. <b>).</b>		
_	Concreting							1,03,501.1				u <b>≯</b> _		
!	Shroping on termwork	*			12:3/2011	11 143/2011						<b>)</b>		
đ	Carbiforn (ch. 186-210 RH9) TG1	) TGH		424					•		<b>ķ</b> .			
140	Formation of gattern wall with Gatto	na represent grade a	ana	900	d 15,22015			16222010			¢-			
	1st layer - 5th layer ;c.	:h 195-210 LHS;		28.						•	p.d			
1142	G500 toe in front of gabion	norder		, P	39.						. ï.	8		•••
<u> </u>	contactings TB03 (ch 210)			758 B7				17/1/2011				ı	60.54	
145	Bulk exponention for feeling (Abubrienc.A)	solng (Abulman: A)		60						<u>.</u>				
146	Formation - Abutmenn A	n.A		£.			05 23:2/2008	23/2/2009.						155
1148	Conceing the footing (Abunnent A)	tiong (Abdiment A) g (Abdinent A)	iðunpa	66						<b>.</b>				
1148	Stripping of the form	work floctings and	Stripping of the formant (focting) and formworking (Abulment A)	. 4						<b>.</b>				
1151	Rebar frong and shuttening formwork (Abulmanit A., wall) Congression (cours), abit, her? A3	denng formwork (At abut mert A)	outnam! A, wall)	6.0	7 173,2009	000 16/3/2009 00 17/3/2006	109 16/3/2009 178 17/3/2009	5 15/3/2009. 5 17/3/2005		٠,				•••
1152	Stipping off formant, (country, studies) A)	h (coumn, stumen	11 Y)	th.						3.5				
1153	Bulk expension for forfing (Abulment B) Formation - Abutment B	onfing (Abulment 5) It 8		104		00 11/11/2009 00 12/11/2009	109 2:11-02009 109 12:1102100	9 11/11/2006			<i>.</i> * (			
	Formwork and rebar fixing (Aburment B, Yauding)	fixing (Aburneni B.	facing;	14			•		200		<b>&gt;,</b> ,}			
158	Controlling the forting (Abulment B) Commission off the formulation depends the transmission of the formulation depends to the formulation of the	g (Abulmant B)	5, 110	- F	6 17/11/2003	03 17/1/2009		9 17/1/2009	54		. <b>¥</b> .			
1150	Reber fixing and shuttering farmwork (Abument B, wall)	tering formacok (At	Submert B, wall	1 10				. 0			¥.0			80
150	Concreting (column, Alximent B) Common off from social continuor Absoluted Bo	Abument B)	â	- n	d 22/11/2009		009 227:12009 009 224:12009	9 22/1/2009	65.61		'ANJ		87	165.61
191	Fortnwork and rebar foing for decking	foing for decking	5·	ឌ		HD 2012/2010	and i			514				
	Concreting (decking)			25					25			v?	100	
	Reifne installation (deckind)	nt (declarity) acking)		e un	. ·		11 10/1/2017	12/02011;			0.00			
:::1	Gablon (ch 215-220 UKS) TG2	1 102		30 d.S.	7. 10/1/2009					B		١		ko:
196	Trench excavation	100		9 t						٠			540	Selv
168	Fathication of gabon units	1000		1407	312	801 SULVINO 805	8002/102 800 8002/1/12 800	32/2005		15		100		
	191 layer (ch 215-220 LHS)	1145)		140	101	ea.		64		٠.				
11/0	2nd layer (ch 215-22d LHS)	19H0		5										
:	4th byer (ch 215-220 LHS)	) HSI		143				6 82/2039 6 82/2039		*				
	Geblon Joh 210-225 RHS) TG1	3 TG1				70					ţ			
1174	Transh excevation and replacing grade 200 homeston of patent and call the April	nd replacing grade t	202	150	4 455-0040						<b></b>			
<del> </del>	Formation of gallors wall with (5200 LHS) stayer - 5th eyer (ch. 185.226 LHS)	wall with Galaci ch 185,226 LHSJ		2 5			710 16/2/2010 710 16/2/2010	0 18/2/2010			ايځ.			
1	G500 loe in from of gabien	gabion		7	11,392013	กาว เ <b>ส</b> ณิสยาต					P=<			
1178 Area N				1026 d7					l			1		
	Task	*	CONTRACTOR OF THE PARTY OF THE	Cobasi Teak Progress		Rolled	Rolled Uo Teak	0.0000000000000000000000000000000000000	Ruled Us Progress	]	1	PTask	1	2
Project: Revised M. Prog (Rev.08) Dale Date: Aute 2008		Task Progress		Miestone	9.1	Roller	Rolled Up Critical (ask		teg:	_				
When AECOM		Critical Teek	Contraction of	Summary		Ralled	Ralled Up Missione		Patemal Tades		. ]			
The Court	+ 0	Action Co.				a constant	!							
Tellow filling	City that constructed a Hallshortagoll Co., Ltd.	ranon co., co				70								



Task Name		River Improv	River Improvement Works In R	Contract No. DC/2007/06 Upper Lam Teuen River, She Shan F Revised Master Programme (Rev. 08)	Contract No. DC/2007/06 r Lam Teuen River, She \$ id Master Programme (Re	2/2007/06 ver, She S amme (Re	ihan River ar ev. 08)	Contract No. DC/2007/06 In Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)	River			
			Duration	Early Start	Early Finish	Start		2007 2008 2009 st Half nd Half As Half nd Half as Half	2010 20 Harl nd Hall tot Helt in	72010   2011   2012   2013   2012   2013   2	2012 1al het Helf ind	2013 151 Helf p
	Straping off termwork (wall sharr). Formwork and rebar (raing (wall sharr).	· · · · · · · · · · · · · · · · · · ·	20	d 13/12/2010	12/12/2013 Z2/12/2010	11/1/2/2/2/10	12/12/2010 22/12/2010	· · · · · · · · · · · · · · · · · · ·		, Ad		
est (A	Concreting (well atem) Striking off formucity (see show)			דם		23/12/2010	24*12/2310			<b>.</b>	**	
Stage	\$tap 3 (ch 305) (1.4m)		**	· e ·	١,	11392011	1403/2011	•••	- . <b></b>			
	Formwork and Tebar hang		es es	6. Q		43/2011	3/3/2011			, <b>†</b>		
	Concreting					+0/3/2011	11:22011		• • •	<b>3.</b> A.		
186	Sulpping off formwork  Heintelnence Stellnesse (ch. 315 LHS)		<b>க</b>	υĠ	6/2/2011	1222011	14:3/2011 4/2/2010		<b></b>	<del>.</del>		
	Eumwert and perceeding		, us	, T		1:2/2010	5.22010					
arc.	Gablon (ch. 316-330 LHS) YG2 (replaced AD1)	ed AD1)	199	0 1		24 22010	2561/2011			<b>t</b> a		
orection.	renation of gabien well with G200	) )	3 64			11,12011	12/1/2011			g d		•
	1et layer - 5th layer (ch 315-330 LHS;	-22:	₽			13/1/2011	22/1/2011			ka ka		
T.	Gitto top in front of gabon Betalining Wall Joh 316,000 (848) (Rst creolared by AD1)	traciaced by AD11	M &	d (m)(2010	-	1/12/12	25V1-20*1			i t		
	Bulk exception			, D		1/1,12010	2011-2010					
4000	Formation		5	0		21/11/2010	25,11,2010			<b>,</b> †		
er(5)	Formwork and rebar fiding lbase stab)	iden	Ξ.	D.		DE02/11/2010	712/2110			sit		
200	Concreting (base slab)		91	ο		B/12/2010	1012/2010			.,		
	Stripping off formwork (well stem)		2.5	o t			12:12:2010			4		
e consti	nonlimote directal libita (wall brain) Concretted (well-som)	file	2 64	d 23/2/2010	24.12/2010	23/12/2010	24,122019			**		•
	Shippeng off formwork (wall stem)			Ö		:	27712/2010			<b>4</b> -		
Pen	DemoilBost of extering Footbridge TB-A (ch 325)	-A (ch 325)	12				12/11/2010			•		
	Damoibon works		27.50	14112012 14012012	127 12010	1/1/20-0	12/11/2015			Ð	580	
604	Footbridge TBO4 (oh 300) Duly avvenation for footbox (Chuitea	( part 6)	12 F			102/201	18/12/2010	5.5		1		e
	Formston - Abulment A		9-	-			112/2d*D		<b>2</b> .1			
	Formwork and reber fixing (Abutment All tooking)	ent A tooling)	¥1		16/2/2010		18/2/2010		•			
	Concreting (Abutment A. Iboring)		- (	72200			17/2/2010		.*.			
i	Straping off formwork (Abulment A. footing) Reber fision sood shultsdoor formwork (Abulmen) A. cottenti	A footing) ndi (Alvidose) A cottenti	n un				20/20/2010		d <b>≥</b> a			
	Concreting (Abutment A notumn)		-				28:2/2010				••	
	Straping off terrivors (Abutment A. column)	6, calumn)	•			27/2/2010	1/3/2010					
	Butk excension for footing (Abunnent B)	ien(B)	₽.				24/2/2010	• • •	d ·			ं
	Formwork and rebar floor John Print	For H forthoo	- 40			282-2010	282010		<b>b</b>		5.0	
	Constitute (Shutment B. frollos)	ier e, iduargi	4.7				3/3/2010			48	•	-
	Shipping of formach (Apumen B, feeting)	B, footing)	61	14 4(2/2013	03,2310		9/1/2010		<b>.</b>			
	Retail flying and shuffaring formwork (Abutmark B, column)	ork (Abutment B, column)	•0				11/3/2010					•
	Concreting (Abutment B, column)						12/3/2010		*			
	Singong off or mover (Abdiment B, Coarnit) Forework and raise follow for deckins	E, cocynini	. 8	20 13/2/00			20,11,000			:		
	Concreting (decking)		នេ			21/11/2010	10/12/2010					
100 mm	Stripping off formwork (Geolung)		6.5		- 0		12/12/2010					
	Railing newfetion (decking)		-a1	14/12/2010	16/12/2010	14/12/2010.				ч		
DSE-06E 45	B6		r ·									
3	density of the setting of the settin	Set Aury	8 9				10/1/2011	·		÷	•	
	Formation of gation wall with G200		24		1272011					4		
	18t layer - 5th leyer (ch 350-345 . HS)	HS)	#				22/1/2011			uł.		000
ě	GOOD fae in front of gablion		7			23/1/2011	25'1/201'			- D		- T-
Pio .	Exemple:						3,20,011			4 (		
	Formwork and reber fixeng			5.4 42:201*	92,2011	4/3/2011	972:2011			<u>) _</u>		Rid
, e ( ) ( )	Concreting		**				11/2/2011			, <b>b</b> ,		50
	Shipping off formwork		16.5				14/2/2011			4		
Ret	nining Wall (ch 346-360 LHS) FR1	(replaced by AD1)	₩ 9				18/1/2011	949		Ì.		
	Bulk excevedon Formalian			14/12/2010	brossent o	0102/21/1	15/12/2010			r <b>i</b> nc		
	-		- 1	:								
Butterd M Proper	(Bay Da) Task	17 cond 170 to 12 for	Cobcal Task Progress		Rollen Up Task			Railed Up Progress		PTBek		1
Data Date: Aug 2009	Task Progress		Miestone	Ē.	Rolled Up	Rolled Up Ordinal Task (	000000000000000000000000000000000000000	Spir	I			
Sal AECOM	Critical Task	( district districts	Summary		Rolled Up	Rolled Up Meatons		Egempl Tasks	W			
CALCORAGE STANKES												
Hing Construct	Chiu Hing Construction & Transportation Co., Ltd	P+1 :			D 34							

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Control of the cont					Contract No. DC/2007/06	Contract No. DC/2007/06	72007/06						
Concession of the firest   Concession of the f			River Impro	vement Works in U	pper Lam	Tsuen Rhiter Progra	or, She Si Imme (Re	han River and v. 08)	d Upper Tai Po	River			
Formation of the color of the	1			15	Early Start	Early Firitah	1	Finish 2007	2008 rd Hall 1st Harflind Ha	12009 20 11st Half nd Hall 1st	Half of Hell 1st Half	2012 nd Hall hat Hair	20:3 A Hallpal Haff!
Company of Prince Name (1974)   Company of Prince Name (1974	1903	Formwork and rebar fixing (b)	ese slab)	120		27/17/2010		27/12/2010			.*		
Comparison and provided and any provid	1305	Supplied of formwork (well st	(Aem)	2.2		1102011		5772011		•••	) d		
Company   Comp	201	Concreting (well stem)	ानी डांकत्त)	100 100 100 100 100 100 100 100 100 100		117:0211	121/2011	13/1/2011	25	•••	ند≸م		
Provide the provision of the provision		Sylpping off formwork (well at		8		16/2/2011	1405-2011	18/1/2D1*		•••	<b>†</b> .	•••	
Contract   Description   Contract   Contra		molition of extering Footbridg Demolition works	(050 to 100 to 1	120		12/1/2010	101/2010	12/1/2010		•••	•	•	
Contract	20.00	othridge TBOS (ch 350)		314 d		18/12/2010	6/2/2010	14/2/2010		•	Ì		
Comment   Comm	312	Bulk excavation for footing (A	shotment Al	0.0		17/2/2010	8-2/2010°	17,2/2010					7.1
Security of Security (Account of Account o	2 *	Formwood, and reber fixing CAL	bullment A. (poling)	0.0		23/22/010	192,2010	20252050			ارخد		
Commany Delance A commany   Commany Delance A commany   Commany Delance A commany	315	Concreting (Abuanent A, 100)	(Box	91		24/2/2010	2422010	24/2/2010			<b>.</b> .		
1	1316	Shipping off termwork (Abutin	ment A tooling)	90		27/2/2013	25/2/2010	27/2/2010					
1	19	Concreting (Abutment A. colu	omivan yabamen a, counny Jimi			MANAGED AND	SIZ:2013	282210			<b>.</b>		
The color of the	8.	Supply of formwork (Abuln	ment A. columni	96		63/2010	6:3:201B	a-3/2310			·	ď	
Market B, column   1	88	Bulk excevation for teating (A	Abulment B)	Đ.	_	3,3,2010	22/2/2016	3/3-2010					
	28	Formach and rebar figing (A)	Authority B. Tooling)	- un		999200	53,2010	9:32010					
Market B, calculum   5-64 - 442200   442200		Concreting Aboutment B. foot	Hng)			arbs.tva.	40/3/2010	13/2/2010		•••	•.a		
10   10   10   10   10   10   10   10	8	Straping off formwork (Abuth	ment B, footing)	9		303,2010	11/3/2010	13/3/2010			.7.		
10   2   4   200.00000   2011/2000   201	5 8	Concessing and shudening it	ommonk (Abutherit B, calumi)	00		19/3/2010	14/3/2010	18/3/2013			<b>.</b>		
200   2011/2010		Salping of formwork (Abuth	nerd B, column)	- 70		22/3/2/10	2013/23/10	22/22/210		,	<b>۔۔</b>	1	
20	. 92	Formwork and reber fixing for	r decking	502		2011/2010	01020101	20/1/2010			·.		
10   10   10   10   10   10   10   10	30	Concreting (decking)	30	202		10/12/2010	21/11/2010	16/12/2010		•••	ð		
Triangle	3 15	Reling Installation (decking)	3	, u		1E' 2/2010	14" Z:ZD10	18/12/20/D					
The Alizable   192201   1922	6			410 d		15222011	211/201G.	10/2/2011		<b>.</b>			
12 or 10/1001   12 or 10/100		staining Wall (ch 360-400 LHS)	) TR1 (replaced by AD1)	P+4		15/2/2011	1/12/2010	0,12011			ţ.		
12d	1 2 2	Formation		25		14,1,2011	10/1/2017	14(12011			اي		
2 d 277/2211   247/2	8	Formwork and reber forig ib.	увев а(вр.)	12 0		25/1/2011	15/1/2011	264/2011			4		
10		Concepting (base sibb) Strangen off framework (well a	i be	976		1100118	30212011	2842011; 3142011;			1,4		1
1	88	Farmwork and rebar light (w	vali elem)	50		102/201	1/2/2011	102/2011		•••	₽d		
12   12   12   12   12   12   12   12	₽	Concreting level stem)		22		12/2/2011	11/2/2011	12/2/2D1*					
Marketon   Substant	v	Shipping off formwork (walls a feet and older)	stem) 's TD4 (conferred for 0.04)	3 3		15/2/2011	132/2011	15,2,2017.	949		1	ï	
Second   Collection   Collect		Bulk axcavation	from the personal state of	904		.0.12/2510	1,11,2010	12/12/2010			્ત		
12 d	**	Formation					11,12,2510	15/12/2010		•	4		
10   21/12/2010   1/12/2011	£ #	Formwork and reper fixing (b	Sesse Bigo)	124			16/2/2010	27/12/20*D			À-		
10c   21(2014   141(	47	Shipping off formwork (walls	(Lean)	24			31/12/2010	1172011			P .P		
Sab	\$	Formwork and rebor fixing in	well assem)	10,0			2/1/2011	11/12/11			ut		
12 d   1/1/2010   124/1/2010   174/1/2010   124/1/2010   172/1/2010   172/1/2010   172/1/2010   172/1/2010   172/1/2010   172/1/2010   172/1/2010   172/2011   172/	\$ 5	Continuing (was stant) Stronger off formwork (wat a		N:07		184/2011	14/1/2017	1842511			<b>≱</b> ,,		
12 d	201	modition of existing Factbrick	ge TB-C (ch 390)	124		12/11/2010	1,41,2010	12/11/2010	- 22	••	Þ		
3 d	_	Demotition works an 5 Jeh 4001 (1.4m)		12,4		12/11/20/0	1/2/2011	12/11/2010 14/2/2011			•		
2 dd   4422011		Formation		ň		THEFT	112/2011	32:201			À		
1	2 3	Concretto		500		11/2/2011	4/2/2011	11,2,2011		••	<b>.</b>		
14   25/12010   24/1	250	Stripping of formwork		Ň		14/2/2011	12/2/2011	14/2/2011	.83				
1	30	actionage TB06 (ch 400)		381	•	2442740	27172010	17/1/2011				9	
14   37/12010   37/1	000	Formation - Abdingal A	'S name of the state of the sta	ř		25/1/2010	25/17010	25512010		χ	<b>.</b>		
14	1984	Formwark and reber fixing (4	Abulment A, teology	3		301.2010	28/125/10	3071/2010					
Summer A, column)  Selection of the Analysis of Analys	2003	Streeting (Abudment A, No. Streeting of formwork (Abudi	odna; (meni A. tocana)	ž m			15/25/0	3171220°U		•••	<b>b</b>		
Collections	384	Rebar fong and shuttering	srmwork (Abulment A, column)	q	222		4/2/2010	8/2/2010					
Milestons   Reliad Up Catical Task Commission   1		H	Street Street Street	Critical Task Progress		- Rulled Up	52000	ALLEGA COLOR	Rolled Up Progress		P:B3K		1
Rainmany Reference Options Againment Reference Reference Companies	roject: Revised M. Pro pate Cleber Aug 2009	-		Miestone		Rolled Up			Spili	-	-		
	onsutant AECOM	Chical Teal		Summany		dC belief			External Tasks	***************************************	ĺŧ		
						000000000000000000000000000000000000000							

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			River Improvement Works in Up Revi	ement Work		Contract No. DC/2007/06 per Lam Tsuen River, She Shan Rised Master Programme (Rev. 08)	Contract No. DC/2007/06 r Lam Tsuen River, She ed Master Programme (R	2007/06 r, She Sh nme (Rev	ıan River ar 7. 08)	Contract No. DC/2007/06 per Lam Tsuen River, She Shan River and Upper Tai Po River sed Master Programme (Rev. 08)	S River			
	Tesk Name			٥	Duration Fath	Farly Start Earl	Early Finish	Start	100000	2007 2008 2009 16LHsHi nd Hai 1st Haiff		2012 2013 2013 2013 2013 2013 2013 2013	2012 d oc del *el Helf	2013 od Hall 14 Half
98	Constitution of Stapping of 1	Constraint (Abutment A., column) Shipping of formactic (Asument A., column)	(Juna)		- 1d		922/2010	92.2010 1	92520°0					
1387	Bulk excevab	Bulk excevation for tooling (Abulment B)					11:12010	2/1/2010	01027-011		A			
200	Formwork, Sp.	Formwork and reber fishs (Abutment B. fooling)	(Roding)			13/12010	17x12010	137,2010	0.021-71 0.021-71		+.+ 			
1371	Shepping off?	Concerns (Abument B, raceng) Stepping off farmwork (Abutment B, tool	(Judi)					18/1,2010	21,7,2010		. <b>.</b>	,	,	
1972	Reber fixing	Rober fixing and shullering formwork (Abutment B, columnic Connection (Abusment B, columnic	Mulment B, columni	;	7.0	22/1/2010 2	28/1/2013	22/1/2010	28412040					
1374		Streeting off formwork (Abdiment B. column)	(uwn						90'1/2010;	•••	<u>t.</u>			
1975	Formwork an	Formwork and reber fixing for decking Concedent decking							20:12/2010			*		·
1377	Supplied of	Stripping off formwork (pecking)			•			10/1/2011	12/1/2011	• • •		**		٠.
1378	Raling meal Ch.400-525	Raling netalation (decking) 25				12/1/2011	17/1/2011	42/1/2011 8M11/2008	17/1/2011 20/2011			Set		
138 138 138 138 138 138 138 138 138 138	Refaining Well (c	Retaining Wall (ch 400.420 LHS) TR1 (replaced by AD1)	Noted by AD1)		67 d				6472041	••		t		
1382	Bulk extension Formation	ug.					5/12/2010		5/12/2016			g.i		
1383	Formwark as	Formwork and rabar frong (base slab)			ï	BY12/2010 1	- 1		17/12/2010			e.t.		
1385	Contrabung joses state	Constitution of formwork (well brem)							22/12/2010		••	*.1		
1385	Formwark an	Formwork and rabar fixing (wall start)			· 0 ·	22/12/2010	11/2011	29/2/2010	1/1/2041			kits		
1389	Supplied Silipping of	Stripping of formach (wall stem)		-					6,12011			<b>.</b>		
388	Retaining Wall (ch 4	Retaining Wall (ch 405-435 RNS) TR1 (replaced by AD1)	leced by AD1)		724				41/1/2014			ţ		
1391	Formalian						1072/2010		10::22610			y d		
1982	Formpaph; 8r	Formwork and reber fixing (base stat). Connecting (base data).			120				22/2/2010			g <b>j</b> a		
38	Burioping	Stripping off formwork (well atent)		Ċ					27/12/2010			<b>.</b> *		
13,85	Formwork and reber to Concretion deal sharts	rd reber fodng (wai stem) val stem:				29/12/2010	\$1,2011	28/12/2010	6/1/2011 8/1/2011			u <b>t</b> io		
1397	Stripping off	Stripping off formwork (wall stem)						6472071	11/1/2017			<u>+</u> _	ē	• • •
1398	Maintainanne St. Formwork an	italinamos Stelrcasse (oh 420 LHS) Formwork and conceptos			_			1/2/2010	8/2/2010		<b>.</b>			
1400	Gabien (ch 420-	Gabion (ch 420-480 LHS) TG2 (replaced AD1)	(D1)					212/2010	4/2/2011		·	ţ:		• • •
1402	Trench excel Formation of	Trench excelvation and replacing grade 200 Formation of pathon wall with G200	300		200		2042011	212,2010	22:1:2011		•••	<b>3</b> -		
1403	1st layer . St.	h layer (ch 420-450 LHS)				2012011		23/12011	1,2,2011			<b>)</b> , <b>)</b> ,		
4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Retaining Wall to	S500 tee or front of gabion Retaining Wallich 435.450 RHS! TR2 (replaced by AD1)	leced by AD19		000			2/2/2011	201/2011		•••	t	11.0	
1408	Bulk excevation	for	•					15/11/2013	14,12,2010			đ		
. <del>6</del>	Formatic ar	Formwork and reber fixing (base slab)			126 20	2012/2010 3	1	2012/2010	31:12:20:10;			أدف		3000
1408	Concreting (	Concreting (base sen)						1/10/01/1	3/1/2011			už i		
1411	Formwark at	Formwork and rebar foung (well stern)			פינ		15/1/2011	8142011	15/1/2011			h,d.		
1412	Concreting	well stern) formannet tunit cham)			55	164/2011	1771-2011	16/2011	17/1/2011			*.	iii	
414	Box Culvert 780	Covert 1804 (ch 480)		÷			8/1/2010	1/12/2009	6/1/2016		<b>B</b>			
14(5	Bulk excavation	ban						1/12/2309	10/12/2019		d-			
1417	Formwark at	Formwork and reber fixing (hase slieb)					18/12/2009	14'22103	18/12/2009		**			
1418	Concreting (base slab)	Concreting (base alab)						19/12/2009	20/12/2009					
1420	Formwork at	Figure of and reber fixing (well stem and roof stab).	nd roof elab)		, ,	23, 2,2003.		23-12/2003	31/2010		<b>*.d</b>			
1421	Concreting (	wall stem and mof slab)				4/12010 4/12010		4/1/2010	\$472040 843340		·			
¥	Retaining Wall	Retaining Wall (ch 450-490 LHS) TR2						1/12/2010	5727011	9		ţ		
		tion		•				1/12/2018	30r-22510 4/1/2011			<u></u>		
1428	Formwork ar	Formwork and reber fixing (base slab)			- 1	5/1/2017		5/1/2011	16/1/2011			ts	{	 :
1		Task	The state of the s	Cultost Teak Progress	488		Rolled Up Tesk	2000	Section of the sectio	Relied Up Progress		■ PTesk	1	1
Deta Date	Fragact Revised M. Frag (Rev.uk) Data Date: Aug 2009	Task Progress		Milestane	٠		Rolled Up Critical Task		(	18	Trees as a	-		
Consultant	- AECONI	Critical Task	The state of the state of	Summary		1	Rolled tip Missions			Examal Tasks	Contract of the Contract of th	!9		
Chiu Hin	Chiu Hing Construction & Transportation Co., Ltd	insportation Co., Lts					58.000 53							

Teach Neme					Contrac	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan River and Upper Tai Po River	/2007/06			i				8
Task Nerve		River Improv	River Improvement Works in		200			hos Divos	and Hanne Tai D					
Teach Nemve		oldini lavisi	Administration Application	_ [	d Maste	r Progra	Revised Master Programme (Rev. 08)	<u>17. 081</u>	and upper rain	O KIVE				
			Dura	ŭ	S.	Early Firish	Page 1	Find 20	2017 2018 2009 22:00 2011 12012 (2018 1201	2009 Jainst Harlind Ha	2010 1 te Haff od Hal	2011   20 1st Half and Hall he	202 20 20	13 Hoff nd Ho
	tee stab) muserie hand stom)			0.0	1707177	15/1/2017	17/1/2011	180,2011				•		
	Formwork and rebar fixing (wall sham)	~				31/1/2011	22/1/2011	31/12011				<b>.</b>		
	all stem) mwork (val stem)			00	1,2,2011	5,2/2011	1,2,2011	50,2011						
35	(m)				1/3/2011	14/3/2011	102001	1403/2011						
1434 Formwork and rebar from	rabar franc			o to	1,32211	8372011	4/3/2014	30,2011 90,2011				de:	5.5	
1435 Cardeling	;	:		390		11/3/20-1	102/2011	1102011				*.		
2428 Schiphing of lowwork, 423 Revision Mail on AMI GROUNS TR2	AMOUND LINES THE	.8				14/3/2011	12/3/2014	14/3/2011-		•				
	n de la company		•	. 0	. 4	0102210	1/12/2010	2012/2019				···		
Formation Formation					2 014272742	25/12/2010	21:12:20:0	25/12/2010		•••	r.co		•••	
	romitwoin, and reder thang (base state) Concreting (base state)	5	S.	07 PE	7/1/2011	9172011	QUESTION	5/1/201*		••		··		
	Shipping off formwork (wall start)					11/1/2011	1027-01	1177,2011		•••		<b>.</b>	• • •	
	Commerct and reban fixing (wall stem)	-			12/1/201	214/2011	12712011	21/1/2011				ı, t		
1444 Concreting (wall stern) 1444 Sittesha off (armeoth	ali steri) Prosone Assal sterni			20.0		28/12011	24,12011	28/1/2011				. <b>)</b> 1.	•	
Tig.	Minding Will (ch 450-500 RHS) TR2					28/38/2010	21/2010	28/3/2010			1			
: 1						20/2/2010	2/1/2010	20/2/20-0			**			
						25/2/2010	21-2:2010	25,2,2010						
1443 Formack and	Formwork and repartoung (base elab) Congression (bece also)	: 8				1972/2012	28622D10,	0.000000			+-			
	Strong of fortwark wall stem					14322010	13632510	1403,2010			<b>.</b>			
	Formwork and rebar fuing (wall stent)	•		10 d		24:3:2010	15:3/2010.	24:3/2010			<b>}.</b> ⊒			
	Concreting (wall stom)		*		25/3/2010	263/2010	25/3/2010	28622010			<b>A</b> :			
1454 SURPHING OF 1954 SURPHING OF 1954 SAN 1954	SINNORE (WELL SMIN)			725	27,372,010	28/3/2010	2002001	29672010			-			
					:	20/12/20-0	1/12/2010	20-22010				institution of the second		
		84				0102/21/52	21/12/2010	25/12/2010		••		·		
1458 Formwork and 1558 Formwor	Formwork and reber frong (base slab) Corposition (base slab)			97 PE	26422010	61,2011	23/12/2010	6/1/2011	•	•••		d:		
	Skilpping off formwork (well stem)					11:02:011	10,100-1	11/1/201		•••		10	15	
_T.	Formwork and rabar hang (wall stem)	F				113211	12712011	21/1/2014						
1402 Concreting (wall sterril	del stemi					24/25/11	22/12/11	26/1/2011				+	*	
300	Retaining Well (ch 500-530 RHS) TR3					9/3/2010	2112010	94302010				ä		
	ç					3*41,2010	24/2010	31/1/2010			đ			
	Formation Formation and caberfailes these alabi	- 2			1,222010	17559010	42221d	0.02/2/21	200		<b>*</b> /			
1486 Concreting (base elsb)	tee elab)				8:2/2010	20/2/2010	18/2/2010	20/2/2010	-		 اس			
-	Stripping off formwork (wall sham)				1,2,2010	22/2/2010	21/2/2010	22:2:2310			N.			
1470 Formactic and rebar to Concretion (see asset) asset)	Formwork and reber foung (wall stein) Concretion (well shem)	2			5922010	432010 833010	532000	403/2010 6/3/2010			20		Ø.	
1	Stripping of formwork (well seem)			· · ·		0,02.676	7/3/2010	9-3-2010	3.50		٠.		•	
1473 DemolHor of exist	Demolition of existing Footbridge TB-D (on 625)	1 (on 625)	2		1/11/2010	12412010	1141/2010	12/11/2010	V-1-5	••	•	V. 5		
1475 Footbridge 7807 (ch 525)	ch 525					20/3/2014	B/11/2009	20092011	0.0			ì		
1 '7	Bulk excevelion for footing (Abubrant A)	በ. አነ		P		18/11/2009 <sup>-</sup>	6/11/2009	18/11/2009			Ā			
1472 Formelon - Abdingst A	Formation - Abdiment A. Formatics and reban factor (Abdiment & Youthor)	1 & Jacknet		24.4	18/11/2009	19/11/2008	19/11/2009	19/11/2005		•••	i#.2			
	Concreting (Abument A, Roding)	P. C.		, ,		257:12009	25/11/2009	25/11/2009			<b>*</b> * *			
Shipping of to	Stripping of formwork (Abument A., 'soding)	'acting!				28/11/2009	26/11/2000	29/11/2039			a≱a			
	burneril A, column)	Concepting (Abusered A cotton)				4722009	4.1272309	412/2009			• • • • • • • • • • • • • • • • • • •			
	Shipping off formwork (Abulment A cournn)	Course)	:	- 8		7012/2009	5/12/2000	7/12/2059			e c			
1484 Bulk excevation for faction	on for facting (Abutme)			104	172/2009	10/12/2009	1742/2009	10/12/2009			4			
	Fortwork and reber fixing (Abulment B footing)	ILE footing)				16/12/2008	1272/2009	16/12/2009	8.		+:)			
1487 Concreting (At Streeting (At	Concreting (Abutment B. tooting) Sticoping off-familiary (Abutment B. Froting)	(podina)		00	en re	17/12/2003 20/12/2009	12/12/2009	17/12/2009			-, <b>*</b> , «		302	
							1		Ш					
plact: Revised IA: Proc (Rev.08)	Taek		Critical Task Progress			Rollee Jp Task		2000 CONTRACTOR		l	P, ask			Þ
Darte Date: Aug 2009	Task Progress		Minstone	٠		Rolled Up (	Rolled Up Ortical Task 🕟	Paragraphic and second	100 PM	1				
	Chical fact	later comments	Summary			Rolled Up Wilestone	Westone		Ewentel Tasks	Salar and Asia	. )			
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			River Impro	wernent W	orks in L Re	Contributed Mas	Contract No. DC/2007/06 Upper Lam Tsuen River, She Shan R Revised Master Programme (Rev. 08)	3/2007/06 ver, She S amme (Re	ihan River a v. 08)	Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)	- River			
Tack Nema		3		8	Duration	EBry Start	Early Frish	Start	9.47	2007   2008 1al Half ord Ha, het Half ord Ha	2016 2017 2017 2017 2017	2010 2013 2013 2012 2013 2013 2013 2013	2012 'Yel 191 Helf'	2013
	Rebar fixing and shuffs	anna formwork (A	Rebet fishing and shuttering formwork (Abutment B, column) Companies (Abutment B, column)	:	`घ क की स	217-272009	25/12/2009	21/12/2009	25/12/2009		<i>,</i> *.		- II	
	Stripping off formwork (Abutmenn H, co	(Abutmenn H, co	(mm)k		9			27/12/2009	2B/12/2009		•			
	Concreting (decking)	BILLIAND IN THE			នឹង			21/2/2/2017	1102/2/21			ą.†		
٠	Stripping off termwork (deck) Parling installation (decking)	(dascking) ckmg)			5 E			13/3/2011	15/8/2011			u <b>†</b>		
Ch 526-615	1618	i			P864			2/11/2009	14,372011		ŀ	Ì		
Б 	Gtap 7 (ch 530) (1.2m) Formation				100		3/2/2011	1/3/2011	3/3/2011			<b>≱</b>		
	Formwork and rebar foling	6up			Di Di	4:3/2011	B-3/2011	432017	9:32011			<b>አ</b> ው		
8	Shipping off formwork				6.6 0.0		14:3/2011	12/3/2011	14.3/2014			.) <sub></sub> .		
Æ	Petaining Well (ch 530-555 LHS) TRA	S LHS) TRA			100		4/1/2010	\$/41/200B	4742010		ţ.			
	Bulk excevation				502		3/1/2/009	28/11/2028	342/2006		2.4	-	89	e.
	Formwork and rebar fliding (base slab)	dng (base slab)			P-61		15/17/2/0PB	4/12/2/009	15/12/2009					
100	Concreting (base slab)				200	16, 22009	18/12/2009	15/12/2009	18/12/2009		i.†			
	Supplied on remined a local stand. Formwest's and refer flagon (wall stand).	KOO (eval stem)			101			21/12/2009	36/12/2000		•			
	Contrading (wall stem)				2	5		31/12/2009	174-2010					
	Straping off termwork (wall stem)	(wall stem)			3.			2/1/2510	4" 2010		-			
œ	Maining Wall Joh 535-55	S RHS TRA			57.0	21111/2008	1611/2010	24,11,2009	16/1/2010				•	٠
	Formation				8"			11-12008	1012/2009		d-			
:	Formwork and reber foxing (base slatt)	(data esed) quix			120			10/12/2009	27:12/2008		***		vite.	
	Concreting (base elso)	_			9.	28/12/2009	ᆔ	28/12/2009	30/2/2009				573	0.00
	Support of formwork (wall start) Formwork and reber fujing (well start)	Coval start)			100			2/1/2015	11/1/2018		. <b>≯</b> .4			
	Concreting Iwal stem)	-			0			12/1/2010	13/1/2010			•••		
	Stripping of formwork (wall stem)	(walistem)			9		· 8:102010	14/1/2010	16/1/2010		•			
r.	etaining Wall (oh 065-69 Bult avraushno	B LHS J HS			709			0.02017	2002/02/10		•••	đ		
	Formation				99		Ñ	21,12/2010	25/12/2010			d		
	Formwork and repar fixing (bese sleth)	(dels esec) bux;			2			26/12/20110	E1-2011		•••	v.t.		
	Contrasting (1859-1855)				n c	7/1/201*	11/1/2011	1042211	41052041		•	. <b>)</b>	ď.	2
	Formwork and reber fixing (was elem)	king (wat elem)			. 4			124,2011	21/1/2011			<b>.</b> .2		
	Concreting (well stern)				2.5			22/1/2011	23-1/2011					0.0
528	Stripping off formwork (wall stem)	Consistent			9 6	24/1/2011	28/1/201	24/1/201*	284/2011					
	Dut annual in 200-04	CALL (STAN CA			200		_	OLOSALIA OLOSALIA	ביוובייונ					
	Formerica				200	318	• • •	21/12/2010	25-12/2010;			ئىرچ ا:		
	Formwork and reber foung (base slab)	(qels oseq) Buo			120			28/12/2010				e.P		
	Concreting (base slab)	7			ř.			1.D2H2				٠,		
534	Support of formwork (well stem)	( (Well Steff)			N Ç			1200001	2424-2011			*		
1000	Concreting (wall stem)	1			20			22,12011	7577-2011	:		<b>}</b> +		
:	Stripping off formwork (wall etem)	( (well elem)			m :			24/1/2011	267-2011				91	
	Box Culvert TB02 (ch 580	÷			P 65	16/11/2008		16/11/2009	2501122003		, i			92
•	Farmation of box culvert	t D			ě			28/11/2009						200
541	Furnished and rebar fixing (bate stab)	(ving (bate slab)	_		5									
542	Concreting (base size)	÷			ou c	n 7			5/22009		·*i			
7 7	Straping off termwork (base state) Feature is and reber failed (well assor and rechisite)	K (base seo) 'aino 'well asem a	and roof alabi		120		19/12/2009	842/2009			<b>†</b>	11		
52	Concreting (wat stem and roof slide)	end roof data;	Old the state,		14									
	Supping of fortwork				201	*		22/12/2009			·		010	
	Retaining Wall (ch 885.818 LHS) TR3	18 LHS) TR3			6 61			27112009			Ĭ.			250
1548	Bulk exceveber.				20,		2-7152039	2/11/2009				80		
950	Formwith and rabar fiding (base sleb)	(dels ased) gribil			12 d	27/11/2009	·	27/11/2009	8/12/2008		*·		٠	
	300	W 200 W		Colicel Tees Portoes	Swerings		Rolled Ho Tabe	80	***************************************	assigned oil belog		¥ 5.		
act: Revised M. Pro			AND DESCRIPTION OF THE PARTY.		- selford		- Roter op							
Data Dave: Aug 2009 Consultant a ECOM		lack Progress			•		Rolled Up	Rolled Up United 1964			-	- 34		
-	_	Cobcal Fask	Section 200	Summany	•		Holed Lip Milestone	Milestone		External Tasks				
		Charles and the same	Sept. 2005											

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River Improvement Works in Upper Lam Tsun Revised Master	Concreting bear also    Solidor all towns of the little and the	### True   DC/L ### True   True   True   ### True   True   True   ### True	Start		Id Upper Tai Po	E	<u>2012</u> <u>2012</u>	<u> </u>
Company   Comp	Concreting (New 1989)   Softpatro (New 1989	### Program    Early Finish	Start		2008 1 PA 181 IN	E	<u>20.72</u> <u>11 m Haff m 15 H</u>	지 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
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1	Parameter and Seriotive National Health Seath	13/12/2039 25/12/2039		13/17/2009 13/17/2009 25/17/2009 25/17/2009 25/17/2009 15/17/2009			·······	
1	Promotive and regard politication of the profit of the p	25/12/2008 25/12/2008 26/12/2008 26/12/2008 26/12/2008 26/12/2008 26/12/2008 26/12/2008 26/12/2008 36/12/2008		25/12/2008 25/12/2008	lear Low			
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1 1	Contracting planse about   Contracting planse   Contrac	3,1422009 28**22009 28**22009 28**22009 3,0422003 3,1422004 22**1122006 22**1122006 3,14122006 3,14122006 3,14122006 1,24122009 1,24122003 1,24		15/12/2008 21/12/2008 21/12/2008 20/12/2008 22/12/2008 22/12/2008 31/12/2008	ear Low			
2 4 17-2200	Fortiven's fail either (heal stem)   24   171/22009   31   31   31   31   31   31   31   3	1857.2209 2047.2209 2047.2209 2047.2209 2241.2006 2241.2006 2241.2006 3141.2006 3141.2006 3141.2006 3141.2006 1541.2009	22.00000	26/12/2008 20/12/2008 20/12/2008 20/12/2008 22/12/2008 22/12/2008 31/12/2008	esm Low			
1	Corridated pleat state	26.7.2209 27.1209 27.112096 22.112096 22.112096 22.112096 27.112096 31.12096		301/2/2009 271/2019 2271/2019 2271/2009 2271/2009 3771/2008 3771/2008 1371/2008 1771/2008	lase Law			
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11   2   2   2   2   2   2   2   2   2	PS44 (in 100 RHS)	22/11/2016 22/11/2016 22/11/2016 31/1/2010		2271209 2271209 2271209 2771209 2771209 2771209 2771209 2771208 2771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208 1771208	and the			
### 14 2017/000 2017/	PSA2 (SH 140 RHS)	22/11/2006 3/1/12/2006 3/1/2/2006 3/1/2/2009 3/1/2/2009 15/1/2/2009 15/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009 13/1/2/2009	**************************************	227 12200 37112000 37112000 37112000 37112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000 13112000	±00			
### 15   11   12   12   13   13   14   13   13   14   13   14   13   14   14	PS44 (ch 2.12 DHS)	28/12/06 31/1/20/06 31/1/20/06 30/12/20/06 15/1/20/06	The all 1978 - 17 19 19 and 17 19 19 19 and 1970	2541/2008 3-41/2010 3-41/2010 3-41/2010 30-71/2008 141/2008 141/2008 141/2008 141/2008 141/2008 141/2008 141/2008 141/2009 141/2009 141/2009 141/2009 141/2009	<b>.</b>			
### 1900 Files   191200   1912000	PS44 (ch 340 RHS)	31112000 31112000 31112000 31112000 15412010 17112000 17112000 17112010 17112010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010 1712010		3-112010; 3-112010; 30-112203; 30-112203; 13-11203; 17-1	<b>↓</b> nω			
Columb	FS46(ch 530 RHS)	30/12/2009 30/12/2009 13/12/2009 17/11/2009 17/11/2009 13/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 12/12/2009 13/12/2009 13/12/2009	10000 - 11000	\$072.2003 19712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008 17712008	<b>↓</b> αω			
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1	GS-22 (4) 140 RHS    GS-24 (4) 140 RHS    VO 1 - Revised Detail of Project Signboard in Usper Tail Po River   VO 1 - Revised Detail of Project Signboard in Usper Tail Po River   VO 21 - Revised Detail of Project Signboard in Usper Tail Po River   VO 21 - Revised Detail of Project Signboard in Usper Tail Po River   VO 23 - Rev Cluber Tail 20 Revised TB22 in Usper Tail Po River   VO 24 - Revised Detail of Project Signboard in Usper Tail Po River   VO 34 - Revised Basid for a Revisit Haurdail   Volus at 43 C	13/12/04 13/12/04 13/12/04 12/12/20/04 12/12/20/04 12/12/20/04 12/12/20/04 12/12/20/04 12/12/20/04 13/12/20/04 13/12/20/04		25:10:208 12:1:20 12:1:20 12:1:20 12:1:20 12:1:20 12:1:20 12:1:20 13:1:20 13:1:20 14:1	e Gr			
1-20   1-20	GSA3 (AT 220 RHS)   CSA3 (AT 220 RHS)	25/10/2008 13/10/2010 12/12/2003 12/12/2008 12/2008 12/2008 12/2008 12/2008 12/2008 12/2008 12/2008 12/2008		25:10:2006 13:1:20 21:2:2010 12:11:2010 12:11:2010 14:12:200 14:12:200 14:12:200 14:12:200 14:12:200	ļ	.48 U.J.J.J.J.		- E1
12   11/2009	CSS-64 (or S20 RHS)	13/1/2010 13/1/2010 12/1/2/2003 12/1/2/2003 12/2/2008 12/2/2008 13/2/2008 13/2/2008		134,20°0 124,2000 124,2000 344,2200 158,200 212,8200	ļ			
1	12 d   11/2/2008   1/2 d   1/2/2008   1/2 d   1/2/2008   1/2 d   1/2/2008   1/2 d   1/2/2008   1/2/20	12/12/2008 12/12/2008 12/12/2008 18/9/2008 12/8/2008 13/9/2008 13/9/2008		212/2000 12/12/2000 31/12/2010 16/12/200 12/8/2009	ļ	'vos		
17 ct   11/2000   20/200	Viol 4 Access for house 456         Viol 4 Access for house 450         <			12/17/2010 34/12/2010 16/8/2008 12/8/2008				
See	Wattern Under Actors for house 499  VO 9- Neutral Parison  VO 9- Neutral Parison  VO 9- Neutral Parison  VO 9- Neutral Parison  VO 11- Severated Develor of Project Signboard in Labor Tail Po River  VO 12- Severated Develor of Project Signboard in Labor Tail Po River  VO 23- Rec Culvert Tail 2  VO 24- Severated Develor Tail Advincent Tail Po River  VO 24- Modratement of Footblodge TBOZ in Upper Tail Po River  VO 27- Improvement to the Footblodge TBOZ in Upper Tail Po River  VO 37- Improvement to the Footblodge TBOZ in Upper Tail Po River  VO 38- Profession of Temporary Vehicular Gave as Maintenance Access D  VO 99- Period Demotition Broil Resultational Trail Colors  VO 90- Period Demotition Broil Resultation of Footblodge TBOZ in Upper Tail Po River  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation  VO 90- Period Demotition Broil Resultation of Parison  VO 90- Period Demotition Broil Resultation  VO 90- Period Demotition Broil Resultation Broil Resultation Broil Resultati			10/8/2009 12/8/2009			8	
Section   Sect	VO 51 - Notician Training Contenting Englished States of the Contenting States of the Content Training Walls at Maintenance Access D 176 or 154-2010 VO 24 - Recordinations of Foodback Training Walls at Maintenance Access D 176 or 154-2010 VO 24 - Modifications of Foodback Training Walls at Maintenance Access D 176 or 154-2010 VO 24 - Modifications of Foodback Training Walls at China C		207/2008 207/2008 104/2010 164/2010 217/2009	12/8/2009	1000			
State   Sta	VO 11 Revised Detail of Project Signboard in Usper Tail Po River   10 47   207/2008	(4) (4)	207/2008 104/2010 164/2010 21/1/2008	Bounton	]			
17   17   17   17   17   17   17   17	VO 21 - Severage of Publisherance Access D VO 21 - Severage of Publisherance Access D VO 22 - Severage of Publisherance Access D VO 23 - Rev Chrown TEB33 VO 24 - Modifications of Probleche Tips and Retaining Walls at Maintenance Access D 429 d7 - 217-2209 VO 52 - Modifications of Probleche Tip De Tips II to River 7 - 220 d 47 - 217-2209 VO 73 - Improvement to the Formalion of Genden Walls at Ch 47 to Ch 75 f 29 Ch 75 f 27 d 717-2209 VO 74 - Gabbon in front of Bouldar Tipp VO 74 - Gabbon in front of Bouldar Tipp VO 74 - Gabbon in front of Bouldar Tipp VO 74 - Gabbon in front of Bouldar Tipp VO 74 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Bouldar Tipp VO 75 - Gabbon in front of Gabbon II VO 76 - Gabbon in front of Gabbon II VO 76 - Gabbon in front of Gabbon II VO 76 - Gabbon in front of Gabbon II VO 76 - Gabbon II VO 76 - Gabbon III Formation of Temperation of Gabbon II VO 75 - Maile Good the Daimaged Bidge Deck and Re-provision of Fandmal for Exist of P 442009 Site Instruction of Good of Good Gabbon II VO 75 - Gabbon II VO 75 - Gabbon III Residency of Good of Good Gabbon II VO 75 - Gabbon III VO 75 - Gabbon II VO 75 - Gabbon III	61	16/1/2010 21/1/2009	2817/2000	••			
### Section of Familiar and Aboars D 605 of 217/2009 11/2009 1	VO 34 - Moderators of Bourder Trap and Retaining Walls at Meintenence Access D 409 dt 217-2009 VO 52 - Moderators of Bourder Trap and Retaining Walls at Meintenence Access D 409 dt 217-2009 VO 52 - Moderation for Footbode 1802 in Upper Tail Po River 773 - Improvement for the Formation of Genton Walls at Ch. 75 in C		217-C20D9	4.02001Q		ы )		
Section   Sect	Additional of Foreholds TBD2 in Upper TB Po River 350 movement to the Foreholds of Cooken Walls at Ch. 40 to Ch. 761 418 47 77 772209 3 and in front of Boulden Tag. 3 and in 1/2 2009 3 and in front of Boulden Tag. 3 and in 1/2 2009 3 and in front of Boulden Tag. 3 and in 1/2 2009 3 and in front of Boulden Tag. 3 and in 1/2 2009 3 and	200		1/4/2012		H		
Well at Ch. Act Dr. 756         418 at Ch. 756         <	Concernant to Boulear Tage 1 (1) 25 (2) 755 (3) 20 20 20 20 20 20 20 20 20 20 20 20 20	31/12/2010		31/12/2010	•			
Handrail  He of House 43C of Sine Por Tail Village  To discuss the Size of Sine Por Tail Village  To discuss the Size of Sine Por Tail Village  He of House 43C of Sine Por Tail Village  To discuss the Size of House 43C of Sine Por Tail Village  He of House 43C of Sine Por Tail Village  To discuss the Size of House t	Main material in section in testing handral fing of addition steel pipe on existing handral fing of addition steel pipe on existing handral find the section of addition and Received the Maintenance Acues Co. She Por Tasi Village 25 d.7 (45/2009 oxision of Temporary Vehicular Gate at Meintenance Acues Co.	31/3/2010		21/3/2010		の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の		
T d	VO 89 - Protectine Nood measure VO 90 - Protectine Nood measure VO 90 - Service Comment Nood measure VO 90 - Service Comment Nood Service Comment Noon Servi	8/5/2009		8.5/2039		y:		
12 d   48/2009	VO 90 - Serial Demotition and Revision of House 43C of Sin Pin Thai Village 125 of 15/2009 VO 90 - Serial Demotition and Revisional Medical Carlo at Medical Ca		6/5/2009.	12/8/2019				
# Milesone   Christope   Chris	VOILD: Provision of Temperary Vehicular Case as Meillensunce Acues D  VOILD: Provision of Temperary Vehicular Case as Meillensunce Acues D  VOILD: Provision of Temperary Vehicular Case as Meillensunce Acues D  VOILD: Provision of Temperary Vehicular Case as Meillensunce Acues D  VOILD: Moderation of Temperary Vehicular Case as Mediterial on Falling  VOILD: Medic Cook Directive Measures of Approximate Ch.230  VOILD: Medic Cook Directive Measures of Approximate Ch.2300  VOILD: Medic Cook Directive Measures of Approximate Ch.2300  VOILD: Medic Cook Directive Measures of Approximate Ch.2300  VOILD: Medic Cook Directive Ch.2300  VOILD: Medic Ch.2300  VOIL		16,222009	12/3/2000 12/8/2000		(1)		
## Set of the Provision of Fandracking	VO 110 - Modebasions of Footbridge TBG3 in Upper Tail Po River 346 47 31 122009 3 40 110 - Modebasions of Fallon of Radio in Provision of Charlon Link Fallon of Radio in Landmillion Externing P 44 47 20029 40 121 - Make Good the Damaged Bridge Deck and Re-provision of Fandmillion Externing P 13 47 129 2009 40 121 - Make Good the Damaged Bridge Deck and Re-provision of Fandmillion Externing P 13 47 129 2009 814 8150 8151, 3150, 8151, 3		8-7/2009	147,2309			•	
Table 2	9 VO 111 - Provision of Corpor Unit Ferros and Modification of Rating VIO 112 - Make Good Properties of Float Preventies Measures & Agravatines Ch. 230 10 d. 1937/2029 VIO 121 - Make Good Be Danieged Bitdge Deck and Re-provision of Fancial for Faturing P 14 and 1937/2029 VIO 121 - Make Good Be Danieged Bitdge Deck and Re-provision of Fauturing P 14 and 1937/2029 VIO 121 - Make Good Bitdge Deck and Re-provision of Fauturing P 14 and 1937/2029 Responsibility of Responsibility o	31/12/2010	31 MZ/2009	31/222010		Section of the control of		
10   10   10   10   10   10   10   10	VIO.113 - Funder Enhancement on the Flood Interience Medaluda & Rabikasan Chicago 10 or 3 - 3 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /		47/2006	18/7/2009				
14 dr   24/3/2006   24/3/2009   24/3/200	Thee Nilling		12/9/2028	26/8/2009		. 100		75
1 dr. 244/2006   244/32009	1 d7; 24,43,2009 2     24,92,2109 2     25,22		24/3/2009	6/4/2009		 •		
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					5		İ		100	, , , , , , , , , , , , , , , , , , ,		1
Project: Revised M. Prog (Rev.08) Date Dele, Aug 2009 Consultand: AECOM	Task Teak Prograss Critical Taek		Orbital Task Progress Mirestore Summary			Rolled Up Crack Rolled Up Cracel Ta Rolled Lp Milestone	ä		Roked Up Progress 2 Soft External Taaks			1
Chlu Hing Construction & Transportation Co., Ltd	enscontation Co.,					Page 28		i		İ		

Appendix J:	Baseline Vibration	Monitoring Results	s provided by the Con	tractor



# 昭興建築運輸有限公司

## Chiu Hing Construction & Transportation Co. Ltd.

Our Ref: DC0706/M1.2/CL/3187

20 January 2010

AECOM Asia Co. Ltd. 8/F., Grand Central Plaza, 138 Shatin Rural Committee Road, Shatin, N. T., Hong Kong.

Attn.: Mr. K.Y. Chan (SRE)

Dear Sir,

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River

Upper Tai Po River - Baseline Vibration monitoring at Fan Sin Temple and Wun Yiu

We attach the baseline vibration monitoring at Fan Sin Temple and Wun Yiu, Tai Po River as per the EM&A manual for your information.

Thank you for your kind attention.

Yours faithfully,

For and on behalf of

Chiu Hing Construction & Transportation Co. Ltd.

Daniel Tai Site Agent

Encl.

c.c. AECOM - Attn.: Mr. Robert Chan





Certificate No.: CC 807



#### **Event Report**

Histogram Start Time Number of Intervals Range

14:16:03 December 7, 2009 Histogram Finish Time 14:29:36 December 7, 2009 162 at 5 seconds Geo: 254 mm/s

Battery Level Calibration File Name

Serial Number BE10425 V 8.01-8.0 MiniMate Plus

6.1 Volts

April 16, 2008 by EPC- Eddie Wan

1024sps

L425D0G2.AR0

Notes

Location:

Sample Rate

Job Number:

LB06 (Lam Tsuen River)

Client: User Name:

General:

DC/2007/06

**Post Event Notes** 

Microphone

Linear Weighting

PSPL

<0.500 pa.(L) on December 7, 2009 at 14:16:08

ZC Freq

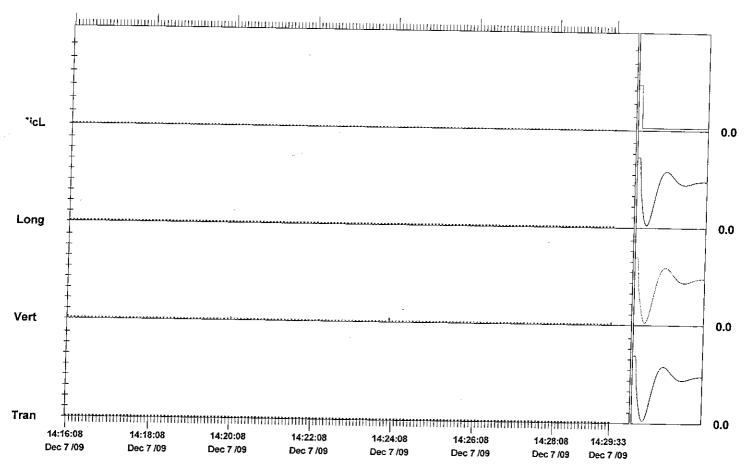
N/A

Channel Test Check (Freq = 0.0 Hz Amp = 0 mv)

	Tran	Vert	Long	
γV	0.127	0.381	0.127	mm/s
∠C Freq	>100	73	>100	Hz
Date	Dec 7 /09	Dec 7 /09	Dec 7 /09	
Time	14:16:08	14:24:03	14:16:08	
Sensorcheck	Passed	Passed	Passed	
Frequency	7.4	7.5	7.7	Hz
Overswing Ratio	4.0	3.7	4.0	<del> </del>

Peak Vector Sum 0.402 mm/s on December 7, 2009 at 14:24:03

N/A: Not Applicable



Time Scale: 5 seconds /div Amplitude Scale: Geo: 1.000 mm/s/div Mic: 5.00 pa.(L)/div

Sensorcheck



#### **Event Report**

**Histogram Start Time** Number of Intervals Range Sample Rate

14:20:12 December 28, 2009 Histogram Finish Time 14:30:13 December 28, 2009 120 at 5 seconds

Geo: 254 mm/s 1024sps

Battery Level Calibration File Name

Serial Number BE10425 V 8.01-8.0 MiniMate Plus 6.0 Volts

April 16, 2008 by EPC- Eddie Wan L425D1IY.HO0

Notes

Job Number:

Location: Tsuen River)

Client:

User Name:

General: DC/2007/06

**Post Event Notes** 

Microphone

Linear Weighting

**PSPL** 

<0.500 pa.(L) on December 28, 2009 at 14:20:17

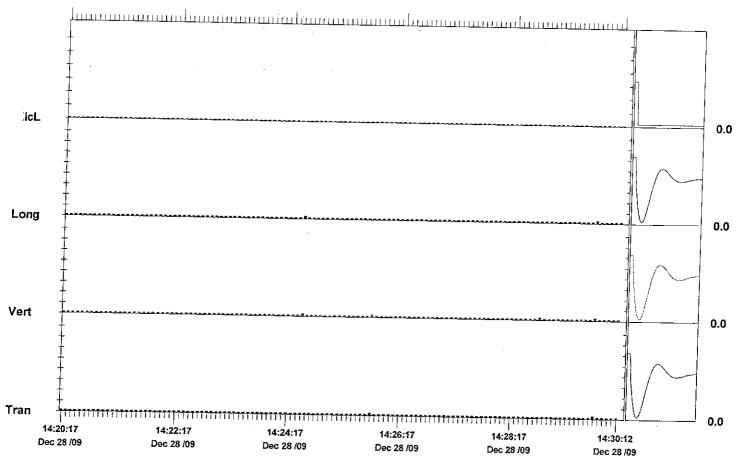
ZC Freq N/A

Channel Test Check (Freq = 0.0 Hz Amp = 0 mv)

	Tran	Vert	Long	
.⁴PV ZC Freq Date Time	0.254 >100 Dec 28 /09 14:25:47	0.254 >100 Dec 28 /09 14:24:32	0.254 >100 Dec 28 /09 14:24:32	mm/s Hz
Sensorcheck Frequency Overswing Ratio	Passed 7.2 4.1	Passed 7.4 3.7	Passed 7.5 4.2	Hz

Peak Vector Sum 0.381 mm/s on December 28, 2009 at 14:24:32

N/A: Not Applicable



Time Scale: 5 seconds /div Amplitude Scale: Geo: 1.000 mm/s/div Mic: 5.00 pa.(L)/div

Sensorcheck