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 May 2011

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Executive summary

This is the thirty-third monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1st May 2011 to 31st May 2011. Construction of retaining wall and provision of temporary protection measures for wet season were the major site activities being carried out in this reporting period.

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

The next ecological impact monitoring was arranged on 21st July 2011. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, are provided in table 6.2 and Appendix G respectively.

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

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

A non-compliance event regarding direct discharge of site run-off was recorded in this reporting month. Details of the events and recommendations given please refer to Section 6.2

A complaint incident regarding air quality concern was referred by DSD on 6th May 2011 and two complaint incidents regarding noise generation during restricted hours

have been referred by EPD and DSD on 3rd and 24th May 2011 respectively. ET has conducted investigations for the incidents and details of findings, recommendations and outcome please refer to Section 2.7 and Appendix J.

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

There was no reporting change for this month.

In accordance with the contractual requirements, no excavation works in river is allowed to be carried out during wet season. No major construction activity will be carried out in the upcoming month.

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

1.0 Introduction

This is the thirty-third 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 May 2011. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-223/2005/A) (EP), EM&A Manual and the Contractor's Environmental Management Plan (EMP).

2.0 Environmental status

2.1 Project area

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

2.2 Construction programme

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

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

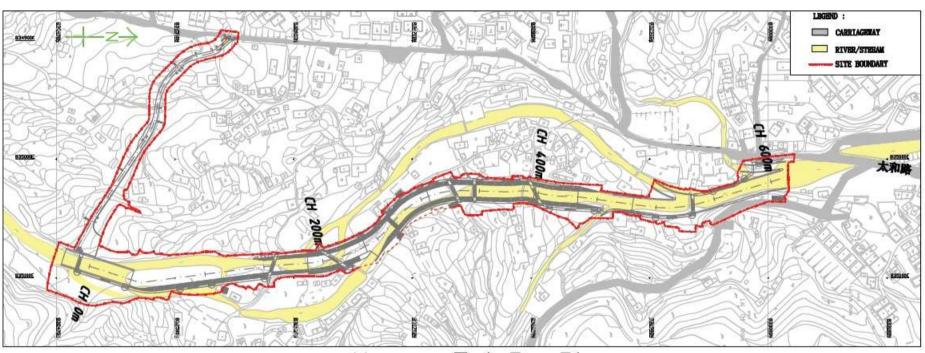
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2012.

2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

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

Fig 2.1 Layout of construction area



Upper Tal Po River

2.4 Construction activities for the reporting period

Major construction activity carried out by the contractor during this reporting period includes:

- 1.) construction of retaining wall
- 2.) Provision of temporary protection measures for wet season

2.5 Construction activities for the next reporting period

No major construction activity will be carried out.

2.6 Exceedance with the environmental performance limits

There was no exceedance 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 were three complaints recorded in this reporting month. A complaint incident regarding air quality concern has been referred by DSD on 6th May 2011. Two complaint incidents regarding excessive noise generation during restricted hours, i.e. Sunday, public holidays, and night time from 19:00 to 07:00, have been referred by EPD and DSD on 3rd and 25th May 2011 respectively.

ET has conducted investigations with representatives from Contractor and Resident Engineer on 6th and 24th May 2011 and recommendations were given to the contractor to minimize environmental impacts generated from project works. The complaint investigation reports with details of findings, recommendation and outcome were attached in Appendix J and were submitted to Environmental Protection Department (EPD) in accordance with the requirement stated in EM&A manual.

Totally, seventeen complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

No ecological survey was carried out in this reporting period. The next ecological impact monitoring was arranged on 21st July 2011.

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 6^{th} , 13^{th} , 20^{th} and 28^{th} May 2011. Measured $L_{eq~(30min)}$ results ranged from 50.3dB(A) to 74.4dB(A). And therefore, no exceedance was recorded on within the reporting period.

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

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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

Within this reporting month, site inspections were conducted on 4th, 11th, 18th, and 25th May 2011. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1.

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

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
09, 16, 23 & 30 Mar 11	Tree without identification at ch.300 was observed to be damaged by operation of backhoe	Observation	Contractor was advised to check the status of the tree and implement necessary protective measures for preserved trees before commencement of works	Still outstanding. To be followed during the next reporting period	Ongoing	
16 & 30 Mar 11; 6, 13, 20 & 27 Apr 11	Site surface was observed to be dry and dusty	Observation	Contractor was advised to provide regular water spraying to dusty static area for dust suppression	Follow up action was taken as reported by Contractor	11 May 2011	
Apr 11;	The sandbags barrier at temporary crossing at ch.600 were observed to be damaged	Observation	Contractor was advised to replace the sandbags as soon as possible.	Still outstanding. To be followed during the next reporting period	Ongoing	
20 & 27 Apr 11	Empty fuel containers and unused construction equipment were found abandoned along the river bank or in the river channel at approximate ch.400 to ch.450	Observation	Contractor was advised to maintain good housekeeping condition and to remove observed equipment to storage area	The disused construction equipments had been removed by Contractor.	4 May 2011	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
27 Apr 11	Muddy water was observed along the entire river due to site water seepage and surface runoff caused by excavation works at ch.50.	Observation	Contractor was reminded to maintain the site-water treatment facilities to stop improper discharge and deteriorate water quality.	As excavated work at ch.50 had completed, no muddy water was observed in the respective area.	4 May 2011	
4 May 11	A disused de-silting tank was observed at ch.0	Observation	Contractor was recommended to turn over the tank or to cover the opening of the tank to avoid storage of stagnant water		11 May 2011	
4 May 11	An empty fuel container were opened and abandoned at approximate ch.500	Observation	Contractor was recommended to cover the opening of the container and relocate the container for proper storage	The empty container was removed by Contractor	11 May 2011	
4 May 11	Muddy surface runoff was observed discharging directly into the river without any proper treatment at approximate ch.100	Non-compliance	Contractor was seriously recommended to rectify the mitigation measures for surface runoff and divert the muddy site water for treatment properly prior to discharging into the river			
11 May 11	Site water seepage from surface of haul access was observed at approximate ch.450	Observation	Contractor was advised to implement necessary corrective action by providing proper site drainage system	Follow up action was taken as reported by Contractor	18 May 11	
11 May 11	Oil spill was observed in the stagnant water at approximate ch.500	Observation	Contractor was advised to collect the contaminated earth surfaces and handled as chemical wastes for storage and disposal	Follow up action was taken as reported by Contractor	18 May 11	
11 May 11	A pack of wastewater treatment chemical was observed to be placed under the sedimentation tank at ch.400	Observation	Contractor was advised to place the chemical to a designated chemical storage area	Follow up action was taken as reported by Contractor	18 May 11	
18 May 11	Construction vehicles were observed in operation across the river channel at ch.500 and ch.600.	Observation	Contractor was reminded to implement sufficient mitigation measures to prevent possible contamination of river water.	No construction vehicles were observed to be operating or driven across the river at ch.500 and ch.600 of UTPR	25 May 11	
18 May 11	Muddy water was observed due to the generation of earthy materials from slope excavation works at ch.600.	Observation	Contractor was seriously advised to divert the site water for treatment before discharging and to provide effective measures to protect the river water from contamination by site water seepage and surface run-off.	Muddy water was not observed at ch.600 of UTPR as slope excavation works were finished.	25 May 11	
18 May 11	Cement water was observed at approximate ch.450.	Observation	Contractor was advised to implement mitigation measures that are necessary as soon as possible and was reminded that direct discharge of site water is an environmental offence.	ch.450 of UTPR, no cement water was observed in the	25 May 11	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
25 May 11	River banks at approximate ch.200 of UTPR were exposed without mitigation measure for prevention of surface run-off.	Observation	Contractor was recommended to provide tarpaulin cover or other mitigation measures as appropriate to protect the river banks from erosion and contaminating the river by surface run-off.	To be followed during the next reporting period.	Ongoing	
25 May 11	Construction materials and general wastes were observed at approximate ch.300	Observation	Contractor was recommend to remove it and perform a good housekeeping practices	To be followed during the next reporting period.	Ongoing	

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

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

6.2 Non-compliance

A non-compliance event was recorded in this reporting month with regards to the direct discharge of muddy surface run-off caused by soil erosion at approximate ch.100 of UTPR. The muddy water was directly discharged into the river without any sufficient and effective treatment system and contaminated river water at downstream was observed.

The above mal-practice was considered as non-compliance event according to the finding from the weekly inspection. No effective mitigation measures were implemented according to advices given by RE, IEC and ET.

Contractor was seriously reminded all surface run-off, muddy water and wastewater arisen from construction activities should be diverted to proper site water treatment system before discharge to fulfill statutory requirements. Quality of discharge should meet requirements stated in the applied discharged license. Contractor was also recommended to conduct assessment to the quantity and nature of silt water generated from site activities. Sedimentation tanks with sufficient capacity should be provided as to maintain appropriate flow rate of effluent discharge as well as the hydraulic detention time for sedimentation. Coagulation and flocculation process should be adopted to enhance efficiency of sedimentation should site water contain large amount of silt and fine grade suspended solids. Bared earth surface, such as riverbanks, earth bund, should be protected by geo-textile covering.

By the end of the reporting month there was still no proper follow up actions were observed. Contractor was urged to implement necessary mitigation measures and corrective actions as to avoid violation of environmental ordinance and/or regulations. Implementation status of follow up actions will be checked and reported from the weekly inspections in the next reporting month.

6.3 Recommendations

Contractor was recommended to implement necessary measures in mitigating water quality impact arisen from construction activities. Riverbanks and earth bunds should be covered with geo-textile coverings to prevent erosion.

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

6.4 Implementation status and effectiveness of the mitigation measures

Refer to the table 6.1 and Section 6.2, contractor was seriously recommended to implement necessary mitigation measures to address environmental problem arisen from site activities, especially issue of site water control and protection of bared earth surfaces.

7.0 Waste management status

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

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

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

Table 7.1 Summary of Waste generated and disposed in May 2011

Type of waste	Amount generated	Amount reused	Amount disposed
Inert waste	835 m ³	835m ³	0
Non-inert waste	15 kg	0	15 kg
Chemical waste	0	N/A	0

The cumulative waste flow table is shown in Appendix H.

8.0 Status of environmental licensing and permit

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

Table 8.1 Summary of Environmental Licensing and Permit Status

Description	License / Permit No.	Date of Issue	Date of Expiry	Remarks
Environmental	EP-223/2005	31 st Aug, 2005	N/A	Superseded
Permit				
Amended	EP-223/2005/A	18 th Nov, 2008	N/A	Issued
Environmental				
Permit				
Construction Noise	N/A	N/A	N/A	N/A
Permit				
Effluent Discharge	3678	14 th Mar, 2008	31 st Mar, 2013	Issued
License				
Registration as a	5213-724-C3251-03	19 th 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

According to the contractual requirements, no excavation works in rivers is allowed in wet season. No major construction activity will be carried out in the upcoming month.

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

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

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

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

10.0 Conclusion

Construction of retaining wall and provision of temporary protective measure for wet season were the major site activity carried out by the Contractor in this reporting period.

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

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

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

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

A non-compliance event regarding direct discharge of muddy surface run-off has been recorded in this reporting month. Contractor was urged to implement necessary mitigation measures and corrective actions as soon as possible.

Three environmental complaints regarding construction noise generation during restricted hours and dust concerns were recorded within this reporting month. ET has conducted site investigations and the reports were submitted to EPD for their information and consideration. Contractor was also reminded to pay serious attention to prevent causing environmental concerns in the future by implementing good site practices. 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 eco	logy

Event and action plan for ecology

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

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

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

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

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

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Appendix B: Action and limit level for const	truction 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

^{*}Limit level set in accordance with Particular Specification Section 26

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

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

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

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

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

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

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Appendix D: Noise monitoring results, graphical	l plots and loca	ition plan

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Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	71.6	73.0	55.9	06-May-11	8:50-9:20	Backfilling / Boulder movement	Traffic noise and Public noise	Sunny	Façade
UTP 2	61.6	64.5	55.2	06-May-11	15:05-15:35	Backfilling / Boulder movement	Traffic noise	Sunny	Façade
UTP 3	73.8	75.8	63.2	06-May-11	11:03-11:33	Backfilling / Boulder movement	Background noise	Sunny	Façade
UTP 4	74.4	77.8	64.7	06-May-11	9:23-9:53	Boulder movement / Unloading of concrete block	Background noise	Sunny	Façade
UTP 5	65.1	66.8	52.6	06-May-11	16:22-16:52	Operation of Backhoe	Public noise	Sunny	Façade
UTP 6	65.5	68.9	57.0	06-May-11	9:55-10:25	Backfilling	Public noise	Sunny	Façade
UTP 7	64.1	66.8	56.0	06-May-11	10:28-10:58	Backfilling	Rooftop construction in neighbourhood	Sunny	Façade
UTP 8	57.8	58.0	56.0	06-May-11	13:27-13:57	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	Sunny	Façade
UTP 9	54.0	56.0	49.6	06-May-11	13:57-14:27	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	Sunny	Façade
UTP 10	53.2	55.3	48.2	06-May-11	8:08-8:38	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	Sunny	Façade
UTP 11	50.3	51.9	44.0	06-May-11	13:02-13:32	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	Sunny	*Free field

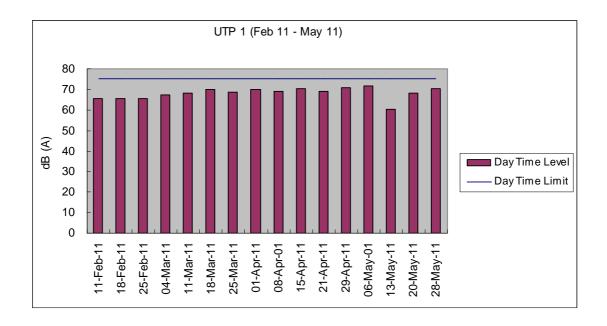
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	60.4	69.2	68.3	13-May-11	16:32-17:02	Sediment removal	Traffic noise & public noise	Overcast	Façade
UTP 2	55.3	57.3	49.1	13-May-11	15:50-16:20	Sediment removal	Traffic noise	Overcast	Façade
UTP 3	65.1	66.8	60.1	13-May-11	14:00-14:30	Boulder movement	Background noise	Overcast	Façade
UTP 4	66.8	69.4	56.2	13-May-11	12:57-13:27	Sediment removal	Background noise	Overcast	Façade
UTP 5	71.5	74.5	71.5	13-May-11	13:28-13:58	Sediment removal / Boulder movement	Background noise	Overcast	Façade
UTP 6	55.6	58.8	46.4	13-May-11	11:36-12:06	Operation of Backhoe	Public noise	Overcast	Façade
UTP 7	63.8	66.6	52.6	13-May-11	14:36-15:06	Boulder movement / Sediment removal	Repair of house enterior in neighbourhood	Overcast	Façade
UTP 8	61.0	61.8	60.0	13-May-11	15:07-15:37	Boulder movement	Background noise	Overcast	Façade
UTP 9	67.4	69.7	60.1	13-May-11	10:31-11:01	Operation of Backhoe	Raining noise & background noise	Overcast	Façade
UTP 10	53.4	55.1	50.6	13-May-11	8:57-9:27	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	Overcast	Façade
UTP 11	53.2	51.3	50.7	13-May-11	9:29-9:59	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise	Overcast	*Free field

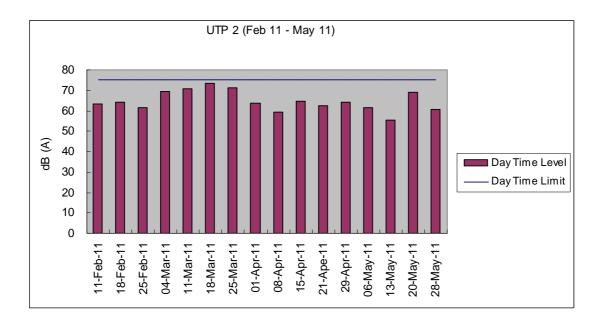
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	68.2	70.8	57.1	20-May-11	09:00-09:30	Operation of Backhoe / Drilling	Public noise and Traffic noise	Sunny	Façade
UTP 2	68.8	70.3	55.6	20-May-11	15:23-15:53	Trees transplanting	Traffic noise	Sunny	Façade
UTP 3	68.2	71.3	57.8	20-May-11	09:40-10:10	Operation of Backhoe / Drilling	Traffic noise	Sunny	Façade
UTP 4	57.6	60.0	51.5	20-May-11	10:15-10:45	Operation of Backhoe	Background noise	Sunny	Façade
UTP 5	57.0	59.4	51.5	20-May-11	10:46-11:06	Operation of Backhoe	Background noise	Sunny	Façade
UTP 6	50.5	51.9	48.3	20-May-11	11:08-11:38	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	Sunny	Façade
UTP 7	55.1	57.9	48.0	20-May-11	11:38-12:08	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	Public noise	Sunny	Façade
UTP 8	54.7	56.0	51.5	20-May-11	14:15-14:45	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	Sunny	Façade
UTP 9	54.2	55.2	48.0	20-May-11	10:17-10:47	Boulder breaking	Background noise	Sunny	Façade
UTP 10	58.2	29.1	41.7	20-May-11	13:03-13:33	Operation of Backhoe	Background noise	Sunny	Façade
UTP 11	51.8	54.7	45.9	20-May-11	13:35-14:05	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise	Sunny	*Free field

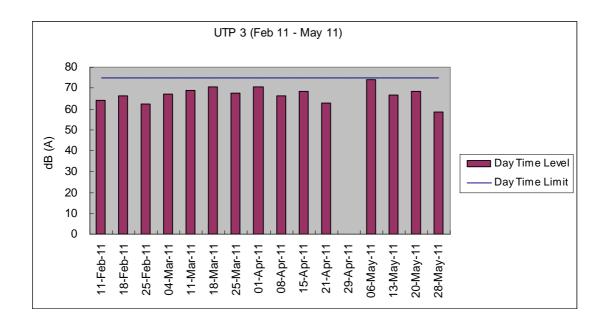
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	70.2	73.8	57.5	28-May-11	9:44-10:14	Operation of Backhoe	Traffic noise & public noise	Sunny	Façade
UTP 2	60.8	64.5	18.6	28-May-11	16:30-17:00	Operation of Backhoe	Traffic noise & public noise	Sunny	Façade
UTP 3	58.5	59.2	53.0	28-May-11	09:46-10:16	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	Public noise	Sunny	Façade
UTP 4	55.7	57.9	50.2	28-May-11	10:48-11:18	Concrete paving	Public noise	Sunny	Façade
UTP 5	56.4	58.2	50.0	28-May-11	13:51-14:21	Concrete paving	Public noise	Sunny	Façade
UTP 6	53.5	54.6	49.2	28-May-11	11:19-11:49	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	Public noise	Sunny	Façade
UTP 7	57.1	59.3	53.4	28-May-11	14:22-14:52	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	Public noise	Sunny	Façade
UTP 8	54.6	57.4	51.5	28-May-11	11:50-12:20	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	Public noise	Sunny	Façade
UTP 9	52.9	54.7	50.7	28-May-11	9:06-9:36	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	Public noise	Sunny	Façade
UTP 10	51.2	52.9	47.8	28-May-11	15:07-15:37	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	Background noise	Sunny	Façade
UTP 11	53.3	55.1	51.0	28-May-11	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	Background noise	Sunny	*Free field

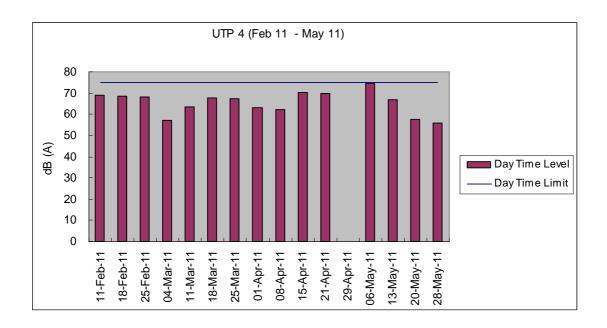
Graphical plot for noise measurements

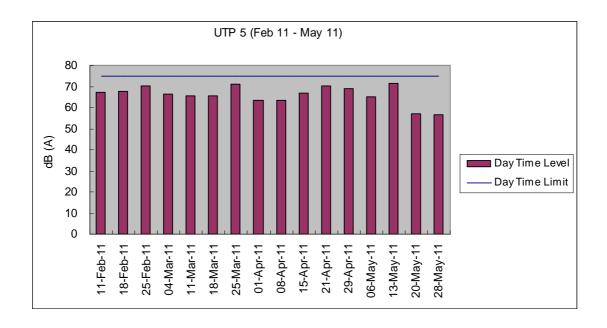
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from February 2011 to May 2011.

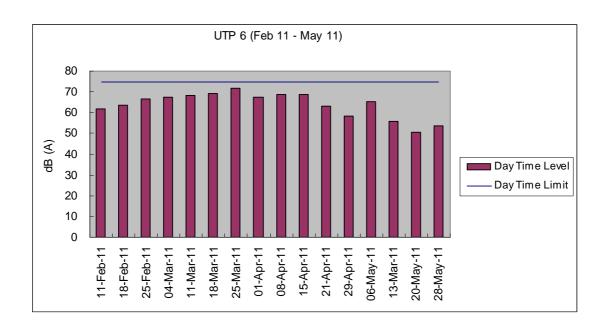


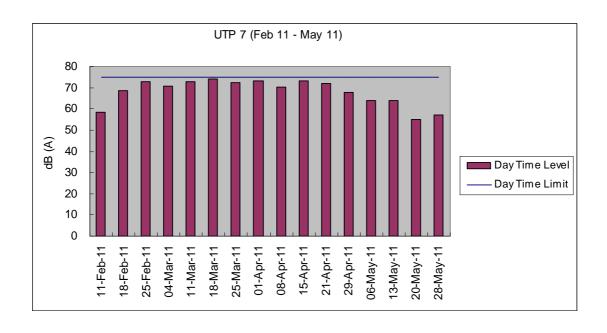


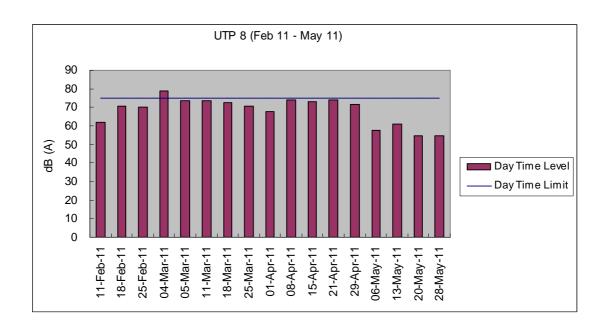


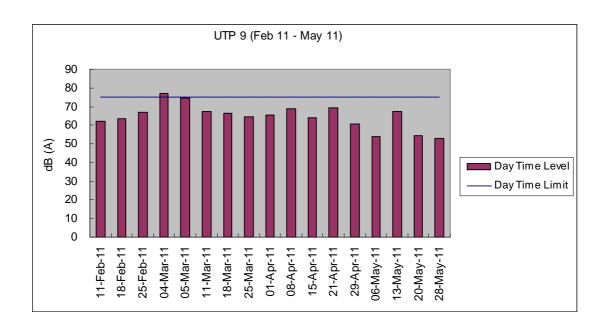


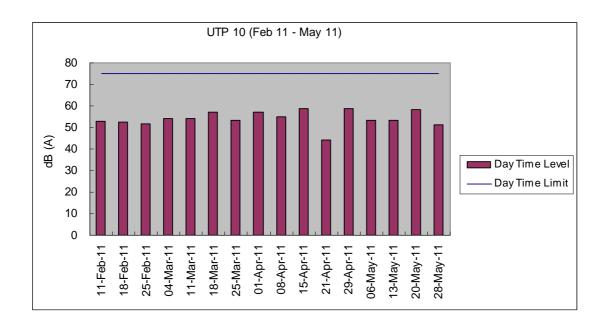


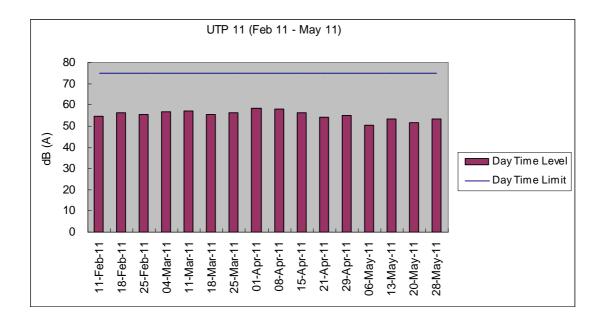


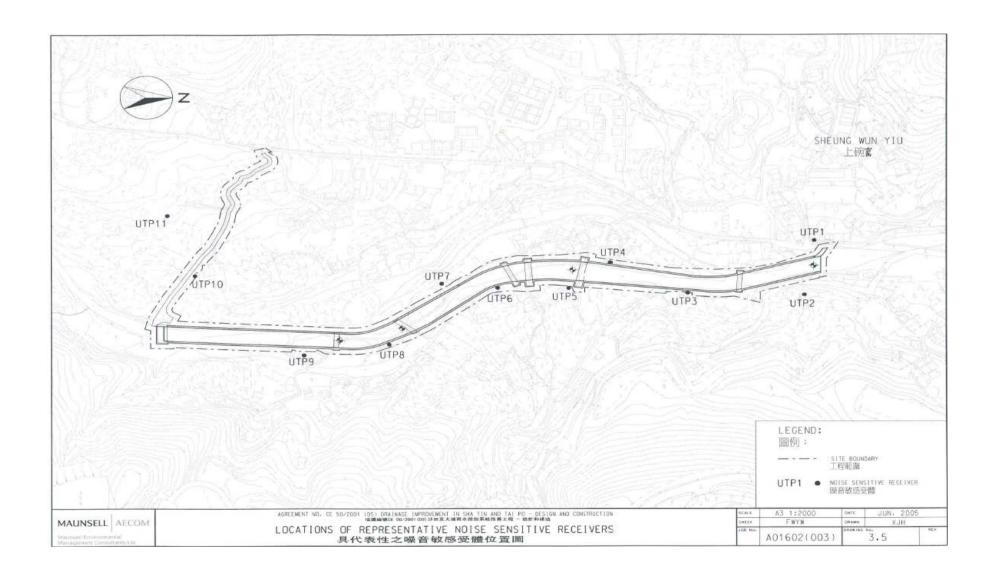












niu Hing Construction & Transportation Co., Ltd	DC/2007/06 River improvement works in Upper Tai Po River Thirty-third Monthly Report
Appendix E: Monitoring schedule for the pr	resent and next reporting period

Chiu Hing Construction & Transportation Co., Ltd

Master Schedule of EM&A works in May 2011

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

Master Schedule of EM&A works in June 2011

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

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	May 2011	
Air/Dust	2	1	3
Noise	3	2	5
Water	9	0	9
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	14	3	17

Chiu Hing Construction & Transporta	tion Co., Ltd		River	improvement	Works in Upper Ta Thirty-third Mont	OC/2007/06 i Po Rive hly Repor
						_
Appendix G: In mitigation m		status (of envi	ronmenta	l protection	and

Implementation status of environmental protection and mitigation

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

Provide silt trap and oil interceptor to remove the oil, lubricants, grease, silt, grit and debris from the wastewater before pumped to the public storm water drainage system Provide site toilet facilities Reuse excavated material as far as possible Recycle scrap metals or abandoned equipment Adopt a trip ticket system for the disposal of C&D materials All general refuse should be segregated and stored in enclosed bins or compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities and equipments immediately Provide site toilet facilities Implemented Not required Not required Not applicable at this Stage Not applicable at this Not required Not applicable at this stage	1		ı	1
Waste Management Recycle scrap metals or abandoned equipment Adopt a trip ticket system for the disposal of C&D materials All general refuse should be segregated and stored in enclosed bins or compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods Implemented Not required Not required Not applicable at this stage		Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Non-compliance	Ongoing
Provide site toilet facilities Reuse excavated material as far as possible Recycle scrap metals or abandoned equipment Adopt a trip ticket system for the disposal of C&D materials All general refuse should be segregated and stored in enclosed bins or compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods Implemented Not required Not applicable at this stage Not applicable at this stage Not Applicable at this stage		silt, grit and debris from the wastewater before pumped to the public	identified	
Waste Management Recycle scrap metals or abandoned equipment Adopt a trip ticket system for the disposal of C&D materials All general refuse should be segregated and stored in enclosed bins or compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods Implemented Not required Not applicable at this Not required stage Not Applicable at this Not required stage		storm water drainage system		
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 compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		Provide site toilet facilities	Implemented	Not required
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 compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods				
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 compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods				
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 compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize Not applicable at this vibration impacts to the two identified Declared monuments stage Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods	Waste	Reuse excavated material as far as possible	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 compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments stage Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods	Management			
All general refuse should be segregated and stored in enclosed bins or compaction units Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		Recycle scrap metals or abandoned equipment	Implemented	Not required
Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods Not applicable at this Not required Not Applicable at this stage		Adopt a trip ticket system for the disposal of C&D materials	Implemented	Not required
Vibration Percussive piling is to be replaced by bore-hole piling to minimize vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		All general refuse should be segregated and stored in enclosed bins or	Implemented	Not required
vibration impacts to the two identified Declared monuments Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		compaction units		
Carrying out of vibration monitoring to ensure that vibration associated with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods	Vibration	Percussive piling is to be replaced by bore-hole piling to minimize	Not applicable at this	Not required
with the construction phase do not exceed the threshold limit otherwise 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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		vibration impacts to the two identified Declared monuments	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 Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		Carrying out of vibration monitoring to ensure that vibration associated	Not applicable at this	Not required
have to be slow down or rescheduled to reduce the impacts Close monitoring and measurement on the cracks of the external wall of Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		with the construction phase do not exceed the threshold limit otherwise	stage	
Close monitoring and measurement on the cracks of the external wall of Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		contractor have to review the work method and construction activities		
Fan Sin Temple during construction works will be carried out. Any changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		have to be slow down or rescheduled to reduce the impacts		
changes on the cracks will be recorded for the contractor to slow down the construction activities accordingly; and to review the work methods		Close monitoring and measurement on the cracks of the external wall of	Not Applicable at this	Not required
the construction activities accordingly; and to review the work methods		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		
and equipments immediately		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, and		required
	would be limited to sections 50-100m long at any one		
	time.		
	Flows to the area downstream shall be maintained at	Implemented	Not
	all times during the construction phase		required
	Capture survey shall be conducted within the Tai Po	Capture surveys had been	Not
	River before commencement of works. The captured	conducted at the beginning of the	required
	target species shall be relocated to areas of the	Contract, during the wet season	
	watercourse upstream of the watercourse upstream of the	July/August 2008 and 4th November	
	Tai Po River	2008	
	Temporary noise barriers should be constructed to	Implemented	Not
	control noise impacts to habitats and associated wildlife		required
	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 channel		required
	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 maintenance		required
	such as de-silting.		

Appendix H: Cumulative waste flow table

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

Total	4918.9m ³	44882m ³	36.9m ³	2.389 tonnes	0	2.389 tonnes	20kg	20kg
May 2011	835 m ³	835 m ³	0	0.015 tonnes	0	0.015 tonnes	0	0
April 2011	467m ³	467m ³	0	0.050 tonnes	0	0.050 tonnes	0	0
March 2011	927m ³	927m ³	0	0.047 tonnes	0	0.047 tonnes	0	0
February 2011	581m ³	581m ³	0	0.045 tonnes	0	0.045 tonnes	0	0
January 2011	117m ³	117m ³	0	0.040 tonnes	0030	0.040 tonnes	0	0
Year 2010	1955m ³	1955m ³	0	0.192 tonnes	0	0.192 tonnes	0	0
Year 2008 to 2009	36.9m ³	0	36.9m ³	2.000 tonnes	0	2.000 tonnes	20kg	20kg
	Amount generated	Amount reused	Amount disposed	Amount generated	Amount reused	Amount disposed	Amount generated	Amount disposed*
Type of waste		Inert Waste			Non-Inert Waste)	Chemica	al Waste

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

Appendix I: Construction programme (Rev. No. 15)

Drainage Services Department
Contract No. DC/2007/06
Sin Hanner Lam Tenon Bivor Sha Shan River

Revised Ma	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1114	1113	1112	1111	1109	1108	1107	38	1105	1103	1102	1101	1100	1099	1098	1090	1095	1094	1093	1092	1091	1089	1088	1087	1086	1009	1083	1082	1081	1080	8/01	1077	1076	1075	1074	1073	1072	ID (II
Revised Master Prog Rev. 15	Drainage &	Backfilling	Laying	Excaval	Retaining W	Backfilling	Gabion	Excaval	Gabion Wal	Formwo	Maintainenc	Backfilling	Gabion Wall	Excavation	Gabion Wall (Ch	Demolition of	Demolition of In		Temp Pedes	Temp Utility and		Construction	Drainage & Foot	Formwork a	Maintainence St.	Gabion Wall	Excavation a	Gabion Wall (C)	Construction	Drainage & Fooi	Laying Cond	Excavation a	Backfilling	Laying Conc	Excavation a	Retaining Wall of	Gabion Wal	Excavation a	Gabion Wall (Cl	Ch 230-350	Wet Season of 2012	Wet Season of 2011	Wet Season of 2010	Programme of Upper Tai Po River	Concrete	Re-BAR	Formwork	Excavation	Temp. Haul	Variation Order No. 178	Reinstatement of riv	Incred! Const	任務名稱
REPRESENTED MEDI	Drainage & Footpath (Ch 200-307 LHS)	ing	Laying Concrete block and gabion units	Excavation and Formation	Retaining Wall (Ch 275-315 LHS) TR1 (replaced by AD1)	mg	Gabion Wall Construction (Ch 257-270 LHS)	Excavation and Formation	Gabion Wall (Ch 257-270 LHS) TG4	Formwork and concreting	Maintainence Staircase (Ch 242 LHS)		Gabion Wall Construction (Ch 230-257 LHS)	Excavation and Formation	Gabion Wall (Ch 230-257 LHS) TG2/TG2A/TG2B	Demolition of Interim Footbridge	Demolition of Interim Footbridge at Ch230		Temp Pedestrian diversion	Temp Utility and Pedestrian Diversion at Ch230 Temp Utility diversion near Ch230		Construction of drainage & footpath	Drainage & Footpath (Ch 307-330 LHS)	Formwork and concreting	12H 1 \$15 f (%)	Gabion Wall Construction (Ch 315-330 LHS)	Excavation and Formation	Gabion Wall (Ch 315-330 LHS) TG2A	Construction of drainage & footpath	Drainage & Footpath (CH 275-320 RHS)	Laying Concrete block and gabion units (Ch520-550 KHS)	Excavation and Formation		Laying Concrete block and gabion units (Ch275-320 RHS)	Excavation and Formation	Retaining Wall (Ch 275-330 RHS) TR1 (replaced by AD1)	Gabion Wall Construction (Ch 235-275 LHS)	Excavation and Formation	Gabion Wall (Ch 230-275 RHS) TGI/TGIA	O VIIIager's Naii	William Doll			Po River					Temp. Haul Rd/Divesion	No. 178	Reinstatement of river bed	Engine	
里程碑					ced by ADI)		S)																								350 KHS)	220 DUC)		320 RHS)	of many	by ADI)																	
•	60 days	7 days	18 days	21 days	46 days	3 days	3 days	5 days	11 days	4 days	4 days	3 days	7 days	14 days	1615 days?	7 days	7 days	100	119 days	39 days		14 days	14 days	4 days	2 days	7 days	7 days	16 days	21 days	21 days	4 days	7 days	6 days	12 days	12 days	220 days?	14 days	20 days	40 days	1615 days?	184 days	183 days	184 days	1747 days?	2 days	/ days	7 days	14 days	7 days	37 days	3 days	1 A Anne	Duration
产期制件 新	19/12/2011	27/2/2012	6/2/2012	9/1/2012	9/1/2012	5/1/2012	31/12/2011	23/12/2011	23/12/2011	19/12/2011	19/12/2011	15/12/2011	7/12/2011	21/11/2011	28/9/2007	12/11/2011	12/11/2011		1/1/2011	29/8/2011	200000000000000000000000000000000000000	27/2/2012	27/2/2012	6/2/2012	27/2/2012	18/2/2012	10/2/2012	10/2/2012	3/10/2011	3/10/2011	25/11/2011	12/11/2011	31/3/2011	17/3/2011	3/3/2011	1102/6/6	17/2/2011	28/1/2011	28/1/2011	28/9/2007	19/3/2012	1/4/2011	1/4/2010	28/9/2007	4/8/2011	27/7/2011	19/7/2011	2/7/2011	23/6/2011	23/6/2011	20/6/2011	3/6/2011	Start
(0.545.555.555.55)	3/3/2012	5/3/2012	25/2/2012	4/2/2012	5/3/2012	7/1/2012	4/1/2012	30/12/2011	7/1/2012	22/12/2011	22/12/2011	17/12/2011	14/12/2011	11000119	24/5/2012	1102/11/61	19/11/2011		24/3/2012	15/10/2012		13/3/2012	13/3/2012	9/2/2012	28/2/2012	25/2/2012	17/2/2012	28/2/2012	27/10/2011	27/10/2011	24/11/2011	19/11/2011	7/4/2011	30/3/2011	16/3/2011	25/11/2011	2/3/2011	16/2/2011	9/3/2011	24/5/2012	31/10/2012	11/11/2011	1/10/2010	31/10/2012	2/8/2011	3/8/2011	26/7/2011	18/7/2011	30/6/2011	5/8/2011	22/6/2011	110003001	Finish
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15 任務 (GGGGGGGGGGGG 里程碑 遊煙	Supping off formwork	Concreting of column	Surpping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	Construction of Abutment A (LHS)	Footbridge TB05 (ch 350)	4	Backfilling	Gabion Wall Construction (Ch 230-257 LHS)	Excavation and Formation	Consturction of Gabion Wall at TB-A	T&C	Public lighting Installation (CE2316)	Public lighting Installation (CF2318)	Lighting at rootsings 1 BUA	Demolition works	Demolition of Bridge TB-A	Natural Househorn	Railing installation	Stripping off formwork Railing installation	Concreting Suripping off formwork Railing installation	Construction of decking Formwork and rebar fating for decking Concreting Stripping of formwork Railing installation	Stripping of formwork Construction of decking Formwork and rebar fixing for decking Concreting Stripping of formwork Rating installation	Concreining of bases slab Stripping off formwork Construction of decking Formwork and rebar fixing for 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任務 经过程的过程	Construction of decking	Supping of Tormwork	Concreting of column	Kepar lixing and shuttering formwork for column	Supplied of formwork	String of oase stee	Concreting of base clah	Economic and rehar fiving for hace	Excavation and Blinding	Construction of Abutment A (LHS)	Footbridge TB02 (Ch 150)		Stripping off formwork	Concreting of base slab	Formwork and rebar fixing for base slab	Excavation and Blinding	350)	Placing Grade 500 foe Stone	River Bed formation (Ch 330-350)	Construction of digitalic or toolbutt	Drainage & Footpath (Ch 330-340 RHS)	lling	Gabion Wall Construction (Ch 330-345 RHS)	Excavation and Formation	Construction of dramage of toothern	Drainage & Footpath (Ch 335-345 LHS)	lling	Gabion Wall Construction (Ch 335-345 LHS)	Excavation and Formation	NCA 326 3V6 I BO ALCOLO V		Backfilling	Excavation and Formation	Consturction of Gabion Wall at TB-B	T&C	Public lighting Installation (CE2314)	Construction of Drawpits / Ductings	Lighting at Footbridge TB05	Demolition works	Demolition of Bridge TB-B	Stripping off formwork Railing installation	Concreting	Formwork and rebar fixing for decking	Construction of decking	Concreting of column	Rebar fixing and shuttering formwork for column	Stripping off formwork	Formwork and repar lixing for base slab Concreting of base slab	Excavation and Blinding	Construction of Abutment B (RHS)			
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Derions Sear Fish St. Col. St. St.	Discost Seat Irans	任務 (2020年2020年2020年2020年2020年2020年2020年202	Construction of Drawpits / Ductings	Lighting at Footbridge TB03	Railing installation	Concreting	Formwork and rebar fixing for decking	Construction of Decking (TB03)	Stripping off formwork	Concreting	Rebar fixing and shuttering formulate for co	Concreting of base slab	Formwork and rebar fixing of base slab	Excavation and Blinding	Construction of Abutment B (RHS)	Ecoholdos TROS (Ch. 200)	Backfilling	Excavation and formation Construction of Cabion Wall (Ch. 160, 178 RHS)	Gabion Wall (Ch 160-178 RHS) TG4A	Gabion Wall Construction (Ch 150-160 RHS) Backfilling	Excavation and formation	Gabion Wall (Ch 150-160 RHS) TG4A	Construction of drainage & footpath	Drainage & Footpath (Ch 0-150 RHS)	Formwork and concreting	Maintainean Stringer (Ch. 130 pus)	Gabion Wall construction (Ch 100-150 RHS)	Excavation and formation	Drainage & Footpath Cashion Wal (Ch. 100-150 RHS) TG2	Drainage & Footpath (Ch 150-Ch230 LHS)	Formwork and concreting	Maintainana Stainana (Ch. 178 I HS)	Gabion Wall construction (Ch 178-230 LHS)	Gabion Wall (Ch 178-230 LHS) TGSA/TG2	Gabion Wall construction (Ch 150-178 LHS)	Excavation and formation	Gabion Wall (Ch 150: 178 I HS) TG3A	River Bed formation (Ch 50-150) Placing Grade 500 toe Stone		Removal of existing lighting (VA2642-A1)	Public lighting Installation (CE2308)	Construction of Drawpits / Ductings	Lighting at Footbridge TB02	Stripping off formwork	Concreting	Formwork and rebar fixing for docking			
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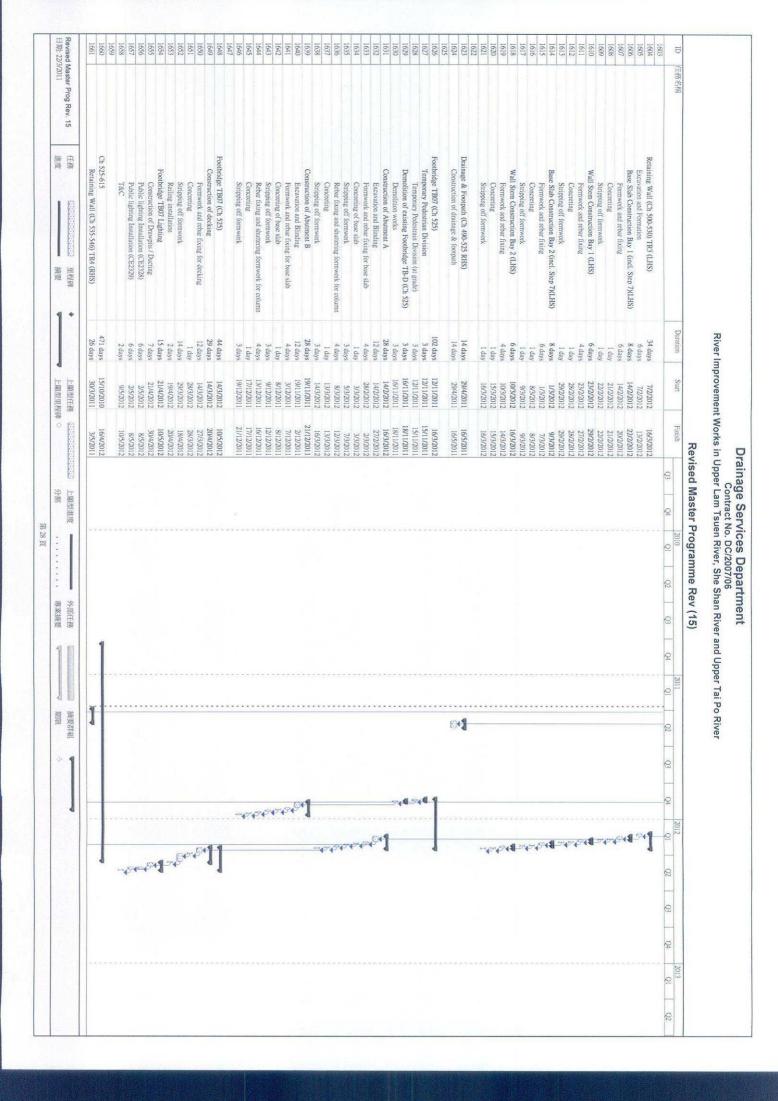
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任務 (2555255555555) 単程碑 ◆	Placing Grade 500 toe Stone	River Bed formation (Ch 350-400)	Backfilling	Laying concrete blocks and gabion blocks	Excavation and Foramtion	Retaining Wall (Ch 400-450 LHS) TR1 (AD)	Backfilling	Laying concrete blocks and gabion blocks	Excavation and Forantion	Retaining Wall (Ch 350-400 LHS) TR1 (AD)	Ch 350-450		Removal of existing lighting (VA1279-A1)	Removal of existing lighting (VA1278-A1)	T&C	Public lighting Installation (CE2302)	Public lighting Installation (CP2301)	Public lighting Installation (CF2300)	Construction of Decumin / Ductimes	Nating and sheet intitude	Parling and draw from	Road Kerb and formation	Vehicular Access D	Backfull the Ketaming Wall	Sinpping off Jornwork	Concreting	Formwork and repair liking	Construction of Wall Stem, Bay 1	Stripping off formwork	Concreting	Formwork and rebar fixing	Construction of Wall Stem, Bay 2	Stripping off formwork	Formwork and reour fixing	Construction of Base Slab, Bay 1	Stripping off formwork	Concreting	Formwork and rebar fixing	Construction of Resc Clab Ray 2	Retaining Wall (LHS)	Retaining Wall at Access D (Boulder Trap)	Stripping off formwork	Concreting	Formwork and rebar fixing	Construction of Wall Stem and Ton Slah	Concreting	Formwork and rebar fixing	Excavation and Blinding	Construction of Base Slab	Box Culvert TB03 (Ch 45)	Backfill	Stripping off formwork	Concreting	Stripping off formwork Rebar fixing and shuttering formwork for column			
	4 days	411 days	2 days	8 days	12 days	22 days	3 days	15 days	20 days	38 days	411 days		2 days	2 days	I day	3 days	3 days	3 days	2) days	102 days	50 days	80 days	Z// days	3 days	3 days	I day	4 days	11 days	3 days	1 day	4 days	8 days	3 days	4 days	8 days	3 days	1 day	4 days	8 days	41 days	41 days	5 days	I day	4 days	10 days	1 day	5 days	6 days	15 days	471 days	5 days	I day	1 day	I day		Duration	
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			1 day	Concreting	1728
		**	6 days	Formwork and rebar fixing	1727
			8 days	Base Slab Construction TR5A Bay 3 LHS	1726
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Appendix J: Complaint Investigation Reports and Log

Our ref. no.: DC0706-CL-110504(DSD)

By Fax and Mail 11th May 2011

To: Distribution List

Dear Sirs or Madams,

Contract No. DC/2007/06 Drainage Improvement works in Upper Tai Po River, Lam Tsuen River and She Shan River

Complaint Investigation Report and Log

Based on the complaint incident received from EPD with details of:

EPD complaint ref.:

EP3/N05/RN/00008234-11

Date received:

04/05/2011

Incident location:

Upper Tai Po River, nearby Ha Wun Yiu

Description:

Complaint against noise nuisance arisen from construction activities during

Easter holidays and Labour Day holidays.

Enclosed please find the complaint investigation reports and log sheets of the incident as for your record.

Yours faithfully,

ET leader

Patricia Chung

Environmental Pioneers and Solutions Limited

c.c. SRE/Maunsell (Mr. KY Chan)

RE/Maunsell (Mr. Adrian Ng)

IEC/ERM (Ms. Winnie Ko)

Chiu Hing Project Manager (Mr. Samson Lam)

Chiu Hing Site Agent (Mr. Daniel Tai)

Chiu Hing Environmental Officer (Mr. Pui-Shing Chan)

DS	D Project – River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River
	port for Complaint/ Concern ir Ref.: DC0706-CL-110504(DSD)
	D Case Ref. No.: EP3/N05/RN/00008234-11
She	eet: <u>1</u> of <u>2</u>
RE	CIPIENT
	me: Chiu Hing Construction & Transportation Co., Ltd, tails: Complaint was referred by DSD that a resident complained against noise nuisance arisen from road work renovation within project site on Easter holiday and Labour Day holiday along Upper Tai Po River (UTPR), nearby Ha Wun Yiu.
Re	ceived Date: 4th May 2011 Received Time: N/A
CC	DMPLAINANT / Concern
	me: N/A Tel: <u>N/A</u> dress: N/A
CC	OMPLAINT
□S Ev	Noise □Air quality/Dust □Water □Odour □Environment □Traffic/Pedestrian Safety □Others ent Date and Time: 22 nd -25 th April 2011, and 1 st -2 nd May 2011
	cation: A complaint was recorded for noise nuisance arisen from construction in the project site on Easter iday and Labour Day holiday at Upper Tai Po River, nearby Ha Wun Yiu.
IN	VESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES
1.	A complaint on 3 rd May 2011 was recorded regarding noise concern generated from construction activities within project site on Easter holiday and Labour Day holiday (i.e. $22^{nd}-25^{th}$ April 2011, and $1^{st}-2^{nd}$ May 2011) at UTPR. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE).
2.	As reported by Contractor, emergency flood relief works were carried out during the holidays of Easter and Labour Day due to the expected rainfall. Contractor had also notified EPD via the form of "Record of Emergency Works during Restricted Hours" (Appendix A) by fax on 22 nd April 2011 and 30 th April 2011 for carrying out the emergency works during the public holidays.
3.	ET reviewed the routine noise monitoring results recorded on 29^{th} April 2011 and no exceedance was found during measurement.
4.	As a follow up investigation, ET conducted a site visit on 6 th May 2011 with representative from Contractor to resolve the concerns. Routine noise monitoring was also scheduled on the same day.
5.	Findings from the investigation showed major noise source was generated from backfilling and sediment removal activities being carried out between approximate ch.350 and ch.500 of UTPR. It was also observed that some noise barriers along the UTPR, which were erected in the past, have been removed by Contractor. In addition, excavators were observed to be operating at the same time between approximate ch.350 and ch.500 (Fig.1)

- 6. During the course of backfilling and sediment removal activities, noise measurements were carried out at the nearest noise sensitive receivers (i.e.: UTP 3, 4, 5, 6) from the noise sources. No exceedance of limit level (i.e.: >75 dB) was recorded all four monitoring locations during site investigation on 6th May 2011.
- 7. To minimize noise generation from the concerned activities, Contractor was recommended to further enhance mitigation measures immediately, which should at least include:
 - Re-erecting noise barriers at locations where construction activities were undergoing
 - Well-scheduling noisy activities, by means such as rotation and time buffering, to minimize consecutive / excessive exposure of nearby sensitive receivers to high levels of construction noise
 - Avoiding the operation of construction equipments that has noise impact at the same time
 - Warping up the tips and hydraulic arms of excavators with sound insulation material to minimize noise generation.
- 8. Contractor was reminded to maintain proper practices and noise mitigation measures, such as administrative planning and noise barriers erection as mentioned in item 6, to minimize noise impact to the vicinity sensitive receivers. Other noise minimization features by means of insulation or screening should be regularly reviewed and maintained to ensure they are in good condition and functional.
- 9. ET has reminded the contractor to pay serious attention on preventing possible environmental impacts from arisen in the future.

Signature:

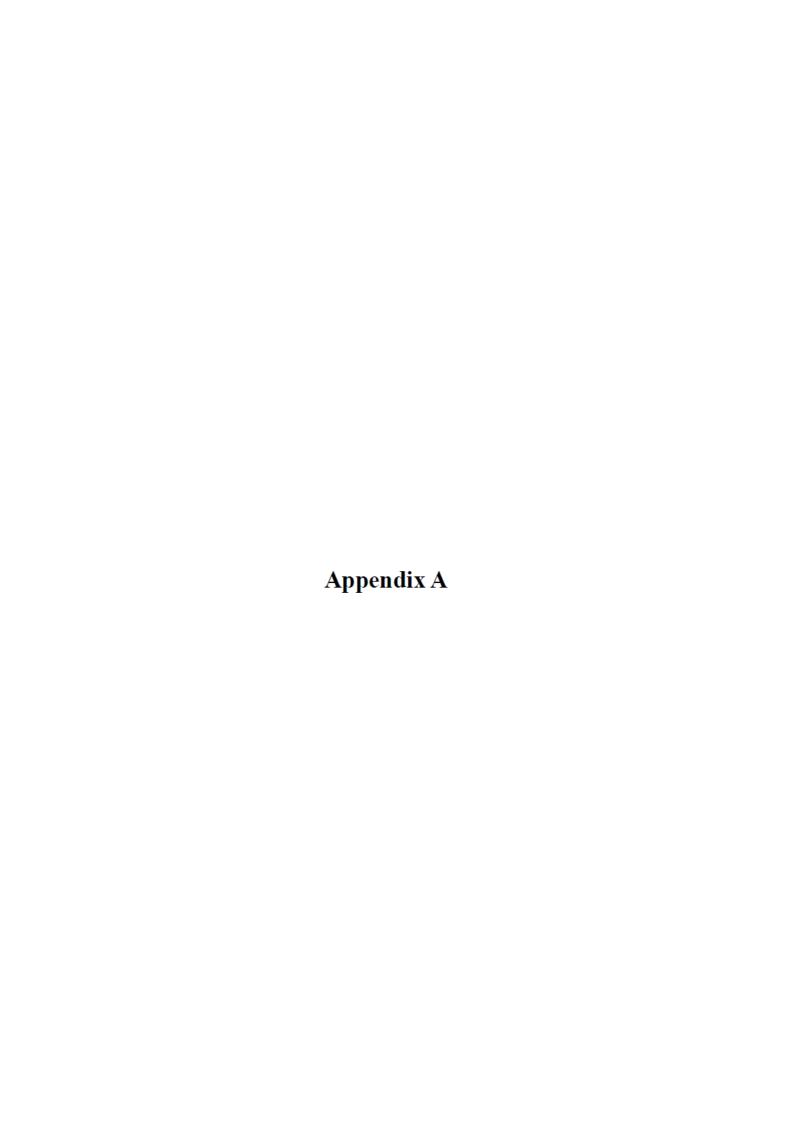
Patricia Chung Chi Ping, ET Leader

Date: 11-05-2011

Fig.1 – Excavators were operating at the same time







Record of Emergency Works During Restricted Hours

Director of Environmental Protection (Attn: S(RA)6 Fax: 2413 3358) 6/F., Chinachem Tsuen Wan Plaza, 455-457 Castle Peak Road, Tsuen Wan,

To:

AECOM (DC0706 Site Office)

3

Record of Emergency Work During Restricted Hours* For the Day/Month of 22-25 April 2011 (from 0800 - 2000)

24459139

Fax No.

From: Chiu Hing Construction & Transportation Co. Ltd.

(Name of Company/Utility/Gov't Dept)

Samson Lam (Project Manager)

Name/Post: Date:

22-25 April 2011 92311740

Tel. No.

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s hand-hald breaker need?	Noise barrier	provided. If	no, wny?														
Is hand-held	If Yes.	What Type?		No													(,
	Noise control measure	Implemented" Noise	partier provided? II no, gives reasons?	Temp Noise barrier													\
	-	List of PME used	and/or P.C.W carried out	10 Backhoe for earth removal Temp Noise barrier	I set of shotoreting machine	2 set of vibration pokers											
Date & Time		Completion of Work		25/4/2011	2000												-
Date		Start of	4018	22/4/2011	0080			•									
	Description	and Justification of	Emergency work	As heavy rain is	expected in Easter Holiday, Emeroency	Flood Proventive	Works shall be carried										
		Location	OI WOFK	DSD Contract No. DC2007/06	Lam Tsuen River, She Sha River and Tai expected in Easter Po River												
		Name of	Contractor	Chiu Hing	EOB no. Construction &	Transportation	Co. Ltd.										
		Police	ıeı.		EOB no.												
HvD	Emere.	Serial	No.(II applicable)		EO no.												

Example: Use of Sitenced equipment (I.e. hydraulic crusher, electric/hydraulic breaker, quiet miller, pavement ripper, saw & lift etc.) * Restricted hours: 7pm-7am and any time on general holiday, including Sunday

2) Prescribed Construction Work, if the construction site is within Designated Area.

Powered Mechanical Equipment
 Prescribed Construction Work, if the contraction of t

3) For example, electric/hydraulic hand-held breaker. (Please refer overleaf for examples of typical emergency construction works)

Name/Post: Samson Lam (Project Manager)

Record of Emergency Works During Restricted Hours

Director of Environmental Protecion (Attn. S(RA)6 Fax: 2413 3358)
6/F., Chinachem Tsuen Wan Plaza,
455-457 Castle Peak Road, Tsuen Wan,

To:

AECOM (DC0706 Site Office)

ပ္ပ

Record of Emergency Work During Restricted Hours* For the Day/Month of 1-2 May 2011 (from 0800 - 2000)

24459139

Fax No.

From: Chiu Hing Construction & Transportation Co. Ltd.

(Name of Company/Utility/Gov't Dept)

Samson Lam (Project Manager)

Namc/Post: Date:

1-2 May 2011 92311740

Tel. No.

	Νţ	יטל	UIU	UI			85	IIC)	/ 44	UI K.) LW	mir	7/C2	J. IUU	tu I.	IOM ?)
s hand-held breaker used?	Noise barrier	provided. If	no, Why?														
Is hand-held	If Yes,	What Type?		No													
	Noise control measure	Implemented" Noise	barrier provided? If no, gives reasons?	Temp Noise barrier													
		List of PME used	and/or PCW carried out	10 Backhoe for earth removal Tcmp Noise barrier	I set of shotcreting machine	2 set of vibration pokers											
Date & Time		Completion	of Work	2/5/2011	2000			:	-								
Date		Start of	Work	1/5/2011	0800												
	Description	and Justification of	Emergency Work	As heavy rain is	expected in Labour Holiday Emergency	Flood Proventive	Works shall be carried						•				
		Location	of Work	DSD Contract No. DC2007/06	Lam Tsuen River, She Sha River and Tai expected in Labour Po River									The section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section is a section in the section is a section in the section is a section in the section			
		Name of	Contractor	Chiu Hing	EOB no. Construction &	Transportation	Co. Ltd.										
		Police	ref.		EOB no.												
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* Restricted hours: 7pm-7am and any time on general holiday, including Sunday

Example: Use of Sitenced equipment (I.e. hydraulic crusher, electric/hydraulic breaker, quiet miller, pavement ripper, saw & lift etc.)

1) Powered Mechanical Equipment

2) Prescribed Construction Work, if the construction site is within Designated Area.

For example, electric/ hydraulic hand-held breaker.
 Please refer overleaf for examples of typical emergency construction works)

Name/Post: Samson Lam (Project Manager)

Signature:

COMPLAINT / CONCERN LOG

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File					
Investigation/Mitigation Action	A complaint on 3 rd May 2011 was recorded regarding noise concern generated from construction activities within project site on Easter holiday and Labour Day holiday (i.e. 22 nd –25 th April 2011, and 1 st –2 nd May 2011) at UTPR. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE).	As reported by Contractor, emergency flood relief works were carried out during the holidays of Easter and Labour Day due to the expected rainfall. Contractor had also notified EPD via the form of "Record of Emergency Works during Restricted Hours" (Appendix A) by fax on 22 nd April 2011 and 30 th April 2011 for carrying out the emergency works during the public holidays.	ET reviewed the routine noise monitoring results recorded on 29th April 2011 and no exceedance was found during measurement.	As a follow up investigation, ET conducted a site visit on 6 th May 2011 with representative from Contractor to resolve the concerns. Routine noise monitoring was also scheduled on the same day.	Findings from the investigation showed major noise source was generated from backfilling and sediment removal activities being carried out between
	ii ii	<i>c</i> i	.;	4.	5.
Details of Complaint	A complaint was recorded regarding noise nuisance arisen from road work renovation during public holidays in the project site at Upper Tai Po River (UTPR).				
Complainant/ Date of Contact	A Complaint was referred by DSD 4 th May 2011				
Event Date/Location	22 nd – 25 th April 2011, and 1 st – 2 nd May 2011 Project site at Upper Tai Po River, nearby Ha				
Log Ref	Our REF: DC0706-CL- 110504(DSD) EPD Case Ref.	EP3/N05/RN/ 00008234-11			

approximate ch.350 and ch.500 of UTPR. It was also observed that some noise barriers along the UTPR, which were erected in the past, have been removed by Contractor. In addition, excavators were observed to be operating at the same time between approximate ch.350 and ch.500 (Fig.1)	During the course of backfilling and sediment removal activities, noise measurements were carried out at the nearest noise sensitive receivers (i.e.: UTP 3, 4, 5, 6) from the noise sources. No exceedance of limit level (i.e.: >75 dB) was recorded all four monitoring locations during site investigation on 6 th May 2011.	To minimize noise generation from the concerned activities, Contractor was recommended to further enhance mitigation measures immediately, which should at least include: i. Re-erecting noise barriers at locations where construction activities were undergoing ii. Well-scheduling noisy activities, by means such as rotation and time buffering, to minimize consecutive / excessive exposure of nearby sensitive receivers to high levels of construction noise iii. Avoiding the operation of construction equipments that has noise impact at the same time
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iv. Warping up the tips and hydraulic arms of excavators with sound insulation material to minimize noise generation.	8. Contractor was reminded to maintain proper practices and noise mitigation measures, such as administrative planning and noise barriers erection as mentioned in item 6, to minimize noise impact to the vicinity sensitive receivers. Other noise minimization features by means of insulation or screening should be regularly reviewed and maintained to ensure they are in good condition and functional.	9. ET has reminded the contractor to pay serious attention on preventing possible environmental impacts from arisen in the future.	
(2)			
		3:	

Date: 11th May 2011

Filed by Environmental Team Leader:

Our ref. no.: DC0706-CL-110506(DSD)

By Fax and Mail 13th May 2011

To: Distribution List

Dear Sirs or Madams,

Contract No. DC/2007/06 Drainage Improvement works in Upper Tai Po River, Lam Tsuen River and She Shan River

Complaint Investigation Report and Log

Based on the complaint incident received from EPD with details of:

DSD ECRS request no.:

3270

Date received:

6th May 2011

Incident location:

Upper Tai Po River, nearby Sheung Wun Yiu

Description:

Complaint was referred by DSD regarding the repeated complaint on environmental nuisance arising from dust pollution to the public area at

Upper Tai Po River (UTPR), nearby Sheung Wun Yiu

Enclosed please find the complaint investigation report and log sheets of the incident as for your record.

Yours faithfully,
P.P. Lee Cheung Lee

Patricia Chung ET leader

Environmental Pioneers and Solutions Limited

c.c. SRE/Maunsell (Mr. KY Chan)

RE/Maunsell (Mr. Adrian Ng)

IEC/ERM (Ms. Winnie Ko)

Chiu Hing Project Manager (Mr. Samson Lam)

Chiu Hing Site Agent (Mr. Daniel Tai)

Chiu Hing Environmental Officer (Mr. Pui-Shing Chan)

DSD Project – River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River			
Report for Complaint/ Concern Our Ref.: DC0706-CL-110506(DSD)			
DSD Enquiry / Complaint Recording System (ECRS) Request No.: 3270			
Sheet: <u>1</u> of <u>2</u>			
RECIPIENT			
Name: Chiu Hing Construction & Transportation Co., Ltd,			
Details: Complaint was referred by DSD regarding the repeated complaint on environmental nuisance arising from			
dust pollution to the public area at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.			
Received Date: 6th May 2011 Received Time: N/A			
COMPLAINANT / Concern			
Name: N/A Tel: N/A			
Address: N/A			
COMPLAINT			
□Noise ☑Air quality/Dust □Water □Odour ☑Environment □Traffic/Pedestrian □Safety □Others			
Event Date and Time: 6 th May 2011 Location: Upper Tai Po River, nearby Sheung Wun Yiu			
INVESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES			
 A complaint on 6th May 2011 was recorded regarding the repeated complaint on environmental nuisance arising from dust pollution to the public area at UTPR, nearby Sheung Wun Yiu. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE). 			
 According to details provided by the complainant, no improvements were observed in the surrounding environment after repeated complaint on dust pollution. 			
 ET has conducted a site investigation on 11th May 2011 with representatives from RE and Contractor to resolve the concern. Dust generated from haul access and earth materials carried by construction vehicles were identified as the major sources of dust pollution to the surrounding environment. 			
4. As reported by Contractor, a frontline staff was assigned to station at the intersection of Access Road D and Tat Wan Road. Regular water spraying was provided for both Tat Wan Road (Fig 4.1) and Access Road D (Fig.4.2), which was observed to be wet during site investigation (Fig.4.3). During site investigation, it was also observed that high jet water sprayers were provided at the site entrance at Access Road D and were used by drivers for wheel washing before leaving from site (Fig.4.4 and Fig.4.5).			
5. As reported by Contractor, a frontline staff was assigned to provide water spraying for the public area at Tat Wan			

Road near the site entrance at ch.600 twice per day and wash the wheels of construction vehicles using the high jet water sprayers. A wheel washing bay was also provided at the same location, but the condition of water in the wheel washing bay was observed to be muddy (Fig.5.1). As such, Contractor was recommended to clean and maintain the wheel washing area regularly to maintain good condition as to avoid site vehicles from bringing

muddy water to public area.

- 6. Contractor was also recommended to pay serious attention on their site practices and implement necessary mitigation measures to avoid dust emission, which should at least include:
 - Dust accumulated on site should be regularly removed by means of washing and/or scrubbing.
 - Haul access that was frequently used by site equipments and/or vehicles should be regularly water sprayed.
 - Regular water spraying should be provided for site activities which were known to be main sources of
 dust emission, such as excavation, boulder breaking and earth movement works.
 - Earthy stockpiles and exposed earth surfaces should be protected with fabric coverings to prevent erosion from causing air quality impact.
- 7. Contractor was reminded to maintain proper practices and dust suppression measures, such as provision of regular water spraying for haul access and maintenance of the water condition of wheel washing bay as mentioned in item 6, to minimize dust pollution to the surrounding environment.
- 8. ET has reminded the contractor to pay serious attention to prevent causing possible environmental impacts in the future

P.P. Les Cheung Lai

Signature:

Patricia Chung Chi Ping, ET Leader

Date: 13-05-2011

Fig.4.1 – Regular water spraying was provided for the public area at Tat Wan Road.



Fig.4.2 – Regular water spraying was provided for Access Road D.



Fig.4.3 – Access Road D was observed to be wet during site investigation.



 $\label{eq:Fig.4.4-High jet water sprayer was used for wheel washing at site entrance at Access Road D.$



 $\label{eq:Fig.4.5-High jet water sprayer was used for wheel washing at site entrance at Access Road D.$



Fig.5.1 – Water condition in the wheel washing bay at site entrance at ch.600 was muddy.



COMPLAINT / CONCERN LOG

(SD)	-					
0506(D	File Closed	Yes				
Ref: DC0706-CL-110506(DSD)	Investigation/Mitigation Action	A complaint on 6 th May 2011 was recorded regarding the repeated complaint on environmental nuisance arising from dust pollution to the public area at UTPR, nearby Sheung Wun Yiu. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE).	According to details provided by the complainant, no improvements were observed in the surrounding environment after repeated complains on dust pollution.	ET has conducted a site investigation on 11th May 2011 with representatives from RE and Contractor to resolve the concern. Dust generated from haul access and earth materials carried by construction vehicles were identified as the major sources of dust pollution to the surrounding environment.	As reported by Contractor, a frontline staff was assigned to station at the intersection of Access Road D and Tat Wan Road. Regular water spraying was provided for both Tat Wan Road (Fig 4.1) and Access Road D (Fig.4.2), which was observed to be wet during site investigation (Fig.4.3). During site	investigation, it was also observed that high jet water sprayers were provided at the site entrance at Access Road D and were used by drivers for wheel washing before leaving from site (Fig. 4. 4 and Fig. 4.5).
		7	2	က်	4	
Details of Complaint Complaint was referred by DSD regarding the repeated complaint on environmental nuisance arising from dust pollution to the public area at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.						
	Complainant/ Date of Contact	A Complaint was referred by DSD on 6 th May 2011				
	Event Date/Location	6 th May 2011, Project site at Upper Tai Po River, nearby Sheung Wun Yiu				
	Log Ref	Our REF: DC0706-CL- 110506(DSD) DSD ECRS				

5. As reported by Contractor, a frontline staff was assigned to provide water spraying for the public area at Tat Wan Road near the site entrance at ch.600 twice per day and wash the wheels of construction vehicles using the high jet water sprayers. A wheel washing bay was also provided at the same location, but the condition of water in the wheel washing bay was observed to be muddy (Fig.5.1). As such, Contractor was recommended to clean and maintain the wheel washing area regularly to maintain good condition as to avoid site vehicles from bringing muddy water to public area.	6. Contractor was also recommended to pay serious attention on their site practices and implement necessary mitigation measures to avoid dust emission, which should at least include: i. Dust accumulated on site should be regularly removed by means of washing and/or scrubbing. ii. Haul access that was frequently used by site equipments and/or vehicles should be regularly water sprayed. iii. Regular water sprayed. iiii. Regular water spraying should be provided for site activities which were known to be main sources of dust emission, such as excavation, boulder breaking and earth movement works. iv. Earthy stockpiles and exposed earth surfaces should be protected with fabric coverings to prevent erosion from causing air quality impact.

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7. Contractor was reminded to maintain proper practices and dust suppression measures, such as provision of regular water spraying for haul access and maintenance of the water condition of wheel washing bay as mentioned in item 6, to minimize dust pollution to the surrounding environment.	ET has reminded the contractor to pay serious attention to prevent causing possible environmental impacts in the future.
7. Con prac proc proc proc and and was	8. ET after imp 9.
	100 - 100

Date: 13th May 2011

Filed by Environmental Team Leader: P.D. Lee Chilled Lar

Our ref. no.: DC0706-CL-110524(EPD)

By Fax and Mail 31st May 2011

To: Distribution List

Dear Sirs or Madams,

Contract No. DC/2007/06 Drainage Improvement works in Upper Tai Po River, Lam Tsuen River and She Shan River

Complaint Investigation Report and Log

Based on the complaint incident received from EPD with details of:

EPD complaint ref.:

EP3/N05/RN/00009991-11

Date received:

24/05/2011

Incident location:

Upper Tai Po River, nearby Sheung Wun Yiu

Description:

Complaint against noise nuisance arisen from construction activities during

public holidays and Sundays since 1st May 2011, and during night time

between 19:00 and 00:00 on weekdays.

Enclosed please find the complaint investigation reports and log sheets of the incident as for your record.

Yours faithfully,

Patricia Chung

ET leader

Environmental Pioneers and Solutions Limited

c.c. SRE/Maunsell (Mr. KY Chan)

RE/Maunsell (Mr. Adrian Ng)

IEC/ERM (Mr. Roger Leung)

Chiu Hing Project Manager (Mr. Samson Lam)

Chiu Hing Site Agent (Mr. Raymond Kwok)

Chiu Hing Environmental Officer (Mr. Pui-Shing Chan)

Flat B, 6/F Hop Shi Factory Building, 29 Lee Chung Street, Chai Wan, Hong Kong Tel: (852) 2556 9172 Fax: (852) 2856 2010 Website: http://www.epsl.com.hk

DS	D Project – River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River
Re	eport for Complaint/ Concern
	ır Ref.: DC0706-CL-110524(EPD)
	D Case Ref. No.: EP3/N05/RN/00009991-11
Sh	eet: <u>1</u> of <u>2</u>
RE	CIPIENT
Na	ime: Chiu Hing Construction & Transportation Co., Ltd,
De	etails: Complaint was referred by EPD that a resident complained against noise nuisance arisen from construction activities during public holidays and Sundays since 1 st May 2011, and during night time between 19:00 and 00:00 on weekdays along Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.
Re	ceived Date: 24th May 2011 Received Time: N/A
2-21/2001	DMPLAINANT / Concern
Ch 6000	me: N/A Tel: <u>N/A</u> Idress: N/A
2000000	(a) (a) \$ (c) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
CC	OMPLAINT
20 (8)	Noise □Air quality/Dust □Water □Odour □Environment □Traffic/Pedestrian Safety □Others
52,545	rent Date and Time: Sundays and public holidays since 1 st May 2011, and between 19:00 and 00:00 on ekdays
Lo	cation: A complaint was recorded for noise nuisance arisen from construction activities during public holidays I Sundays since 1 st May 2011, and during night time between 19:00 and 00:00 on weekdays at Upper Tai Po River,
	rby Sheung Wun Yiu.
IN	VESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES
1.	A complaint on 24 th May 2011 was recorded regarding noise concern generated from construction activities within project site during public holidays and Sundays since 1 st May 2011, and during night time between 19:00 and 00:00 on weekdays at UTPR. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE).
2.	As reported by Contractor, emergency flood relief works were carried out by backhoes during 1 st –2 nd and 15 th May from 08:00 to 20:00, and on 22 nd May from 13:30 to 16:30 due to the expected rainfall. Contractor had also notified EPD via the form of "Record of Emergency Works during Restricted Hours" (Appendix A) by fax on 30 th April 2011, 14 th and 25 th May 2011for carrying out the emergency works during the public holidays. Contractor also reported that the working hour for weekdays is from 08:00 to 18:00.
3.	ET reviewed the routine noise monitoring results recorded on 6^{th} , 13^{th} , 20^{th} and 28^{th} May 2011 and no exceedance was found for all measurements.
4.	Site investigation was held on 25th May 2011 with representatives from RE, Independent Environmental Checker

and Contractor to resolve the concerns.

- 5. During investigation, a backhoe was observed in idle at approximate ch.550. No other noise source was identified nearby Sheung Wun Yiu, i.e. between ch.400 and ch.600 of UTPR, during investigation as no river work should be carried out after the arrival of wet season (Fig.5.1 and 5.2).
- 6. ET conducted routine noise monitoring on 28th May 2011at the nearest noise sensitive receivers (i.e.: UTP 1, 2 and 3) from the noise sources. No exceedance of limit level (i.e.: >75 dB) was recorded all three monitoring locations.
- 7. As similar complaint was received on 4th May 2011 already, Contractor was recommended to minimize the number of emergency works during restricted hours, such as public holiday and Sunday. If necessary, EPD should be notified through the record of "emergency works during restricted hours" prior to the start of the emergency work. Contractor was also reminded that no construction activity should be carried out after 19:00 on weekdays unless a construction noise permit was possessed.
- 8. Since some of the proposed recommendations of noise mitigation measures for the noise complaint received on 4th May 2011 were not observed, Contractor was seriously advised to enhance the site practise on noise mitigation measures, such as avoiding parallel operations of construction machinery to minimize noise generation and re-erecting noise barriers to protect nearby sensitive receivers from construction noise.

9. ET has reminded the contractor to pay serious attention on preventing possible environmental impacts from arisen in the future.

P.P. Lee Cheung lair

Signature:

Patricia Chung Chi Ping, ET Leader

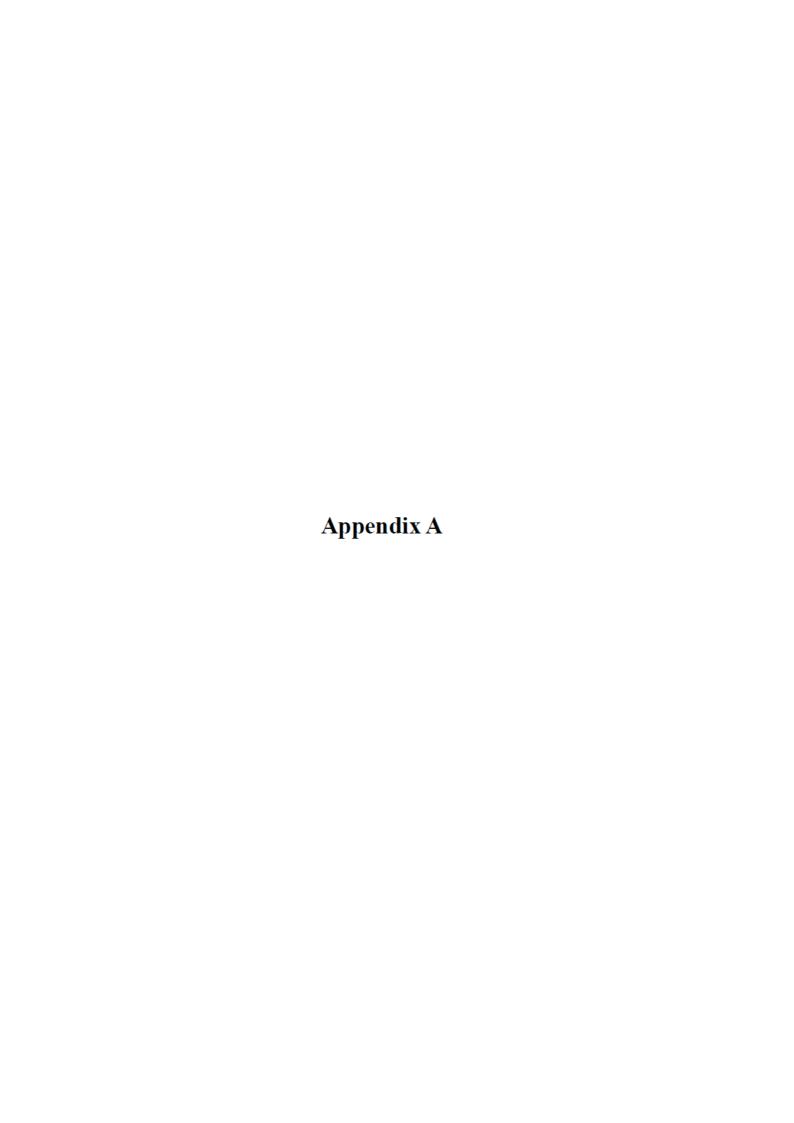
Date: 31-05-2011

Fig.5.1 - During site investigation, no river work was being carried out between ch.400 and 500 of UTPR



Fig.5.2 - During site investigation, no river work was being carried out between ch.500 and 600 of UTPR





From: Chiu Hing Construction & Transportation Co. Ltd. (Name of Company/Utility/Gov't Dept)

Samson Lam (Project Manager) Name/Post:

Fax No. Date:

24459139

1-2 May 2011

455-457 Castle Peak Road, Tsuen Wan,

AECOM (DC0706 Site Office)

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Director of Environmental Protection (Attn: S(RA)6 Fax: 2413 3358) 6/F., Chinachem Tsuen Wan Plaza,

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92311740

For the Day/Month of 1-2 May 2011 (from 0800 - 2000) Record of Emergency Work During Restricted Hours*

Ī	Record (of Emergency Works During Restricted Hours
reaker used?	provided. If	
Is hand-held breaker used?	If Yes, What Type?	2
į	Noiso control measure Implemented Noise barrier provided? If no, gives reasons?	Temp Noise barrier
	List of PME used and/or PCW carried out	10 Backtoce for earth removal Temp Noise barrier 2 set of vibration pokers
Date & Time	Completion of Work	2/5/2011
Date	Start of Work	0800
	Description and Justification of Emergency Work	As heavy rain is expected in Labour Holiday, Emergency Flood Proventive Works shall be carried
	Location of Work	DSD Contract No. DC2007/06 As heavy rain is Lam Tsuen River, She Sha River and Tai expected in Labour Po River Po River Holiday, Emergency Ficod Proventive Works shall be carr
	Name of Contractor	Chiu Hing Construction & Transportation Co. Ltd.
	Police ref.	BOB 110.
4.11	Emcrg. Serial No.(If	applicable) EO no.

Example: Use of Sitenced equipment (Le. hydraulic crusher, electric/hydraulic breaker, quiet miller, pavement ripper, saw & lift etc.) * Restricted hours: 7pm-7am and any time on general holiday, including Sunday

1) Powered Mechanical Equipment

Prescribed Construction Work, if the construction site is within Designated Area.
 For example, electric/ hydraulic hand-held breaker.

(Please refer overleaf for examples of typical emergency construction works)

Name/Post: Samson Lam (Project Manager)

Signature:

Record of Emergency Works During Restricted Hours

Fax No. From: Chiu Hing Construction & Transportation Co. Ltd. Samson Lam (Project Manager) (Name of Company/Utility/Gov't Dept) 14 May 2011 92311740 Name/Post: Tel. No. 455-457 Castle Peak Road, Tsuen Wan, Director of Environmental Protection (Attn: S(RA)6 Fax: 2413 3358) 6/F., Chinachem Tsuen Wan Plaza,

To:

AECOM (DC0706 Site Office) EPD (SEPI(REGION N)11 - Mr K C Tam)(Fax: 26506033)

8

For the Day/Month of 15 May 2011 (from 0800 - 2000) Record of Emergency Work During Restricted Hours*

24459139

provided. If Noise barrier Is hand-held breaker used? no, Why? What Type? If Yes, ž barrier provided? If no, Noise control measure Implemented" Noise 6 Backhoe for earth removal Temp Noise Barrier gives reasons? and/or PCW carried out List of PME used Completion of Work 15/5/2011 15/5/2011 Start of Work 0800 expected on 15-17 May Works shall be carried and Justification of Emergency Work 2011, Emergency Flood Proventive As heavy rain is Lam Tsuen River, She Sha River and Tai DSD Contract No. DC2007/06 Location of Work Po River EOB no. Construction & Transportation Name of Chiu Hing Contractor Co. Ltd. Police E. applicable) EO no. HyD Emerg. Serial

Example: Use of Sitenced equipment (Le. hydraulic crusher, electric/hydraulic breaker, quiet miller, pavement ripper, saw & lift etc.) * Restricted hours: 7pm-7am and any time on general holiday, including Sunday

1) Powered Mechanical Equipment

2) Prescribed Construction Work, if the construction site is within Designated Area.

(Please refer overteaf for examples of typical emergency construction works) 3) For example, electric/ hydraulic hand-held breaker.

Name/Post: Samson Lam (Project Manager)

Signature:

Froin: Chiu Hing Construction & Transportation Co. Ltd. (Name of Company/Utility/Gov't Dept)

Name/Post:

Fax No. 24459139

(2tom 13:30 - 16:30)

Record of Emergency Work During Restricted Hours* 22 May 2011 1 For the Day/Month of AECOM (DC0706 Site Office) EPD (SEPI(REGION N)11 - Mr K C Tam)(Fax: 26506033)

8

455-457 Castle Peak Road, Tsuen Wan,

6/F., Chinachem Tsuen Wan Plaza, (Attn: S(RA)6 Fax: 2413 3358)

Director of Environmental Protection

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	R	ecord	of Emergency W	orks Dur	ing Res	ricted F	lours
is hand-held breaker used?	Noise barrier	provided. If no, Why?	٠,				
Is hand-held b	If Yes,	What Type?	ž				
	Noise control measure	Implemented Noise burtler provided? If no, gives reasons?	Temp Noise Banier				
		List of PME used and/or PCW carried out	2 Backhoe for earth removal Temp Noise Banier		ě		
Date & Time		Completion of Work	22 May 2011 16:30				
Date		Start of Work	22Mgs 2019 13:30				
	Description	and Justification of Emergency Work	As directed by 22Mg. ER to clear 2019 The sediment 13:30 on river course to prevent	0		499	-
	•	Location of Work	DSD Contract No. DC2007/06 Lam Tsuen River, She Sha River and Tai 17 Po River Po River				
		Name of Contractor	Chiu Hing BOB no. Construction & Transportation Co. Ltd.			,	
		Police ref.	EOB no.				· · · · · ·
HyD	Einerg.	Serial No.(If applicable)	BO no.				

* Restricted hours: 7pm-7am and any time on general holiday, including Sunday

Example: Use of Sitenced equipment (Le. hydraulic crusher, electric/hydraulic breaker, quiet miller, pavement ripper, saw & lift etc.)

1) Powered Mechanical Equipment

2) Prescribed Construction Work, if the construction site is within Designated Area. (Please refer overleaf for examples of typical emergency construction works) 3) For example, electric/ hydraulic hand-held breaker.

Signature:

Name/Post: Kaymundl

COMPLAINT / CONCERN LOG

Our REF: DC0706-CL-110524(EPD)

Log Ref

EPD Case Ref. No.: EP3/N05/RN/ 00009991-11

File Closed	Yes		
CIC	X.		
Investigation/Mitigation Action	A complaint on 24 th May 2011 was recorded regarding noise concern generated from construction activities within project site during public holidays and Sundays since 1 st May 2011, and during night time between 19:00 and 00:00 on weekdays at UTPR. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE). As reported by Contractor, emergency flood relief works were carried out by backhoes during 1 st -2 rd and 15 th May from 08:00 to 20:00, and on 22 rd May from 13:30 to 16:30 due to the expected rainfall. Contractor had also notified EPD via the form of "Record of Emergency Works during Restricted Hours" (Appendix A) by fax on 30 th April 2011, 14 th and 25 th May 2011for carrying out the emergency works during the public holidays. Contractor also reported that the working hour for weekdays is from 08:00 to 18:00.	ET reviewed the routine noise monitoring results recorded on 6th, 13th, 20th and 28th May 2011 and no exceedance was found for all measurements.	Site investigation was held on 25th May 2011 with representatives from RE, Independent Environmental Checker and Contractor to resolve the concerns.
	1.	3.	4.
Details of Complaint	A complaint was recorded for noise nuisance arisen from construction activities during public holidays and Sundays since 1st May 2011, and during night time between 19:00 and 00:00 on weekdays at Upper Tai Po River (UTPR).		
Complainant/ Date of Contact	A Complaint was referred by EPD on 24th May 2011		
Event Date/Location	Sundays and public holidays since 1st May 2011, and between 19:00 and 00:00 on weekdays Project site at Upper Tai Po River, nearby Sheung Wun Yiu		

dle vas sen as val	lay TP of ree	ize ted tred ior vas be a a	of int site as as ive ive
ation, a backhoe was observed in ich.550. No other noise source by Sheung Wun Yiu, i.e. betwood of UTPR, during investigation should be carried out after the arrifig.5.1 and 5.2).	outine noise monitoring on 28 th N est noise sensitive receivers (i.e.: Lathe noise sources. No exceedance: >75 dB) was recorded all thinons.	plaint was received on 4th May 2 ctor was recommended to minim emergency works during restricts public holiday and Sunday. should be notified through the received works during restricted hours" put emergency work. Contractor that no construction activity should fer 19:00 on weekdays unless ise permit was possessed.	Since some of the proposed recommendations of noise mitigation measures for the noise complaint received on 4 th May 2011 were not observed, Contractor was seriously advised to enhance the site practise on noise mitigation measures, such as avoiding parallel operations of construction machinery to minimize noise generation and re-erecting noise barriers to protect nearby sensitive receivers from construction noise.
	1103 104 100 100 1		8. Since some of noise mitigation received on 4 Contractor was practise on no avoiding paramachinery to re-erecting noise receivers from or
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	5. During investigation, a backhoe was observed in idle at approximate ch.550. No other noise source was identified nearby Sheung Wun Yiu, i.e. between ch.400 and ch.600 of UTPR, during investigation as no river work should be carried out after the arrival of wet season (Fig.5.1 and 5.2).		

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9. ET has reminded the contractor to pay serious attention on preventing possible environmental impacts from arisen in the future.	
9. ET atte	

Filed by Environmental Team Leader: P.P. Lee Chilling Lea.

Date: 31th May 2011