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 October 2011

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DC/2007/06 works in Upper Tai Po River Thirty-eighth Monthly Report River improvement

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TABLE OF CONTENTS

Executive summary	4
1.0 Introduction	6
2.0 Environmental status	6
2.1 Project area	6
2.2 Construction programme	6
2.3 Proposed construction sequences	7
2.4 Construction activities for the reporting period	9
2.5 Construction activities for the next reporting period	9
2.6 Exceedance with the environmental performance limits	9
2.7 Summary of complaints	9
3.0 Ecological monitoring results	10
4.0 Noise monitoring results	10
5.0 Vibration monitoring results	11
6.0 Environmental issues and actions	11
6.1 Site inspections and key environmental issues	11
6.2 Non-compliance	15
6.3 Recommendations	16
6.4 Implementation status and effectiveness of the mitigation measures	s17
7.0 Waste management status	17
8.0 Status of environmental licensing and permit	18
9.0 Future key issues	19
10.0 Conclusion	20
Appendix A: Event and action plan for ecology	22
Appendix B: Action and limit level for construction noise	25
Appendix C: Reference standards for vibration	27
Appendix D: Noise monitoring results, graphical plots and location plan	29
Appendix E: Monitoring schedule for the present and next reporting period	o d 41
Appendix F: Cumulative complaint log	44
Appendix G: Implementation status of environmental protection and miti	gation
measures	45
Appendix H: Cumulative waste flow table	49
Appendix I: Construction programme (Rev. No. 16)	50
Appendix J: Complaint Investigation Reports and Log	66
Appendix K: Ecological Impact Monitoring Report for Upper Tai Po Rive	e r 79

Executive summary

This is the thirty-eighth 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 October 2011 to 31st October 2011. Diversion of river water to west branch, forming haul road at main stream, construction of retaining wall TR2, TR3 & TR5, construction of gabion wall TR1, excavation for construction of additional boulder trap and diversion of the existing utilities 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.

Ecological impact monitoring was conducted on 21st July 2011 by the Ecologist Dr. Mark Shea. The ecological impact monitoring report prepared by the Ecologist is attached in Appendix K. Next ecological monitoring was arranged in January 2012. It was agreed with green groups and AFCD that capture survey would be carried out in different phases. The 1st phase was carried out on 1st September 2011, and the 2nd phase was carried out on 3rd and 4th October 2011. The capture survey report is under preparation and will be provided in the upcoming monthly EM&A report. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist, are provided in table 6.2 and Appendix G respectively.

Environmental Team had carried out construction noise monitoring on weekly basis and no exceedance was found. Noise monitoring records for the reporting month and the data are 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 muddy water discharge was recorded in this reporting month. Details of the events and recommendations given please refer to Section 6.2

There were two formal complaints in relation to environmental issue received in the reporting month. Both complaints were concerning the observation of muddy water arisen from construction works along Upper Tai Po River, one from the public on 25th October 2011 and the other one from the EPD monitoring team on 27th October 2011. 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.

Construction of retaining walls TR2, TR3 & TR5, construction of gabion wall TR1, construction of additional boulder trap and demolition of the existing temporary steel bridge would 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-eighth 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 October 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 starts from Ta Tit Yan of Yai Mo Shan, flows from southeast to northeast alongside Wilson Trail, turning northward before joining the Lam Tsuen River and then runs towards Tai Po Market. For the east of the river, there are active and abandoned cultivated lands. 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.

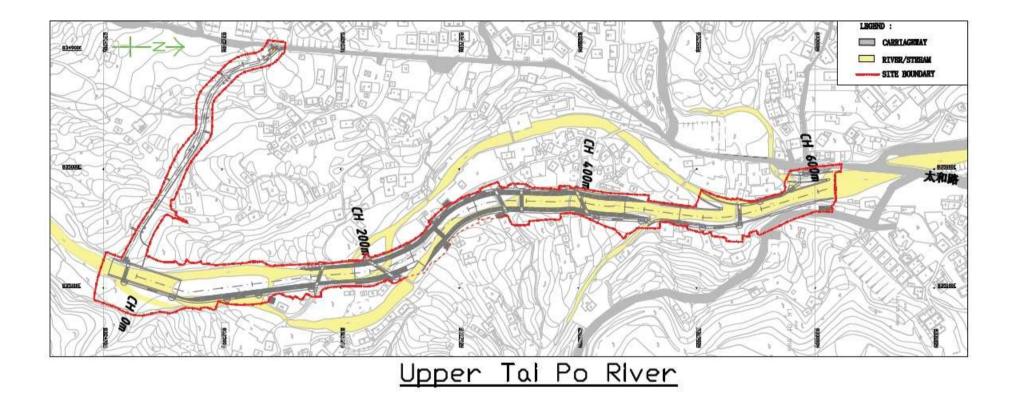
2.3 Proposed construction sequences

The proposed construction sequences are shown in the following:

- (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) Construction of additional boulder trap and additional stilling basins with baffle blocks
- (5) Provision of riverbed treatment
- (6) Re-provisioning of footbridges
- (7) Construction of footpaths
- (8) Landscaping works

DC/2007/06 River improvement works in Upper Tai Po River Thirty-eighth Monthly Report

Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

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

- 1.) Diversion of river water to west branch
- 2.) Forming haul road at main stream
- 3.) Construction of retaining wall TR2, TR3 & TR5
- 4.) Construction of gabion wall TR1
- 5.) Excavation for construction of additional boulder trap
- 6.) Diversion of the existing utilities

2.5 Construction activities for the next reporting period

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

- 1.) Construction of retaining walls TR2, TR3 & TR5
- 2.) Construction of gabion wall TR1
- 3.) Construction of additional boulder trap
- 4.) Demolition of the existing temporary steel bridge

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 two formal complaints in relation to environmental issue received in the reporting month. Both complaints were concerning the observation of muddy water arisen from construction works along Upper Tai Po River, one from the public on 25th October 2011 and the other one from the EPD monitoring team on 27th October 2011.

ET has conducted investigations with representatives from Contractor on 29th October 2011 and recommendations were given to the contractor to minimize environmental impacts generated from project works. The complaint investigation report with details of findings, recommendations and outcome were attached in Appendix J and was submitted to Environmental Protection Department (EPD) in accordance with the

requirement stated in EM&A manual.

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

3.0 Ecological monitoring results

Ecological impact monitoring was conducted on 21st July 2011 by the Ecologist Dr. Mark Shea. The ecological impact monitoring report prepared by the Ecologist is attached in Appendix K. Next ecological monitoring was arranged in January 2012.

4.0 Noise monitoring results

In accordance with the EM&A Manual, monitoring locations were established at 11 N.S.R. locations. The descriptions 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		

TABLE 4.1 Description of Noise Sensitive Receivers

Noise monitoring was carried out by the Environmental Team on weekly basis for this reporting month. The scheduled monitoring dates were 7^{th} , 14^{th} , 21^{st} and 28^{th} October 2011. Measured L_{eq (30min)} results ranged from 48.6dB(A) to 74.8dB(A).

As the noise level measured approached to the limit level, Contractor was reminded to implement proper mitigation measures as stated in Environmental Permit and EM&A

Manual in order to minimize the noise impact to the nearby sensitive receivers, i.e. erecting 2m high noise barriers at locations stated in Environmental Permit, orientating noisy plants away from the nearby NSRs, using movable barriers and acoustic mat, etc.

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 6th, 12th, 19th and 26th October 2011. A detailed checklist of each site inspections together with comments and relevant photos have been filed and kept for record. The findings from inspections were summarized in Table 6.1.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 3rd, 10th, 17th, 24th and 31st October 2011. Details of findings were summarized in Table 6.2.

It was agreed with green groups and AFCD that capture survey would be carried out in different phases. The 1st phase has been carried out on 1st September 2011, and the 2^{nd} phase was carried out on 3^{rd} and 4^{th} October 2011. The capture survey report is under preparation and will be provided in the upcoming month EM&A report.

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
3 Aug 11	Accumulated water was	Observation	Contractor was recommended to	To be followed during the	Ongoing	
	observed inside the		remove the stagnant water as	next reporting period.		
	construction holes along		soon as possible to prevent			
	UTPR.		mosquito breeding.			

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
14 Sept 11	Excavation was being carried out close to the river channel at approximate ch.600. Water was observed inside the excavation area. Although the excavation area was enclosed by sand bags and bunds, spillage of muddy water into the river during excavation was observed, causing pollution of the river and impacts upon the downstream.	Observation	Contractor was seriously reminded that excavation work shall be carried out in sections and in enclosed dewatered condition. Dewatering of the excavation area should be carried out prior to excavation work. All site water shall be well de-silted and treated before discharge. Also, sufficient temporary earth bunds and barriers should be used to entirely enclose the excavation area and exposed slope surface should be covered (e.g. by tarpaulin sheet) to prevent river contamination.	Dewatering via a sedimentation tank was provided for excavation area. However, the river banks were observed to be steep and exposed. Contractor was recommended to cover the river banks with tarpaulin to prevent soil erosion and runoff The discrepancy will be checked in next inspection	Ongoing	
28 Sept 11	Equipment and materials attached with hydraulic oil were observed without preventive measure at ch.0.	Observation	Contractor was reminded to provide drip trays for the equipment and materials to prevent soil contamination.	To be followed during the next reporting period.	Ongoing	
28 Sept 11	Oil stain was observed on the haul road at ch.0.	Observation	Contractor was reminded to removed the contaminated soil and dispose them as chemical waste.	As reported by Contractor, the contaminated soil on the haul road was removed and temporary stored as chemical waste. No oil stain on the haul road was observed in this site inspection.	6 Oct 11	
28 Sept 11	The tree protective net was damaged by construction activities and materials at approximate ch.0.	Observation	Contractor was advised to remove the materials near the fencing area and repair the fence. Also Contractor was recommended to prohibit construction activities around the tree protection zone to preven further damage to the trees.	The broken tree protective net was repaired and the construction materials near the protective net were removed by Contractor.	6 Oct 11	
28 Sept 11	Excavation works was being carried out at ch.200 which causing soil erosion and muddy water generation. A reported by Contractor, this is an emergency work for the preparation of the oncoming typhoon and storm.	Observation	Contractor was seriously reminded all the measures stated in the Environmental Permit should be followed. Contractor was advised that excavation work shall be carried out in sections and in enclosed dewatered condition. Dewatering of the excavation area should be carried out prior to excavation work. All site water shall be well de-silted and treated before discharge. Also, sufficient temporary earth bunds and barriers should be used to entirely enclose the excavation area and exposed slope surface should be covered to prevent river contamination.	Contractor. However, Contractor was reminded that, as stated in Environmental Permit, dewatering of the excavation area and	6 Oct 11	
6 Oct 11	Stagnant water was observed inside an unused construction equipment at	Observation	Contractor was recommended to remove the stagnant water and	The unused construction equipment was removed by Contractor	12 Oct 11	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
	ch.0 of UTPR.		accumulation of water.			
6 Oct 11	Noise barriers were not yet erected by Contractor along UTPR.	Observation	Since more frequent construction works is expected in dry season, serious noise nuisance may be generated to the village nearby. Contractor was urged to install noise barriers to minimize the noise impact arisen from construction activities.	To be followed during the next reporting period.	Ongoing	
6 Oct 11	Excavation works was being carried out at ch.400 of UTPR which causing soil erosion and muddy water generation and deteriorating the water quality of downstream. Although the main river stream has been diverged, discharge of domestic wastewater and seeping of groundwater has caused water flow to the downstream.	Observation	Contractor was seriously reminded that discharge of contaminated water is an environmental offence and	Large boulder was used at ch.400 of UTPR for blocking muddy site water discharged in to the river to prevent water pollution.	19 Oct 11	
12 Oct 11	It was observed that construction machine was being operated and driven within the river channel at ch.500 of UTPR without any mitigation measures, causing serious contamination to the river.	Observation	within the river should be prohibited and adequate mitigation measures prior to any	Contractor relocated the machine to the river bank as immediate action. As reported by Contractor, emergency works were being carried out to remove blockages within the river.	12 Oct 11	
12 Oct 11	The tree protective net was damaged by construction activities at approximate ch.0 of UTPR.	Observation	Contractor was advised to remove the materials near the fencing area and repair the fence. Also Contractor was recommended to prohibit construction activities around the tree protection zone to prevent further damage to the trees.	To be followed during the next reporting period.	Ongoing	
12 Oct 11	Fuel containers without drip tray were observed at ch.0 of UTPR.	Observation	Contractor was reminded to provide drip tray for the containers to prevent oil leakage.	The fuel containers were removed.	19 Oct 11	
12 Oct 11	Oil stain was observed on the haul road at ch.50 of UTPR.	Observation	Contractor was reminded to	To be followed during the next reporting period.	Ongoing	
19 Oct 11	No proper access for construction vehicles was observed at approximate ch.150 of UTPR.	Observation	-	To be followed during the next reporting period.	Ongoing	
19 Oct 11	Muddy water was leaked from an overloaded wheel washing bay at ch.600 of	Observation	Contractor was advised to	To be followed during the next reporting period.	Ongoing	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
	UTPR.		sandbags to prevent any muddy water run-off.			
19 Oct 11	Direct discharged of muddy water was observed without any proper treatment at Upper Tai Po River and contaminated the river water at downstream. The sources were identified as : i) muddy surface run-off discharging into the river at approximate ch.100 ; ii) direct discharge of muddy water from the excavation area at approximate ch.200.	Non-compliance	Contractor was seriously recommended to rectify the mitigation measures for surface runoff and divert the muddy site water for treatment properly and effectively prior to discharging into the river in order to comply with statutory requirements, such as WPCO and the applied effluent discharge license. Also, Contractor was seriously reminded that excavation work shall be carried out in sections and in enclosed dewatered condition. Dewatering of the excavation area should be carried out prior to excavation work. All site water shall be well de-silted and treated before discharge. Also, sufficient temporary earth bunds and barriers should be used to entirely enclose the excavation area and exposed slope surface should be covered to prevent river contamination.	No proper mitigation measure was implemented and muddy water was still observed. To be followed during the next reporting period.	Ongoing	
26 Oct 11	Leakage of fuel from a back hoe was observed at approximate ch.400 of UTPR.	Observation	Contractor was advised to provide maintenance for the construction equipments and remove contaminated soil as chemical waste.	To be followed during the next reporting period.	Ongoing	
26 Oct 11	A wire was observed to be hanging on a preserved tree at approximate ch.300 of and the roots of trees was observed to be damaged by construction activities at approximate ch.400.		Contractor was reminded to provide proper measures for protecting the trees within the site. Contractor was advised to rectify the discrepancy as soon as possible.	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 Date	
		Ecologist			
3 October	No Major findings for this	No Advice is	No Action is required	N/A	
2011	inspection	required	to be taken		
10 October	No Major findings for this	No Advice is	No Action is required	N/A	
2011	inspection	required	to be taken		
17 October	No Major findings for this	No Advice is	No Action is required	N/A	
2011	inspection	required	to be taken		

24 October	No Major findings for this	No Advice is	No Action is required	N/A
2011	inspection	required	to be taken	
31 October	No Major findings for this	No Advice is	No Action is required	N/A
2011	inspection	required	to be taken	

6.2 Non-compliance

A non-compliance event was recorded on 19th October 2011 regarding insufficient of mitigation measures causing sediment runoff and water quality impact to downstream.

During the site inspection on 19th October 2011, the river steam was observed to be contaminated and muddy which caused by surface run-off at approximate ch.100 and direct discharge of muddy water from the excavation area at approximate ch.200. The muddy water was directly discharged into the river without any sufficient and effective treatment system and contaminated river water at downstream.

The above mal-practice was considered as non-compliance event under Water Pollution Control Ordinance (WPCO)(Cap.358), Environmental Permit (EP-223/2005/A) and Effluent Discharge Permits (no. 3678 for Upper Tai Po River) issued under the WPCO to the Contractor. 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 fulfil 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.

Covering of riverbanks with geo-textile was implemented by Contractor as the mitigation measure for muddy surface runoff, which observed during the site inspection on 2nd November 2011. However, muddy water was still observed in the downstream areas. As reported by Contractor, sedimentation tank is being setup and

earth bunds are being formed to further prevent muddy water generation, which anticipated to be completed by 16^{th} November 2011. Contractor was reminded to implement the aforesaid mitigation measures and corrective actions as soon as possible 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 reminded that all the measures stated in the Environmental Permit should be followed. Contractor was advised that excavation work shall be carried out in sections and in enclosed dewatered condition. Dewatering of the excavation area should be carried out prior to excavation work. All site water shall be well de-silted and treated before discharge. Also, sufficient temporary earth bunds and barriers should be used to entirely enclose the excavation area and exposed slope surface should be covered (e.g. by tarpaulin sheet) to prevent river contamination. Contractor was reminded that discharge of contaminated water is an environmental offence and should be prohibited.

There were some findings which were observed since August but still awaiting Contractor's rectification. Contractor was advised to implement mitigation measures and follow up actions immediately as recommended in Table 6.1. Implementation status of follow up actions will be checked and reported from the weekly inspections in the next reporting month.

Also, Contractor was reminded to implement good housekeeping practice. Contractor shall assign proper waste collection area for segregation and storage before disposal. All waste generated should be properly collected, stored, and disposed as soon as possible to improve housekeeping performance of the construction site. Contractor was also reminded to provide drip tray for temporary storage of drums containing oil and chemical.

In order to minimize the noise impact to the noise sensitive receivers, Contractor was reminded to implement proper mitigation measures as stated in Environmental Permit and EM&A Manual, i.e. erecting 2m high noise barriers at locations stated in Environmental Permit, orientating noisy plants away from the nearby NSRs, using movable barriers and acoustic mat, etc.

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.

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 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, the majority of C&D materials generated were reused at Lam Tsuen River for rock filling. The remaining inert waste, together with non-inert waste, were sent to the North East New Territories (NENT) Landfill. Chemical waste were first collected by a black plastic bag with labeling (collection point, chemical name, producer's name), then placed into the Chemical Storing Area for temporary storage. A licensed collector was appointed for the collection and disposal of the chemical waste. All chemical waste was transported to the Chemical Waste Treatment Centre (CWTC). The following table showed amount of waste generation, reused and disposed from this project site in this reporting month.

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

Type of waste	Amount generated	Amount reused	Amount disposed
Inert waste	740 m^3	725 m^3	15 m^3
Non-inert waste	48 kg	0	48 kg
Chemical waste	0	N/A	0

Table 7.1 Summary of Waste generated and disposed in October 2011

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.

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				

 Table 8.1 Summary of Environmental Licensing and Permit Status

9.0 Future key issues

Construction of retaining walls TR2, TR3 & TR5, construction of gabion wall TR1, construction of additional boulder trap and demolition of the existing temporary steel bridge would be carried out in the upcoming month. The construction activities for these items will generate environmental impacts in several aspects.

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

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.

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

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

10.0 Conclusion

Diversion of river water to west branch, forming haul road at main stream, construction of retaining wall TR2, TR3 & TR5, construction of gabion wall TR1, excavation for construction of additional boulder trap and diversion of the existing utilities were the major site activities being carried out 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.

Ecological impact monitoring was conducted on 21st July 2011 by the Ecologist Dr. Mark Shea. The ecological impact monitoring report prepared by the Ecologist is attached in Appendix K. Next ecological monitoring was arranged in January 2012. It was agreed with green groups and AFCD that capture survey would be carried out in different phases. The 1st phase was carried out on 1st September 2011, and the 2nd phase was carried out on 3rd and 4th October 2011. The capture survey report is under preparation and will be provided in the upcoming month EM&A report.

A non-compliance event regarding muddy water discharge was recorded in this reporting month. Contractor was urged to implement necessary mitigation measures and corrective actions as soon as possible.

There were two formal complaints in relation to environmental issue received in the reporting month. ET has conducted site investigation and the report was 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.

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

Appendix A: Event and action plan for ecology

Event and action plan for ecology

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

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

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

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

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

Appendix B: Action and limit level for construction 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
other days	complaint is	of 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

Appendix C: Reference standards for vibration

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.

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

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	62.5	64.8	50.5	7-Oct-11	16:00-16:30	N/A	Background noise Traffic noise	Cloudy	Façade
UTP 2	62.2	60.2	45.4	7-Oct-11	15:27-15:57	N/A	Background noise Traffic noise	Cloudy	Façade
UTP 3	62.4	62.3	55.2	7-Oct-11	14:53-15:23	N/A	Background noise	Cloudy	Façade
UTP 4	60.3	63.3	47.2	7-Oct-11	13:52-14:22	Construction yard sorting	Background noise	Cloudy	Façade
UTP 5	61.3	63.0	46.1	7-Oct-11	14:20-14:30	River sorting	Background noise	Cloudy	Façade
UTP 6	61.4	63.7	51.9	7-Oct-11	10:12-10:42	River construction	Background noise	Cloudy	Façade
UTP 7	66.5	69.8	50.3	7-Oct-11	10:43-11:13	Construction vehicle	Background noise	Cloudy	Façade
UTP 8	53.4	54.8	50.4	7-Oct-11	11:15-11:45	Construction (Rock gate)	Background noise	Cloudy	Façade
UTP 9	50.2	50.7	48.1	7-Oct-11	11:45-12:15	N/A	Background noise	Cloudy	Façade
UTP 10	59.3	61.5	42.0	7-Oct-11	9:30-10:00	Rock breaking Construction vehcile	Background noise	Cloudy	Façade
UTP 11	57.1	57.2	39.8	7-Oct-11	8:58-9:28	Rock breaking	Background noise	Cloudy	*Free field

DC/2007/06 River improvement works in Upper Tai Po River Thirty-eighth Monthly Report

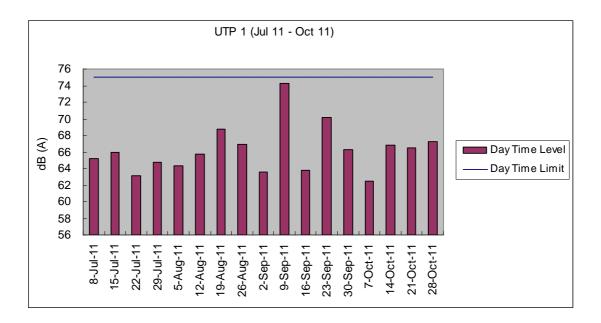
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	66.8	69.1	53.5	14-Oct-11	15:33-16:03	- Construction yard sorting - Piling	- Background noise - Traffic noise	Sunny	Façade
UTP 2	56.6	58.2	47.3	14-Oct-11	15:00-15:30	- Construction yard sorting	- Background noise - Traffic noise	Sunny	Façade
UTP 3	67.1	67.4	61.0	14-Oct-11	14:29-14:59	- Construction yard sorting	-Background noise	Sunny	Façade
UTP 4	61.4	64.2	51.2	14-Oct-11	13:26-13:56	- Construction yard sorting	-Background noise	Sunny	Façade
UTP 5	58.2	61.2	49.4	14-Oct-11	13:57-14:27	- Construction yard sorting	-Background noise	cloudy	Façade
UTP 6	66.1	67.8	52.9	14-Oct-11	10:28-10:58	- Rock gate manufacturing	-Background noise	cloudy	Façade
UTP 7	69.2	71.6	50.9	14-Oct-11	10:59-11:29	- Rock gate manufacturing	-Background noise	cloudy	Façade
UTP 8	69.9	71.3	50.7	14-Oct-11	11:30-12:00	- Rock gate manufacturing - Pipe installing	-Background noise	cloudy	Façade
UTP 9	58.1	60.4	53.1	14-Oct-11	12:00-12:30	N/A	-Background noise	cloudy	Façade
UTP 10	62.4	66.6	46.3	14-Oct-11	9:48-10:18	N/A	- Rain - Background noise	Rainy	Façade
UTP 11	70.6	73.4	65.9	14-Oct-11	9:14-9:44	N/A	- Rain - Background noise	Rainy	*Free field

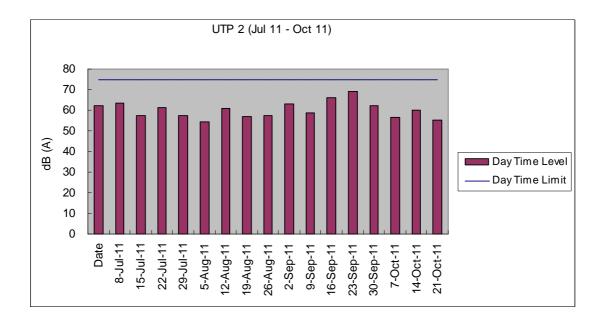
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	66.5	69.6	54.4	21-Oct-11	14:43-15:13	Rock break	- Traffic noise - Background noise	Sunny	Façade
UTP 2	59.9	63.4	50.8	21-Oct-11	13:36-14:06	Rock transfer Rock break	- Traffic noise - Background noise	Sunny	Façade
UTP 3	74.8	70.2	68.3	21-Oct-11	14:14-14:44	Rock transfer	Background noise	Sunny	Façade
UTP 4	53.6	56.6	45.4	21-Oct-11	13:40-14:20	N/A	Background noise	Sunny	Façade
UTP 5	53.1	55.8	45.4	21-Oct-11	14:20-14:50	N/A	Background noise	Sunny	Façade
UTP 6	70.8	74.4	59.2	21-Oct-11	10:28-10:58	Construction machines	Background noise	Sunny	Façade
UTP 7	56.8	59.6	47.0	21-Oct-11	10:59-11:28	Construction machines	Background noise	Sunny	Façade
UTP 8	68.5	71.1	51.9	21-Oct-11	11:30-12:00	Rock transfer	Background noise	Sunny	Façade
UTP 9	60.1	60.2	51.1	21-Oct-11	12:00-12:30	N/A	Background noise	Sunny	Façade
UTP 10	62.4	63.4	40.9	21-Oct-11	9:42-10:12	Construction machines	Background noise	Sunny	Façade
UTP 11	61.7	51.6	43.6	21-Oct-11	9:10-9:40	Construction machines	Background noise	Sunny	*Free field

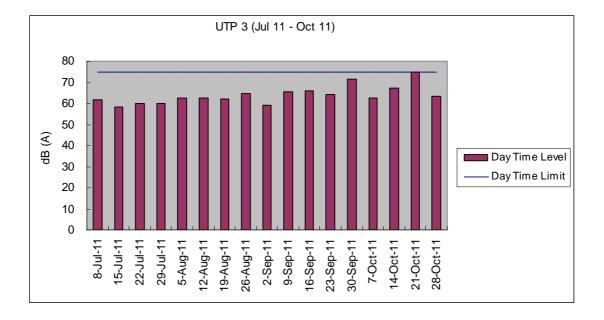
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	67.2	69.7	52.0	28-Oct-11	15:19-15:49	N/A	- Background noise - Traffic noise	Cloudy	Façade
UTP 2	55.4	57.9	46.9	28-Oct-11	14:46-15:16	Rock transfer	- Background noise - Traffic noise	Cloudy	Façade
UTP 3	63.4	66.4	57.1	28-Oct-11	14:14-14:44	Road sorting	- Background noise	Sunny	Façade
UTP 4	62.6	66.1	49.6	28-Oct-11	13:11-13:41	Road sorting	- Background noise	Sunny	Façade
UTP 5	57.1	61.9	43.8	28-Oct-11	13:41-14:11	Road sorting	- Background noise	Sunny	Façade
UTP 6	56.0	59.0	45.2	28-Oct-11	9:55-10:25	Construction machines	- Background noise	Sunny	Façade
UTP 7	48.6	51.2	38.4	28-Oct-11	10:25-10:55	Construction machines	- Background noise	Sunny	Façade
UTP 8	61.1	56.2	46.2	28-Oct-11	10:55-11:25	Construction machines	- Background noise	Sunny	Façade
UTP 9	56.7	57.4	45.8	28-Oct-11	11:25-11:55	N/A	- Background noise	Sunny	Façade
UTP 10	54.9	56.5	35.3	28-Oct-11	9:21-9:51	N/A	- Background noise	Sunny	Façade
UTP 11	66.2	55.5	41.3	28-Oct-11	8:50-9:20	N/A	- Background noise	Sunny	*Free field

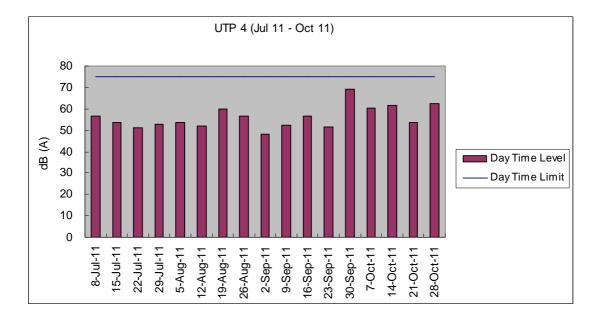
Graphical plot for noise measurements

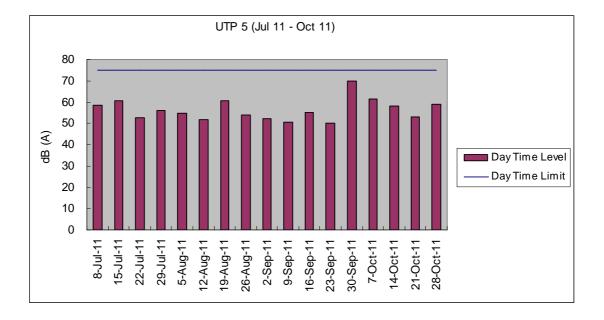
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from July 2011 to October 2011.

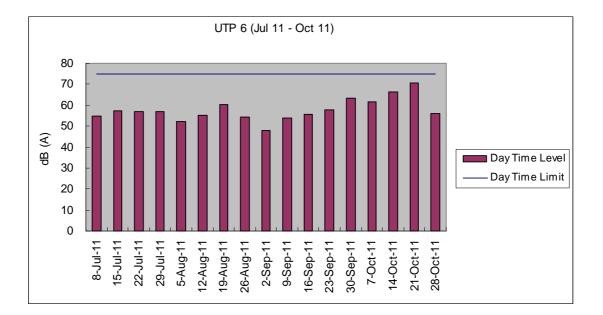


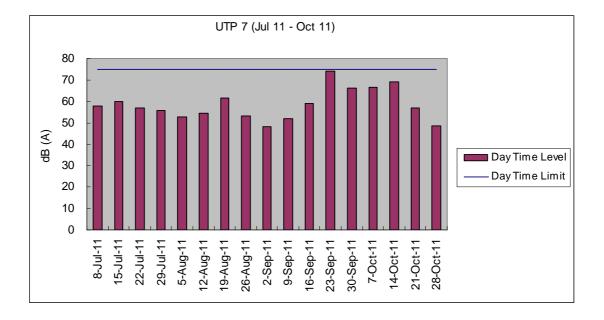


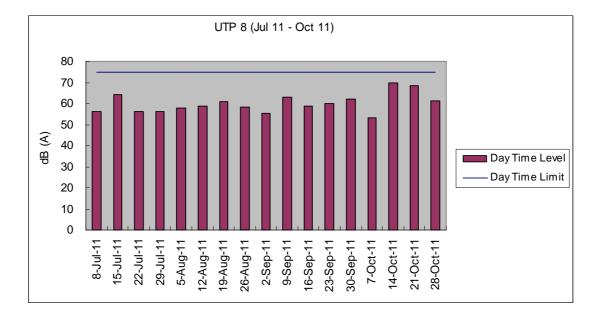


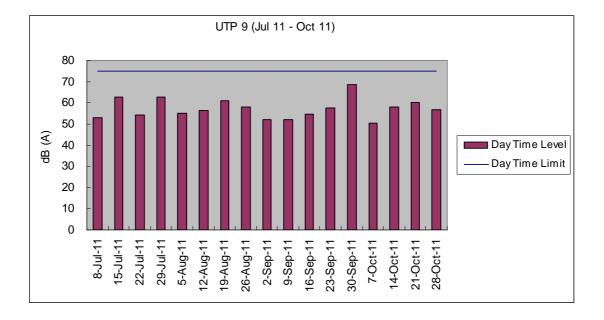


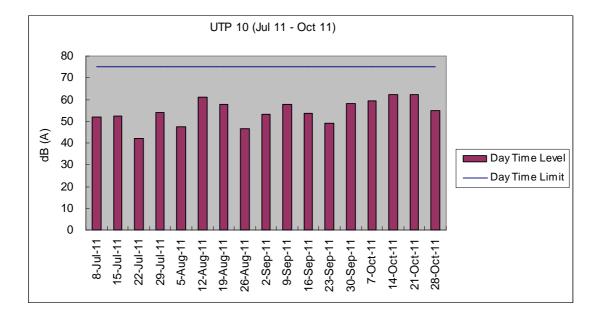


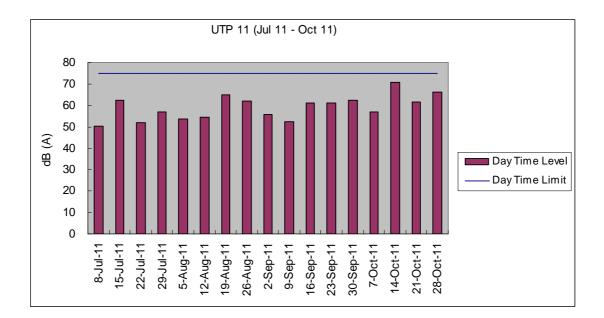




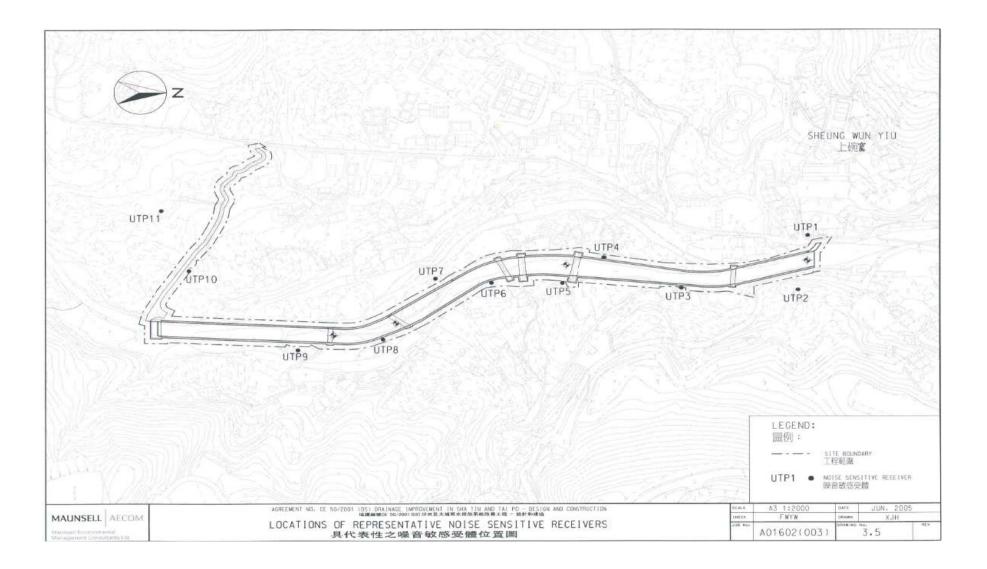








DC/2007/06 River improvement works in Upper Tai Po River Thirty-eighth Monthly Report



Appendix E: Monitoring schedule for the present and next reporting period

Master Schedule of EM&A works in October 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01/10
02/10	03/10	04/10	05/10	06/10	07/10	08/10
	Ecological site inspection 2 nd Capture Survey	2 nd Capture Survey		Site inspection at afternoon	Noise Monitoring	
09/10	10/10	11/10	12/10	13/10	14/10	15/10
	Ecological site		Site inspection at		Noise Monitoring	
	inspection		afternoon			
16/10	17/10	18/10	19/10	20/10	21/10	22/10
	Ecological site inspection		Site inspection and SSEMC at afternoon		Noise Monitoring	
23/10	24/10	25/10	26/10	27/10	28/10	29/10
	Ecological site inspection		Site inspection at afternoon		Noise Monitoring	
30/10	31/10					
	Ecological site inspection					

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01/11	02/11	03/11	04/11	05/11
					Noise Monitoring	
06/11	07/11	08/11	09/11	10/11	11/11	12/11
	Ecological site inspection		Site inspection at afternoon		Noise Monitoring	
13/11	14/11	15/11	16/10	17/10	18/10	19/10
	Ecological site inspection		Site inspection at afternoon		Noise Monitoring	
20/11	21/11	22/11	23/11	24/11	25/11	26/110
	Ecological site inspection			Site inspection and SSEMC at afternoon	Noise Monitoring	
27/11	28/11	29/11	30/11			
	Ecological site inspection		Site inspection at afternoon			

Master Schedule of EM&A works in November 2011

Appendix F: Cumulative complaint log

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	October 2011	
Air/Dust	5	0	5
Noise	5	0	5
Water	9	2	11
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	19	2	21

Appendix G: Implementation status of environmental protection and mitigation measures

		-	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,		Ongoing
	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	Deficient	Ongoing
	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		

Implementation status of environmental protection and mitigation

1			
	Provide silt trap and oil interceptor to remove the oil, lubricants, grease,	Non-compliance	Ongoing
	silt, grit and debris from the wastewater before pumped to the public	identified	
	storm water drainage system		
	Provide site toilet facilities	Implemented	Not required
Waste	Reuse excavated material as far as possible	Implemented	Not required
Management			
	Recycle scrap metals or abandoned equipment	Implemented	Not required
	Adopt a trip ticket system for the disposal of C&D materials	Implemented	Not required
	All general refuse should be segregated and stored in enclosed bins or	Implemented	Not required
	compaction units		
Vibration	Percussive piling is to be replaced by bore-hole piling to minimize	Not applicable at this	Not required
	vibration impacts to the two identified Declared monuments	stage	
	Carrying out of vibration monitoring to ensure that vibration associated	Not applicable at this	Not required
	with the construction phase do not exceed the threshold limit otherwise	stage	
	contractor have to review the work method and construction activities		
	have to be slow down or rescheduled to reduce the impacts		
	Close monitoring and measurement on the cracks of the external wall of	Not Applicable at this	Not required
	Fan Sin Temple during construction works will be carried out. Any	stage	
	changes on the cracks will be recorded for the contractor to slow down		
	the construction activities accordingly; and to review the work methods		
	and equipments immediately		
	•		

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

Environmental	Protection / Mitigation Measures	Implementation status	Follow-up
Aspect			action
Ecology	Large boulders will be returned to the riverbed following	Not applicable	Not
	the excavation works.		required
	Construction works from Ch. 0.0m - Ch. 150m would be	Not applicable	Not
	along one side of the river only		required
	Approximately 150m of the existing natural riverbank on	Implemented	Not
	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 all	Implemented	Not
	times during the construction phase		required
	Capture survey shall be conducted within the Tai Po River	Capture surveys had been conducted at	Not
	before commencement of works. The captured target	the beginning of the Contract, during	required
	species shall be relocated to areas of the watercourse	the wet season July/August 2008 and $4^{\scriptscriptstyle th}$	
	upstream of the watercourse upstream of the Tai Po River	November 2008	
	Temporary noise barriers should be constructed to control	Implemented	Not
	noise impacts to habitats and associated wildlife within		required
	and adjacent to the proposed works area		
	Excavation works shall be carried out by land based plant	Implemented	Not
	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

Type of waste		Inert Waste			Non-Inert Waste)	Chemica	al Waste
	Amount generated	Amount reused	Amount disposed	Amount generated	Amount reused	Amount disposed	Amount generated	Amount disposed*
Year 2008 to 2009	36.9m ³	0	36.9m ³	2.000 tonnes	0	2.000 tonnes	20kg	20kg
Year 2010	1955m ³	1955m ³	0	0.192 tonnes	0	0.192 tonnes	0	0
January 2011	117m ³	117m ³	0	0.040 tonnes	0	0.040 tonnes	0	0
February 2011	581m ³	581m ³	0	0.045 tonnes	0	0.045 tonnes	0	0
March 2011	927m ³	927m ³	0	0.047 tonnes	0	0.047 tonnes	0	0
April 2011	467m ³	467m ³	0	0.050 tonnes	0	0.050 tonnes	0	0
May 2011	835 m ³	835 m ³	0	0.015 tonnes	0	0.015 tonnes	0	0
June 2011	3 m ³	3 m ³	0	0.001 tonnes	0	0.001 tonnes	0	0
July 2011	0	0	0	0	0	0	0	0
August 2011	0	0	0	0	0	0	0	0
September 2011	392 m ³	392 m ³	0	0.035 tonnes	0	0.035 tonnes	2kg	2kg
October 2011	740 m ³	725 m ³	15 m ³	0.048 tonnes	0	0.048 tonnes	0	0
Total	6053.9m ³	6002m ³	51.9m ³	2.473 tonnes	0	2.473 tonnes	22kg	22kg

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

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. 16)

A	工務	開始時間	完成時間	前責任務	資源名偶		200846		200944		2010年		2011年		2012年			
	1 1					H2	HI	H2	HI	H2	H1	H2	H1	112	HI	82	HI	H2
ogramme of Upper Tai Po River	764 days?	2010/4/1	2012/8/15				1	1	ι	.1				4	· · · ·	-		1
We Seam of 2010	214 days	2010/4/1	2010/10/31			+	η ·		F		5 - 163		-,	113	1			
Wei Season of 2011	149 days	2011/4/1	2011/9/30	1		† ·			F 1 7		1		11 ES	Sh.				+
Warks Suspended Due to Villager's Rally	42 days?	2010/11/7	2010/12/18	1					÷ • •						1			+
Ch 230-350	366 days?	2011/1/28	2012/4/19		1	t ·				5								
Oshion Wall (Ch 230-275 RH3) TG1/TG1A	40 days	2011/1/28	2011/3/12	and the second second re-	1	t ·	1-1-											
Retaining Wall (Ch 275-330 RHS) TR1 (replaced by ADI)	183 days?	2011/3/7	2011/10/17		172	t :										1		1
Escavation and Formation	12 days	2011/3/7	2011/3/19	1181		t i							- E					1
Lating Concrete block and gabien units (Ch275-320 RH5)	12 days 1	2031/3/21	2011/4/2	1184		t :					1		6		1	02200		1
Rechilling	6 days 1	2011/4/4	2011/4/11	1185		t				5	1		1	1 L	1	1.1		1
Excavation and Formation	7 days	2011/10/3	2011/10/11	1176		t	1			5.5.7			1	ь <u>Б</u>	1			1
Laying Concrete block and gabion units (Ch320-330 RHS)	4 days	2011/10/12	2011/10/15	1187		t - : :				7	1	1.1.1		- E	1	10 0 0 0	11	1
Backfiling	1 day?	2011/10/17	2011/10/17	1188		* * * *	7777		111		17.7			ú T 🛙	1	1		1
Drainage & Footpath (CH 275-320 RHS)	21 days	2011/10/3	2011/10/27			t			1		17 T T			. 🖤	1	1		÷
Construction of drainage & footpath	21 days	2011/20/3	2011/10/23	1176		t r Tr			1	7			10.03	0 T	1	10000		1
Gabies Wali (Ch 315-330 LHS) TG2A	29 days	2011/12/21	2012/1/30)		t			ī	1.1.1.1			9555	9 E E	₩	· !		·
Remove Concrete Blocks and shotcerne	14 days	2011/12/21	2012/14	11985S-14 eday	18.	1	1		ī	2222			10.00	9.1	M		[]	· · ·
Excavation and Formation	7 days	2012/1/9	2012/1/16	5 1198		t	<u></u>					ĩ – –			<u>b</u>			· · ·
Gabies Wall Construction (Ch 315-330 LHS)	9 days	2012/1/14	2012/1/27	1194FS-3 edays		1	n		T		12 2 3				J			
Bactfilling	2 days !	2012/1/28	2012/1/30	1195		† I	۰·		r	2 - 7 -	1		-,	2 -	11E E E	12 2 2 2		
Maintainence Staintage (Ch 315 LHS)	4 days	2012/1/4	2012/1/7	1			· ·		F			1.2.2			9			
Fernwork and concruing	4 days	2012/1.4	2012/1/	1224		t									40.00			
Drainage & Footpath (Ch 307-330 LHS)	14 days	2012/1/28	2012/2/19	1		+				1.1.1					.	1		4 - 4
Construction of drainage & footpath	14 days	2012/1/28	2012/2/11	5 1195	1										11			
		a da menuna art art art da				t							-1					
Temp Utility and Pedestrian Diversion at Ch230	195 days	2011/8/1	2012/3/24	1										9	4		[4	1
Temp UU diversion near Ch230	S2 days	2011/8/1	2011/9/30	0	1	1					1			도카니		1 1	14	4
Implementation of Pedestrian diversion Scheme	119 days	2011/11/1	2012/3/2	4	1	1			7.5.5		1			0.16		te e e b		1
And a final sector of the sect						1 1					1.1			610	1	81 - L K		1
Demolition of Interim Pootbridge at Ch230	17 days	2011/10/3	2011/10/22	1	TP2A				7 7 7					9 🔍	12	12		1
Construct Temp crossing at Ch230	7 days	2011/10/3	2011/10/1	1 1203		1			2.1	1.1.1	1			0 L	1	1 - 1 - 1		1
Demolition of Interim Footbridge	10 days	2011/10/12	2011/06/23	2 1207					1.1.1		1			9. h	1	· ·		1
							,		1	1.1.1	1				L!	! !		·
Gabion Wall (Ch 230-257 LHS) TG2/TG2A/TG2B	31 days	2011/10/18	2011/11/2	2	TP2A	1	,		1		0.0				1		-	÷
Remove Shotcrite & concrete block	5 days	2011/10/18	2011/10/2	2 1208FF		T	1		1	2000	1				11	//		
Escavation and Formation	13 days	2011/10/24	2011/11/	7 1211		T	3				·		· · · ·	: - K	₩.	! !		
Gabien Wall Construction (Ch 230-257 LHS)	12 days	2011/11/1	2013/11/14	4 1212PS-7 oikys	1	T	2		r		·			1 - B				÷
Backfiling	3 days	2011/11/15	2011/11/1	7 1213		1.1.1	7777							3 - L	<u>h</u> .	2		
Maintainence Staircase (Ch 242 LHS)	4 days	2011/11/18	2011/11/22	2	TP2A	T 1 1	2		r					I				
Fornwork and concreting	4 days	2011/11/18	2011/11/2	2 1214		1.1								I	L		H.	
Gabion Wall (Ch 257-270 LHS) TG4	15 days	2011/11/16	2011/12/2	2	TP2A	T							-1			4 P		+
Remove Concrete Blocks and shokante	5 days	2011/11/16	2011/11/2	1 1214FS-2 days							· · - ·			· • •	1	()		+ - <u>-</u>
Eacastition and Formation	S days	2011/11/21		9 1218FS-1 day		1								B	h	1 b	14	±
Gabion Wall Construction (Ch 257-270 LHS)	4 days	2011/11/26	2011/11/3	0 12199S-3 days		Ι	d		+		1		-1	4.4	h			4
Backfilling	2 days	2011/12/1	2011/12/	2 1220		T							-i	ч <u>В</u>	<u>til</u>	و د اد و	4	4
Retaining Wall (Ch 275-315 LHS) TR1 (replaced by AD1)	39 days	2011/12/1	2012/1/1		TP2A	1			L	2.00	1			a . [14		-	1
Remove Concrete Blocks and shotcrete	5 days	2011/12/1		· · · · · · · · · · · · · · · · · · ·		1			1	1	1	L		v,_₿	16	2 C		4
Excavation and Formation	21 days	2011/12/7			-	1			1		$i_{-} = 1$	·	3	9.2	K	t = 1 = 1	H	1
Laying Concrete block and gabion units	21 days	2011/12/14			5		1	·	L	1 - 1 -	L	- <u>-</u>	1.1.1.4	ワー間	11	/ 5	-	1
Bockfilling	7 days	2012/1/11					1	·	1	1.1.1.	·	·	1	오니!!	此.	1 1	-	111
Drainage & Footpath (Ch 200-307 LHS)	60 days	2011/11/18	2012/2/	2		1	1	/	1	,	1	1	1		48.4	1 1		
								E-Kurdinan	100622002	to manda -								
1000 (40010 4001 任務 [111111] 単化時	• .	上重型任務		上類型進度			8任務	STRAIN STREET	HIGH CONTRACTOR	擒要群组	<u> </u>							
rog (vag rovtri i		上联党里程改 🔿		分割		. <u>1</u> 93	影響要	Concerned in the local division of the local	amolit	期間	· 🕂							
'no	Bacavation and Formation Laying Concete block and gabino units Backfilling Dminage & Pootpath (Ck 200-307 LHS) g (Aug10-Apr1 (1986 []]]]]	Excavation and Formation 21 days Laying Concete block and gabien units 21 days Backfilling 7 days Drainage & Poetpach (Ch 200-307 LHS) 60 days g (Aug10-Apr1 ETELEFIELES	Excavation and Formation 21 days 2011/12/7 Laying Concete block and galaton units 21 days 2011/12/7 Backfilling 7 days 2012/1/11 Dminage & Footpath (Ch 200-307 LHS) 60 days 2012/1/11 g (Aug10-Apr1 ETELEFICES MARKER ETELEFICES	Biologic and Formation 21 days 2011/12/7 2012/17 Laying Concerts block and gabins units 21 days 2011/12/14 2012/17 Biockfilling 7 days 2012/17 2012/17 Distinger & Pootpath (Ch 200-307 LHS) 60 days 2012/17 2012/17 g (Aug10-April ETETETETETETETETETETETETETETETETETETET	Excavation and Formation 21 days 2011/12/7 2012/1/3 1223 Laying Concert block and galaxy units 21 days 2011/12/14 2012/1/0 1223 Back/filing 7 days 2012/1/11 2012/1/0 1223 Drainage & Footpath (Ch 200-307 LHS) 60 days 2011/1/1/8 2012/2/2 g (Aug10-Apr1 任務 COLDEDEDEDED 出税公務 上級公園任務 今前	Backwistin and Formation 21 4aps 2011/12/7 3012/1/3 1223 Laying Concerts block and gabino units 21 daps 2011/12/7 2012/1/3 1223 Backfilling 7 daps 2012/1/3 2012/1/3 1225 Drainage & Pootpach (Ch 200-307 LHS) 60 daps 2012/1/18 2012/22 g (Aug10-Apr1 任総 「二二二二二二二」 上の記録的な 上面認知行業の	Bits of Consistence 21 days 2011/12/7 2012/1/3 1223 Excavation and Formation 21 days 2011/12/7 2012/1/0 122858/7 edays Laying Consette block and gabien units 21 days 2011/12/14 2012/1/10 122858/7 edays Bockfilling 7 days 2012/1/11 2012/1/18 1225 Drainage & Pootpach (Ch 200-307 LHS) 60 days 2011/11/18 2012/2/2 g (Aug10-Apr1 任初 EDEDEDEDED 単純20% 上紙安田経験 小川 g (Aug10-Apr1 44% 上紙安田経験 小川 303 304	Bits of Consistion 21 days 2011/12/7 2012/1/0 1223 Laying Consists block and gabing units 21 days 2011/12/1 2012/1/0 12243587 edays 1 Bickfilling 7 days 2012/1/1 2012/1/18 1225 1 1 Drainage & Poetpach (Ch 200-307 LHS) 60 days 2011/11/18 2012/27 1 1 g (Aug10-Apr1 任務 [Backwistin and Formation 21 days 2011/12/7 2012/1/3 1223 Laying Concerts block and gabing units 21 days 2011/12/14 2012/1/3 1223 Backkilling 7 days 2012/1/31 2012/1/3 1225 1 Drainage & Pootpach (Ch. 200-307 LHS) 60 days 2012/1/11 2012/1/3 1225 1 g (Aug10-Apr1 任務 ELECETICE 世紀紀珠 上載短振物 三三三三三三 中部任務 小部任務	Bacavian and Formation 21 days 2011/12/7 3012/1/3 1223 」	Backwistin and Formation 21 days 2011/12/7 3012/1/3 1223 」 </td <td>Backwistin and Formation 21 days 2011/12/7 3012/1/3 1223 1 <th1< th=""> 1 <th1< th=""> 1 <th1< th=""> <th1< th=""> 1<</th1<></th1<></th1<></th1<></td> <td>Base of Sectors 21 4gs 2011/127 2012/1/0 1223 Laying Concerts block and phino units 21 4gs 2011/127 2012/1/0 1223587 edays Backfilling 7 4gs 2012/1/0 1223587 edays 1 1 Drainage & Poetpach (Ch 200-307 LHS) 60 days 2012/1/18 2012/2 1 1 g (Aug10-Apr1 任務 LILILIELE 出税股任務 上紙股任務 上紙股任務 小</td> <td>Backwisten and Formation 21 days 2011/12/7 2012/1/2 1223 Laying Concete block and gabino units 21 days 2011/12/14 2012/1/10 122435567 edays Backvilling 7 days 2012/1/11 2012/1/18 12255 Dminage & Poetpach (Ch. 200-307 LHS) 60 days 2011/11/18 2012/2/2 g (Aug10-April 6436 EEEEEEEEEE Height &</td> <td>Backwistin and Formation 21 days 2011/12/7 3012/1/3 1223 Laying Concete block and galinon units 21 days 2011/12/1 2012/1/1 122335877 cdays 1<</td> <td>Base values 21 days 2011/12/7 3012/1/3 1223 Laying Concete block and galinon units 21 days 2011/12/1 2012/1/0 12233587 cdays Bockfilling 7 days 2012/1/11 2012/1/11 2012/1/11 1223 Drainage & Pootpach (Ch. 200-307 LHS) 60 days 2011/1.1/1.6 2012/2/2 1 g (Aug10-Apr1 任1% Lation (Ch. 200-307 LHS) 60 days 2011/1.1/1.6 2012/2/2 g (Aug10-Apr1 任1% Lation (Ch. 200-307 LHS) 60 days 2011/1.1/1.6 2012/2/2</td> <td>Base values 21 days 2011/12/7 3012/1/3 1223 Laying Concerte block and gelinon units 21 days 2011/12/14 2012/1/0 1224SS+7 edays Bask filling 7 days 2012/1/11 2012/1/18 1225 Drainage & Poetpach (Ch. 200-307 LHS) 60 days 2012/1/11 2012/2/2 g 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		1.	就必须到	交成時間	前置任務	資源名稱	1	2008年		2009年		2010年		201	14E		20124	Æ		2013	年	
業別長	任務名朝	工期	BOXD-BOX	2028094390	NUNCESCO	Agen	112	81	112	HI	H2	EI	H		Ht	112	HI		H2		HI I	H2
1228	Construction of drainage & footpath (Ch 200-307 LHS)	60 days	2011/11/18	2012/2/2	1214.1226FF+7	t	1	1	1	deneniiiin	1	1		1		11	ET.	•				
1229	River Bed formation (Ch205-236)	7 days	2011/12/3	2011/12/10		TP2A	t					1			2.00					÷.,	1.1.1	
1230	River Bod Stornation (Ch205-236)(From TE03 to Step2)	7 days	2011/12/3	2011/12/10	1221		1 1	1				1			0.09		ā []	10			11 1	
1231	Step 2 & Stilling Basin (Ch 236)	20 days	2011/12/12	2012/1/6			1 1										# []			· · ·	111	
1232	Construction of Step 2 (Assume Mass Concrete)	10 days	2011/12/12	2011/12/22	1230		t - 7 '	7			-, ·						£[]	2.21			111	
1233	Construction of Stilling Basin (Assume Precast Cone Blocks)	10 days	2011/12/23	2012/1/6		1	t	111	· · · ·		2.2.2.2		7	· · ·		- HT i	£[]			161	111	
1234	Canoada (Ch 275)	21 days	2012/1/4	2012/1/31	Contraction of the state of the state	TP2A	t	η			· · · ·		7 - 1	- 1-	0	- II I	9				111	
1235	River Bed formation (Ch236-275)	7 days	2012/1/4	2012/1/11	1233PS-3 days	1	t	٦		· · · ·			7 -	, -	0		61	· ·			. []]	
1235	Construction of Cascade (Ch 275)	14 days	2012/1/12	2012/1/31			t	٦					7 - 1	, -	- -	- 11	Ή.	,		197	10 1	
1230	Step 3 (Ch 307)	28 days	2012/1/30	2012/3/1		-	t	n						, -	0	- 11		,	5.5.1		11 1	
1238	River Bed formation (Ch275-307)	7 days	2012/1/30		1236FS-3 days	TP2	t	л - =				1		t -		- 11	1 Err	2			11.	
1236	Construction of Step 3 (Aroume Mass Concrete)	10 days	2012/2/8	2012/2/14			† • • •									- 11	16				11]	
1239	Construction of Salling Basin (Assume Procest Cost: Blocks)	10 days	2012/2/20	2012/3/			+						+ -	1 -		- 11	16				11:	
1240	River Bed formation (Ch 236-330)	30 days	2012/1/27	2012/3/1		T2A	+					- i		! -		- 111					11.	
1242	Flicing Grade 500 toc Stone	30 days	2012/1/27		124067		+	-+		- 2		- t		! -		- †	- EN-	I I			11.	
1242	Lighting at CH 250-320	45 days	2012/2/3	2012/3/26		-h	+		- '		· -!			! -		- #1	100	J 😳			11.	
1243	Construction of Dawpits / Durtings	21 days	2012/2/3	2012/2/2			+	2					1.11	: -! -		- 111	1 N.				117	
		12 days	2012/2/28	2012/3/12		1	+	J = =		- 1	1.7.7.1		L	! -		- 11 i i	1 T.				11	
1245	Public Egiting Installation (CE2318)	12 days	2012/2/28	2012/3/12		+		2			- <u></u>		2 -	: -	3	- 18	÷ 11	1.			117	;
1246	Public Egiring Installation (CE2317)	6 dars	2012/3/13		1245,1246		+	(i de la composición d	·		; -		- III -	1 î î				117	
1247	T&C		2012/3/20	2012/3/2	and the local data and the same second of		+		-1		· -: ·		÷			IH I	t i î				177	;
1248	Removal of existing lighting (VA1311-Z1)	6 days	DHUMU	01.0 80	1 1247		+		-)		· -:	·		; -		- 11	t tî	,			117	1 - 1
1249		137 days	2011/10/12	2012/3/26			+		- : :			· ;		; -		, the second	÷.	۲. ° -			117	;
1250	Footbridge T1904 (Ca. 330)		2011/10/12	2011/12/22			+								6	Thi	o i i	,			117	;
1251	Construction of Abutment A (LES)	22 days		2011/12/2			+				· -, ·	·			0	- HT	5 H	,			115	i
1252	Excavation and Dividing	5 days	2011/11/28 2011/12/3	2011/12/		+	·	<u> </u>			·		7 -	, -		HF	₿ III	,		- c -	11 7	1
1253	Formwork and relat fixing for base slab	5 days	2011/12/5	2011/12/			+ I				· -,'	·	τ -		0	- III P	t ili				117	
1254	Concreting of base slab	1 day		2011/12/1	A CONTRACTOR OF A CONTRACTOR O		+	3		- <u>7</u>	·		τ -	, -		- +	t H	,			11 1	1
1255	Szippizg off formwork	3 days	2011/12/10		A CONTRACTOR OF A CONTRACTOR O		+			- <u>r</u>				- 51 F	in	· - []+ []	故 十十	,	r = r		1 7	
1256	Reber fixing and shattering formwork for column	5 days	2011/12/14	2011/12/19			+			- r		·		1 -		· - - *	it H	,		- I	11 1	
1257	Concreting of column	1 day	2011/12/20	2011/12/2			+				-,			1 -		- IBP	と日	1			· [1] •	, - ·
1258	Scripping off formwork	2 days	2011/12/21	2011/12/2			·			- r - -		. j	+ -	1 -	14	10.9	ΠH	1		- 1	· H •	
1259	Construction of Abstment B (RHS)	24 days	2011/10/12	2011/11/	A	TP2	+		- 1	- +		1	+ -	; -	14		+ H	!		- i= -	· [-] *	6
1260	Remove showned	2 days	2011/10/12	2011/10/1			4	4				i	۰.	! -	14	- BP	+ +	!		- 1	· • •	i = 1
1261	Encavation and Bürsfing	5 days	2011/10/14	2011/10/19			4			- +		1	L _	! -	4	- F P	+ +	'		- 1	·	1
1262	Possswork and rebar fixing. for base slab	5 days	2013/10/20	2011/10/2			4	L			و بر ای ای ا		± -	! -	9	i - 🗗	- -	'			· • *	1
1263	Concruting of base slab	l day	2011/10/26	2011/10/2	- A COLORADO AND A CO		4	J	-'		1.1.1.1.1.1	1	1 -	! -	י	- 11	4 -	'			·	i
1264	Supping off formwork	3 days	2011/10/27	2011/10/2			4	۔ ۔ ل	- '		1.000		<u>-</u> -		יי	- 18-	4	'			·	1 = -
1265	Reber fixing and shuttering formwork for column	5 days	2011/10/31	2011/11/			4	$J_{-} =$			1.1.1.1.1.1	1	4 -	! -	''	- [뛰	4 -	'			• • • ÷	1
1266	Concreting of Page slab	1 day	20191105	2011/11/			4	1					<u> </u>	' -	'2	- IP	1	'		- 5	e H é	<u>i</u> – 1
1267	Suipping off formwork	2 days	2011/11/7	2011/114			+	1					·	' -	'-	- fi	4	e É.		- 5	· H ÷	<u>i</u>
1268	Construction of Jacking (steel deek)	16 daşə	2012/5/2	2012/3/3	·			1						! -			- 1			- 21 -	·H÷	<u>i</u> – 1
1269	Erative at virel detail proc. part	d riaga	5112-52	8012794			4	1				. <u>'</u>	÷	! -	3	H	-14			- :	- 14 5	i = i
1270	Din & Bankling	10 daps.	201200	1979/1	and the second s		4	1			de e e e		÷	! -	3	- +	-114	÷ -	7.1	- je se	414 6	(
1271	Paing available	2 110700	2012/5/14	2012/23		-	+	1				de e e	÷ -	: -	3	- +	- 44	e Si		- 2	· - ÷	(- ·
1272	Demolition of Bridge TB-A	17 days	2012/3/7	2012/3/2/			4					de e e		: -	3	11	- 6			- 2		i - 1
1273	Water Pipe Diversion	14 days	2012/3/7	2012/3/2	the second second second second		4							: -		- 14	티면	× -		- 6 -	- 1-1-5	
1274	Remove concrete pipes and demoktion works	3 days	2012/3/23	2012/3/2		-							7 =			- 4	614	I			· [-] -	1 - 1
1275	Lighting at Pootbridge TB04	11 days	2012/3/7	2012/3/19		1			-,			- i	e -			- 1				- p	- H	
1276	Construction of Deserits / Ductings	7 days	2012/3/7	2012/3/1			+						+ -			- 11	111	f 1		- 1		
1277	Public lighting Installation (CE2315)	3 days	2012/3/15	2012/3/1					- 1			- i				-	1	÷ -+		- 1		s =
1278	Public lighting Installation (CE2316)	3 days	2012/3/15	2012/3/1	7 1276	1		-									LLUb				سلل	
																-						
	tester Bree /Aunt0 Aunt 任務 EEEEEEEE 里座碑		上華型任務 🛄		上類影進度 ■		一 外:	錫任務		前出来的	摘要群组	_		•								
Revised1 日期: 201	Master Prog (Aug10-Apr1						atra	家擒受	1 june	CONSISTER OF CONSI	開設	-12-										
	17/26 按度 描述 据奖		白頭的名名称 🗘		21.01		494	1000			1001715											

均有效	任務名稱	工期	國紀時間	完成時間	前置任務	資源名稱		200841		2009年		2010年		2011	牵	17	3012年		12	013年	
akousa	1100-019	1.00	PER-STREE	20104110	0.00	Auron	H2	HI	112	H	H2	HI	H2			H2	HI		FI2	HI	· H2
1279	T&C	1 day	2012/3/19	2012/3/19	1278	-		1	1	1 .	1		1	1		1112		.'.			1
1280	Construction of Gabion Wall at TB-A	5 days	2012/3/27	2012/3/31	and a second sec			,		1	3.5.5	1000	1		9	11.5					1
1261	Excavation and Formation	2 days	2012/3/27	2012/3/28	1274					1	1.1.1		1				[]	- ' - '			1
1282	Gabien Wall Construction (ed) TBA (LBS)	2 days	2012/3/29	2012/3/30	1281	1					· · · ·			1	11	1112	[6		!.		1 - 2
1283	Backfilling	1 day	2012/3/31	2012/3/30	1282		t				-,		777	· ·	1.0	1117	i E IC	-	1		1
1284							+	7		· · · ·	-,	-		-		1111	111	-, -	5 C C	- []	1
1285	Pootbridge TB05 (ch 350)	329 days	2011/3/10	2012/4/19			t	1		7			7	- -	بدراعتهم			ne.	2.2.9	- []	1
1286	Construction of Abutment A (LHS)	20 days	2011/12/31	2012/1/27	And the second sec		t	ъ		7			7	-,		11		-, -	c	- 11	1
1280	Encivation and Blinding	5 days	2011/12/31	2012/1/5		+	+	1		ī	<u>م</u>		T		- 20 -	1 I II N	111			- 1	7
and the second second	Encarvator, and rebar fixing for base slab	4 days	2012/1/7	2012/1/11		+	t • •	л						-, -		1119	£11-	-, -		- 1	7
1288		1 day	2012/1/12	2012/1/12			+	3		7 - 7				-, -	· · · · ·	11 II 17	<u>711-</u>	-1-		- 11	· - ·
1289	Concreting of base slab	3 days	2012/1/13	2012/1/16			+			·		- i	+	-1-	1 - 1	* t -1	(† †)	-1 -	-	- 1-	•
1290	Stripping off formwork	and the second s	2012/1/13	2012/1/20			+			+	-1		+	-4 -	1-1	- † + Y	ăt I-	-• -	:-		+
1291	Rebar fixing and shattering formwork for column	4 days	2012/1/17 2012/1/21	2012/1/2			+		1	*		- 1	4 ÷ ÷	-1 -	14	- [†]]•]	ŭ†∣-	- • -	-		
1292	Concreting of column	1 day					4			+	<i>-</i>		h = -	-1 -	14	- [#][•]	č ∣-	-1 -	!-		1 = -
1293	Stripping off formwork	2 days	2012/1/25	2012/1/21	the second second second second		4	I-		+	-*	- !	L	-1-	a - 14 -	- [1][4]	(E) -	-'-		- 11	4
1294	Construction of Abutment B (RHS)	19 days	2011/3/10	2011/3/31			4			· ·	1.00		L	-1-	C - 10 -	- + +	ll la	-'-			±
1302	Construction of docking	57 daya	2012/1/28	2012/4/3				J = -		L	2		L	-!-	4 - 1 9 -	- [4][4	6 F -	-' -			1
1303	Minist for all times of a shift of the	10 duga	2013/0/25	311224			1	J = -		. L	1.00	- ¹	1	ي ال	9	- [+]]4	A -	-' -		- 14	÷
1304	Erection of shell docks over dask	4-3874	2012/3416	2012/363			4	J			1		1	_f _	9 -	- [+]]4	18	• -' - ·	5		$\dot{c} = c$
1305	Det k fieleling	10.6.65	2013/5/02	ada da Angel			1	1	· · · ·	. L	1		1	- '-	9	- [4][4]	118			- -	1
1306	Robir iardistro	2 2 ki	2012/4/2	201.5%		1	1	1			2.5.5	· · · ·	1	¹ -	9	- 1484	l LLLL	'	!-		$\frac{1}{2} = 2$
1307	Demolition of Bridge TB-B	17 days	2012/3/21	2012/4/13				1	·	1	1	- ¹	L	- ' -	11	- 1484	1.54				$\frac{1}{2} = 1$
1308	Water Pipe Diversion	14 days	2012/3/21	2012/4/10			I	1	.'		1	_ <u>`_ `</u>	1	. <u>-</u> ' -	'?	- 1482	1114	r -' -			4
1309	Remove concurse pipes and demotitian works	3 days	2012/4/11	2012/4/11	3 1308		T	1	4	1	1		·	1.	!!	- 14 15	Шă				÷
1310	Lighting at Footbridge TB05	10 days	2012/2/9	2012/2/20)		1	1.		1			·	·	''	1 2				- 1-1	÷
1311	Construction of Drawpits / Duckings	6 days	2012/2/9	2012/2/15	5 1303		T	7			-,			1	1.5	112	1613	1		[.]	
1312	Public lighting Installation (CE2313)	3 days	2012/2/16	2012/2/11	8 1301			.			· · ·		· · ·		1.8	. 11 <i>3</i>	140				
1313	Public lighting Installation (CE2314)	3 days	2012/2/16	2012/2/18	8 1311		t	777			2.1			· · · ·	6 - O	11117	160			_	1
1314	TAC	1 day	2012/2/20	2012/2/2	1313	1	+	7			-,	- ,			n	1111	100				
1315	Construction of Gabion Wall at TB-B	5 days	2012/4/14	2012/4/15			t t	л				- 1			' 1	11117	111	2			
1315	Encourse and Formation	2 days	2012/4/14	2012/9/10			+					- 1			19	* † *		1		° 11	
	Gabien Wall Construction (adj TBB LHS)	2 days	2012/4/17	2012/9/1			t · ·	-1				=	*	-1 -	4	- 1111	116				
1317	Ganer, Wall Crestriction (JUJ 188 LFIS) BackSling	1 day	2012/4/19	2012/4/19			+				-1	-	+		14	- 1 1	1117				
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1320			2011/12/21	2012/1/		TP2	+		-'		2	- !	L	-1-		- (†84°	111	-1-			
1521	Gabioa Wall (Ch 335-345 LBS) TG2/TG2A	11 days		2011/12/2		112	+				2	- !	L			- 1†1172	1 H H		1.1	- 11	÷
1322	Renove conceste blocks and shotcrete	2 days	2011/12/21	2011/12/3			+	2			2	-!	<u>-</u>	-'-	21	- 1118	r Filt		112	- 14	÷
1323	Eucevation and Formation	5 days	2011/12/23				+	1	-'			-!			2	~ † 隆	*+ H	1.1.1			÷
1324	Gabion Wall Construction (Ch 335-345 L105)	5 days	2011/12/28		3 1323FS-3 edays		+	1	-'			-!		1.1	2 -	- + ੈ	+HH	-1-	÷	- 14	÷
1325	Backfiling	2 days	2012/1.4	2012/1/			+	1	-'				÷		21	- + 4	H H		2	- 14	÷
1326	Drainage & Footpath (Ch 335-345 LHS)	12 days	2012/1/5	2012/1/19			4		-'	·		-!			2	- 1117	日田		}-		÷
1327	Construction of drainage & footpath	12 days	2012/1/6	2012/1/15			4			. <u>-</u>		-!	÷		3 -	- 1447	1111		}-		÷
1328	Gabion Wall (Ch 330-345 RHS) TG2	16 days	2011/11/9	2011/11/20		TP2	4			. 1				j	31	- MÉ	- F 114		2	- H.	÷
1329	Excavation and Formation	6 datas	2011/11/9	2011/11/1			4	1	.'				·		2	- 184-	- HH		2		÷
1330	Gabien Wall Construction (Ch 330-345 RES)	8 days	2011/11/14		2 1329FS-3 edays	-	1									- 14	- 14		2	- 14	÷
1331	Backfilling	4 days	2011/11/23	2011/11/2	6 1330		1	2		1	·		·		2	- 14	1.114				÷
1332	Drainage & Fostpath (Ch. 330-340 RHS)	12 days	2011/11/28	2011/12/10			I	1			1					- 1.	, L [].[- 14	·
1333	Construction of drainage & footpath	12 days	2011/11/28	2011/12/9	0 1331	1	1.	7		Γ						- 111	. L I U			[]	
1334				and the second s		1	1	٦ r		F					1	- 111 -	. []]]	-1 -			
1335	River Bed formation (Ch 330-350)	8 days	2012/3/7	2012/3/15	5	TP2	1									_ [] []	1]]	
1335	Flacing Grade 500 too Stone	8 days	2012/3/7	2012/3/1			1							-			III				
1330	Vietral Cases for the state	5 W() P				-															
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| Step 4 (Ch 350) River Bed formation (Ch340-350) Construction of Step 3 (Assume Mass Concrete) Construction of Stilling Bails (Assume Precast Cone Blocks) 44-100 Additional Bouilder Trap Poolsnidge TB02 (Ch 150) Construction of Abstancest A (LHS) Construction of docking Bouth and docking State and Association Value-renergy Lock Instance, Policing at Footbidge TB03 Construction of Damplay (Dockings) Policing Installation (CE3209) Reserval of existing lighting (VA2642-A1) River Bed formation (Ch 100-150) Eccavition Floce Coblen matrices | 1,381
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| River Bed formation (Ch340-350)
Construction of Step 3 (Assume Mass Concester)
Construction of Step 3 (Assume Precast Conc Blocks)
445-100
Additional Bookler Trap
Pootheridge TB02 (Ch 150)
Construction of Adversant A (LHS)
Construction of docking
Status and docking
Resolution (Ch 100-150)
Econvision | 3 days
10 days
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| River Bed formation (Ch340-350)
Construction of Step 3 (Assume Mass Concester)
Construction of Step 3 (Assume Precast Conc Blocks)
445-100
Additional Bookler Trap
Pootheridge TB02 (Ch 150)
Construction of Adversant A (LHS)
Construction of docking
Status and docking
Resolution (Ch 100-150)
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| Construction of Step 3 (Assume Mass Conceste)
Construction of Stelling Bails (Assume Percent Cone Blocks)
445-100
Additional Boulder Trap
Pootbridge TB02 (Ch 150)
Construction of Abstract A (LHS)
Construction of docking
Path a cri Vari deci + 1 r-c. dech
MALexaner
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Lighting at Pootbridge TB02
Construction of Deceptar / Docings
Public lighting Installation (CB2305)
Public lighting Installation (CB2305)
Public lighting Installation (CB2307)
Rensoul of existing lighting (VA2642-A1)
Examples (Ch 100-150)
Examples | 10 days
7 days
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2010/11/1
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2010/51/4
3012/51/4
3012/51/4
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| Centration of Stilling Bule (Assume Precat Core Blocks)
445-100
Additional Booker Trap
Poothetidge TB02 (Ch 150)
Construction of Abstances A (LHS)
Construction of decking
Pactor and decking
Removal of existing liphing (VA2642-A1)
River Bol formation (Ch 100-150)
Econvision | 7 days
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5 days
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10 class
7 arcs
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12 days
12 days
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2010/11/1
2010/11/1
3012/5/14
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| Centration of Stilling Bule (Assume Precat Core Blocks)
445-100
Additional Booker Trap
Poothetidge TB02 (Ch 150)
Construction of Abstances A (LHS)
Construction of decking
Pactor and decking
Removal of existing liphing (VA2642-A1)
River Bol formation (Ch 100-150)
Econvision | 7 days
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10 class
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12 days
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3 | 2010/11/1
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| 45-100 Additional Bouider Trap Poolenidge TB02 (Ch. 150) Construction of Abstances A (LHS) Construction of decking Bost to acc decide(1 + tree, deck You Answer() Leck Instang, Policy resultation (CB2303) Policy Installation (CB2303) Policy Installation (CB2303) Policy Installation (CB2303) Reserval of existing liphting (VA2642-A1) River Bod formation (CB 100-150) Excention | 490 days
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2012/919

 | 2012/5/23
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1286
1386
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1381 |

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| Additional Boulder Trap Poolntidge TB02 (Ch. 150) Construction of Abstract A (LHS) Construction of decking Post a set decking P | 180 days
490 days
23 days
14 days
1 days
0 days
0 days
1 days
23 days
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12 days
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| Additional Boulder Trap Poolntidge TB02 (Ch. 150) Construction of Abstract A (LHS) Construction of decking Post a set decking P | 180 days
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| Pootbridge TB02 (Ch. 150)
Countraction of Abstract A (LHS)
Construction of Abstract A (LHS)
Construction of Abstract A
State of Abstract A
State of Abstract A
State of Abstract A
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Lock Institute
Identification (Ch. 100-150)
Execution | 480 days
23 days
14 days
5 days
10 class
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7 days
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3012/51/4
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 | 2012/5/23
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| Construction of Abstract A (LHS) Construction of docking final to of docking final to of docking final to of docking final to observe a lock functing final to be abstract for the observe a lock functing final to be abstract for the observe a lock functing final to be abstract for the observe a lock for the observe a loc | 23 days
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 | 2010/11/23
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2615/9/67
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| Construction of Abstract A (LHS) Construction of docking final to of docking final to of docking final to of docking final to observe a lock functing final to be abstract for the observe a lock functing final to be abstract for the observe a lock functing final to be abstract for the observe a lock for the observe a loc | 23 days
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Status of the status of the st | 14 days
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2 days
2 days
3 days
51 days
12 days
12 days
6 days
30 days | 3012/5/14
701.05/14
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263.5927
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| Gabion Wall construction (Ch 150-178 LHS) | 10 days | 2011/10/15

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395	Backfilling	4 days	2011/11/21	2011/11/24			t			÷		1		-			T I		12 2 2	11	11
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1397	Footbridge TB03 (Ch 200)	116 days	2011/10/24	2012/3/13			t I		-,	÷						1			1222	5.5	11
1398	Construction of Abstrant B (RHS)	41 days	2011/10/24	2011/12/9			+		-,	1				· · ·	· · ·	i ų			1	6.5	33
		21 days	2011/10/24	2011/11/16			+	·		1	-,					1		[-] -		6.5	Ī
1400	Excavation and Blinding, temp work. Formwork and rebar foring of base slab	7 days	2011/11/17	2011/11/24	3	t	+	1	-,	ī			7	· -, -		1 ° ['	ΓT.	111	1		77
1401		L day	2011/11/25	2011/11/25				·				i	7 T T	·		1 °	11		1	с -	- T
1402	Cogesting of best slab	the second se	2011/11/26	2011/11/28	A CONTRACTOR OF A CONTRACTOR O		+	i		7	n		7 - 7			0.1	T I	11	1	r -	יר
1403	Stripping off formwork	2 days	Address of the second sec	2011/12/0			+	r		7			r	- n -	,	1." "		11-	1		י ה
1404	Reber fining and shuttering formwork for column	7 days	2011/11/29	2011/12/0		+	+	л = = I		r		1		- 1 -		3.1	12	11-1	1	I	11.7
1405	Concreting	l day	2011/12/7	2011/12/		+	+			F		1					i i	1-1-1		1	
1406	Stripping off forstwork	2 days	2011/12/8				+			$r \sim r$			• - •	-1-	1	* * je	éb †		1	(11 *
1407	Construction of Decking (TB03)	34 days	2011/11/17	2011/12/28		+	+				-1	(4 y y	-1	!	ч-P	₩T †		1	i	11 *
1408	Medilaanse af US what ap	Saw	2015/04/2	50.01513			+			+		$b_{-1} = \dots = b_{-1}$	÷	-1-	!	4	間上	1-1-1		1 ₁ =	
1409	linuaria of seni detse they divit	4 d.08	2011/12/10	26.91304			4	d 6		L = -		t	۱ ·	-1-	~ - '	4 - -	- 17 - 1	- Hit			
1410	Ovel tink bing	10 days:	3011/12/15	35,1(1:25			+			÷	2	1	1		'	u . -	· It i	- H-H-			14 4
1411	kéing istelbuirs	3 dans	2012/12/15	20.17120			1	ا		L	2	1	L		'	u - I-	· <u>n</u>	-1-		- L - L	H *
1412	Lighting at Footbridge TB03	27 days	2011/12/17	2012/1/20			1	J		1	1	1 ·	1	' .	'	9 - 1-	· 🔽	-1-	1	14 a 1	14 -
1413	Construction of Drawpits / Ductings	12 days	2011/12/17	2012/1/3			1	1		1	1	۰ <u> </u>	1	! -	1	9 - I-	間		1	14 A.	14 -
1414	Public lighting Installation (CE2321)	6 days	2012/1/4	2012/1/10	1413		1	1	-'	1	1	1 ₋	1	! .		9	- [문]	- - -			4 4
1415	Public lighting Installation (CE2322)	6 days	2012/1/11	2012/1/17	1414		1	1	-'	1	11		1	' .		9		- - -	[14 -
1416	T&C	1 day	2012/1/18	2012/1/18	1415	1	Τ	1		1		·	·	! .		9 . J.	.[]6]		1	· '	4 4
1417	Renoval of existing lighting (VA1309-Z1)	2 days	2012/1/19	2012/1/20	1416	1	1	1		1	t	·	<u> </u>			9 . I.	. [][]		1	·	44
1418	Step 1 (Ch 178)	25 days	2012/2/2	2012/3/1			7			1.1.1	-,	1	4	1		2.1		1.		·	1.1.2
1419	River Bed fermation (Ch178-205)	5 days	2012/2/2	2012/2/	1428	1		7					4			2.1	11.6		1		1.1
1420	Construction of Step 1 (Assuran Mass Concrete)	10 days	2012/2/8	2012/2/1	8 1419	1	+	1		ī	2.2.2.2		T			9.1	11.1		1		- 2
1421	Construction of Stilling Basin (Assume Precast Conc Blocka)	10 days	2012/2/20	2012/3/			+	7		ř	5 F F F		7			0.1		601	1	·	11.1
1422	River Bed formation (Ch 150-178)	10 days	2012/3/2	2012/3/13	the second		+	<u>٦</u>		7	2.1.2.2	1	r			0.1	TF 1		12.2.2	, F	11.
1422	Place Oxbion pistness	10 days	2012/3/2	2012/3/1	A REAL PROPERTY AND ADDRESS OF THE OWNER.		+	n					r - ·			ירי ר י	171	PET	17		0.1
1423	Pare Grand Parent	20 0805	60 P M - 1 M				+	л		· · · ·	-		r - ·	, -		· • • •	-1r I		1	1	11
	Gabion Wall (Ch 178-222 RHS) TG1/TG1A	40 days	2011/12/10	2012/2/1				r					+	-,-		1 - 1	-		1	1r	17.7
1425		25 days	2011/12/10	2012/1/1	the second	+	+	-+		+			+	1 -			RJ				11:
1426	Excavation and fermation		and the second se		/ 1426FS-20 cdays		+		-1		-1	(•	-1-		14 -	111	· - -	1		11 1
1427	Construction of Gabion Wall (Ch 178-210 RHS)	25 days	2011/12/23	2012/2/	the second se		+			· ·		1	· · ·	! -		·4 - ·		· []-	1		11.1
1428	Backálling	4 days	2012/1/28	2012/2	1 1421		+	h		· ·		1	A	! -		·	- * '	· hi ·	1	, i=	11.1
1429			10000	4010.000			+	۔ ۔ ل			2	1	± = .	! -		u	16	phi-	[H f
1430	Lighting CH 175-250	21 days	2012/2/3	2012/2/27			+	J	-'		2 a a a	1	±	! -		9 -	-147	5-1-1	[Нđ
1431	Construction of Drawpits / Ductings	12 days	2012/2/3	2012/2/1			+	3	-'			·	L			9 - P	-1-7	t:l-	[- E -	Н÷
1432	Public lighting Installation (CE2319)	6 days	2012/2/17	2012/2/2			4	1		1	1	·	L	! -		9 - 1	- - }	¥1-1-	[- in -	Н÷
1433	Public lighting Installation (CE2320)	6 days	2012/2/17	2012/2/2			+	1	-'	. i	2	·	1	' -		9		 -	[H÷
1434	Public lighting Installation (CE2323)	6 days	2012/2/17	2012/2/2			+	1	-'		2	·	<u> </u>	' -		2		<u>+</u>	[(h. 1)	Н÷
1435	Public lighting Installation (CE2324)	6 daya	2012/2/17	2012/2/2			1	1	-'			·	1	' -		2 - 1	-1-1	¥-!-	[de el	Н÷
1436	T&C	1 day	2012/2/24	2012/2/3			1	1	-'		1	·	÷	' .		2	- 1 4	} -∣-	[de el	Н÷
1437	Removal of enisting lighting (VE2641-A1)	2 days	2012/2/25	2012/2/2	the second second second second		1					1	÷	' .		1 - 1	-1-1	+ -1-	{	4.4	14 -
1438	Removal of existing lighting (VA1310-A1)	2 days	2012/2/25	2012/2/2	7 1436			1					÷	' .		2 - I-	11	-	{	de el	H
1439					1		[]	1			1						11.		<u> </u>	. (a. a.	Н,
1440	Ch-2345	613 days	2010/8/30	2012/8/1	5		[1					1.7								н:
[44]	Retaining Wall at Access D (Boalder Time)	41 days	2010/9/1	2010/10/11	1	1	1	٦ r	-,				19			I		. .	[14.3
1461	Filling Work at Boulder Trap (RHS of downstream)	6 days	2010/8/30	2010/9/4	1	1	1		-,		·		1	-1-							11 :
1463	Dwarf Wall (Ch 60-75) RHS	23 days	2011/10/3	2011/10/25		1		-ı	-,	r									1		111
1463	Exavation and Binding	4 days	2011/10/3	2011/10/												. 6					117
	Fernswork and gebar fixing of base slab	5 6835	2011/10/8	2011/10/1				-1	- !												Ľ
1465	Letteredit and story intelling of page 2140.	5 0495	2010/00/0								~*										
									RICE ROOM	100000	總明研約			-							
(autorial)	Aaster Prog (Aug10-Apr1 任務 EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		上類型任務		上類型進度			部任務	Philipping	1010101000		,		•							
	NAME FIND CONTRACTOR		上副型里程碑 🛇		分割			来的要	and the second designed as	TO BE & LOW MERSON	相思										

BC(VAR	任務名稱	工橋	開始時間	完成時間	前置任務	賣加名橋		2008年		200945		2010年		2011年		2012	拜		2013年	
取为题	任務名柄	1.40	persected	2014/04/14	AS BLOOM	Aucon	E2	120004	H2	HI	H2	El	H2	HI	· H2	1 1	H1	H2	RI	
466	Concessing of base slub	1 day	20)1//0/14	2011/10/14	1465			and the second second		1	and differences	1		1		1 5		1	6 a 1/	1 -
467	Stripping of forework	1 day	2011/10/15	2011/10/15				<u>(</u>						1	- 6 - 6			,	6.017	111
		5 days	2011/10/17	2011/10/23				1		÷					- i - i			,	7	1.1
1468	Rebur fixing and shuttering formwork for column	· · · · · · · · · · · · · · · · · · ·	2011/10/22	2011/10/23						÷					6	111		,		17.7
1469	Concreting	l day		2011/10/24	A REAL PROPERTY OF	-				÷					- 6 - 1	•	-1-1	,		7.7
1470	Stripping off femwork	1 day	2011/10/24							÷					- 6 -	t	hi-	/	e - 11	7.7
1471	Backfil	S days	2011/10/25	2011/10/25	1470			(÷					- 6 - e	ш.: -	11-1	i	c = 1	7 7
1472	Box Culvert 03 (Ch 45)	31 days	2011/10/31	2011/12/5										(- d - N	1 - T		$=$ $=$ \sim $_{f}$	c = 12	7 -
1473	Construction of Base Slab	21 days	2011/10/31	2011/11/23				·			() ·		(I	- 6 - D	17 -	-1-1	r = r	e - 14	τ -
1474	Remove boulder and wire feace	5 days	2011/10/31	2011/11/4								;		(i	- 6 -	똵	-1-		e	
1475	Excevation and Blinding	7 days	2011/11/5	2011/11/12											- 13 - 1	₩			e - 14	
[476	Formwerk and polar lining	5 days	2011/11/14	2011/11/18	1475			2							- m - I	H			in - 1-	
1477	Concerting	1 day	2011/11/19	2011/11/19	1476											.			i 14	
1478	Supplag off formwork	3 days	2011/11/21	2011/11/23	1477											h			F	
1479	Construction of Wall Stem and Top Slab	10 days	2011/11/24	2011/12/5												Ψ.			in a lé	
1480	Formwork and rebur fizing	4 days	2011/11/24	2011/11/28	1478	1		4								E	[]]			
	the local state was the second of the second of the second of the second s	Lday	2011/11/29	2011/11/25												-E -				
1481	Coecreting	5 days	2011/11/30	2011/12/							:	!				- 17				1.1
1482	Stripping off formwork	322 days	2011/7/18	2012/8/15				J = = .		L	(· · ·	مند ش	-11-1	-	• •	2.11	17.
1483	Retaining Wall at Access D (Boulder Trap)			2012/6/26				J =		1	·	·			- 78 -	-16 -	in the second	r i	2.11	1.1
1484	Retaining Wall (LHS)	49 days	2012/4/27					J = = -		1	! -			(n. 1)	- 2 1	- 5 -	hêt	'	는 네네	11.
1485	Excavation and blinding	14 days	2012/4/27	2012/5/11				1		1		·		(- 2 - 1	- 5 -		'	는 아님	1÷-
1486	Construction of Base Slab, Bay 2	8 days	2012/5/16	2012/5/24			÷	1		1				é e le l	- 3 - 1		- 11	'	는 네네	1 -
1487	Formwork and rebar fitting	4 days	2012/5/16	2012/5/19				1	· · · · ·	1	!			6 e	- 2 -		- 51		(* * †	4÷-
488 -	Concreting	1 day	2012/5/21	2012/5/2			1	1		·	!				- '	-1	- 1		5 - F	4
1489	Stripping off formwork	3 days	2012/5/22	2012/5/2/	1438	L.	1	Ϊ	·	·	·	·					<u>_ h</u>	'		44.4
490	Construction of Base Slab, Bay 1	8 days	2012/5/25	2012/6/2		1		2.2.2.				·						'	ia a k	44
491	Formwork and rebar fixing	4 days	2012/5/25	2012/5/2	1439	1		<u> </u>		ī		· · · ·		·		1	토탈		* 	11.
1492	Concreting	1 day	2012/5/30	2012/5/9	1491			·		1					- <u>n</u> _	1				11.
1493	Swipping off formwork	3 days	2012/5/31	2012/6/	1492				-,	7					- n -	1	L 67			11.
1494	Construction of Wall Stern, Bay 2	8 days	2012/5/4	2012/6/13			+	·		r	·			·,	- 0 - 1		12			1.
1495	Fernivork and other fitting	4 days	2012/5/4	2012/6/			+	η ·		r					- n -	- r -	ΓŒ		/	
		1 days	2012/5/8	2012/64				·		r						- T -	r a			1
1496	Cosoreting	and the second sec	2012/6/9	2012/5/12					-1	7		i- = =			- 14 -	- 7 -	1 1	;	1	1.1.1
1497	Stripping off Senswork	3 daya		2012/6/2/	1					+		L	• •	-1	- 14 -	- + -	1 🗮	p = - '	i=	1 * *
1498	Construction of Wall Stem, Bay 1	11 days	2012/6/13	Los had service as an other service and			+	4		* •		t		4	- 14 -	- +	- 팥			1*-
1499	Fernwork and rebur fining	4 days	2012/6/13	2012/6/1						k = -		t=		1-	- 14 -	- + -	나 🕆	/		1 * *
1500	Concruting	1 day	2012/5/18	2012/6/1				J		L = -		1	L		- 14 - [나 왕	·	L = -	4 -
1501	Stipping off formwork	3 days	2012/6/19	2012/6/2			1	1 1	· · · ·	1	1	1		· - ·	- 12 -		나 문	f=		4 -
1502	Backfill the Retaining Wall	3 days	2012/6/22	2012/6/9			L	3			1	Sec 1		·	- 2	م ال	<u> </u>		5	14.0
1503	Vehicular Access D	322 days	2011/7/18	2012/8/1	i l	1			· · · ·	1		1		1.0.0	- 1-1	- 4 -	ľ	.	5 m -	1.
1504	Read Kerb and formation	64 days	2011/7/18	2011/9/3			F	1	1			A		1	التشارين ا	- 1 -	1. 4	k	L	42.
1505	Pasencol	30 days	2012/6/27	2012/8/	1368,1502	1	·	1		1		1			- 9 - 1	- 1	L F	b	1	11.
1506	Railing and street furniture	12 days	2012/8/2	2012/8/1	5 1505	1	t 1	1						,		1		5	1	11.
1507	Lighting at Access D	124 days	2011/10/24	2012/3/2			1 1	1							1.1				1	11.
1508	Construction of Descripts / Ductings	21 days	2011/10/24	2011/11/1	the second		1	· · · ·			· · · ·					877	F -		6.5	11.
	Public Sighting Installation (CE2300)	3 days	2012/3/14	2012/3/1			+			7	· · · ·	· · · ·	7		- ü - 1	e	1 -		I	111
1509		3 days	2012/3/14	2012/3/1			+			·				· · ·	10.1		11 -		· · · ·	17.7
1510	Public lighting Installation (CE2301)		and the second sec	2012/3/1				5		7	5 C C C			1.1.1	10.1		征下		e - [1	111
1511	Public Egining Installation (CE2302)	3 dzys	2012/3/14		the second secon		+	5	-,		5 - C -		r	1.1.1	n n 1		1 -		e e la	1 7 7
1512	TAC	1 day	2012/3/17	2012/3/1					- ,					5 C C	- n - I	- ų -	1 - I		e e b	1 7 7
1513	Removal of existing lighting (VAI278-AI)	2 days	2012/3/19	2012/3/2			↓ I							· · ·			*		(* * ·	
1514	Removal of existing lighting (VA1279-A1)	2 days	2042/3/21	2012/3/2	1513									r			·		I-	
1515								·							- 4-				1	
1516	Ch 350-450	436 days?	2011/1/3	2012/6/1	1				-					Y			1		l	<u> </u>
																	_			
	任務	•	LANGTER E-3		上新型速度		外	05.0178	12 Million of the		扬受群组	-	_							
	Master Prog (Aug10-Apr1						_		Providence of			ŗ,								
	1/106 重度 据要		E厢型果松碑 🔷		分割		10.1	素摘要	-		葉展	-7								

10.01	だみを経	工用	開始時間	完成時間	前置任務	資源名牌		2008年	1	2009年		2010年		2011	Ā.	20)12年		. 20	313年	
antijeş	任務名稱	TH	540 (M/m 1/m)	Management	SALE OF	-	H2	H1	H2.	HI	H2	HI	112	H		12	H:	E	12	н	1
1517	Gabion Wall (Ca 350-400 LHS) TRI (AD)	42 days	2011/10/27	2011/12/14		1		1 1				1	1						5	- 1-	1 -
1518	Remove Concrete block and shotkrete	7 days	2011/10/27	2011/11/3	1917	6.2	t · · ·					í	1		- 19	6.2				- 14	1 -
1519	Encovation and Ponention	30 days	2011/31/3	2011/12/5	1518FS-3 cdays		t	· ",						1.1	19	De .	ΞΕ.	1.	!.	- 1-1	1
1520	Laying concrete blocks and gabion blocks	23 days	2013/11/12	2011/12/9	1519FS-20 days	1	+	·,	;				7	· · ·		112	- F .	200			1 .
1520	Backfilling	5 days	2011/12/9	2011/12/14			+	,					7	-,		ITF '		<u>````</u>			11.
	Gabion Wall (Ch 400-450 LHS) TR1 (AD)	46 days	2011/12/9	2012/2/7			+	· · · · ·					7		- A 1	100	11-	<u>.</u>		- 11	17-
1522		7 days	2011/12/9	2011/12/16			+	i,					7	-1	10.0	14		· · ·	c	- 11	1 7 7
1523	Remove Concrete block and shekecie	and a second s			1523FS-3 edays		÷	i,					T	·	1.0.0	t B.		· · · ·		- 1	1 -
1524	Excavation and Persention	30 days	2011/12/14		1523FS-3 eulys 1524FS-20 edays		÷	· · · · ,					7	-,	1 n n 1	나 답	<u>-</u>	· · · ·	C.	- 11	1 -
1525	Laying concerte blocks and gabien blocks	23 days	2012/1/3				+	·,		÷				- · · ·		计拧	El			- 11	1.7
1526	Backfilling	5 days	2012/2/2	2012/2/7			4									11.14	GUL -	a		- 1-	2.5
1527	River Bed formation (Ch 350-400)	436 days?	2011/1/3	2012/6/13			4				. – – is	1	÷'	- T	1-1 -	HF	拼	r ,			
1528	Placing Grade 500 toe Stone	14 days	2012/3/21	2012/4/10	1525,1304		1	e I				1		-1		- 4 6	կեղ -	-1	:-	- 14	
1529		1					1							-1	- 14 -	-	H.d.	4	1-	- 14	į e e
1530	Footbridge 7B06 (Ch 400)	149 days?	2011/12/9	2012/6/13									1.1.1	-1		1.1	비니다	ň.,	1-	- 14	1 4 -
1531	Construction of Abutment A (LHS)	30 days	2011/12/9	2012/1/16		· .	[]]							-1 - 3			144.	- 1 - I -			4.
1532	Remove Concrete block and shotcrete	3 days	2011/12/9	2011/12/12	1520	1	T					J				115	44.	-*		- 14	1.
1533	Excavation and Blinding	10 days	2011/12/13	2011/12/23	1532	1	t									_ lb	81.	. · · ·		- 14	1.
1534	Formwork and rebor fixing of base slab	5 days	2011/12/24	2011/12/31	1533		1 1					1		1	14	11 6		1.1			1.
1535	Concruing of base slab	1 day	2012/1/3	2012/1/0			+	()						1 .		116	01:	1	. I.	10	1.
1536	Stripping off formwork	2 days	2012/14	2012/1/5			1		* * * * *				7.7.7			11 6	Л1:		1		1
		5 days	2012/1.6	2012/1/11		-j	+	()	:							11 1	111	· · ·		- 17	17.7
1537	Rober fixing and shuttering foretwork for column		2012/1/12:	2012/1/12		+	+	()				(* * * *	1			116	111	-, - ·		- 11	17.7
1536	Concreting	1 day		2012/1/16			÷	()				(* * * *			- 6	11 7	11 1 -	57.1		- 1	1.7
1539	Suripping off formwork	3 days	2012/1/13	2012/4/26			+	()	:		(A -	417	ر فر ا	-, - ·		- 11	1.7
1540	Construction of decking	14 days	2012/4/11				4	(÷)			(·	7	- je -		itt.	17	-, - ·		- 11	7.1
1541	Erection - 6 there device come deals	4 2 10 1	2012/07/2	2912-914			+	()			(i		÷			신하는	비불	-,			1.1
1542	Dech. Faratione	10 1995	30124416	2512.404	and the second se		l							-i		신험	HAR:	in '	c		1.1
1543	N	9 d.p.s	· 301.28014	2012-01-									÷			di ÷	131	<u>44</u>			1.1
1544	Failing activitions	2.3+3:	2012/4716	2012/497	4541				!				1			4.	нш.			- 1-	
1545	Lighting at Footbridge TB06	14 days	2012/4/16	2012/5/3	1	1	T	1 !										-1 -			
1546	Construction of Drawyits / Ductings	6 days	2012/4/16	2012/4/23	1541	1	T	י <u>י</u> ייי								. 11 .	11 堤.			- 1-	
1547	Public lighting Installation (CE2311)	3 days	2012/4/23	2012/4/25	1546	1	t									11.	U.S.	-		- 11	l
1548	Public lighting Installation 6(E2310)	3 days	2012/4/25	2012/4/30	1547			1									L B			- 14	
1549	TAC	2 datas	2012/5/2	2012/5/	11548	1	+										0 10			_]]	
1550	Demolition of Bridge TB-C	4 days?	2012/4/27	2012/5/3			t ·		>						!-	11.	19	<u></u>		- 17	
1350	Water Pipe Diversion	1 day?	2012/4/27	2012/4/21	1	+	+	4 '			(1			4 -	11	T E			- 17	17.1
	Pedestrian Diversion/Denotifice works	3 days	2012/4/30	2012/5/			+	J '	1		(11 t.	11.1		7	- 17	17.1
1552			2012/5/4	2012/5/13	1		+	J'			(-!-		11 ÷.	11 👾	. - 1		- 1	17.1
1553	Consturction of Gabion Wall at TB-C	35 days	2012/5/4	2012/9/13			+	1'	1		·	· ·	1		2 -	11 1	11 🛣	₹. – I		- 11	171
1554	Excavation and Formation	3 days		2012/5/			+	J ='	L		<u>'</u>	·		!	21 -	- 1 - 1	甘葉	<u>,</u>	2		111
1555	Gabiaa Wall Construction (TBC LHS)	2 days	2012/5/8				4	/'	1			(* * * *			21 -	비는	H - 18	5) - 1	2	- 1	tt:
1556	Backfilling	30 days	2012/5/10	2012/9/13	0000			/'	1		1	(h	÷	(2 -	· H ÷	비귀역	÷	2	- 11	111
1557							4	!'					2	· 📥 ·	2 -	-11-5-	H - I -				1÷ 1
1558	Gabics Wall (Ch 400-450 RHS) TR1 (replaced by AD1)	30 days	2011/1/3	2011/2/1	and the later and property provides and			1'	<u>-</u>				· · · ·		2 -	- le éz	di di s	-1-1			131
1562	Gabion Wall (Ch 400-450 LHS) TR1 (replaced by AD1)	0 days	2012/2/7	2012/2/7		dul 1531	1	!'	1			<u>-</u>	· · · ·	· -' -	2 -	-11-57	113	de l	2		43.
1567	Maintainsace Staiscase (Ch 420 LHS)	77 days	2012/2/3	2012/5/5			L	· '				·	÷		2 -	- 4-5	8 Y	-1-1	2	-	447
1568	Formwark and concreting	4 days	2012/2/3	2012/2/	1526FF								÷			- 14 - 27	₹			- H	44.
1569							1	1				1	· · ·			- -		4.4		[J	44.
1570	Step 5 (Ca 410)	19 days	2012/4/16	2012/5/5		TP3	1	Ŋ,	7				5.5	-1			. 🛡	1		L'	11.
1571	River Bod Formation (Ch400-410)	2 days	2012/4/16	2012/4/11	1541	-	1	· · · ·	7				1.1	_		11	6			- 12	
1572	Construction of Step 5 (Assume Mina Concrete)	10 days	2012/4/18	2012/4/3			1	ъ,						-1-		11	[]6			. I I	
1572	Construction of Solling Busin (Asturne Precast Conc Blocks)	7 days	2012/5/2	2012/5/			t ·	,				· I			1	- [† -	[]6				111
	COMPACIÓN OF SCHING DISTS (ASSANCE FICTURE CONCISIO	1 2403	avia//S	Anges ad Ar			+					1	+	-1-	14	117	111	C	In	- [-	
1574							1	J			*****										Accelera
	任務 [[]][]] ●		上願型任務		上的短途的		(4.2)	erena E	816 0004500		的实际组	-		•							
levised	waster Prog (vug to vigit 1						.,		Contract of Contra		原因	'n,		-							
	1/7/26 進度 単語 検察 🗸		上期提出程碑 🛇		分割		100-0	(調変) 🖣	The state of the second se		Contract of the local sectors	-1.5									

成別的	任務名條	工期	開始時間	完成時間	前置任務	資源名稱		2008年		20094	۶.		2018年		2011年			2012年		2013	
HUJUHI			in the second				El2	Hì	H2	H		H2	Hl	E12	H		H2	H1	H		HI 1
575	River Bed formation (Ch 410-450)	10 days	2012/5/10	2012/5/21	1	TP3		1	!	1	1		1	·		. 2		1.1	4	- '	- 1-1
1576	Placing Grade 500 toe Stone	10 days	2012/5/10	2012/5/21	1573	1				1				1	2	1.12	- 14	1	L	- ¹	
1577	term in a second second with the second s		· · · · · · · · · · · · · · · · · · ·		1	1	F	1		1			C 1 1	·	1	_ !!	- 1	2		- ¹	- [-] 분 -
1578	Box Culvert TB01 (Ch 450)	40 days	2011/3/10	2011/4/29	1	1	r			1				2.2.2	1.5		- 1	1		- <u>'</u>	- 14
1579	Construction of Base Slab	21 days	2011/3/10	2011/4/2	1560			<u> </u>		ī				í			_ []	1			- 14 ÷ -
1584	Construction of Wall Stem and Top Slab	19 days	2011/4/4	2011/4/29	1			·		1					.		- 14	11-			-14 -
1568								٦ ·		1					2	19		<u>'</u>			- 1-1
1589	Drainage & Footpath (Ch350-450) LHS & RHS	45 days	2012/2/2	2012/3/24			r	· · · ·		ī	200		1	F	1		÷Ц.,				- 14
1590	Draininge & Footpath (Ch 350-450) LHS & BHS	45 daya	2012/2/2	2012/3/24	1525		1 1	· ۲	1.2.2.1						2	11	-11	ιGL			- 14 승규
1591		ALCONG THE OWNER PROVIDED AND ADDRESS OF						·			- 2.5						. []				- 14
1592	Lighting at CH 350-380	23 days	2012/3/26	2012/4/25		1	t	n ·		· • ·									'_ - -		- - -
1593	Construction of Drawpits / Ductings	14 days	2012/3/26	2012/4/14	1590													- G		- 1	
1594	Public lighting Installation (CE2312)	7 days	2012/4/16	2012/4/23	1593		1) . k		- -	
1595	T&C	2 days	2012/4/24	2012/4/25	1594		t 1										- 11				- - - ·
1596		1					· · ·														- - -
1597	Ch 450-525	380 days	2011/3/16	2012/6/27			1 1											1	Ξ		- 4 -
1598	Retaining Wall (ch 450-500) TR2 (RHS)	50 days	2011/10/3	2011/11/30		TP4	t						1					4	11.	. L	
1599	Remove Concrete block and shotcrete	7 drys	2011/10/3	2011/10/11	1176	1	t								_		d	4	1		- 14 -
1600	Excavation and Formation	35 days	2011/10/8		15995514 days		t						1		100	1.0	513	1		1	- 1-1-1-
1601	Base Slab Construction Bay 1+2 (RHS)	10 days	2011/10/18	2011/10/28			t	1					1		1	10		1		1	- 11 -
1602	Formwork and rebar fixing	8 days	2011/10/18	2011/10/26	1600SS+10 eday		t	·			, -				111	- i -	ΤH	122		2	11.
1603	Concerting	1 day	2011/10/27	2011/10/27	the second		t		· · · ·							1.0	1 IE.	1		-	111
1604	Suipping off formwork	l day	2011/10/28	2011/10/28			t			÷ ÷ •	, -			7 - 7	-,	1.1	118	ī	-1		113
1605	Wall Stem Construction Bay 1+2 (RHS)	13 days	2011/10/29	2011/11/12			+			1	, -				·,		19	ĩ		7 C (113
1605	Forework and rebar fixing	6 days	2011/10/29	2011/01/4			f	·			- 11			7		10	11	1		- e -	113
1605	Counting	1 day	2011/11/5	2011/116			+				- 51					10	11	7			111
1608	Stripping off formwork	2 days	2011/11/7	2011/11/9			+ I	n	, ·		1.7.1			7		10	117	7	10.0	- 6 -	111
1605	Backfill	4 days	20(1/11/9	2011/11/12			+	n		7 -			· · ·	777		10	111	7		- r -	1 7 7
	Base Sish Construction Bay 2 (RHS) del	0 days	2011/10/28	2011/10/28	1		+	n		- r -			17 7 7	r * -	-,	~ n	14:	28/10			- - - ·
1610		the second se	2011/10/28	2011/10/28			+	л - ⁻ - г		- i -					-1	- 13		28/10		- (
1614	Wall Stem Construction Bay 2 (RHS) del	0 days	2011/10/29	2011/11/9			+	r							-1	- 13	10	ų = -			
1619	Base Slab Construction Bay 3 (RHS)	10 days	and the second sec	2011/11/9			+						1 · · · · ·		-,	- 14	1R	τ		- in .	- 11 *
1620	Fernsvork and other lixing	8 days	2011/10/29	2011/11/2			+	4		- ÷ -				÷	-1	- 14	117	ŧ	1.1	- i= -	- 11 *
1621	Concessing	1 day	2011/11/8				+			- + -				r = =	-1	- 14	11#	•	-1		- -
1622	Supping off formwork] day	2011/11/9	2011/11/5	the second		+		1	- + -				·	-1	- 14	12	1 ⁴ 1	-1		
1623	Wall Stem Construction Bay 3 (RHS)	13 days	2011/11/10	2011/11/24			+	J /	1	- 4			l	L	-1		117	2			- - -
1624	Formwork and sobar fixing	6 days	2011/11/10	2011/11/16			f	J = = 1	1 a				i	L	- ¹	9	귀운	4			- 11 - 11
1625	Concerting	1 day	2011/11/17	2011/11/17			+	J = = -	· • • •		- 2.5		۰	<u>-</u>	-'	9	112	/=		<u>2</u> - 1	- 태 순 :
1625	Supping off formwork	2 days	2011/11/18	2011/11/15			4	1	· · · · ·	- i -	- 2 -		ч. – –	<u>-</u>	- ¹	9	-142	м		<u>-</u>	- H ÷ .
1627	Backfill	4 days	2011/11/21	2011/11/24	And and an and a second s		ļ	.t	· · · ·		- 2.5		<u>د د د</u>	<u></u>		2	-114	1		<u>b</u> -	- H ÷ .
1628	Base Slab Construction Bay 4 (Incl. Step 6)(RHS)	10 days	2011/10/20	2011/10/31			l	1	·	- i -	- 2 -		<u> </u>	<u>-</u>	-1	- 12	- 36	1		}	- H ÷ .
1629	Formwork and other fixing	8 days	2011/10/20		16025542 days			1	· · · · ·		' .		<u>.</u>		-'	- 12	- 11	4		· - !	- H ÷ .
1630	Concering	1 day	2011/10/29	2011/10/25			1	1					<u>.</u>	<u>-</u>		- 1	- 🖗			!	- H ÷ .
1631	Stripping off formwork	1 day	2011/10/31	2011/10/31			L	! ·	· · · ·		- 2 -		·	<u> </u>	-1	- 1	- 14	÷		2	- 14 🗧
1632	Wall Stem Construction Ray 4 (RHS)	13 days	2011/11/1	2011/11/15			1	·	· · · ·	1.1			<u></u>		-1	13	- 🐺			· - (- 14 ÷
1633	Formwork and rebur fixing	6 days	2011/11/1	2011/11/2				1	·						1		- 8	÷		2-	- 14 -
1634	Concerting	1 day	2011/11/8	2011/11/5	1633		1	1									- 4	4			
1635	Stripping off fortuwork	2 days	2011/11/9	2011/11/16			I	7			223						- 14	4			- - -
1636	Baidill	4 days	2011/11/11	2011/11/15	1635		1	r									- []				- [-] -
1637	Base Slab Construction Bay 5 (incl. Step 6) (RHS)	13 days	2011/31/1	2011/11/15			Τ	-1									- 12				- 4 -
1638	Formwork and robar fixing	8 days	2011/11/1	2011/11/5	1631		T	7			_						_ h			1-	
1639	Concerting	1 day	2011/11/10	2011/11/0		1	1										16	1.2.5		1-	
1040							à														
	rent (************************************	•	Leaded to are the second		- more the -			in to at-	0000000	(arrighted)	i ú-	副新聞	_		,						
levised !	Master Prog (Aug10-Apr1) 任務		上戰型任務		上期整選度			印任務	COMPANY	0001541983							-				
1111: 201			landara 🛇		分割		100	家掏葵	100000	a summer	150										

統別務	在孫名爆	工期	開始時間	完成時間	治費任務	資源名儲		2008年		2009年		2010年		20114	£.	201	24		2013年	,
ALC 1R)	IT:18-Date	1.04	PERMIT	Thicken	ALL LAS	Acces	H2	Hi	H2 -	H	H2	Hì	H2	H			ВІ	H2	H1	342
1640	Stripping off formwork	4 days	2011/11/11	2011/11/15	1639	+		1	1.		1	1	1	1		hi.			·	12.00
1641	Wall Stem Construction Bay 5 (RRS)	13 days	2011/11/16	2011/11/30	1		+			1	<u></u>			0.00	10	X :		÷ - =	·	4
1642	Fornwork and reber fixing	6 days	2011/11/16	2011/11/22	1540		1	,		1.1.1	· · ·	1			11	Ь.			·	44
1643	Concreting	1 day	2011/11/23	2011/11/23	1642		† • • ·				7					167 -			1	1
1644	Suipping off formwork	2 days	2011/11/24	2011/11/25			÷ • • •	<u>.</u>		7 7 7	2.5.5				1.1	11E -				1
1645	Backfil	4 days	2011/11/26	2011/11/30			+		• • • • •	ī		10.0.0	7.7.7	- · ·	1.01	10			- "	11
1045	Retaining Wall (ch 450-500) TR2 (LRS)	54 days	2011/11/23	2012/1/31	and the second se	TP4	+	1-1-		7	$\gamma \sim \gamma$		7 ~ 7		10.1	لينتن			C 1	11
1647		7 days	2011/12/2		1649\$\$-7 ediys		+	h	·	ī	-,		7	-,	10.1				C - 1	1111
	Demolition of House 2 She Po Tsai		2011/11/23	2011/12/			+	·		r	n,		7 - 1	2.2.2	10.1	llittir −	}		F	1 2 2 2
1648	Excavation and Formation for TR2 Bay 1 to Bay 3	j4 days j	and the second sec	2011/12/24			+			T	-,		r	-1	- 0 -	1151 -	·)		c = [1 7
1649	Excavation and Formation for TR2 Bay 4 to Bay 5	14 days	2011/12/9			<u> </u>	+			r	-,	- 1	r	-1		14 -		7	E	1 * * *
1650	Base Slab Construction Bay 1+2 (LHS)	10 days	2011/12/6	2011/12/16			+			- i -		- 1		-1	- 11 -	- 11				1 * * *
1651	Formwork and rebar fixing (with DWF)	8 days	2011/12/6		1648FS-3 days					+	-1			-1	- 14 -	18 -	· • -		j= -	1 * * *
1652	Concreting	1 day	2011/12/15	2011/12/15			4						÷	-i	- 14 -	14.98 -	·	- $ -$	i	4 * * *
1653	Suipping off formwork	l day	2011/12/16	2011/12/16			L			+	-1	- 1	L	-1	- 14 -	11 -	·		i	4 * * *
1654	Wall Stem Construction Bay 1+2 (LHS)	11 days	2011/12/17	2011/12/31		1				+	2	- 1	L	-1	- 14 -	1			L -	4 4 4 4
1655	Formwork and rober fixing	5 days	2011/12/17	2011/12/22		1	Ľ			÷	2		L	-1	- 14 -	내봤니		(- - - - - - - - - - - - -	6.2	- 4 - 2
1655	Concreting	1 day	2011/12/23	2011/12/23		1				L	2.5.5	- 1	1	-l	. u .	∦∦			1	- 4 - s
1657	Stripping off formwork	1 day	2011/12/24	2011/12/26	1656	1	[·		1		2.5.5		1			U 🖡 -		1	i	4 4 4 4
1658	Backfill	4 days	2011/12/28	2011/12/31	1657		1	1		1	2.2.2	1	L	_+		H.A			5.1	1
1659	Base Slab Construction Bay 2 (LHS) del	0 days	2011/12/16	2011/12/16	6	-	1	1			7.7.7		1.1	+		10	5/12		2.1	44
1663	Wall Stem Construction Bay 2 (LHS) de!	0 days	2011/12/16	2011/12/16		1	1			,		- i - i - i		1	. 9 .	10	5/12		·	11 -
1666	Base Siab Construction Bay 3 (LHS)	10 days	2011/12/31	2012/1/12			·† ·				-,	-,		-,		19			1	1.1
1669	Formwork and rebor fixing (with DWP)	8 days	2011/12/31	2012/1/0	1648,1680		1 1	1-2-			-,					11 L				111
1670	Coexiting	1 day	2012/1/11	2012/1/1			t · · ·		1000		-,			-,		11 E			I	1111
1671	Stripping off foreswork	1 day	2012/1/12	2012/1/12		A	+			1	-,		7 5 5	· · ·	- n -	11		"		1111
1672	Wall Stem Construction Bay 3 (LHS)	11 days	2012/1/13	2012/1/28			+		10 C C	7	-,		ī	201	- 1	1 🖤	r}		0.01	1 7 7 1
1673	Ferniveik and ether fixing	5 days	2012/1/13		3 1671.1684		+			ī	-,		7		1.0	17			0.01	1 7 7 1
1674		1 day	2012/1/19	2012/1/19				n	10 Q P	÷	2.2.2	- (* * * *			100	1 1			0.01	1 1 1 1
	Coacteting	and the state of t	2012/1/20	2012/1/2			+	-j		7	$\gamma = -$	- (- רי -	111			r - 1	1 7 7 7
1675	Stripping off Sanawook	1 day	2012/1/21	2012/1/2			+			÷	$-\gamma_{1}=-\gamma_{2}$			712.3	1.12	it 👎			r = 1	dir ti
1675	Backfill	4 days		2011/12/30			+			$\gamma = -$				- 1	- 19 -	• اندا ا				d • • •
1677	Base Slab Construction Bay 4 (incl. Step 6)(LHS)	10 days	2011/12/17				+	4		+		- 1		-1	- 19 -				F -	1 * * *
1678	Formwork and rebar fixing (with DWF)	8 days	2011/12/17		8 16498S+7 days			4						-1		11781-			1	d * * *
1679	Concesting	1 day	2011/12/29	2011/12/28		4	+	4		+			۰	-1	- 14 -	{ 욺-			h= -	레스크레
1680	Stripping off formwork	1 day	2011/12/30	2011/12/3			+	4	de ele	$h_{1}=1$			L	$-\delta = -\epsilon$		- 🖳 -			L	el * - 1
1681	Wall Stem Construction Bay 4 (LHS)	11 days	2011/12/31	2012/1/13		1	+			÷	2	l= = =	L = -	-1	4 .	1. 1			Ч н.	에 속 두 ?
1682	Formwork and sebar fixing	5 days	2011/12/31	2012/14				ل			1.1.1		1	- I. I. I.	9	勝・			l_ =	e 4 - 1
1683	Concreting	1 day :	2012/1/7	2012/1/				J		1	1.000	. t	1	1	9 .	₩-			1 <u> </u>	e 4 - 1
1684	Supping off formwork	1 day	2012/1/9	2012/14		1		J		1	1.00	- t	1	1.00	13	↓ ≱-			¹ = -	
1685	Backfill	4 days	2012/1/10	2012/1/1				1	·		2.5.5		1	1	9 -	11.41		1	5	H 4 - 1
1685	Base Slab Construction Bay 5 (Incl. Step 6) (LHS)	12 days	2011/12/31	2012/1/14						1	2	- ¹	1	-! - ·	9				5 1	44-1
1687	Formwork and rebar fixing (with DWF)	7 days	2011/12/31	2012/14	9 1649,1680	1	T			1.1	2	· · · · ·	·		9	購.			1	4 4 -
1688	Concreting	1 day	2012/1/10	2042/1/10	1687		T	1	· .	1		1	·		'! .	日 巣			5 al	
1689	Supping off Jontwork	4 days	2012/1/11	2012/1/1	1688	1	T	1		1	200	1				日北			' I	
1690	Wall Stem Construction Bay 5 (LHS)	12 days	2012/1/16	2012/1/31	L		T	1		1	2.5.5	1				1. 🔜			·	
1691	Formwork and rebar fixing	5 days	2012/1/16	2012/1/20	1689			1 1 1 1		3	· · · ·					1.14			·	
1692	Concesting	1 day	2012/3/21	2012/1/2	1691			1 • • •		7			· · ·		- 0 -	1121				
1693	Supping off foreswork	l day	2012/1/26	2012/1/2				٦- - -	- ,		-,		r	- · · ·	1.0.1	11 16				011
1694	Backfill	4 days	2012/1/27	2012/1/3			+	л	-,	7	-,	- 1	r			11 16		12.2.7	I	011)
1695		1.0495	1.0.0				+	n		r		- 1		-1	- r·	ון דו		1	1	111
1695	Drainage & Footpath (Ch 450-490 RRS)	1 day	2012/5/2	2012/5/2	ē	+	+				-,	- 1	÷	-1 - 7		11 T II	U			111
1695	Censinger & Poolpain (Ch 450-490 KHS) Censingtion of drainage & footpath	1 day	2012/5/2	2012/50			+			g		- 1	+	-1		11 11	1 í I	1	[* *	111
1031	Constantiou or gampate & roothers	1 GIŲ	DTIMNE	2014/34				-6								للمدرقة			almost and	
		•							mmercent	Martin Landa	Elevel and			-						
Revisor	Master Prog (Aug10-Apr1 任務 EEEEEEEE 出經碑	• .	L 職型任務		上航带建度		外部	昭任裔		HOSPITCH	搞受群组			•						
日期 201	With the 编辑		E擬型型程碑 🛇		分割		專出	新演奏	Observan	annes de la companya	期限	宁								

			Revised Ma	-			Apr 20	_	ev (16)			00000		301157	_	2012	é.		2013年	_
別問	任務名稱	工刻	開始時間	完成時間	前置任務	資源名稱	H2	2008年 H1	H2	2009.95 E1		2010年 HI	112	201.1年 H1	H2			H2	H	
698	Retaining Wall (Ch 500-530) TR3 (RHS)	290 days	2011/3/16	2012/3/6						4			<u>1</u> - 1		- 3 - 1	1 H		5	· - -	ŀ
1699	Base Slab Construction Bay 1 (ircl. Step 7) (RHS)	28 days	2011/3/16	2011/4/18					-1	- <u>-</u>						t th		}	·	11
1704	Wall Stear Coastruction Bay 1 (RHS)	10 days 20 days	2011/4/19 2012/2/1	2011/5/3 2012/2/23		TP4								-1- X	5 G - I	1 🍅		;	· - -	11
1709	Base Slab Construction Bay 2 (incl. Step 7)(RHS) Excession and Fermation	20 days 12 days	2012/2/1		1994.1685	11.4			-;					-j	141	1		,	· - •	1
1710	Excerning and remaining Formwork and rebit fixing	6 days	2012/2/15	2012/2/21									7	-,	10.1	1 L				1
1712	Concreting	1 day	2012/2/22	2012/2/22					-,		·			-,	- 0 T	TE	3.1	1111		11
1713	Stringing off somwork	1 day	2012/2/23	2012/2/23					- ,	177				200	12.1	116		5		_
1714	Wall Stem Construction Bay 2 (RHS)	10 days	2012/2/24	2012/3/6									1		- 2 - 1	119	÷	2	k	4
1715	Fornwork and other fixing	4 days	2012/2/24	2012/2/28	1713	1									- S - I	F			k	-
1716	Concreting	- l day	2012/2/29	2012/2/29	A CONTRACTOR OF A CONTRACTOR O											4 - A	⊧		k	4
1717	Stripping off formwork	1 day	2012/3/1	2012/3/3		· · ·				- +				-1	- 14 -	1 • 1			• • •	1
1718	Backfil	4 days	2012/3/2	2012/3/6	1717				-1	- +		- 1	+ ,	-1	- 14 -	+ + -{			ŀ	1
1719			0011000	20110-0		175						- 1	L	-1	- 14 🚽	1 + -		1		1
1720	Cascades (Ch 500 LHS)	28 days	2011/10/3	20(1/11/4		119						- !	÷	-1	- 9 - 7	1 1		ŀ		11
1721	Water Diversion	7 days 7 days	2011/10/3	2011/00/11 2011/10/15		· · · · · · · · · · · · · · · · · · ·							1.1.1	-!	- 11 - 1	1 1 1				1
1722	Eacasystem Formwork and relier fixing	12 days	2011/10/20	2011/11/2				!		- 1	· -!			-!	- 2 - 1	1			-	1
1723	Concreting	1 day	2011/11/3	2011/11/2				!	- :		1177		1 T T T		- 3 -	1 11				1
1725	Stripping off formwork	1 day	2011/11/4	2011/11/4	A DISTANCE CONTRACTOR				-1							111		7777		1
1726	output on manyor														· · ·	1:1			1 E F	1
1727	Retaining Wall (Ch 500-530) TR3 (LHS)	55 days	2011/11/4	2012/1/10					·				7 7 7	7.7.7	- G - E			3000]
1728	Base Slab Construction Bay 1 (incl. Step 7)(J.HS)	18 days	2011/11/4	2011/11/24	and the second second second second			6							19.1			1111		1
1729	Remove Concrete Block and shotcente	4 days	2011/11/4	2011/11/5	1724	TP5		,			,	10.00	1.1.1		19	115		!	1	4
1730	Encrystion & blinding	6 days	2011/11/8	2011/11/14	1729PS-2 days						222					₽. I				4
1731	Formwork and rebar fixing (with DWF)	7 days	2011/11/15	2011/11/25	2 1730		[]]]		12.2						- 5 -			}		4
1732	Concreting	1 day	2011/11/23	2011/11/23				· ·					÷		- 6 -			2		rt.
1733	Skripping off formwork	1 day	2013/11/24	2011/11/24			1								- 6 -	₩-1				rt.
1734	Wall Stem Construction Bay 1 (LHS)	10 days	2011/11/25	2011/12/6			L				,		r	-1		T -		,		d.
1735	Forework and reber fixing	4 days	2011/11/25	2011/11/25			i	s = -						-1	- 19 -	18-1		- -		d.
1736	Concreting	1 day	2011/11/30	2011/11/30	and a second sec			1		- +			•	-1 = =	- 12 -	- E				d.
1737	Suipping off formwork	1 day	2011/12/1	2011/12/1 2011/12/2	and the second sec		-	4			-1	- 1	· · · ·	-1	- 14 -	ĥ		+		d.
1738	Backfil Base Slab Construction Bay 2 (incl. Step 7)(LHS)	4 days 19 days	2011/12/2	2011/12/28	An Arrival And Arrival Statements		+		- '			- 1	*	-1	- 14 -	1				1
1739	Remove Construction Bay 2 (Incl. Solp 7 (Links)	4 days	2011/12/5	1. A. I. J.	1738FS-2 days		+	4		- +		- !		-!	- 14 -	16 1		;		1
1741	Eacavation & Minding	6 days	2011/12/9	2011/12/15			ł							-!		16.1		;	2.21	П.
1742	Formwork and rebar fixing (with DWF)	7 days	2011/12/16	2011/12/2		1	}								1.1	161			6 C I	Ω.
1743	Counciling	1 day	2011/12/24	2011/12/24		+									. ý .	161		!		Д.
1744	Stripping oil formwork	1 day	2011/12/28	2011/12/28	1743			1					1	_t	19	<u>h</u> .		!	4 - 1	4
1745	Wall Stem Construction Bay 2 (LHS)	10 days	2011/12/29	2012/1/10		1						1011	1		- 2 -			!	I	H.
1746	Formwork and rebar fixing	4 days	2011/12/29	2012/1/			[]]]			1			·	-'	. 9 .	1 1 -		1		H.
1747	Concerting	1 day	2012/14	2012/14		-		·					·	_'	- 12 -		[)		H.
1748	Supping off formwork	1 day	2012/1/5	2012/1/				1	-'					4	- 2 -	- }-		}		Н
1749	Buckfil	4 days	2012/1/6	2012/1/10	1748								·		- 6 -	11	ii	;	<u>1</u>	Н
1750							+						7	-i	- 6 -		- 4	;	e - I	H
1751	Dminage & Footpath (Ch 490-525 RHS)	30 days	2012/3/2	2012/4/50				i					7	-,	10.1			}	c - I	H
1752	Constpution of drainage & footpath	30 days	2012/3/2	2012/9/10			+							-,	10.1	+ + +		,	r - 1	H
1753	Ended an employ with starts	205 days	2011/10/3	2012/6/12		TP6		r			,			-1	- P1 🖥	4-14			r	1
1754	Footbridge TB07 (Ch 525)	15 days	2011/10/3	2012/6/12			+	1						-1	- 1	1		;		1
1755	Temporary Pedestrian Division	15 days 14 days	2011/10/3	2011/10/24		TP5		1 - =	- (- 1		-1		ĪPŠ		;		1
1755	Temporary Pedestrata Division (at gradd)	14 04/5	20101003	2010/02/20	1110	110										المشتقية				سانيدو

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10725	任務名構	工期	開始時間	完成時間	前責任務	資源名編		2008年		2009年		2010年		2041年	,		012年		20135	
##////eg	1210-0-14		-	1010-014			H2	E)	H2	HI	H2	H)	H2	HI	112	1	El	92	н	
1757	Demolition of existing Footbridge TB-D (Ch \$25)	3 days	2012/6/9	2012/6/12				1	1	1	l .	1		1	1.1	1		1		11 2 -
1758	Remove concrete pipes and demokition works	3 days	2012/6/9	2012/6/12	1782		t							555	19.5	11				1.2.
1759	Construction of Abutment A	28 days	2011/10/28	2011/11/25			1	1		1	· · · ·			1	1.1			T		1 2 -
1760	Excavation and Blinding	7 days	2011/10/28	2011/11/2			t	 1			5 ° ° °			1 T T		Li	11 - 1	12.2		01.
1761	Formwork and other fixing for base slab	5 days	2011/11/5	2011/11/10			t ·							· · ·	- A -	E.	11 - 1	1		11 7 1
1762	Concreting of base slab	1 day	2011/11/11	2011/11/1			ŧ ·		,	÷ • •	$\gamma = - \gamma$	17 - F - F - F		15.5	- Q - 1	1.1		1		117-
		the second	2011/51/12	2011/11/15			÷ ·			1	$\gamma = - \gamma$	Sec. 2. 1		ъ т. т.	2.0.21	177	1 - :	11111	- C - C	17-
1763	Sinpping off formwork	3 days	A COLOR OF A COLOR OF A COLOR OF A COLOR OF A COLOR	2001/11/15			+				$\gamma = - \gamma$		e	·	1 Q 2 I	171		1		17-
1764	Rebar fixing and shuttering foretwork for column	4 days	2011/11/16		d		+	de e e		7		10.00	p =	-i	- G - 1	l tri	1	-1 <i>1</i>		- 7 -
1765	Conanting	l day	2011/11/21	2011/11/21			4 1			2					- n -	- P -	I	-1		
1766	Stripping off formwork	3 days	2011/11/22	2011/11/2/			4				-,					1.		4		
1767	Backfill	4 days	2011/11/25	2011/11/25			1					·				141.47	<u> </u>			
1768	Construction of Abutment B	33 days	2012/2/15	2012/3/23			I							4.4	- 14 -		÷	4	- <u>-</u> -	4
1769	Excevation and Blasting	12 days	2012/2/15	2012/2/28	1710	1	T								- 14 -		₿ ₽	J	- 1	1 a -
(770	Formwork and rehar fixing for base stab	5 days	2012/2/29	2012/3/	1769		T								- 14 -	11.2	4-		- i	
1771	Concerting of base slab	1 day	2012/3/6	201/2/34	5 1770		1								- 14 -	11 1	1	1	- 1	
1772	Stripping off fearwork	3 days	2012/3/7	2012/34	1771		1 1										E.	1		1
1773	Rebar fixing and shattering formwork for colleges	4 days	2012/3/10	2012/3/14	1772		t									11.7	6	1	1 .	13.7.2
1774	Cenceting	1 day	2012/3/15	2012/3/1			+	J =		÷						11.7	E.	1		115.1
1775	Singuing off fermwork	3 days	2012/3/16	2012/3/1			+	2		±	1		÷	-1		11 🗇	1-6-1	1		117.7
			2012/3/20	2012/3/2			+	1 - 5 -		1	-1			-1	-22	11 🖞	- 🏝	1	- 7 -	11: -
1776	Backill	4 days	and the second sec	2012/6/27	a loss of summer of sum		+	1	'	1	-!		<u>+</u>	-1	- 2 -	11 🖞		<u> </u>		11 7 -
1777	Footbridge TB07 (Ch 525)	31 days	2012/5/22				+	1	·	<u>-</u>	-1			-1	- 21 -	Н÷	l-in	Y		1
1778	Construction of decking	16 days	2012/5/22	2012/6/5			+		· · · ·	÷					- 2 -	H 문	- -		- :	
1779	દિવસમાં કરતાં કે બના નાપની કે બસાવ લેવલી,	4 days	2012/5/23		13%,8525		1		·	! 					- 2 -	Hł	- -	£	- ;	H ÷ -
1780	Deck forfolietz	tii daga, j	301365.08	201253				.	·						- 21 -	H #		£		H ÷ -
1781	\$3	0 shaja	511,267	2012/5/				·	·	i					- 2 -	14 #	1	6.6	н ўл Mi	14.4 -
1782	koliay iarallabita	2.085.	2012/6/7	2013/6/	1781	1		F	·							1		<u>K</u>		1.1
1783	Footbridge TB07 Lighting	15 days	2012/6/9	2012/5/22	1	1		7				1	·			1				1
1784	Construction of Dawpits / Ducting	7 days	2012/6/9	2012/5/14	1782			· · · ·		7 7 7	<u> </u>	· '		1		11 1		<u>6</u>		1
1785	Public lighting Installation (CE2328)	6 days	2012/6/18	2012/6/2:	5 1784		+	۰···		T	~ ~ ~ ~		r	-1	- 0 -	11 1		L		13.2
1786	Public Eghting Installation (CE2329)	6 days	2012/5/18	2012/6/2			+	<u>۱</u>		r	n ·			-1 = -		1 7		K		
1787	T&C	2 days	2012/6/26	2012/6/2			+		1.0.0	7 7 7		· }		-1	- 11 -	1 1		17 -		17 "
	180-	2 000	2012/0/20	8/12 01 1/10	1100		+					· 1	+ - =	-6 = -2	- 11 -	11-11	-1=	h	- 1	
1788		526 days	2010/10/15	2012/6/27			+		1	÷	-1	·)=	* - 🗰	<u> 1</u>	قد النظر	14-25		₩°.	- (11 * -
1789	Ch 525-615		2010/10/15	2011/90/1			+				-1			-1	- 14 -7	čl *	- -	f		11 * -
1790	River Diversion & Remove Cont Block	7 days					+	4	1	÷		1	i	-!	- 14 -	all a start		+'		11 * -
1791	Retaining Wall (Ch 535-546) TR4 (LHS)	37 days	2011/10/12	2011/11/23			+	3	1	÷ = =	$\mathcal{A} = \mathcal{A} + \mathcal{A}$	1	L		- 0.2	11 ×	1-1-	+		14 -
1792	Eaconstion and Formation	14 days	2011/10/12	20(1/20/2			4		'	L	$\mathcal{A}_{1} = \mathcal{A}_{2} = \mathcal{A}_{1}$	1		- ¹	- 9	11 1		+'		H
1793	Base Slab Construction Bay 1&2 (LHS)	11 days	2011/10/28	2011/11/5					1	i	2		1 A	- ¹	- 9 -	1		+		+ -
1794	Formwork and rebur fixing	8 days	2011/10/28	2013/13/			1	1	·	k	1	1	1 1	1	1.9.5	₩.1		+		14 2 4
1795	Converting	1 day	2011/11/7	2011/11/				J	·	1	1	1	·	¹ -	. 2	1.0	i- -	ł'		14 4 4
1796	Stripping off formwork	2 daya	2011/11/8	2011/11/	1795		T	1	÷ .	1		1	· · ·	1.1.1		141 1		l'		
1797	Wall Stem Construction Bay 1 (LHS) delete	0 days	2011/11/9	2011/11/2	1		1 1			1.1.1	· ·	1		1	1.1	• 9	11	P	- <u>'-</u> -	- 2 -
1802	Base Slab Construction Bay 2 (LHS) del	0 days	2011/11/7	2011/01/	1		t					1		1	- 11	• 7/	11	P		11 2 1
1806	Wall Stem Construction Bay 1&2 (LHS)	12 days	2011/11/10	2011/11/2			+	7		7	· · · ·						11	P		111
1807	Formwork and rebar fixing	6 days	2011/11/10	20(1/11/1			t	1		;	2.1.1.1		7	777	- Q -	16.7	1	I		17.
		AND REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.	2011/11/17	2011/11/1	The start method water and the start		+	1	,	7	5		7	· · ·	10.1	16	1-1-	T		111
1508	Centering	1 day	2010/10/17	2011/11/12	Access to a second state of the second state o		+	1		7	$\gamma_{1} = \gamma_{2} + \gamma_{3}$		7	-,	10.1	18-		t		111
1809	Stripping off formwork	1 day					+				$\gamma_{1}=1-1$			-,	10.1	1-1-	- -	t	-,	11 1 1
[8]D	Backfill	4 days	2011/11/19	2011/11/2	1 1849		+						r	-,	- 0 -	1117	- -	t		11
1811					1. MM . 10 71 71 71 71	-	+			r				-,		1117	ملوا	t	- i	1 1 1
1812	Retaining Wall (Ch 535-546) TR4 (RHS)	36 days	2012/2/29	2012/4/14		TP6	1							-j = =		HF	100	÷		
1813	Encavation and Formation.	12 days	2012/2/29	2012/3/1										-1	- + -	111-	1		- 1	
1514	Base Slab Construction Bay 1+2 (RHS)	11 days	2012/3/14	2012/3/2/	1813									and an other	- feloreur	ШĽ				-
	Master Brog (Austin Gard) 任務 [EEEEEEE] 集程碑	♦	- 新型任務 []]		上顯型態度		外部	華任務		ii aa ah	論要詳述	-	-	/						
Revised。 日期: 201	Master Prog (Aug10-Apr1				分割		-	素調明	CONTRACTOR OF	1112-112	2012	÷								

			Revised Ma	-		-	- Apr 2											1201	3.05	
政防局	任務名構	工規	開始時間	完成時間	肌囊任務	資源名稱		2008年 H1	112	2009年 H1	H12	2010年 HI	H2	2011年 31			124 El	H2 201		H2
1815	Forestock and rebar fixing (with DWF)	8 days	2012/3/14	2012/3/22	1813		H2	<u>(18</u>	1 112	1	1 116	<u>1 n</u>	1 14			int	L.T	1 1		
1815	Concreting	1 day	2012/3/23	2012/3/23			t :			111		;		1		11.1	76 I.		1111	
1817	Stripping off foreswork	2 days	2012/3/24	2012/3/26			1	·				1			- ii -	1151	- E [•		111	
1818	Wall Stem Construction Bay 1 (RHS) del	0 days	2012/3/26	2012/3/26			+					1	; - ·		- n -	1151	6 26/	3	1111	
1823	Base Slab Construction Bay 2 (RHS) del	0 days	2012/3/26	2012/3/26		-	t ·			7			7	-,		1111	÷ 26/	3	1133	
1827	Wall Stem Construction Bay 1+2 (RHS)	13 days	2012/3/27	2012/4/14	And an and the second second second		t :			ī		ŧ. – –	-	- · · ·	- Q - 1	17	Û İ		1111	
1828	Formouth and robor fining	6 daya	2012/3/27	2012/4/2		++	t :	<u></u>		ī	2222		777	-,	- A - 1	11 11	- E I		111-	
1829	Casceting	1 day	2012/4/3	2012/4/3	and the second se		t :	i		ī	$D_{i} \in \mathcal{L}_{i} \subset \mathcal{L}_{i}$	1		- · ·	- n -	17	- 6 1		1111	
1830	Stepsing off femanok	2 days	2012405	2012/4/10			+	٦ r		7	7		7	- · ·	- n -	117	- 61		· [] ' '	
1631	Backfill	4 days	2012/4/11	2012/4/14		+	t • • •	л		T		·		-,	- 0 -	1 7	- ĩ I		1111	
1832	Retaining Wall TR5 Ch (\$46-596 RHS) TR5 (AD)	306 days	2010/10/15	2011/9/27			t	л г		r	-,	1	P		1.12	1 7	1		1011	
1833	Construction of temp hand and	25 days	2010/10/15	2010/11/8			t	-1		7			* - Fa	-1	- 14 - 2	1 1	1		1011	
1834	Denoblics of Existing structure at dege crost	8 days	2010/11/9	2010/1/26			+					1	· - "i		- 14 -	111	1			
1835	Supervises of Work due to villagen raily	17 days	2010/12/2	2010/12/18		+	+			÷	-1		*	81	- 14 -	11*			11.1	
1836	Conduction of Ampoorty ground beam	5 days	2010/12/19	2010/12/23	A	+	+	4		*		1	·	16	- 14 -	11.	i		11.	
1837	Tituning of not slope (fore downstream to apareum)	73 days	2010/72/24	2011/3/11	the second		+		- '	÷			L	1	- 14 - 1		1		^ III ^ -	
1837	Install nock down!	45 days	2011/2/22	2011/4/14		+	+	4		÷	1.000		÷	- F1		11111	t		1101	
1838	Construction of skin well them DG to U(S, from toe to creat)	165 days	2011/3/10	2011/9/27	+		+	J	-!	±	1.000		÷			11111	-, - t	·	11111	
1840	Conservation of sala wall goon bits to bits, from fee to crisic)	100 0395	201 8.900	40103123	+	+	+	J = -	-'	1	1.2.2.2		÷	-1-1-		HI.	t		- 11	
1840	Retaining Wall TR5A CH546-585 LHS	37 days	2011/11/19	2012/1/4		TP7	+	J	-!	L = -	1.000	<u> -</u>	<u>+</u>	-1	- 21 -	فننا	†		-11; -	
			2011/11/19	2011/12/16	the second second second second		+	2			1.000	(n. n. n.	÷	-;	- 2 -		t		- 11	
1842	River diversion, Excavation and Formation	24 days	2011/12/3	2011/12/12		+	+			÷		(* * * *)			141		t		- 11 - 1	
1643	Base Siab Construction TRSA Bay 1 LHS	8 days	2011/12/3		1842SS+14 eday	+	+	÷		÷		()			- 6 -		†			
1844	Formwork and rober fixing	6 days		2011/12/10			+		-:			(* * * *				H 1	t		1111	
1845	Concreting	1 day	2011/12/10 2011/12/12	2011/12/12			+		-;			(n	7	-i	- 6 -	11 11	+	(* * * <i>*</i> * *	- 11 - 1	
1846	Stripping off fornwork	1 day		2011/12/22						÷	5.000	()	7		1 (k -	اختلا	+	<u>-</u> -	- 11	
1847	Wall Stem Construction TR5A Bay 1 LHS	9 days	2011/12/13	2011/12/20			+		-,		n		7	5.5.5	T (3 T		+			
1548	Formwork and robar fixing	4 days	2011/12/13	2011/12/10			+		-,	÷	$m_{1} = m_{2} = m_{1}$		7	-y	10.1	11 11	t		- 11 7 -	
1849	Createring	1 day	2011/12/17	2011/12/19		4	+		-,		$\gamma - \gamma - \gamma$		r	-,	- n -	비험	+		- 11	
1850	Stripplag off formwork	1 day	2011/12/19	2011/12/22	A 1 MARK A PROPERTY AND A REAL OF A		÷		-,	r	$\{a_1,a_2,a_3,a_4,a_4,a_4,a_4,a_4,a_4,a_4,a_4,a_4,a_4$	1		-1	- in -	ii ři			-	
1651	Backfil	3 days	2011/12/20		and the second se		+			r		i		-g =	- 11 -	i i 🖕	+		- -	
1552	Base Slab Censtruction TRSA Bay 2 LHS	8 days	2011/12/13	2011/12/21						7		1		-1	- 14 -		+	•I-	+ -	
1853	Fornwork and rebar fixing	6 days	2011/12/13	2011/12/19			4			+	-1	3	+	-:	- 14 -	82	+	1 1-	이번 친구	
1854	Conacting	1 day	2011/12/20	2011/12/20			+			+	ab=-a	1	÷	-1	- 14 -	11 21	t	1 i-		
1555	Stripping off formwork	1 day	2011/12/21	2011/12/21			4	i-		+	$\mathcal{A}_{i}=\mathcal{A}_{i}$	1	±	-1	- 14 -	1.2	+	1 1-		
1856	Wall Stem Construction TR5A Bay 2 LHS	9 days	2011/12/22	2012/1/4	the same labor of the same labor of the same labor.		4	1-		÷ = =	$\mathcal{F}_{\mathcal{F}}_{\mathcal{F}}_{\mathcal{F}}_{\mathcal{F}}_{\mathcal{F}}}}}}}}}}$	1	1	-1	- 9 -	17	+			
1857	Fornwork and rebar fixing	4 days	2011/12/22	2011/12/28			÷	J L		÷	2	1	L = -	-1	- 4 -	문 문			- H ÷ •	
1858	Concreting	1 day	2011/12/29	2011/12/29			·	ل		i		·	L = =	-'	- 9 -	바 원	+		- H ÷ *	
1859	Stripping off forework	1 day	2011/12/30	2011/12/30				1	-'	1	2	·	<u>-</u>	-!	- 21 -	11 8		()-	- H ÷ -	
1860	Backfill	3 days	2011/12/31	2012/1/4			+	1	-'	÷				-1	- 21-1		+	(<u>)</u> -	- 11	
1861	Base Slab Construction TRSA Bay 3 LHS	8 days	2011/12/3	2011/12/12			+	4		i				-!	- 21 -		+	(<u>)</u> -	- 14	
1862	Fornwork and rebur fixing	6 days	2011/12/3	2011/12/9			+	1		!		·		-1	- 21 -	12	+	() -	-H÷-	
1863	Concreting	1 day	2011/12/10	2011/12/10			+	1		<u> -</u>				-!	- 2 -	남똥	+	()r.	- 14	
1864	Stripping off Iontwork	1 day	2011/12/12	2011/12/12	the second		+		-j	+		()			- 2 -		+	in n nin		
1865	Wall Stem Construction TR5A Bay 3 LHS	10 days	2011/12/13	2011/12/23			+	4		÷		()	$\frac{1}{T} = -$		- 6 -	HY		1000		
1866	Fornwork and reber fixing	4 days	2011/12/13	2011/12/16					-j	÷	5		7		10.1	남왕	+			
1867	Convreting	1 day	2011/12/17	2011/12/17			+		-j	÷			T	-1	- 0 -	남왕		(<u>.</u>		
1868	Stripping off formwork	1 day	2011/12/19	2011/12/19			4			÷		i	r		- 0 -	H원		$r = r = r^{-1}$		
1869	Badcfill	4 days	2011/12/20	2011/12/23	1858					÷ ÷ -	-,	i		-1		НŸ		$y = y^2$		
1870							+					·		-1		li e		9 p-	- 11	
1871	Box Calvert TB02 (ch 580)	39 days	2012/1/11	2012/2/28	· · · · · · · · · · · · · · · · · · ·		+					1		-1	- 14 -	1 1	· · ·	i = 1 - 1		
1872	Haul Road Diversion to TR3 Bay 3, River diversion, Excavation and Blinding	10 dzys	2012/1/11	2012/1/21	1740		L		-			x				11_1	1	<u></u>		
												_		-						
Bardensed	dautar Bran (Auntio Ann) 任務 [[[[[[]]]]] 型程序 ◆		単型任務 💽		上期型线度 🖛		外	部任務	相当如用		摘要詳細	-								
Hevised M 日限: 2011	Kaster Prog (Aug10-April				986			东绕 亚	(Jacobs)	annan 🖓	網際	÷								
	加工業業の利益	• .					1 495	n mark	•	*	And a									
					第35頁															

網知時	任務名稱	工業	開始時間	完成時間	前暨任務	資源名様		2006年		2009年		2010年		2011年		20129	φ	23	013年	
90559969	12.00-C114		POD-PP	Janorina	Dimitor	Antestan	82	HI	H2	H	H2	Eì	H2	HI	E	H	1	H2	HI	H2
1873	Construction of Base Slab	8 days	2012/1/26	2012/2/3				1	-		1	1		1	11.					1
1874	Forrwork and rebar faine	6 days	2012/1/26	2012/2/1	1872										- Q -	1	: F.	1		1
1875	Concreting	1 day	2012/2/2	2012/2/2						1					- Q -	116	- I+			·
1876	Stripping off formwork	1 day	2012/2/3	2012/2/			+			1.1.1					- G -	1 6	- 1-			1
1877	Construction of Wall Stem and Top Slab	21 days	2012/2/4	2012/2/28					-,	1.1.1	2.5.5.5				- ú -	1 🖤	- 1		- 11	7 - 5
1878	Fourtwork and rebar fixing	6 days	2012/2/4	2012/2/10			h				A * * *				- n -	1 6	- 1		~ 1	
1879	Concreting	1 day	2012/2/11	2012/2/11			+	<u>1</u>		7	$\gamma = 2.2$			-,	- G - C		- t, -		- 1	
1880		1 days	2012/2/13	2013/2/2			+	i	- ,	7	·	·		-,	- ú -		- h-			T
	Stripping off formwork	14 0402	6010017		1 2035			γ	-,	ī		1		··	- n -	177	- t	r		7
1881			0010110/	2012/3/23			+	r		r	-,	1	r	-,	- n -	1 1 2	r tra		- 1	7
1882	Retaining Well TR5A & TR6 CH585-595 LHS	50 days	2012/1/26	2012/3/23			h =	r	-,	r	-1 - 1 - 1			-t i	- n -	1 16	- +1 -		- 1	
1883	RiverHaul Road Diverses (to TR3 and TR5 RHS)	3 days	2012/1/26				+			·		1		-1		十十篇	- +• -		- 11	•
1884	Excavition and Blinding	14 days	2012/1/30	2012/2/1-			ļ ·		-1			(+	-1	$- + \mathbf{g} = -$	- + #	- +	!-	- 1-	•
1885	Base Slab Construction TR6 Bay 1 LBS	10 days	2012/2/15	2012/2/25	A COLOR OF STREET, STR									- i - i -	- 14 -	1.17	- 14 -	1-		4
1386	Fornwork and rober fixing	S days	2012/2/15	2012/2/2				-4	-1	+	$\mathcal{A}_{i}=\mathcal{A}_{i}$	8		-1	- 14 -	님 * 문	5 + I -	ie	- [-]	4 - -
1887	Concreting	1 day	2012/2/24	2012/2/24		James and the second		4		+	$\mathcal{A}_{i}=1,\dots,1$	1		i-	- 14 -	4 + ₩	- + -	i-	- 1-1	1
1888	Suipping off fontwork	l day	2012/2/25	2012/2/2	Address of the second s					÷	2	1		1-	- 14 -	<u>1</u>	- ł' -	, <u>-</u> I-		4
1389	Wall Stem Construction TR6 Bay 1 LHS	10 days	2012/2/27	2012/3/8				J	*'n	1	2	1	L		- 9	1 1 1	5- 1 4 -	i	- 1-	4
1890	Formwork and rebar fixing	4 days	2012/2/27	2012/3/1			1	1 1	-'	L = =	2	14 - L	·	· '-	- 19 m	1 \$	- 4 -		- 14	1
1891	Concerting	1 day	2012/3/2	2012/3/				1	· · · · ·	1		1	·	1	- 9 -	1.4	- 4-	¹ .	- 14	2
1892	Stripping off formwork	1 day	2012/3/3	2012/3/3	3 1891			1		L	1	4		1	- 9	1	·- i' -			
1893	Backfill	4 days	2012/3/5	2012/34	1892	1		1		1	·	1	<u> </u>	·	- 12	المدنية	- 1' -			1
1894	Base Slab Construction TR5A Bay 4 LHS	8 days	2012/2/25	2012/3/5			F			1		1			. 2	1 1 1	- l' -	5	- 1-	·
1395	Formwork and rebar fixing	6 days	2012/2/25	2012/3/	1887			1.7		ī	1	1			19	1114	- l' -	!.	- 1-1	·
1896	Chectting	1 day	2012/3/3	2012/3/	3 1895		t I			1	· · · ·			1	- 11		. ŀ.	!		
1897	Stripping off Somwork	1 day	2012/3/5	2012/3/3	1896				-,	7	· · · ·			1		133	- P -	'.		
1398	Wall Stem Construction TRSA Bay 4 LHS	10 days	2012/3/6	2012/3/10	ALL BOARD PROPERTY AND		+	<u> </u>		7	· ·			-,	- 0 -	1 7 9	11			1
1899	Formwork and other fixing	4 days	2012/3/6	2012/34	1897		F	7		ī - "	2.5.5.5			-,	- O -	177				· · · ·
1900	Concosting	1 day	2012/3/10	2012/3/10	1899	- <u>}</u>		٦		7	2.2.2.1		r	-1	- 0 -	ר י דן	- 1 -	1-		
1901	Skipping off famwork	1 day	2012/3/12	2012/3/12	and the state of t		+	л		1	·		r	-1	- n -	177	- 1		- 17	1
1902	Backfill	4 days	2012/3/13	2012/3/14			+	л - -			·		r	-t	- "" -	ז־יו	- 1			
1903	Base Slab Construction TR5A Bay 5 LHS	8 days	2012/3/3	2012/3/12			+	r						-1	- 11 -	1 7 🖬	C 117		- 11	
	Formwork and rebur fixing	6 days	2012/3/3	2012/3/						÷		1		-1	- 14 -	11 - 7	- t' -	1-		
1994		A REAL PROPERTY OF A REAL PROPER	2012/3/10	2012/3/10	in the second se		+			+		1	•	-1 = =	- 14 -	11 - 7	- t' -			
1905	Concreting	1 day	2012/3/12	2012/3/0			+	$d_1 = - 1$		÷			L	-1	- 14 -	1 + -?	- + -			
1906	Stripping off Sormwork	l day	2012/3/12	2012/3/23						*	-'		L _ =	-1	- 14 -	11 + 1	r † -		- 14	4
1907	Wall Stem Construction TR5A Bay 5 LHS	10 days					+			÷				-!	- 4 -	H + -7			- 1-1	4
1908	Formwork and schar fixing	4 days	2012/3/13	2012/3/14			+	J = -		1	2		L' - 1	-'	- 9 -	14 4 -1	* † ·	<u>-</u> -	- 1-	1
1909	Canzeling	l day	2012/3/17	2012/3/1				5	-'	1	1.000	. t		-'	- 19 -		• + •	<u>î</u> r	- 14	÷
1910	Stripping off foruwork	1 day	2012/3/19	2012/0/19				1		L	1	· · · · ·		- ¹	- 27 -	- × -	¥- +'-	<u>'</u> -	- 14	÷
1911	Backfill	4 daya	2012/3/20	2012/3/2	3 1910			1	-'	1	1	· ·		-'	. 9 -	- ÷ -		e e e ĝe	- 14	÷
1912							L		-'	1		· · · · ·		-'	- 2. •	4 -	- 1	e e e je	- H	÷
1913	Retaining Wall (ch 595-615) TR3 (Bay 3)	36 days	2011/10/3	2011/11/14		6.1			-'	1				-' - -			- 11	}-		
1914	River diversion, Excavation and Formation	14 days	2011/90/3	2011/10/19			1	·	-'	1				-'		<u>1</u>	- #	e e e je		÷
1915	Base Slab Construction Bay 3 LHS	12 days	2011/10/14	2011/10/22			L			1	1	· · · · ·		-'	- 2.2	S - 1	- #),		÷
1916	Formwork and rebar fixing	10 days	2011/10/14		5 1914FS-5 days		I	1		1		·			- 2 -	₩ I	- 1.	}	· - [-]	÷
1917	Concreting	1 day	2011/10/26	2011/10/26	5 1916		1	1		· · · ·						₩.:_	- 11.			÷
1918	Stripping off forework	1 day	2011/10/27	2011/10/23	7 1917	1	r	<u> </u>		1	2.2	·				<u>b</u> :	- 11.		- 14	÷
1919	Wall Stem Construction TR3 Bay 3 RHS	6 days	2011/20/28	2011/11/3	1	1	T T	F		r						¥:	- 11		14	
1920	Formwork and rebut fixing	4 days	2011/10/28	2011/11/	1 1918	1	r		-,	7							_ [Ľ.			
1921	Concreting	1 day	2011/11/2	2011/11/	2 1920		F	л - •		1	-,					6	_ IC			
1922	Stripping off forework	1 day	2011/11/3	2011/11/	3 1921		1	4		,						6.	E		. 11	
1923	Wall Stem Construction TR3 Bay 3 LHS	9 duys	2011/11/4	2011/11/14						T						ΨŢ-			- []	
1140	1. The state comparison area wey a man						L	and the state of t								-				
					1 ATTACANA AND			AR AN IN	tilling:	SIGNATION	esure insides	_								
Revised I	Master Prog (Aug10-Apr1 任務 日日日日日日日 田松明				上和登載度		카네	修任務	A CONTRACTOR OF	content (Content)	搁要群组									
日期: 201		· · · · ·	上開型業程碑 🛇		分割		, 專	案摘葵	Munum	- Constanting	期限	÷								

Revised Master Programme Aug 2010 - Apr 2013 Rev (16)

Constant of Consta	17 49 49 60	工期	開始時間	完成時間	前置任務	資源名標		2008年	19	009年		2010年		2011年		2012年		2013年	
AC(7)145	任務名編	1.90	PERFORM	30364/941et	ALADAS	RASON	H2	El	H2	HB	H2	H1	H2	HI	HI2	HI	H2	HI	1
1924	Fornwork and solar fixing	4 days	2011/11/4	2011/11/9	1922		1					1	1	1	12.1	1	·	L	12.
925	Concreding) day	2011/11/9	2011/11/9	1924		1		;				,		0.1	11	· ·	·	1.1
1926	Supplug off Sermwork	1 day	2011/11/10	2011/11/10			1 1	,				t			9 B	1	•	1	12.
1927	back fill & diversion	3 days	2011/11/11	2011/11/14	al contract of the second s		+			,					- î - Î	1			4
1928	Concerte Slab (Ch546 - Ch596) LHS	27 days	2012/5/26	2012/6/27			+	,-		,					47.7	7.7		6 T [1.1
1929		11 days	2012/5/26	2012/6/7			+	,-							4 T T	1 - 1		e - 1	1.2.1
	Bay 1	and a state of the	2012/5/25		9 1911,1779		i - i			1.5.5			·		0.11	7 1	,	e e [1	17.
1930	Excavation/Blinding	3 days		2012/5/2	design of the second se		+		<u>-</u>				7		o	7	f	e * [*	17.
1931	Fornwork and selver fixing for DWF	4 days	2012/5/30				+ 5	,-	,	- $ -$					0.11	7	*	e - 11	1 7 '
1932	Concepting of DWF	1 day	2012/6/4	2012/5/4			+							-i	n	T L	1	,	1 7 1
1933	Feenwork and rebar fixing for slab	4 days	2012/6/1		5 19315S+2 days		+					,			·	γ = - ·	k		1 7 1
1934	Cocurring of slab	1 day	2012/6/6	2012/6/		1	1										h		
1935	Stripping off fornwork	1 day	2012/6/7	3012/6/2	1	1	1	1							H	+	L	÷	
1936	Bay 2	12 days	2012/5/30	2012/6/12		1									14 - 5			1	4.4
1937	Excavation/Blinding	2 days	2012/5/30	2012/5/33	1930	2										+	÷	1	4.4.1
1938	Fornwork and reber fixing for DWF	4 days	2012/5/4	2012/6/	7 1937,1931	1	T								·	· - - [.	L	4.4.1
1939	Concreting of DWF	1 day	2012/5/8	2012/6/	8 1938	1		'							1		8	5 a la	4.4.1
1940	Forrowork and other fixing for slab	4 days	2012/6/6	2012/6/5	9 19385\$+2 days	1	+	;									4	C	1.
1941	Concreting of slab	1 day	2012/6/11	2012/5/11	1 1940		1							1		1	1 i	с. I.	1
1942	Stripping off formwork	1 day	2012/6/12	2012/6/12			+	:								1 - 1 -	1		1
1943	Bay 3	14 days	2012/6/1	2012/6/16			<u>†</u> ?)						 -	6.1.1			I-	1.7
1944		2 days	2012/6/1	2012/6/			+	2						(* * * *			<u>.</u>	I'	17
	Encuvation/Blinding	the second of the second second second second	2012/6/7		1944,1934		+)	÷								T	2.11	15
1945	Formwork and reber fixing for D'0F	4 days		the state of the s	and the second s		4						÷		3		11	2 - 1	17
1946	Concreting of DWF	1 day	2012/6/12		2 1945,1938		4	'							X		€l	2 - E	1 .
1947	Formwork and rebor fixing for slot	4 days	2012/6/11		4 1946FF+2 days		+ <u>-</u> '								3		₹	2 - E	1.7
1948	Concreting of slab	1 day	2012/6/15	2012/6/15		1	!		1			(a			3		훕	2 - 1	1 7
1949	Stripping off formwork	1 day	2012/6/16	2012/6/10			· · · ·	'	!						2		1	2 - 1	- ÷ -
1950	Bay 4	16 days	2012/6/4	2012/5/21											2	·			44
1951	Excavation/Blinding	2 days	2012/6/4	2012/6/3	5 1944	1	1										₩		4.4
1952	Formwork and rebar fixing for DWF	4 days	2012/6/12	2012/6/15	5 1951,1945	1	ייד	,									₩		
1953	Concreting of DWF	1 day	2012/6/16	2012/5/10	6 1952	1	1									<u></u>	.h		
1954	Fornwork and reber fixing for slab	4 days	2012/6/15	2012/6/19	9 1953FF+2 days		+					1		-1			¥		11
1955	Concreting of slab	1 day	2012/6/20	2012/6/20	and a second sec					4		1		-1		· · · · ·	1		12
1956	Stripping off formwork	1 day	2012/6/21	2012/6/2			+ 4	1	+			j= = =		-1	14		1	5 1	12
1957	Bay 5	18 days	2012/6/5	2012/6/27		+	+ 4)				i=		-!	14	1.11	Ú.		17
			2012/6/5	2012/6/		+	+	'	+			l			4	· • - - `	ñ	5 1	11
1958	Escavation/Blinding	2 days			0 1958,1952			1					L		9	· +	*	2.11	11
1959	Forrwork and rober fixing for DWF	4 days	2012/6/16			4	د <u>،</u> ا	'					1	- · · ·	·		ሮ	는 다	11
1960	Concreting of DWF	1 day	2012/6/21	2012/6/2			L J	'	1	'			1		9		&	5 - h	11
1961	Formwork and rebar fixing for slab	4 days	2012/6/20		5 1960FF+2 days		4 1	'	L			ie e e	·	1	2.5	· š -	ş		11
1962	Concreting of slab	1 day	2012/6/26	2012/6/2			1 1	'	1	'		'	1	J	7.5.5		-19	는 나	1÷.
1963	Stripping off formwork	1 day	2012/6/27	2012/6/27	7 1962		1	'	!	'		· · · ·	<u>.</u>	.'	9	- i - i - i	2	5 - 1	4 ÷
1964							1	'				·	L	·	7.5.5	. 1 <u></u>	2	2.1	14
1965	Drainage and Footpath (Ch525-615 LHS & RHS)	48 days	2012/3/5	2012/5/5	5	1	1			'		·	·		9	1.2	2	5 - 1	
1966	Construction of footpath & drainage works	43 days	2012/3/5	2012/5/	5 1892		1 1	,				<u> </u>	· · ·	1.1.1	9			5 - I	
1967	Lighting at CH 550-610	10 days	2012/5/7	2012/5/17	7		1 1						· · · ·	1	· · · ·			5	14
1968	Construction of Drawpils / Ducting	6 days	2012/5/7	2012/5/12	2 1966		1	,	7	,		· · · ·		1				5 al.	
1960	Public lighting Installation (CE2325)	2 days	2012/5/14	2012/5/1	and the second s		1		ī					1	0.5			2.1	11
1970	Public lighting Installation (CE2326)	2 days	2012/5/14	2012/5/1			†	,	r				7		0.57	ī I		C	1
971	Public lighting Installation (CE2327)	2 days	2012/5/14	2012/5/1			t	,					Ŧ = -		n	· Υ [r -	11
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Appendix J: Complaint Investigation Reports and Log



Our ref. no.: DC0706-CL-111027(EPD)

3rd November 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/00021938-11
Date received:	27th October 2011
Incident location:	Upper Tai Po River (UTPR), nearby Sheung Wun Yiu
Description:	Two Complaints were referred by EPD regarding the observation of muddy water due to construction works along Upper Tai Po River.

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

Yours faithfully,

Goldie Fung ET leader

Environmental Pioneers and Solutions Limited

c.c. SRE/AECOM (Mr. Colin Cheng) RE/AECOM (Mr. Adrian Ng) IEC/ERM (Ms. Winnie Ko) Chiu Hing Project Manager (Mr. Alvin Ma) Chiu Hing Site Agent (Mr. Gary Chan) Chiu Hing Environmental Officer (Ms. Macy Fung)

Flat A, 19/F Chai Wan Industrial Centre, 20 Lee Chung Street, Chai Wan, Hong Kong 香港柴間利眾街 20 號柴灣工業中心 19 字樓 A 座 Tel: (852) 2556 9172 Fax: (852) 2856 2010 http://www.epsl.com.hk



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-111027(EPD)

EPD complaint ref.: EP3/N05/RN/00021938-11

Sheet: <u>1</u> of <u>2</u>

RECIPIENT

Name: Chiu Hing Construction & Transportation Co., Ltd,

Details: Two complaints, one from the public and the other one from the EPD monitoring team, were referred by EPD regarding on the observation of muddy water due to construction works at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.

Received Date: 27th October 2011	Received Time: <u>N/A</u>
COMPLAINANT / Concern	
Name: N/A	Tel: <u>N/A</u>
Address: N/A	
COMPLAINT	
□Noise □Air quality/Dust ☑Water □Odour □Safety □Others	□Environment □Traffic/Pedestrian
Event Date and Time: 27th October 2011	
Location: Upper Tai Po River (UTPR), nearby Sheung	Wun Yiu.

INVESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES

- Two complaints, one from the public on 25th October 2011 and the other one from the EPD monitoring team on 27th October 2011, were recorded regarding the observation of muddy water due to construction works along Upper Tai Po River (UTPR). Environmental Team (ET) was informed by email on 27th October 2011 by the Residential Engineer (RE).
- 2. A routine site inspection covering site area at UTPR was carried out on 26th October 2011 with representatives from RE, ET, Contractor and Independent Environmental Checker. During the inspection, muddy surface runoff, site water seepage and soil erosion were observed to be causing water quality impact to the downstream area at excavated site at approximate ch.200 & 500 (Fig.2.1 & 2.2). As such, Contractor was requested to implement immediate corrective actions to stop further deterioration of water quality.
- 3. As reported by Contractor, the following immediate mitigation measures were implemented:
 - i. Geo-textile earth bund was provided to avoid site water seeping into river channel.
 - Site water arisen from construction activities was diverted to sedimentation tank for de-silting before discharge.
 - iii. A chemically enhanced sedimentation tank was provided at ch.400 for more effective water treatment.
- 4. ET has conducted a site investigation on 29th October 2011 with representatives from Contractor to resolve the concern. During the investigation, it was observed that diversion of the river channel was being carried out at ch.50 ch300. Muddy water was generated from construction activities and soil erosion of the exposed riverbanks which caused adverse impact to the downstream area (Fig.4.1 to 4.2). As reported by Contractor, the purpose of the aforesaid works was to avoid the direct contamination of the river from the construction activities. Contractor was seriously requested to implement immediate corrective measures including covering the exposed

riverbank, provision of sandbag barriers and bund wall to avoid surface runoff and site water seepage from entering into river channel, and provision of de-silting facility for treating site water before discharge.

- 5. As a follow up investigation, second site inspection was carried out on 2nd November 2011 to check if proper follow up mitigation measures were implemented. During the investigation, geo-textile coving was provided at ch.50 to avoid soil erosion. However, muddy water was still observed from ch.500 which caused by surface runoff generated from overflowing of wheel washing bay at ch.600 and seepage of underground water and domestic waste water (Fig.5.1 to 5.3). Contractor was requested to implement immediate corrective actions to stop further deterioration of water quality.
- As reported by Contractor on 3rd November 2011, immediate corrective actions were implemented to stop muddy water generation, including:
 - Provision of earth bunds to avoid leakage of muddy runoff entering into the river at ch.500,
 - Provision of de-silting facility for the wheel washing bay at ch.600

After the mitigation measures implemented by Contractor, no further contaminated water discharged into the river and the river quality was acceptable (Fig.6.1 & 6.2).

- Contractor was seriously recommended to review their site conditions and implement necessary water quality mitigation measures to avoid further deterioration of river water quality, which should at least include:
 - Proper temporary drainage system should be provided on site for site water diversion as to avoid surface runoff and site water seepage from entering into river channel.
 - Haul access and excavated area should be enclosed with proper bund walls.
 - Riverbanks, soil slopes and earth bunds should be covered with geo-textile materials to avoid erosion by water.
 - Any site water, wastewater, underground water and runoff arisen from construction activities should be diverted to proper site water treatment system before discharge; sedimentation tank using chemicals to enhance its treatment effectiveness should be adopted for silty water whenever it is necessary.
 - Site water treatment facilities should be regularly checked and maintained as to ensure those are in good condition and functional.
 - Excessive storage of earth materials should be prevented on site; earthy materials should not be stockpiled next to the river channel as to avoid soil runoff.
- To meet relevant environmental ordinance such as Environmental Impact Assessment Ordinance (EIAO) and Water Pollution Control Ordinance (WPCO), Contractor was seriously reminded that direct discharge of site water is not allowed and site water seepage to the river should be prevented.

Signature:

Goldie Fung, ET Leader

Date: 3-11-2011



Fig.2.1 - The river banks were barely exposed which caused soil erosion.

Fig.2.2 –Seepage of untreated site water directly into the river.



Fig.4.1 - River bank was barely exposed without proper protective measures.



Fig.4.2 - Muddy water was generated from river diversion work.



Fig.5.1 - Geo-textile covering was provided to prevent soil erosion.



Fig.5.2 – Muddy surface runoff caused by seeping of underground water and domestic waste water.

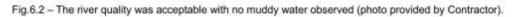




Fig.5.3 - Leakage of contaminated water from the overflowed wheel washing bay.

Fig.6.1 - Earth bunds was provided to avoid leakage of muddy runoff entering into the river (photo provided by Contractor).







COMPLAINT / CONCERN LOG

Ref: DC0706-CL-111027(EPD)

Log Ref	Event Date/Location	Complainant/ Date of Contact	Details of Complaint	Investigation/Mitigation Action File Closed	
Our REF: DC0706-CL-1 11027(EPD) EPD complaint ref.: EP3/N05/RN /00021938-1 1	27 th October 2011, Project site at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu	Two Complaints were referred by EPD on 27 th October 2011	Two complaints, one from the public and the other one from the EPD monitoring team, were referred by EPD regarding on the observation of muddy water due to construction works at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.	 Two complaints, one from the public on 25th October 2011 and the other one from the EPD monitoring team on 27th October 2011, were recorded regarding the observation of muddy water due to construction works along Upper Tai Po River (UTPR). Environmental Team (ET) was informed by email on 27th October 2011 by the Residential Engineer (RE). A routine site inspection covering site area at UTPR was carried out on 26th October 2011 with representatives from RE, ET, Contractor and Independent Environmental Checker. During the inspection, muddy surface runoff, site water seepage and soil erosion were observed to be causing water quality impact to the downstream area at excavated site at approximate ch.200 & 500 (Fig.2.1 & 2.2). As such, Contractor was requested to implement immediate corrective actions to stop further deterioration of water quality. As reported by Contractor, the following immediate mitigation measures were implemented: Geo-textile earth bund was provided to avoid site water seeping into river channel. Site water arisen from construction activities was diverted to sedimentation tank for de-silting before discharge. A chemically enhanced sedimentation tank was provided at ch.400 for more effective water treatment. 	

	4.	ET has conducted a site investigation on 29 th October 2011 with representatives from Contractor to resolve the concern. During the investigation, it was observed that diversion of the river channel was being carried out at ch.50 – ch300. Muddy water was generated from construction activities and soil erosion of the exposed riverbanks which caused adverse impact to the downstream area (Fig.4.1 to 4.2). As reported by Contractor, the purpose of the aforesaid works was to avoid the direct contamination of the river from the construction activities. Contractor was seriously requested to implement immediate corrective measures including covering the exposed riverbank, provision of sandbag barriers and bund wall to avoid surface runoff and site water seepage from entering into river channel, and provision of de-silting facility for treating site water before discharge.	
	6.	As a follow up investigation, second site inspection was carried out on 2 nd November 2011 to check if proper follow up mitigation measures were implemented. During the investigation, geo-textile coving was provided at ch.50 to avoid soil erosion. However, muddy water was still observed from ch.500 which caused by surface runoff generated from overflowing of wheel washing bay at ch.600 and seepage of underground water and domestic waste water (Fig.5.1 to 5.3). Contractor was requested to implement immediate corrective actions to stop further deterioration of water quality. As reported by Contractor on 3 rd November 2011, immediate corrective actions were implemented to stop muddy water generation, including: v. Provision of earth bunds to avoid leakage of muddy runoff entering into the river at ch.500.	
		v. Provision of de-silting facility for the wheel	

 washing bay at ch.600 After the mitigation measures implemented by Contractor, no further contaminated water discharged into the river and the river quality was acceptable (Fig.6.1 & 6.2). 7. Contractor was seriously recommended to review their site conditions and implement necessary water quality mitigation measures to avoid further deterioration of river water quality, which should at least include: vi. Proper temporary drainage system should be provided on site for site water diversion as to avoid surface runoff and site water seepage from entering into river channel. vii. Haul access and excavated area should be
enclosed with proper bund walls. viii. Riverbanks, soil slopes and earth bunds should be covered with geo-textile materials to avoid erosion by water.
 ix. Any site water, wastewater, underground water and runoff arisen from construction activities should be diverted to proper site water treatment system before discharge; sedimentation tank using chemicals to enhance its treatment effectiveness should be adopted for silty water whenever it is necessary. x. Site water treatment facilities should be regularly checked and maintained as to ensure those are in good condition and functional. xi. Excessive storage of earth materials should be
prevented on site; earthy materials should not be stockpiled next to the river channel as to avoid soil runoff.
8. To meet relevant environmental ordinance such as Environmental Impact Assessment Ordinance (EIAO) and Water Pollution Control Ordinance

		(WPCO), Contractor was seriously reminded that direct discharge of site water is not allowed and site water seepage to the river should be prevented.	

Filed by Environmental Team Leader:

Date: 3rd November 2011

Appendix K: Ecological Impact Monitoring Report for Upper Tai Po River

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

Ecological Impact Monitoring Report (No. 6) Upper Tai Po River

(Revised report)

September 2011



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

Contract No. DC/2007/06

Ecological Impact Monitoring Report (No. 6) Upper Tai Po River

T	 Table of Contents 1 Introduction 2 Summary Of Major Points 3 Summary Of The Construction Activities For The Month 								
1	Introduction	1							
2	Summary Of Major Points	1							
3	Summary Of The Construction Activities For The Month	2							
4	Monitoring Methodology	4							
5	Monitoring Results	4							
6	Audit/review of monitoring result	7							
7	Remedial measures adopted to restore the adverse condition	7							
8	Record of complaints and remedial measures	7							
9	Forecast of works programme and monitoring requirements	7							
10) Comments And Conclusions	8							
11	l References	8							
	IGURES igure 1-1 to 1-3. Transect line and sampling location within study area								
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Table 5-1. Flora species recorded at the transect along the Upper Tai Po River. Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po River Table 5-3 Avifauna recorded along survey transects and at two selected point count locations at Upper Tai Po River. Table 5-4. Odonate species recorded at the Upper Tai Po River

Table 5-5 Aquatic Macro invertebrates recorded at Upper Tai Po River.

Table 5-6 Fish species recorded at Upper Tai Po River.

Table 5-7 Abiotic data for Upper Tai Po River.

PHOTOS

APPENDIX I Summary of Total Accumulative Complaint Received. APPENDIX II The list for mitigation measure for Upper Tai Po River construction site.

1 Introduction

- 1.1 The project of Drainage Improvement Works in Upper Tai Po River requires to carry out an ecological impact monitoring programme when the project commenced. The collected data was used to assess ecological impact during construction period.
- 1.2 Scope of ecological impact monitoring was detailed in the Particular Specification (PS) and EM & A Manual of the project. In brief, the survey need to collect data on abiotic such as water quality, substratum characteristics, water flow, and biotic data of flora and fauna.
- 1.3 China-Hong Kong Ecology Consultants was committed by Chiu Hing Construction and Transportation Co. Limited to undertake the ecological baseline survey in Oct 2007 and impact monitoring tasks for the project starting from January 2009.
- 1.4 This is the number 6 ecological impact monitoring report for the project conducted in July 2011. It contents the following subsections:
 - Summary of major points
 - Summary of the construction activities for the month
 - Monitoring Methods and Results
 - Audit/review of monitoring results
 - Remedial measures adopted to restore the adverse condition
 - Record of complaints and remedial measures
 - Forecast of works programme and monitoring requirements; and
 - Comments and conclusions

2 Summary of Major Points

- Field ecological monitoring was undertaken on 21st July 2011;
- Stream habitat at most sections of Upper Tai Po River (Photo 1,2) was changed due to drainage works; and
- During the impact monitoring, the man power deployed and survey duration was the same as pervious monitoring events. (i.e. 3 field workers from China-Hong Kong Ecology Consultant and 2 environmental assistant from Chiu Hing Construction & Transportation Co. Ltd).
- The number of target stream fauna (i.e., fish, *Parazacco spilurus*) recorded in July 2011 was lower than those recorded during baseline monitoring (before fish capture/relocation took place). *Parazacco spilurus* was only recorded from the reference site adjacent to the project site at upper stream. Low fish population of *Parazacco spilurus* was river bed modification. The other target species including fish (*Pseudobagrus trilineatus*) and Hong Kong Newt (*Paramesotriton hongkongensis*) were not found within works area during both baseline and impact monitoring.

3 Summary of The Construction Activities

- 3.1 Major construction activities carried out by the contractor from December 2010 (last reporting time) to July 2011.
 - Construction of gabion wall
 - Construction of retain wall
 - Construction of footbridge
 - Construction of concrete block.

4 Monitoring Methodology

4.1 Avifauna

Avifauna survey was conducted during the impact monitoring period. Special attention was given to those stream channel area where birds used as feeding and foraging habitat. In general, avifauna survey was taken in the morning or late afternoon when birds are more active (feeding and foraging). Numerical abundance was recorded at fixed count points within a fixed radium, e.g. 30-50m according to landscape feature and visual penetration extent. Duration of the point count of birds was standardised for 10 minutes at each location in order to collect comparable data. Transect count will also be used for the avifauna survey aimed to collect qualitative data. Binoculars and digital camera was the main instrument to be used. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Carey et al (2001).

The point count was conducted at two locations with one located at the lower portion of the river channel ant the other located at the upper section of the river.

4.2 Fish and Newt Population

Fish community including target species (Three-lined Chinese Stream Catfish and Predaceous Chub) and Hong Kong Newt population at the specified river channel was monitored by live trapping, hand nets and direct observation methods. Active searching at night for *Pseudobagrus trilineatus* has also been carried out. Sampling was conducted at two proposed sampling locations, i.e. upper and lower sections of the river and covered major type of stream habitats, e.g. stream pool and riffle. The number of the captured or observed fish was estimated and recorded. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Virginia et al (2004).

4.3 Aquatic Macro-invertebrates

Macro-invertebrates in the likely affected streams was surveyed. Two sampling sites within the affected stream sites was designed to collect necessary macroinvertebrate fauna for ecological impact monitoring information. Three replicates was taken at each sampling point and pool together for further sample process. Kick sampling (photo 4) and hand netting was the main survey methodologies for stream organisms. Dissection microscope, digital camera was used to aid identification and enumeration. Numerical abundance, species identity was recorded. Nomenclature and protection status of the species will follow those documented in the AFCD website (www.hkbiddiversity.net) and other literatures such as Dudgeon (1999)

4.4 Adult Odonate Survey

Adult Odonate survey was conducted within the monitoring area. Transect count was used for the survey. Binoculars, digital camera and hand net was utilized to aid identification. In general, all captured fauna was released immediately after on-site identification or taking photo. Numerical abundance, species identity and other notable behaviour was recorded. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Keith (2003). Adult Odonate survey was conducted along line transects in parallel with river channel within works area where access was permitted

4.5 **Riparian Vegetation**

Riparian vegetation including aquatic and emergent was sampled by line a belt transects along the affected stream channel and riparian habitat. Species, relative abundance, average heights were recorded. Vegetation survey was conducted at two selected belt transects with one located at the lower portion of the river channel and the other at the upper section of the river respectively. The belt transects was run across the river channel and is aimed to collect quantitative data of vegetation. Similarly, qualitative data of plants was collected by recording plant species along line transect. Nomenclature and protection status of the species followed those documented in the AFCD website (www.hkbiddiversity.net) and Hong Kong Herbarium (2004).

4.6 Abiotic Data Collection

Water quality monitoring

Dissolved oxygen level, pH value, conductivity, salinity, BOD and nutrient level (nitrate and ammonium) was sampled and analyzed by conventional methods in situ or send to laboratory.

Sediment Characteristics

Sediment/substrate characteristics was recorded of sediment cover in percentage e.g. mud, sand, rock, boulder and cemented bottom in the stream bed at sampling sites.

Water flow

Water flow rates in river channel were measured by record of travel time of a floating material (e.g. floating ball) in a measured distance.

5 Monitoring Results

5.1 Vegetation

Vegetation growing along the affected stream was surveyed at Upper Tai Po River. About 10 flora species was recorded within the survey transects along the affected stream courses. All recorded floras were common species. Compared with the baseline result, the number of flora species was reduced from 38 to 10 flora species. Most vegetation along the stream section was cleared in order to construct temporal assess road and new embankment. Moreover, previous heavy rainfall has also washed out most vegetation along channel. Despite that, the vegetation was predicted to be re-colonized along the river channel after finished the construction work. Generally, the height of the dominated riparian grass and herb species were in a range from 0.2m to 1.5m. No rare or protected flora species was recorded. Results of vegetation survey and belt transect survey were given in **Table 5-1** and **Table 5-2**. Figure 1-1 to 1-3 shows the transect line for the flora surveys.

5.2 Fauna

5.2.1 Avifauna

Avifauna survey was undertaken along survey transects and at two selected point count locations. In total, 20 species of birds were recorded during bird surveys within project area which was comparatively less than the baseline result of 24 avifauna species on

October 2007. The project site was utilised by avifauna as foraging/ roosting area only. No breeding site was found within project site during baseline survey. Thus, it was predicted that adverse impact on avifauna species will be temporal during construction period. Transect and Point Count locations were shown on **Figure 1-1 to 1-3**. Result of bird survey was presented in the table 5-3

5.2.2 Adult Odonate Survey

Odonate survey was performed and species recorded at Upper Tai Po River were listed in **Table 5-4**. 5 species of dragonfly species were recorded during the surveys in current hot and wet season which was similar to the baseline result of 4 odonate species recorded in October 2007. *Pantala flavescens* was the dominated species along the river channel. All recorded species was generally common and abundant in Hong Kong (Keith, 2003). Sampling location was shown on **Figure 1-1 to 1-3**.

5.2.3 Hong Kong Newt

Survey of Hong Kong Newt was conducted at Upper Tai Po River. No Hong Kong Newt species was recorded.

5.2.4 Aquatic Macro-invertebrates

Upper Tai Po River was flowing with constant water during survey. Aquatic-net and kick sampling was performed at the stream.

The stream benthos fauna collected was mainly comprised of insects, mollusks and as well as small fish. The mollusk fauna of the stream was dominated by snail species of *Physella acuta* at the river channel. Compared with the baseline result, the number of species was reduced from 10 to 7 for stream benthos. Apparently, stream benthic fauna was temporally de-faunated as a result of engineering works and heavy rainfall last year. Despite that, the <u>aquatic macro-invertebrates</u> was predicted to be re-colonized along the river channel after finished the construction work. Details of recorded of stream benthic fauna refers to **Table 5-5.** Sampling location was shown on **Figure 1-1 to 1-3**.

5.2.5 <u>Stream Fish Fauna</u>

Fish surveys were performed at Upper Tai Po River during surveys. In total, 8 species freshwater fish were recorded within project area. Fish density was low along river channel. Compared with the baseline result, the number of fish species was reduced from 10 to 8 species. The pelagic fish, *Parazacco spilurus* which have conservation interest, was restricted in the upper section of the surveyed river outside the works boundary where the water was not affected by construction works. Small number of *Parazacco spilurus* (Photo 3) was recorded from the reference site adjacent to the project site at upper stream section. No record of *Parazacco spilurus* and reduced population of the fish was observed within project site. That would likely be due to the habitat change caused by river bed modification, which was stated in Project profile.

Generally, most of the recorded fish fauna are common species in Hong Kong. *Parazacco spilurus* is a common freshwater fish species in Hong Kong but it was listed as vulnerable in China Red Data Book (hkbiodiversity website) and some of them were captures and released to an undisturbed upper stream habitat before construction works with most recently performed on the 15th October 2010. The locally rare fish species of Three-lined Chinese Stream Catfish was not recorded at affected stream section during day and night time surveys (Photo 4) during both baseline and impact monitoring periods. Details of records of fish fauna refers to **Table 5-6.** Sampling location was shown on **Figure 1-1 to 1-3**.

5.3 Abiotic data

Data on water quality and major stream hydrological feature (water flow and substratum) of the stream were collected and given in the Table 5.7.

Generally, the water quality was found polluted at lower stream section mainly due to the domestic sewage discharge (Photo 5) from villages. Concentration of Ammonia (0.20 mg/L) in lower stream section was comparatively higher than that measured at upper stream section. Fish with less tolerance to toxic ammonia would be eliminated from stream water. Currently, the level of ammonia concentration is considered low and it was likely due to dilution of the running water in the stream. Salinity was low, and it was indicated that the stream was not affected by tidal effect. The detailed abiotic information was shown in Table 4-7.

The stream substratum was comprised of over 80% stones or rocks at most of the stream sections with moderate water flow (up to 0.2m/second at pool and 0.6m/second at riffle). Most vegetation was cleared along the river channel and it would be planted or recolozised in late stage of the construction period.

6 Audit/review of monitoring results

Total population was decreased for the concerned Fish (*Parazacco spilurus*) population at river channel within project site in the current monitoring period than those recorded in baseline ecology report. Reduced fish population including *Parazacco spilurus* was likely due to habitat change caused by river bed modification within project site. Habitat change due to river bed modification was stated in Project profile. The project profile also predicted some indirect localized disturbance would occur on aquatic community and direct impact to approx. 0.6km of lowland river habitat within project area during construction period. The decrease of concerned fish (*Parazacco spilurus*) population was caused by river bed change which was a unavoidable as predicted. Project profile stated that the new channel bed would be lined with natural materials such as small cobbles and boulders which are similar to the substratum before the construction work. Thus, it is predicted that the concerned fish (*Parazacco spilurus*) population of the construction work.

7 **Remedial measures adopted to restore the adverse condition** None

8 Record of complaints and remedial measures

There were some complaints at construction site for the Upper Tai Po river. The complaints were followed up with suitable mitigation measures by contractor. The complaints and remedial measures were shown on Appendix I & II.

9 Forecast of works programme and monitoring requirements

Major Construction activities carried out by the contractor anticipated for the coming month.

- Construction of Retaining wall
- Construction of Gabion wall,
- Removal of shotcrete & concrete blocks for temporary pretection of river banks .

10 Comments and Conclusions

Ecological impact monitoring was carried out during July 2011 and relevant biotic and abiotic data was collected according to the project specification and the EM & A Manual.

One of the three target freshwater fauna species, i.e., fish *Parazacco spilurus*, was recorded at upper stream section adjacent to project boundary. The reduced population of the fish would likely due to the habitat change caused by river bed modification, which was stated in Project profile and such disturbance would be reversible during the operation period.. The fish was commonly seen in more upper stream courses which would be the source for late re-colonization of the newly built river channel. The locally rare fish species of Three-lined Chinese Stream Catfish and the Hong Kong Newt were not recorded at the affected stream section during day and night time surveys conducted for both baseline and impact monitoring.

Most aquatic and riparian vegetation along the stream section was cleared due to construction works. Plant plantation along newly built up river banks would be undertaken at late stage of the project.

The water quality in the surveyed stream was found polluted at lower stream section mainly due to the domestic sewage discharge from villages. No significant change in water quality was detected except the increased sediments in water after comparing the results with baseline monitoring data.

11 REFERENCES

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Hong Kong Biodiversity Website : http://www.afcd.gov.hk/english/conservation/hkbiodiversity/hkbiodiversity.html FIGURE

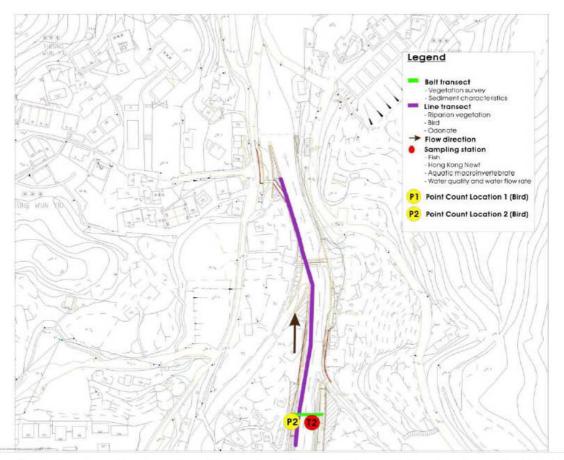


Figure 1-1. Sampling location of impact monitoring at Upper Tai Po River(Lower Section)

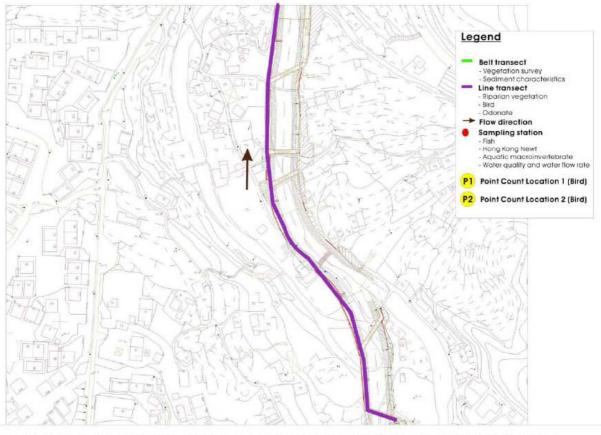


Figure 1-2. Sampling location of impact monitoring at Upper Tai Po River(Middle Section)

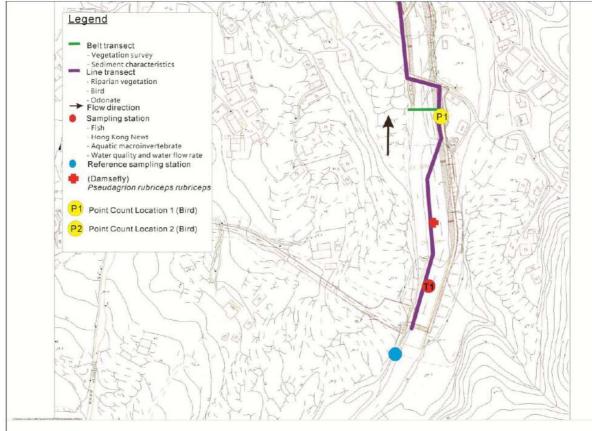


Figure 1-3. Sampling location of Impact monitoring at Upper Tai Po River(Upper Section)

TABLE

Ecological Impact Monitoring Programme

the Opper Tar	Po stream including ripar		1						
Family	Species name	Species name in Chinese	Oct-07	Jan-09	Jul-09	Jan-10	Jul-10	Jan-11	Jul-11
Euphorbiaceae	Macaranga tanarius	血桐	+	+	+	+	+	+	
Musaceae	Musa paradisiaca	大蕉	+	+	+	+	+		
Commelinaceae	Commelina communis	鴨蹠草	+	+	+	+	+	+	+
Fabaceae	Pueraria lobata	野葛	+	+	+	+	+	+	
Gramineae	Panicum repens	枯骨草	+	+	+	+	+	+	+
Asteraceae	Bidens alba	白花鬼針草	+	+	+	+	+	+	++
Araceae	Alocasia odora	海芋	+	+	+	+	+	+	
Araceae	Colocasia esculenta	芋	+	+	+	+	+	+	
Moraceae	Ficus hispida	對葉榕	+	+	+	+	+	+	
Ulmaceae	Celtis sinensis	朴樹	+	+	+	+	+	+	
Athyriaceae	Callipteris esculenta	菜蕨	+	+	+	+	+	+	
Verbenaceae	Lantana camara	馬纓丹	+	+	+	+	+	+	
Sapindaceae	Dimocarpus longan	龍眼	+	+	+	+	+	+	
Solanaceae	Solanum torvum	水茄	+	+	+	+	+	+	
Equisetaceae	Equisetum debile	筆管草	+	+	+	+	+		
Thelypteridacea	Cyclosorus parasiticus	華南毛蕨	+	+	+	+	+	+	
Bombacaceae	Bombax ceiba	木棉	+	+	+	+	+	+	
Lauraceae	Cinnamomum camphora	樟樹	+	+	+	+	+	+	
Myrtaceae	Psidium guajava	番石榴	+	+	+	+	+	+	
Caprifoliaceae	Viburnum odoratissimum	珊瑚樹	+	+	+	+	+		
Sapindaceae	Litchi chinensis	荔枝	+	+	+	+	+	+	
Rutaceae	Clausena lansium	黄皮	+	+	+	+	+	+	
Lauraceae	Litsea glutinosa	潺槁樹	+	+	+	+	+		
Euphorbiaceae	Glochidion zeylanicum	香港算盤子	+	+	+	+	+		
Asteraceae	Ageratum conyzoides	勝紅薊	+	+	+	+	+	+	+
Urticaceae	Boehmeria nivea	苧麻	+	+	+	+	+	+	+
Convolvulaceae	Ipomoea aquatica	通菜	+	+	+	+	+		
Gramineae	Microstegium ciliatum	剛秀竹	++	+	+	+	+	+	+
Asteraceae	Mikania micrantha	薇甘菊	++	+	+	+	+	+	+
Gramineae	Pennisetum purpureum	象草	+	+	+	+	+	+	
Convolvulaceae	Ipomoea cairica	五爪金龍	+	+	+	+	+	+	+
Asteraceae	Synedrella nodiflora	金腰箭	+	+	+	+	+	+	
Gramineae	Coix lacryma-jobi	薏苡	+	+	+	+	+	+	
Amaranthaceae	Alternanthera philoxeroides	空心蓮子草	+	+	+	+	+	+	
Asteraceae	Wedelia chinensis	蟛蜞菊	+	+	+	+	+	+	+
Polygonaceae	Polygonum barbatum	毛蓼	+	+	+	+	+	+	
Myrtaceae	Cleistocalyx operculatus	水翁	+	+	+	+	+	+	+
Gramineae	Phragmites karka	卡開蘆	+	+	+	+	+	+	
Solanaceae	Solanum nigrum	龍葵				+	+	+	+
Cucurbitaceae	Benincasa hispida	冬瓜						+	

Table 5-1. Flora species recorded at the transect along the Upper Tai Po stream including riparian habitat.

Note:

+, occurred; ++, common; +++, abundant

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po stream (T1- Upper stream sampling site and T2 - Lower stream sampling site)

				Baselin	e survey		Impact monitoring								
		Stream		Oc	:t-07				Ja	in-09					
		Transect	Т	1	Tž	2	Refe	rence		<u>-1</u>	, , , , , , , , , , , , , , , , , , , ,	Г2			
			Height (cm)	%	Height(c m)	%	Height(cm)	%	Height(cm)	%	Height(cm)	%			
Family	Species	Chinese name													
Asteraceae	Mikania micrantha	薇甘菊	0.4	15	1	40	0.5	5	0.5	5					
Moraceae	Ficus hispida	對葉榕	1	2			5	5			2	10			
Ulmaceae	Celtis sinensis	朴樹	5	2							6	15			
Gramineae	Microstegium ciliatum	剛秀竹	1.2	45	1.2	30			0.8	10	0.5	12			
Euphorbiaceae	Macaranga tanarius	血桐	2	2			5	5	3	5	1.5	4			
Araceae	Alocasia odora	海芋	1.5	23							1.5	25			
Araceae	Colocasia esculenta	芋	0.3	<1	0.4	<1	0.3	2							
Myrtaceae	Cleistocalyx operculatus	水翁					0.4	10	7	5					
Athyriaceae	Callipteris esculenta	菜蕨			0.6	1	0.8	10			0.4	10			
Gramineae	Phragmites karka	卡開蘆					1.5	51							
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨	0.4	10							0.4	10			
Equisetaceae	Equisetum debile	筆管草			0.6	<1	0.3	2							
Asteraceae	Ageratum conyzoides	勝紅薊							0.4	2					
Commelinaceae	Commelina communis	鴨蹠草													
Solanaceae	Solanum nigrum	龍葵													
Euphorbiaceae	Mallotus paniculatus	白楸													
Gramineae	Eleusine indica	牛筋草													
Gramineae	Pennisetum purpureum	象草									3	4			
Asteraceae	Wedelia chinensis	蟛蜞菊													
Asteraceae	Bidens alba	白花鬼針草													
Gramineae	Panicum repens	枯骨草													
Cucurbitaceae	Benincasa hispida	冬瓜													
Bare Gound								10		73		10			

- Reference point was the sampling location outside the works area used to compare

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po stream (T1- Upper stream sampling site and T2 - Lower stream sampling site)

				I	npact m	onitor	ring			Ir	npact mo	nitori	ing	
		Stream			Jul-	09	.e				Jan-1	.0		
		Transect	Refere	ence	T1		T2	2	Refer	ence	T1		T2	2
			Height(cm)	%	Height(cm)	%	Height(cm)	%	Height(cm)	%	Height(cm)	%	Height(cm)	%
Family	Species	Chinese name												
Asteraceae	Mikania micrantha	薇甘菊	0.5	5				_	0.5	3	0.2	5	0.2	2
Moraceae	Ficus hispida	對葉榕	5	5			2	10	5	5				
Ulmaceae	Celtis sinensis	朴樹					6	15						
Gramineae	Microstegium ciliatum	剛秀竹					0.7	30						
Euphorbiaceae	Macaranga tanarius	血桐	5	5	3	5	1.5	5	5	5				
Araceae	Alocasia odora	海芋					2	30						
Araceae	Colocasia esculenta	芋	0.3	2	0.8	5			0.3	1				
Myrtaceae	Cleistocalyx operculatus	水翁	0.4	10	7	5			0.4	10	7	5		
Athyriaceae	Callipteris esculenta	菜蕨	0.8	10			0.4	2	0.8	6				
Gramineae	Phragmites karka	卡開蘆	1.5	51					1.5	53				
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨					0.4	2						
Equisetaceae	Equisetum debile	筆管草	0.3	2					0.3	2				
Asteraceae	Ageratum conyzoides	勝紅薊			0.4	2					0.2	2		
Commelinaceae	Commelina communis	鴨蹠草							0.2	5	0.2	5	0.2	5
Solanaceae	Solanum nigrum	龍葵		6									0.4	5
Euphorbiaceae	Mallotus paniculatus	白楸									0.3	5		
Gramineae	Eleusine indica	牛筋草			0.5	5						5		
Gramineae	Pennisetum purpureum	象草												
Asteraceae	Wedelia chinensis	蟛蜞菊												
Asteraceae	Bidens alba	白花鬼針草												
Gramineae	Panicum repens	枯骨草												
Cucurbitaceae	Benincasa hispida	冬瓜				0								
Bare Gound				10		78		6		10		73		88

- Reference point was the sampling location outside the works area used to compare

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po stream (T1- Upper stream sampling site and T2 - Lower stream sampling site)

				In	npact me		ing		Impact monitoring							
		Stream			Jul-						Jan-					
		Transect	Refere	ence	TI		T2	2	Refer	ence	T		Т	2		
			Height(cm)	%	Height(cm)	%	Height(cm)	%	Height (cm)	%	Height (cm)	%	Height (cm)	%		
Family	Species	Chinese name					0.5	10								
Asteraceae	Mikania micrantha	薇甘菊	0.5	20	0.5	60			0.5	10						
Moraceae	Ficus hispida	對葉榕	5	5												
Ulmaceae	Celtis sinensis	朴樹					4m	5								
Gramineae	Microstegium ciliatum	剛秀竹	1	35	1	5	0.5	10	1	15	1	5	0.5	2		
Euphorbiaceae	Macaranga tanarius	血桐	5	5							4m	5				
Araceae	Alocasia odora	海芋					2	10					0.4	3		
Araceae	Colocasia esculenta	芋														
Myrtaceae	Cleistocalyx operculatus	水翁	0.4	10					0.4	5	5m	5				
Athyriaceae	Callipteris esculenta	菜蕨	0.8	6												
Gramineae	Phragmites karka	卡開蘆	1.5	10					1.5	2						
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨														
Equisetaceae	Equisetum debile	筆管草										2				
Asteraceae	Ageratum conyzoides	勝紅薊		e G									0.3	2		
Commelinaceae	Commelina communis	鴨蹠 草			0.5	20							0.2	4		
Solanaceae	Solanum nigrum	龍葵											4			
Euphorbiaceae	Mallotus paniculatus	白楸														
Gramineae	Eleusine indica	牛筋草				0										
Gramineae	Pennisetum purpureum	象草														
Asteraceae	Wedelia chinensis	蟛蜞菊														
Asteraceae	Bidens alba	白花鬼針草									0.5	5		3		
Gramineae	Panicum repens	枯骨草														
Cucurbitaceae	Benincasa hispida	冬瓜											0.2	5		
Bare Gound				9		15		65		68		80		89		

- Reference point was the sampling location outside the works area used to compare

Table 5-2. Flora species recorded from belt transect survey at the Upper Tai Po stream (T1- Upper stream sampling site and T2 - Lower stream sampling site)

		· 200		ng				
		Stream			Jul-	11		
		Transect	Refer	ence	T1		Т	2
			Height (cm)	%	Height (cm)	%	Height (cm)	%
Family	Species	Chinese name		5				
Asteraceae	Mikania micrantha	燕甘菊	0.5	10		i i		
Moraceae	Ficus hispida	對葉榕			4			
Ulmaceae	Celtis sinensis	朴樹	1.5					
Gramineae	Microstegium ciliatum	剛秀竹	1	2				
Euphorbiaceae	Macaranga tanarius	血桐		8 2		i i		
Araceae	Alocasia odora	海芋	9	8 8				
Araceae	Colocasia esculenta	芋		2				
Myrtaceae	Cleistocalyx operculatus	水翁						
Athyriaceae	Callipteris esculenta	菜蕨		5 2				
Gramineae	Phragmites karka	卡開蘆	1.5	2				
Thelypteridaceae	Cyclosorus parasiticus	華南毛蕨	5-	8	4	2		
Equisetaceae	Equisetum debile	筆管草						
Asteraceae	Ageratum conyzoides	勝紅蓟	1.2	10				
Commelinaceae	Commelina communis	鴨蹠草		3	8			
Solanaceae	Solanum nigrum	龍葵		5 2			0.5	4
Euphorbiaceae	Mallotus paniculatus	白楸						
Gramineae	Eleusine indica	牛筋草	- Co	5	2		0.3	5
Gramineae	Pennisetum purpureum	象草						
Asteraceae	Wedelia chinensis	蟛蜞菊		2	2			
Asteraceae	Bidens alba	白花鬼針草	1.5				0.2	2
Gramineae	Panicum repens	枯骨草	1.5	5				
Cucurbitaceae	Benincasa hispida	冬瓜		р 2		í i	1	
Bare Gound				71		100		89

- Reference point was the sampling location outside the works area used to compare

Contract No. DC/2007/06

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

Ecological Impact Monitoring Programme

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations for Upper Tai Po River. (PC1- Upper stream section and PC2- Lower stream section)

					Baseline sur	теу		Impact mor	nitoring		Impact moni	toring		Impact mor	nitoring	all a la l
Common Name	Species name	Chinese name	Status*	Rarity*	0	et-07		J	an-09		J	ul-09		J	an-10	
					Abu	undance		Ab	undance		Abı	undance		Abı	indance	:
					Т	PC1	PC2	Т	PC1	PC2	Т	PC1	PC2	Т	PC1	PC2
Black Kite	Milvus lineatus	麻鷹	R,WV	с	+									+		
Black -crown Night Heron	Nycticorax nyxticorax	夜鷺	R,WV	с						-				-		
Black-collared Starling	Sturnus nigricollis	黑領椋鳥	R	с	+	1	1							+		
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R	С	+	3	2	++	5	6	++	4	7	+++	7	6
Chinese Pond Heron	Ardeola bacchus	池騰	R	с	+		-	++	6	3	+	2	3	++	3	3
Common Kingfisher	Alcedo atthis	普通翠鳥	PM, WV	с	+		-		~		-					-
Common Koel	Eudynamys scolopacea	噪鵑	R	c	+				3	2						2
Common Sandpiper	Actitis hypoleucos	磯鷸	WV&PM	с	+									-		-
						-										
Common Tailorbird	Orthotomus sutorius	長尾縫葉鶯	R	C	+	-	1	+	1	1	+		1	++		10
Crested Myna	Acridotheres cristatellus	八哥	R	c		1	_									┣─
Domestic pigeon	Columba sp.	鴿		C		3			-							<u> </u>
Great Coucal	Centropus sinensis	褐翅鴉鵑	R	с	+	1										
Grey Wagtail	Motacilla cinerea	灰鶺鴒	WV	С						_			_			
Japanese White Eye	Zosterops japonica	暗綠繡眼鳥	R	С		2		++	2	3	+	1	4	+++	4	6
Little Egret	Egretta garzetta	小白鷺	R	С	+		_	+	1		+		1	+		1
Rufous-backed Shrike	Lanius schach	棕背伯勞	R	с										+	1	
Magpie	Pica pica	喜鵲	R	С		1										
Magpie Robin	Copsychus saularis	鵲鴝	R	С	+	1	1				+	1	3	+	2	1
Olive Backed pipit	Anthus hodgsoni	樹鷚	wv	с	+			+	1	3						
Crested bulbul	Pycnonotus jocosus	紅耳鵯	R	С	+	2		+++	6	7	++	2	6	+++	4	5
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R	С	+		2	+	1		+	1	3	+	1	2
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R	С												
Eurasian Tree Sparrow	Passer montanus	麻鹊	R	С	+	3	2							+		
Violet Whistling Thrush	Myiophoneus caeruleus	紫嘯鶇	R	с	+				6 <u> </u>	0						
White Wagtail	Motacilla alba	白鶺鴒	WV, R	С	+		1							++	2	3
White-breasted Waterhen	Amaurornis phoenicurus	白胸苦惡鳥	R	с	+				9 N	<u></u>				÷		1
Yellow Bellid Prinia	Prinia flaviventris	灰頭鷦鶯	R	С	+											
Yellow Wagtail	Motacilla flava	黃鶺鴒	WV&PM	с		1										
Little Swift	Apus affinis	小白腰雨燕	R, SpM	С												
Green Sandpiper	Tringa ochropus	白腰草鷸	wv	U												
Bam Swallow	Hirundo rustica	家燕	SV, SpM	С												
Great Tit	Parus major (commixtus)	大山雀	R	с										+	2	1
Blue Magpie	Urocissa erythrorhyncha	紅咀藍鵲	R	с						5				+		2
Scarlet Minivet	Pericrocotus flammeus	赤紅山椒鳥	R	с							1			+		
Scarlet-backed Flowerpecke	Dicaeum cruentatum	朱背啄花鳥	R	С										+		
Common Blackbird	Turdus merula	烏鶇	WV, PM	С						2- 						
Silver-eared Mesia	Leiothrix argentauris	銀耳相思鳥	R	С							1					
Sooty-headed Bulbul	Pycnonotus aurigaster	白喉紅臀鵯	R	с						2.				1. 1.		\vdash
Number of birds									23	2	3	11	28		26	43

Contract No. DC/2007/06

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

Ecological Impact Monitoring Programme

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations for Upper Tai Po River. (PC1- Upper stream section and PC2- Lower stream section)

					Baseline su	rvey		Impact me	onitoring		Impact moni	itoring		Impact mo	nitoring	(
Common Name	Species name	Chinese name	Status* Rarity* Oct-07				Jan-09		J	ul-09	J	Jan-10				
					Ab	Abundance		Abundance			Abundance			Abundance		
					Т	PC1	PC2	Т	PC1	PC2	Т	PC1	PC2	Т	PC1	PC2
No. of species									8 8	6	8	6	8	18	9	13

Note: R – Resident; WV – Winter visitor; PM – Passage migrant; C – Common; U – Uncommon; SpM – Spring migrant; T – transect count; PC1 – Point count location 1; PC2 – Point count location 2

*Sourced from Carey, G.J., Chalmers, M.L., Diskin, D.A., Kennerley, P.R., Leader, P.J., Leven, M.R., Lewthwaite, R.W., Melville, D.S., Tumbull, M. and Yung, L. (2001) The Avifauna of Hong Kong. Hong Kong Bird Watching Society.

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River :

Ecological Impact Monitoring Programme

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations for Upper Tai Po River. (PC1- Upper stream section and PC2- Lower stream section)

					Impact monitoring			Impa	ct moni	toring	Impact monitoring				
Common Name	Species name	Chinese name	Status*	Rarity*	Ju	l-10			Jan-11		Jul-11				
					Abu	ndance		А	bundan	ice	Abundance				
					T PC1 PC2		PC2	Т	PC1	PC2	т	PC1	PC2		
Black Kite	Milvus lineatus	麻鷹	R,WV	с				+							
Black -crown Night Heron	Nycticorax myxticorax	夜騰	R,WV	с	+			+							
Black-collared Starling	Sturnus nigricollis	黑領椋鳥	R	с	+		1	+			+		1		
Chinese Bulbul	Pycnonotus sinensis	白頭鹎	R	с	+++	6	3	+	4	2	+	1			
Chinese Pond Heron	Ardeola bacchus	池鷺	R	с	++	2	2	+	1	1	+	1			
Common Kingfisher	Alcedo atthis	普通翠鳥	PM, WV	С	+			+							
Common Koel	Eudynamys scolopacea	噪鹛	R	с				+			+				
Common Sandpiper	Actitis hypoleucos	磁調	WV&PM	с				+			+				
Common Tailorbird	Orthotomus sutorius	長尾縫葉鶯	R	с	+	1		+		1	+	\vdash			
Crested Myna	Acridotheres cristatellus	八哥	R	с	+	-		+	2		+	┢	2		
Domestic pigeon	Columba sp.	鴿		с	+		\vdash				+				
Great Coucal	Centropus sinensis	褐翅鴉鵑	R	с	+	1		+			+				
Grey Wagtail	, Motacilla cinerea	灰鶺鴒	WV	с				+	2	1	-	\vdash			
Japanese White Eye	Zosterops japonica	暗綠繡眼鳥	R	с	++	3	2	+	5	2	+	┢			
Little Egret	Egretta garzetta	小白鷺	R	С	+	1	1		1	1	+				
Rufous-backed Shrike	Lanius schach	棕背伯勞	R	С	+	1		-			+	┢──			
Magpie	Pica pica	喜鹊	R	с			\vdash					┢			
Magpie Robin	Copsychus saularis	韻鴝	R	С	+	2	2	+	1	1	+	1			
Olive Backed pipit	Anthus hodgsoni	樹鹅	wv	с				+							
Crested bulbul	Pycnonotus jocosus	紅耳鵯	R	С	++	3	2	+	2	1	+	ī	2		
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R	С	+	1	1	+	1	1	+	1			
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R	с											
Eurasian Tree Sparrow	Passer montanus	麻鹅	R	С	+	4	3	+			+		1		
Violet Whistling Thrush	Myiophoneus caeruleus	紫嘯鶇	R	с											
White Wagtail	Motacilla alba	白鶺鴒	WV, R	с	+	1	1	+	2	2	+				
White-breasted Waterhen	Amaurornis phoenicurus	白胸苦惡鳥	R	С	+		1								
Yellow Bellid Prinia	Prinia flaviventris	灰頭鷦鶯	R	С				+			+				
Yellow Wagtail	Motacilla flava	黄鶺鴒	WV&PM	с											
Little Swift	Apus affinis	小白腰雨燕	R, SpM	С											
Green Sandpiper	Tringa ochropus	白腰草鷸	WV	U				+							
Barn Swallow	Hirundo rustica	家燕	SV, SpM	с							+				
Great Tit	Parus major (commixtus)	大山雀	R	С	+	1									
Blue Magpie	Urocissa erythrorhyncha	紅咀藍鵑	R	С											
Scarlet Minivet	Pericrocotus flammeus	赤紅山椒鳥	R	С											
Scarlet-backed Flowerpecke	Dicaeum cruentatum	朱背啄花鳥	R	С											
Common Blackbird	Turdus merula	烏鶫	WV, PM	с				+							
Silver-eared Mesia	Leiothrix argentauris	銀耳相思鳥	R	С				+							
Sooty-headed Bulbul	Pycnonotus aurigaster	白喉紅臀鵯	R	с							+		1		
Number of birds						27	19		21	13		5	7		

Contract No. DC/2007/06

River Improvement Works in Upper Lam Tsuen River, She Shan River ;

Ecological Impact Monitoring Programme

Table 5-3 Avifauna recorded along survey transects and at two selected point count locations for Upper Tai Po River. (PC1- Upper stream section and PC2- Lower stream section)

					Impact moni	toring		Impa	ct moni	toring	Impa	ct moni	toring
Common Name	Species name	Chinese name	Status*	Rarity*	Ju	ı l- 10			Jan-11			Jul-11	0.000
					Abu	ndance		А	bundan	ice	А	bundan	ice
					Т	PC1	PC2	Т	PC1	PC2	Т	PC1	PC2
No. of species					19	13	11	23	10	10	20	5	5

Note: R – Resident; WV – Winter visitor; PM – Passage migrant; C – Common; U – Uncommon; SpM – Spring migrant; T – transect count; PC1 – Point count location 1; PC2 – Point count location 2

*Sourced from Carey, G.J., Chalmers, M.L., Diskin, D.A., Kennerley, P.R., Leæder, P.J., Leven, M.R., Lewthwaite, R.W., Melville, D.S., Turnbull, M. and Yung, L. (2001) The Avifauna of Hong Kong. Hong Kong Bird Watching Society.

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

Ecological Impact Monitoring Programme

					Baseline survey	Impact monitoring					
Species	Common name	Chinese name	Status	Commonness	Oct-07	Jan-09	Jul-09	Jan-10	Jul-10		
Orthetrum chrysis	Red-faced Skimmer	華麗灰蜻	NP	VC		+	+		+		
Crocothemis servilia servilia	Crimson Darter	红蜻	NP	VC	+		+		+		
Copera marginipes	Yellow Featherlegs	黃狹扇蟌	NP	VC							
Prodasineura autumnalis	Black Threadtail	烏齒原蟌	NP	VC							
Trithemis festiva	Indigo Dropwing	慶褐蜻	NP	VC							
Neurobasis chinensis	Chinese Greenwing	華艷色蟌	NP	С					+		
Rhinocypha perforata	Common Blue Jewel	三斑鼻蟌	NP	VC				_	+		
Pantala flavescens	Wandering Glider	黃蜻	NP	VC	+		+	+	+		
Orthetrum glaucum	Common blue skimmer	黑尾灰蜻	NP	VC	+	+	+				
Trithemis Aurora	Crimson dropwing	曉褐蜻	NP	VC	+				+		
Urothemis signata signata	Scarlet Basket	赤斑曲鈎脈蜻	NP	С							
Pseudagrion rubriceps rubriceps	Orange-faced Sprite	丹頂斑蟌	NP	С							
Euphaea decorata	Black-banded Gossamerwing	方帶幽蟌	NP	VC							

Table 5-4. Odonate species recorded at the Upper Tai Po stream

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncommon; "C" - Common

"+" - Species exists in the survey site

"++" - Species common in the survey site

"+++" - Species abundance in the survey site

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

Ecological Impact Monitoring Programme

			Impact monitorin				
Species	Common name	Chinese name	Jan-11	Jul-11			
Orthetrum chrysis	Red-faced Skimmer	華麗灰蜻					
Crocothemis servilia servilia	Crimson Darter	红蜻					
Copera marginipes	Yellow Featherlegs	黃狹扇蟌					
Prodasineura autumnalis	Black Threadtail	烏齒原蟌					
Trithemis festiva	Indigo Dropwing	慶褐蜻		+			
Neurobasis chinensis	Chinese Greenwing	華艷色蟌					
Rhinocypha perforata	Common Blue Jewel	三斑鼻蟌					
Pantala flavescens	Wandering Glider	黄蜻	+	++			
Orthetrum glaucum	Common blue skimmer	黑尾灰蜻					
Trithemis Aurora	Crimson dropwing	曉褐蜻					
Urothemis signata signata	Scarlet Basket	赤斑曲鈎脈蜻		+			
Pseudagrion rubriceps rubriceps	Orange-faced Sprite	丹頂斑蟌		+			
Euphaea decorata	Black-banded Gossamerwing	方帶幽蟌		+			

Table 5-4. Odonate species recorded at the Upper Tai Po stream

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncommon; "C" - Common

"+" - Species exists in the survey site

"++" - Species common in the survey site

"+++" - Species abundance in the survey site

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

Ecological Impact Monitoring Programme

				Baselin	e survey	vey Impact monitoring Impact monitoring			ng	Impact	monitor	ing	Impact monitoring				
Species	Chinese name			Oc	t-07	Jan-09 Jul-09		Ja	in-10		Jul-10						
Invertebrates		Sampli	ng point	T1	T2	Reference	T 1	T2	Reference	T1	T2	Reference	T1	T2	Reference	T1	T2
Pomacea canaliculata	蘋果螺	NP	VC					+	+		++	+		+	+		++
Physella acuta	尖膀胱螺	NP	VC														
Melanoides tuberculata	瘤擬黑螺	NP	VC				· · ·	+	+	+	+	+		÷	+		++
Radix plicatulus	羅白螺	NP	VC	1.	++			+			+		+	÷		+	+
Biomphalaria sp.	10	NP	VC		+		-	+			+		+	÷		÷	+
Brotia hainanensis		NP	VC	++	+	++						++	+		++	+	
Sinotaia quadrata	田螺	NP	VC					++		+	++			++			+++
Indobaetis sp.		NP	VC	+		+			+			+	+		+	+	
Baetis sp.		NP	VC	+		÷			+			+	+		+	+	
Chironomus sp.	蠓幼虫	NP	VC	+	+	+			+			+		+	+	+	+
Mnais sp.		NP	VC		+	+			+			+	+		+	+	
Orthetrum sp.	-	NP	VC	+	÷	+	-		+			+	+	1	+	÷	
Perla sp		NP	VC										+			+	
Aulocodes sp.		NP	VC										+			+	
Tipulidae spp.		NP	VC										+			+	
Arctopora sp.		NP	VC													+	
Anisocentropus sp.		NP	VC					-								+	
				12.							1						
Crustacea												1 1					
Macrobrachium hainanense	海南沼蝦	NP	VC	1		+		1	+			+	+	1	+	÷	+
Caridina contonensis	廣東米蝦	NP	VC			÷			+			+	++		+	++	+
Cryptopotamon anacoluthon	鰓刺溪蟹	NP	С			+			+			+			+	+	
				j.													
Fish																	
Gambusia affinis	食蚊魚	NP	VC	+	+			+		+	+	1	+	++		+	++
Poecilia reticulata	孔雀花魚將	NP	VC	+	+			+			+		+	+++		+	+++
Schistura fasciolata	橫紋南鰍	NP	С			+			+	+		+	+		+	÷	
Rhinogobius spp.	鰕虎魚	NP	С		-	+	-	+	+		+	+	++		+	++	

Table 5-5 Aquatic Macro invertebrates recorded at Upper Tai Po River (T1- Upper stream sampling site and T2- Lower stream sampling site)

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncommon; "C" - Common

"+" - Species exists in the survey site

"++" - Species common in the survey site

"+++" - Species abundance in the survey site

- Reference point was the sampling location outside the works

area used to compare the with the data within works area.

River Improvement Works in Upper Lam Tsuen R

Ecological Impact Monitoring Programme

Table 5-5 Aquatic Macro invertebrates restream sampling site)

			Impact	monitori	ng	Impact monitoring					
Species	Chinese name			Ja	an-11		J	ul-11			
Invertebrates		Sampli	ng point	Reference	T1	T2	Reference	T 1	T2		
Pomacea canaliculata	蘋果螺	NP	VC			+	+		+		
Physella acuta	尖膀胱螺	NP	VC	+	+	++					
Melanoides tuberculata	瘤擬黑螺	NP	VC	+			+		+		
Radix plicatulus	羅白螺	NP	VC				+		+		
Biomphalaria sp.		NP	VC				+				
Brotia hainanensis		NP	VC	+			+	+			
Sinotaia quadrata	田螺	NP	VC				+				
Indobaetis sp.		NP	VC	+							
Baetis sp.		NP	VC	+							
Chironomus sp.	蠓幼虫	NP	VC	+	+	+	+	+	+		
Mnais sp.		NP	VC	+	+	+	+	+			
Orthetrum sp.		NP	VC	+	+		+				
Perla sp		NP	VC								
Aulocodes sp.	-	NP	VC								
Tipulidae spp.		NP	VC								
Arctopora sp.		NP	VC								
Anisocentropus sp.		NP	VC								
Crustacea											
Macrobrachium hainanense	海南沼蝦	NP	VC	+	+		+				
Caridina contonensis	廣東米蝦	NP	VC	+	+	+	+	+			
Cryptopotamon anacoluthon	鰓刺溪蟹	NP	С				+				
Fish											
Gambusia affinis	食蚊魚	NP	VC		+	+	+				
Poecilia reticulata	孔雀花魚將	NP	VC		+	+	+				
Schistura fasciolata	橫紋南鰍	NP	С	+			+				
Rhinogobius spp.	鰕虎魚	NP	С	+			+				

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncomr

"+" - Species exists in the survey site

"++" - Species common in the survey sit

"+++" - Species abundance in the surve

- Reference point was the sampling locat

area used to compare the with the data v

-			8	aselin	e surve	Impact r	nonito	ring	Impact r	nonito	ring	Impact	monite	ring	Impact	monito	ring	Impact	t monito	ring	Impact	: monito	ring
				Oc	t-07	Ja	n-09		Ju	1-09		Ja	an-10		J	ul-10		J	lan-11			Jul-11	
Species		Status	Common ness	T1	T2	Reference	T1	T2	Reference	T 1	T 2	Reference	T1	T2	Reference	T1	T2	Reference	T1	T2	Reference	T1	T2
Xiphophorus hellerii	劍尾魚	NP	С	++		+			+	+	++	+	+	++	+	+	+++	+	+		+		+
Puntius semifasciolatus	七星魚	NP	С	+		+	+		+	+	+	+	+	++	+	+	++	+			+		+
Poecilia reticulata	孔雀花魚將	NP	С	++	+			++			+		+	+++		+	++			+	+		+
Pseudogastromyzon myersi	麥氏擬腹吸鰍	NP	С	+		+			+			+			+	+		++	++		+	+	
Gambusia affinis	食蚊魚	NP	VC	+	++			+		+	+		+	++		+	+++	+	+	+	+	+	+
Xiphophorus variatus	雜色劍尾魚	NP	С	+													++				+		+
Parazacco spilurus	異鱲	V and NP	С	++		+	+		+			+			+	+		+	+		+		
Rhinogobius spp.	鰕虎魚	NP	С	+		+	+		+			+	++	+	+	++	+	+			+		
Schistura fasciolata	橫紋南鰍	NP	С	+		+			+	+		+			+	+		+	+		+		+
Oreochromis niloticus	尼羅口孵非鯽	NP	С	+													+			+	+		+
Misgurnus anguillicaudatus	泥鰍	NP				+			+			+			+			+			+		
Cyprinus carpio var. viridiviolaceus	錦鯉											-				+							
		2x2m fis	sh number	70	60	15	8	25	10	20	100	10	2	8	10	7	100	10	5	20	6	2	4

Table 5-6 Fish species recorded at Upper Tai Po River (T1- Upper stream sampling site and T2 - Lower stream sampling site)

Note: NP - Not protected in Hong Kong

"VC" - Very Common; "UC" - Uncommon; "C" - Common

"+" - Species exists in the survey site

"++" - Species common in the survey site

"+++" - Species abundance in the survey site

V – Listed as vulnerable in China Fish Red Data Book

- Reference point was the sampling location outside the works area used to compare with the data within works area.

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

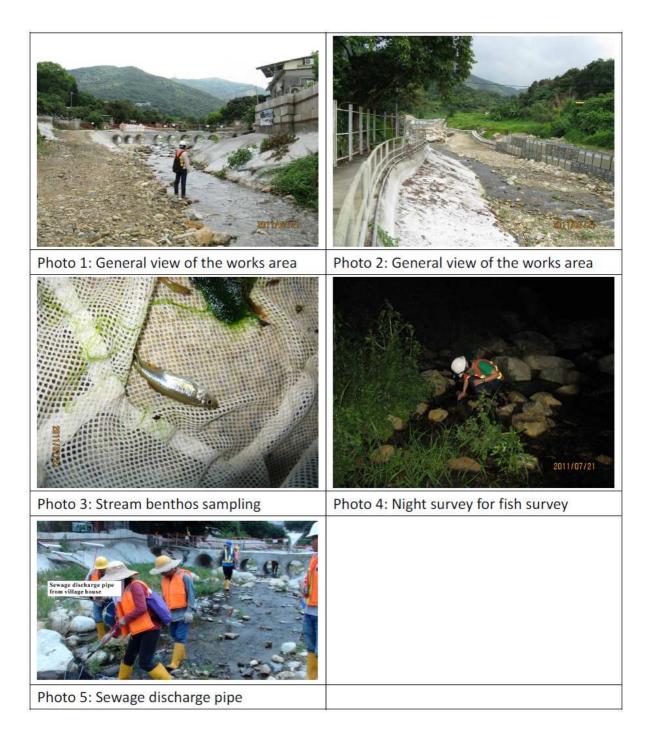
Ecological Impact Monitoring Programme

Stream	Oct-07 (baseline	Jan-09		Jul-09		Jan-10		Jul-10		Jan-11		Jul	-11
Replicate	T1	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
DO (mg/L)	8.2	9	4	6.3	6	9.4	8.8	9	6.5	10.5	9.8	9	8.2
pН	6.9	7.18	6.86	7.28	6.96	8.2	8.5	7.3	7.2	6.9	7.1	7.1	7.3
Nitrate (mg N/L)	0.39	0.1	1.3	0.07	1.32	0.12	0.71	0.1	0.5	0.1	0.5	0.1	0.5
Ammonia (mg/L)		PO4-P P/L): <	(μg 100	0.01	0.22	<0.01	0.2	0.1	0.2	0.01	0.3	0.01	0.2
Salinity (ppt)	<0.1	<0.1	0.1	0	0	0	0	0	0	0	0	0	0
Conductivity (mS/cm)	40	40	190	34	118	42	72	49	43	50	60	50	60
BOD (mg/L)	<2	<2	12	<2	<2	<2	2	<2	2	2	<2	<2	2
Water flow at pool	0.01-0.2	0.01	-0.2	0.01	-0.2	0.01	-0.2	0.01	-0.2	0.01	-0.2	0.01	-0.2
Water flow at riffle	0.2-0.5	0.2	-0.5	0.2	-0.5	0.2	-0.5	0.2-	-0.5	0.2	-0.5	0.2-	-0.5
Sand (%)	15	1	5	15	25	15	25	15	25	15	25	15	15
Stone (%)	80	8	0	80	70	80	70	80	70	80	70	80	70
Mud (%)	5		5	5	5	5	5	5	5	5	5	5	5
Concrete(%)	0	0	0	0	0	0	0	0	0	0	0	0	10

Table 5-7 Abotic data for Upper Tai Po River (T1- Upper stream sampling site and T2- Lower stream sampling site)

PHOTOS

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Ecological Impact Monitoring Report



Case No.	EPD Complaint Reference	Date Received	Incident Location	Media/ Nature
9(E*)	EP/3/N05/RN/24567-08	05/11/2008	UTPR	Muddy Water
10(E*)	EP/3/N05/RN/24849-08	10/11/2008	UTPR	Muddy Water
12(E*)	EP/3/N05/RN/26619-08	28/11/2008	UTPR, Wilson Trial	Muddy Water
15(P#*)	NA	27/11/2008	UTPR Wilson Drive	Dust Generation
21(E*)	ICC#1-174345035	24/3/2009	UTPR near Sha Po Tsai Village	Noise
25(E*)	ICC#1-219109670	06/02/2010	Tai Po River	Noise generation at night
27(E*)	EP3/N05/RN/00004775-10	12/03/2010	Tai Po River	Muddy Water
28(#)	NA	07/04/2010	Tai Po River	Noise generation
30(E*)	NCF-N05/RN/00007763-10	21/04/2010	Tai Po River	Muddy Water
31(E*)	EP3/N05/RN/00009177-10	10/05/2010	Tai Po River	Muddy Water
34(E*)	EP3/N05/RN/00023471 -10	11/11/2010	Tai Po River	Muddy Water
35(E*)	EP3/N05/RN/00023818 -10	16/11/2010	Tai Po River	Muddy Wate
36(E*)	EP3/N05/RN/00003752-11	02/03/2011	Tai Po River	Noise Generation
37(E#)	NA	07/03/2011	Tai Po River	Dust Generation
38(E*)	EP3/N05/RN/00004753-11	16/03/2011	Tai Po River	Muddy Wate
39(E*)	EP3/N05/RN/00008234-11	03/05/2011	Tai Po River	Noise generation or Public holida
40(E*)	ECRS No. 3270	06/05/2011	Tai Po River	Dust Generation
42(E*)	EP3/N05/RN/00009991-11	24/5/2011	Tai Po River	Noise Generation
45(E*)	ECRS No. 5769	21/06/2011	Tai Po River	Stagnant Wate generation
46(E*)	46(E*) EP3/N05/RN/00018630-11		Tai Po River	Dust and Nois generation
47(E*)	EP3/N05/RN/00018630-11	14/09/2011	Tai Po River	Dust generatio

Appendix I.: Summary of Total Accumulative Complaint Received

* : transferred from EPD / DSD

Appendix II. The mitigation measure for Upper Tai Po River construction site.

Dust

- Arrange the staff to clean the upper access during the vehicle pass the road.
- The access at downstream would be clean 2 times in one day.
- The wheel washing bay was provided to prevent the dust erosion.
- The wheels of the vehicles are required to be cleaned before leave.

Muddy Water

- The rock has been used to create a river bank to reduce the sand and/or mud is washed into river bank.
- Watering along the access road is carried out every day.
- Sand Bags is provided to prevent the muddy water discharge to the river. The muddy water has been treated by effective Wet Seps to minimize the water penetrate through the soil to river.

Noise

- Work 25mins then take a rest 10mins
- noise barrier
- Machines would not be operated at same time and point besides work far away from Noise sensitive receiver
- Regular maintenance