# 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 December 2011

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

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Page.2

## **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	0
4.0 Noise monitoring results	0
5.0 Vibration monitoring results	0
6.0 Environmental issues and actions1	1
6.1 Site inspections and key environmental issues1	1
6.2 Non-compliance14	4
6.3 Recommendations14	4
6.4 Implementation status and effectiveness of the mitigation measures1	5
7.0 Waste management status	6
8.0 Status of environmental licensing and permit1	7
9.0 Future key issues	8
10.0 Conclusion	9
Appendix A: Event and action plan for ecology	0
Appendix B: Action and limit level for construction noise2	3
Appendix C: Reference standards for vibration2	5
Appendix D: Noise monitoring results, graphical plots and location plan2	7
Appendix E: Monitoring schedule for the present and next reporting period4	0
Appendix F: Cumulative complaint log4	3
Appendix G: Implementation status of environmental protection and mitigation	
measures44	4
Appendix H: Cumulative waste flow table4	8
Appendix I: Construction programme (Rev. No. 18)4	9
Appendix J: Complaint Investigation Reports and Log	9

#### **Executive summary**

This is the fortieth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1<sup>st</sup> December 2011 to 31<sup>st</sup> December 2011. Construction of retaining walls TR2 & TR3, construction of inclined no-fines / mass concrete walls, construction of additional boulder trap, construction of gabion wall TG 3B, construction of footing and abutment of footbridges TB 03, TB 05 and TB 06 were the major site activities being carried out in this reporting period.

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

The next ecological monitoring was scheduled on 16<sup>th</sup> & 19<sup>th</sup> January 2012. 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.

There was no non-compliance events recorded in this reporting month.

A complaint incident regarding dust emission and earth deposition to public area was referred by EPD on 1<sup>st</sup> December 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 TR 2 & TR 5, additional boulder trap, gabion wall TG 3B, footing & abutment of footbridge TB 03, TB 04 & TB 07 and demolition of the temporary check dam 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 fortieth 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 December 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 15<sup>th</sup> 2008 and anticipated to complete in April 2012.

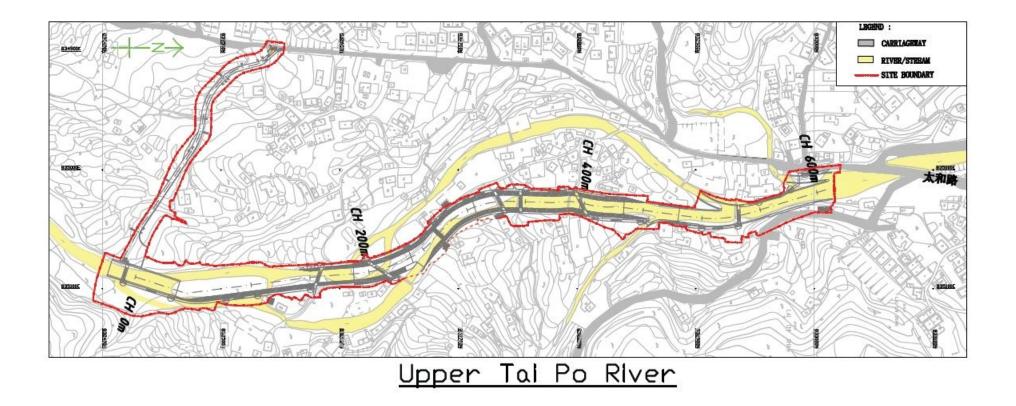
## 2.3 Proposed construction sequences

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 Fortieth 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.) Construction of retaining walls TR2 & TR3
- 2.) Construction of inclined no-fines / mass concrete walls
- 3.) Construction of additional boulder trap
- 4.) Construction of gabion wall TG 3B
- 5.) Construction of footing and abutment of footbridges TB 03, TB 05 and TB 06

## 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 TR 2 & TR 5
- 2.) Additional boulder trap, gabion wall TG 3B
- 3.) Footing & abutment of footbridge TB 03, TB 04 & TB 07
- 4.) Demolition of the temporary check dam

## 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

A complaint incident regarding dust emission and earth deposition to public area was referred by EPD on 1<sup>st</sup> December 2011. ET has conducted investigations with representatives from Contractor on 5<sup>th</sup> December 2011 and recommendations were given to the contractor and mitigation measures were implemented to minimize environmental impacts generated from project works. In total, twenty-two complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

## **3.0 Ecological monitoring results**

No ecological survey was carried out in this reporting period. The next ecological monitoring was scheduled on 16<sup>th</sup> & 19<sup>th</sup> 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.

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  $2^{nd}$ ,  $9^{th}$ ,  $16^{th}$ ,  $23^{rd}$  and  $30^{th}$  December 2011. Measured L<sub>eq (30min)</sub> results ranged from 45.8dB(A) to 71.0dB(A).

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 1<sup>st</sup>, 7<sup>th</sup>, 14<sup>th</sup>, 22<sup>nd</sup> and 28<sup>th</sup> December 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 5<sup>th</sup>, 12<sup>th</sup>, 19<sup>th</sup>, 28<sup>th</sup> and 31<sup>st</sup> December 2011. Details of findings were summarized in Table 6.2.

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
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	
26 Oct 11	The roots of trees was observed to be damaged by construction activities at approximate ch.400.	Observation	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.	The exposed tree roots at approximate ch.400 of UTPR were restored	1 Dec 11	
16 Nov 11	Cement bags was found near the river at ch.450 of UTPR.	Observation	Contractor was urged to remove the cement bags away from river channel to prevent river contamination and assign proper location for storage.	The Cement bags placed near the river at ch.450 were removed.	7 Dec 11	
24 Nov 11	Earthy stockpile was observed at ch.50.	Observation	Contractor was advised to cover the stockpile to avoid air pollution and surface runoff.	The earthy stockpile at ch.50 of UTPR was removed by Contractor.	14 Dec 11	
24 Nov 11	Overflow of river water and construction vehicle operating within the river were observed at ch.500, which seriously contaminated the river	Observation	Contractor was urged to provide proper maintenance to the river channel and proper access for the vehicles to avoid further contamination to the river.	The river bank was maintained and no construction vehicle operating within the river was observed.	1 Dec 11	
24 Nov 11	Muddy waters and muddy surface runoff	Observation	Contractor was advised to cover exposed soil of the	Geo-textile covering for river bank was provided	1 Dec 11	

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
	from exposed river banks were observed near ch.200 and ch.400 of UTPR which polluting the river quality of downstream.		river bank with geo-textile to avoid soil erosion and surface runoff. Contractor was also reminded to provide treatment to muddy water and muddy surface runoff before discharging into the river.	at ch.200 and ch.400. No muddy waters and muddy surface runoff was observed.		
1 Dec 11	Fuel container without secondary containment measure and oil stain on ground was observed at ch.0.	Observation	Contractor was advised to provide drip tray for fuel container storage to avoid soil or river contamination and remove the contaminated soil as chemical waste.	The fuel container was removed.	14 Dec 11	
1 Dec 11	The haul road of UTPR was very dry and dusty.	Observation	Contractor was reminded to provide water spraying for dust suppression.	Water spraying was being carried out on the haul road for dust suppression.	14 Dec 11	
1 Dec 11	Wire was hanged on a retaining tree and a hoarding was attached on that tree at ch.300.	Observation	Contractor was advised to remove the wire and relocate the hoarding to avoid damage on the retaining tree.	The wire tied on the retaining tree at ch.300 was removed.	7 Dec 11	
7 Dec 11	Construction material was stockpiled near a retain tree and wire was tied on the tree at ch.400. Also, tree protective net was missed.	Observation	Contractor was advised to set up tree protection zone by erecting fencing at dripline. No stockpile inside the protection zone was allowed.	As reported by Contractor, the retain trees (No. B117 & B117) were not inside the site boundary. Contractor was reminded to provide necessary protective measure for the retain tree to avoid damage on the trees.	14 Dec 11	
7 Dec 11	A fuel container was observed without secondary containment at ch.550.	Observation	Contractor was reminded to provide drip tray for the fuel container to provide oil leakage and soil contamination.	The fuel container was removed.	14 Dec 11	
7 Dec 11	Wrapping of breaker tips and water spraying were missing for the rock breaking activities at ch.0.	Observation	Contractor was urged to wrap the breaker tips with acoustic material and provide water spraying to minimize noise and dust impacts to the near sensitive receivers.	To be followed during the next reporting period.	Ongoing	
7 Dec 11	Construction equipments and materials were placed on the river banks and in the river channel at ch.450.	Observation	Contractor was urged to remove the equipments and materials and assign a temporary storage area which away from the river channel to maintain good housekeeping and prevent river contamination.	The construction equipments and materials placed on the river banks and in the river channel at ch.450 were removed	14 Dec 11	
14 Dec 11	The tree protective net was broken at ch.0.	Observation	Contractor was reminded to repair the protective net as soon as possible.	The tree protective net was at ch.0 was repaired by Contractor		
14 Dec 11	Muddy water was observed at ch.500	Observation	Contractor was advised to cover exposed river banks	Earth bunds were formed and no muddy	22 Dec 11	

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
	which potentially caused by soil erosion.		and soil by impervious sheeting to prevent surface runoff and erosion. Also, Contractor was reminded to provide sedimentation tank for treating the contaminated site water before discharge into water body.	water and surface runoff was observed at ch.500		
22 Dec 11	Oil stain was observed at ch.0.	Observation	Contractor was reminded to remove the contaminated soil as chemical waste and provide regular maintenance for the construction machine.	To be followed during the next reporting period.	Ongoing	
22 Dec 11	Construction waste was observed near the river channel at ch.100.	Observation	Contractor was recommended to remove the waste as soon as possible and assign designated area for temporary storage of construction material and waste.	To be followed during the next reporting period.	Ongoing	
22 Dec 11	The haul road along UTPR was very dry and dusty.	Observation	Contractor was advised to provide regular water spraying for dust suppression.	To be followed during the next reporting period.	Ongoing	
28 Dec 11	The tree protective nets were observed to be damaged by construction material at ch.0.	Observation	Contractor was recommended to repair the net immediately for proper tree protection. Contractor was also reminded to avoid carrying out construction activities and stockpiling near the tree protection zone.	To be followed during the next reporting period.	Ongoing	
28 Dec 11	General waste was found inside the river channel at ch.200.	Observation	Contractor was recommended to remove the waste as soon as possible and assign designated area for temporary storage of construction material and waste.	To be followed during the next reporting period.	Ongoing	
28 Dec 11	Wrapping of breaker tips and water spraying were missing for the rock breaking activities at ch.500.	Observation	Contractor was urged to wrap the breaker tips with acoustic material and provide water spraying to minimize noise and dust impacts to the near sensitive receivers.	To be followed during the next reporting period.	Ongoing	
28 Dec 11	Muddy water was observed to be entering into the river directly at ch.100.	Observation	Contractor was urged to provide sandbag barriers to stop muddy water and surface runoff further entering the river. Contractor was seriously reminded to provide sedimentation tanks for proper water treatment and discharge.	To be followed during the next reporting period.	Ongoing	

Table 6.2 Sum	Table 6.2 Summary results of ecological site inspection findings								
Date	Date Observations		Action Taken	Closing Date					
		Ecologist							
5 December	No Major findings for this	No Advice is	No Action is required	N/A					
2011	inspection	required	to be taken						
12 December	No Major findings for this	No Advice is	No Action is required	N/A					
2011	inspection	required	to be taken						
19 December	No Major findings for this	No Advice is	No Action is required	N/A					
2011	inspection	required	to be taken						
28 December	No Major findings for this	No Advice is	No Action is required	N/A					
2011	inspection	required	to be taken						
31 December	No Major findings for this	No Advice is	No Action is required	N/A					
2011	inspection	required	to be taken						

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

## 6.2 Non-compliance

There was no non-compliance events recorded in this 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.

Chemicals using on site should be provided with proper drip tray as to avoid chemical spillage from causing contamination to surrounding area. Powered equipment should be serviced regularly as to maintain good condition and minimize oil leakage. Contractor should also implement necessary measures to mitigate air quality impact from construction works. Earthy stockpiles should be covered with tarpaulin

coverings and dusty static area should be dampened regularly for dust suppression.

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, all the C&D materials generated were reused at Lam Tsuen River for rock filling. No inert waste was disposed from the Project. The non-inert waste was 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 the 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	877 m <sup>3</sup>	877 m <sup>3</sup>	$0 \text{ m}^3$
Non-inert waste	45 kg	0	45 kg
Chemical waste	1 kg	N/A	1 kg

Table 7.1 Summary of Waste generated and disposed in December 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 <sup>st</sup> Aug, 2005	N/A	Superseded
Permit				
Amended	EP-223/2005/A	18 <sup>th</sup> Nov, 2008	N/A	Issued
Environmental				
Permit				
Construction Noise	N/A	N/A	N/A	N/A
Permit				
Effluent Discharge	3678	14 <sup>th</sup> Mar, 2008	31 <sup>st</sup> Mar, 2013	Issued
License				
Registration as a	5213-724-C3251-03	19 <sup>th</sup> Dec, 2007	Not applicable	Issued
Chemical Waste				
Producer				
Billing Account for	7006101	N/A	N/A	N/A
Disposal of				
Construction Waste				

 Table 8.1 Summary of Environmental Licensing and Permit Status

## 9.0 Future key issues

Construction of retaining walls TR 2 & TR 5, additional boulder trap, gabion wall TG 3B, footing & abutment of footbridge TB 03, TB 04 & TB 07 and demolition of the temporary check dam 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**

Construction of retaining walls TR2 & TR3, construction of inclined no-fines / mass concrete walls, construction of additional boulder trap, construction of gabion wall TG 3B, construction of footing and abutment of footbridges TB 03, TB 05 and TB 06 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. The next ecological impact monitoring was schedule on  $16^{\text{th}} \& 19^{\text{th}}$  January 2012

There was no non-compliance events recorded in this reporting month.

An environmental complaint regarding dust emission and earth deposition to public area were recorded within this reporting month. ET has conducted site investigations and the reports were submitted to EPD for their information and consideration. Contractor was also reminded to pay serious attention to prevent causing environmental concerns in the future by implementing good site practices. ET has reminded the contractor to provide environmental pollution control measures wherever necessary; and to keep a good environmental management at site practice.

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

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

## 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 of
other days	complaint is	Noise Control
	received	Ordinance
2300 – 0700 hrs of next day		Subject to the control
		of Noise Control
		Ordinance

\*Limit level set in accordance with Particular Specification Section 26

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 <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	64.3	67.4	54.5	2-Dec-11	15:04-15:34	Rock transfer	- Background noise - Traffic noise	Sunny	Façade
UTP 2	64.5	70.4	41.9	2-Dec-11	14:32-15:02	Rock breaking	- Background noise - Traffic noise	Sunny	Façade
UTP 3	65.8	65.3	52.7	2-Dec-11	14:00-14:30	Rock breaking	- Background noise	Sunny	Façade
UTP 4	53.7	58.7	38.3	2-Dec-11	12:58-13:28	Rock breaking	- Background noise	Sunny	Façade
UTP 5	56.0	60.9	41.6	2-Dec-11	13:28-13:58	Rock breaking	- Background noise	Sunny	Façade
UTP 6	56.1	58.4	38.6	2-Dec-11	11:30-12:00	N/A	- Background noise	Sunny	Façade
UTP 7	57.0	59.2	47.5	2-Dec-11	11:00-11:30	Rock transfer	- Background noise	Sunny	Façade
UTP 8	64.6	68.0	53.4	2-Dec-11	10:30-11:00	Rock transfer	- Background noise	Sunny	Façade
UTP 9	56.6	59.6	49.6	2-Dec-11	10:03-10:33	Rock breaking	- Background noise	Sunny	Façade
UTP 10	51.1	52.9	34.5	2-Dec-11	9:30-10:00	N/A	- Background noise	Sunny	Façade
UTP 11	52.0	52.9	40.2	2-Dec-11	9:00-9:30	N/A	- Background noise	Sunny	*Free field

Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	61.2	63.0	48.4	9-Dec-11	13:24-13:54	N/A	- Traffic noise - Background noise	Cloudy	Façade
UTP 2	52.1	52.7	39.3	9-Dec-11	12:52-13:22	N/A	- Traffic noise - Background noise	Cloudy	Façade
UTP 3	59.1	60.0	51.2	9-Dec-11	13:56-14:26	Soil transfer	- Background noise	Cloudy	Façade
UTP 4	51.3	54.3	41.6	9-Dec-11	15:00-15:30	Rock breaking	- Background noise	Cloudy	Façade
UTP 5	52.3	55.6	44.3	9-Dec-11	14:28-14:58	Rock breaking	- Background noise	Cloudy	Façade
UTP 6	66.1	71.7	40.3	9-Dec-11	11:30-12:00	Rock breaking	- Background noise	Cloudy	Façade
UTP 7	70.4	67.4	51.0	9-Dec-11	11:00-11:30	Rock breaking Soil transfer	- Background noise	Cloudy	Façade
UTP 8	65.0	69.6	49.3	9-Dec-11	10:30-11:00	Soil transfer	- Background noise	Cloudy	Façade
UTP 9	54.7	57.9	45.7	9-Dec-11	10:00-10:30	Rock breaking	- Background noise	Cloudy	Façade
UTP 10	49.8	53.1	36.2	9-Dec-11	9:28-9:58	N/A	- Background noise	Cloudy	Façade
UTP 11	45.8	46.4	39.9	9-Dec-11	8:53-9:23	N/A	- Background noise	Cloudy	*Free field

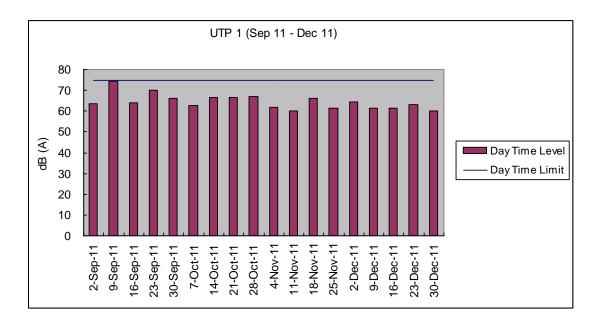
Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	61.3	62.7	50.4	16-Dec-11	13:24-13:54	N/A	-Traffic noise - Background noise	Sunny	Façade
UTP 2	56.8	57.0	42.0	16-Dec-11	12:53-13:23	Soil sorting	-Traffic noise - Background noise	Sunny	Façade
UTP 3	67.8	67.9	52.2	16-Dec-11	13:55-14:25	Rock breaking	- Background noise	Sunny	Façade
UTP 4	61.7	65.7	48.6	16-Dec-11	14:27-14:57	Rock breaking	- Background noise	Sunny	Façade
UTP 5	65.2	68.1	48.3	16-Dec-11	14:57-15:27	Rock breaking	- Background noise	Sunny	Façade
UTP 6	56.3	58.7	39.1	16-Dec-11	11:30-12:00	Soil sorting	- Background noise	Sunny	Façade
UTP 7	64.4	67.6	51.3	16-Dec-11	11:00-11:30	Construction waste sorting	- Background noise	Sunny	Façade
UTP 8	64.4	67.6	53.8	16-Dec-11	10:28-10:58	Cage manufacturing	- Background noise	Sunny	Façade
UTP 9	56.5	57.6	48.8	16-Dec-11	9:58-10:28	N/A	- Background noise	Sunny	Façade
UTP 10	49.3	53.0	40.0	16-Dec-11	9:26-9:56	N/A	- Background noise	Sunny	Façade
UTP 11	51.2	54.2	41.8	16-Dec-11	8:55-9:25	N/A	- Background noise	Sunny	*Free field

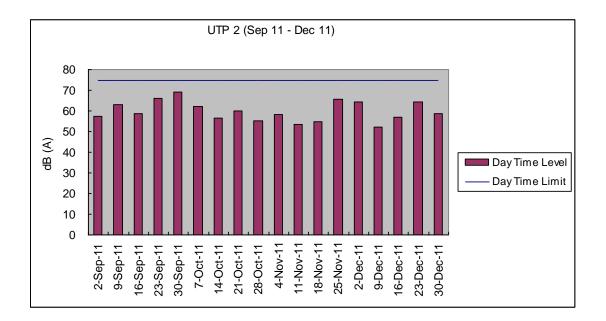
Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	63.2	67.7	51.2	23-Dec-11	13:22-13:52	Rock breaking	-Traffic noise - Background noise	Sunny	Façade
UTP 2	64.3	67.3	44.4	23-Dec-11	12:50-13:20	Rock breaking	-Traffic noise - Background noise	Sunny	Façade
UTP 3	58.6	61.0	51.7	23-Dec-11	13:53-14:23	N/A	- Background noise	Sunny	Façade
UTP 4	58.6	61.7	48.8	23-Dec-11	14:53-15:23	Soil sorting	- Background noise	Sunny	Façade
UTP 5	67.8	69.1	49.6	23-Dec-11	14:23-14:53	Soil sorting	- Background noise	Sunny	Façade
UTP 6	58.1	60.4	42.7	23-Dec-11	11:31-12:01	Soil sorting	- Background noise	Sunny	Façade
UTP 7	65.4	69.0	50.5	23-Dec-11	11:01-11:31	Soil transfer	- Background noise	Sunny	Façade
UTP 8	71.0	74.6	58.0	23-Dec-11	10:29-10:59	Soil sorting	- Background noise	Sunny	Façade
UTP 9	65.6	70.0	49.5	23-Dec-11	9:59-10:29	Soil transfer	- Background noise	Sunny	Façade
UTP 10	56.0	58.5	35.1	23-Dec-11	9:27-9:57	N/A	- Background noise	Sunny	Façade
UTP 11	57.7	60.8	39.7	23-Dec-11	8:55-9:25	N/A	- Background noise	Sunny	*Free field

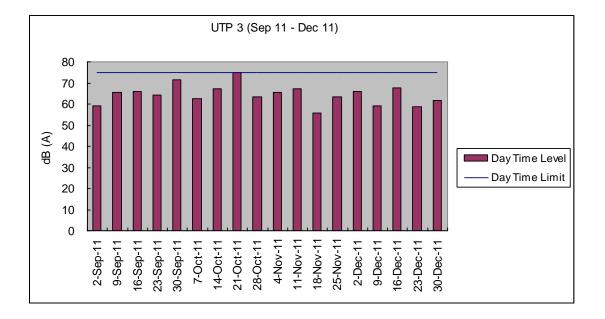
Location	Leq 30min	L <sub>10</sub> 30min	L <sub>90</sub> 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	60.0	62.6	48.5	30-Dec-11	13:23-13:53	N/A	-Traffic noise - Background noise	Sunny	Façade
UTP 2	58.8	62.7	44.3	30-Dec-11	12:52-13:22	N/A	-Traffic noise - Background noise	Sunny	Façade
UTP 3	61.7	65.9	52.8	30-Dec-11	13:54-14:24	N/A	- Background noise	Sunny	Façade
UTP 4	61.0	65.1	48.2	30-Dec-11	14:55-15:25	Rock Breaking	- Background noise	Sunny	Façade
UTP 5	57.0	60.6	43.4	30-Dec-11	14:25-14:55	Rock Breaking	- Background noise	Sunny	Façade
UTP 6	59.8	60.0	38.8	30-Dec-11	11:32-12:02	Rock Transfer	- Background noise	Sunny	Façade
UTP 7	66.0	63.9	47.2	30-Dec-11	11:02-11:32	N/A	- Background noise	Sunny	Façade
UTP 8	65.0	68.4	55.2	30-Dec-11	10:30-11:00	Rock Transfer	- Background noise	Sunny	Façade
UTP 9	59.4	62.4	47.8	30-Dec-11	10:00-10:30	Rock Transfer	- Background noise	Sunny	Façade
UTP 10	60.6	63.1	39.2	30-Dec-11	9:27-9:57	Rock Breaking	- Background noise	Sunny	Façade
UTP 11	54.0	57.7	39.8	30-Dec-11	8:56-9:26	Rock Breaking	- Background noise	Sunny	*Free field

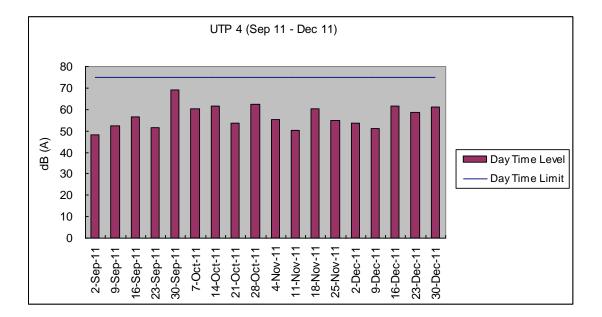
## Graphical plot for noise measurements

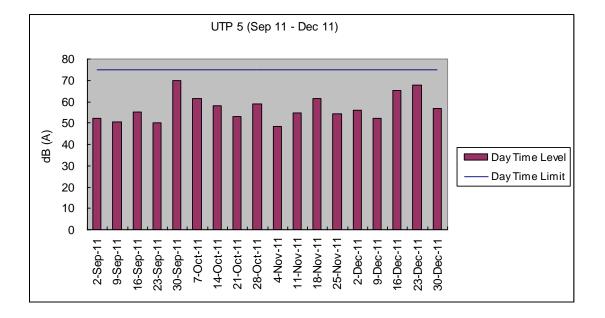
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from September 2011 to Decvember 2011.

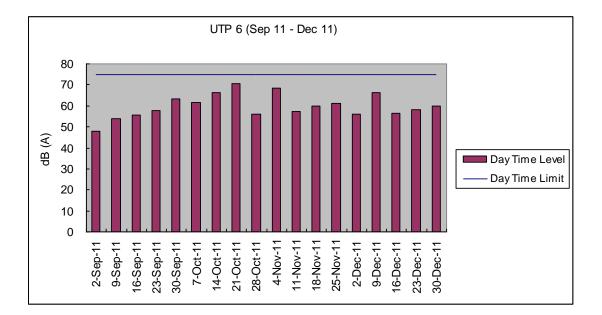


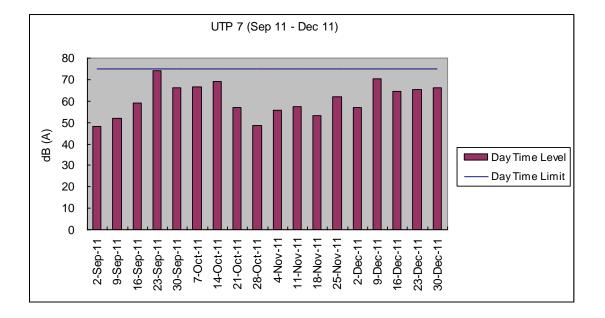


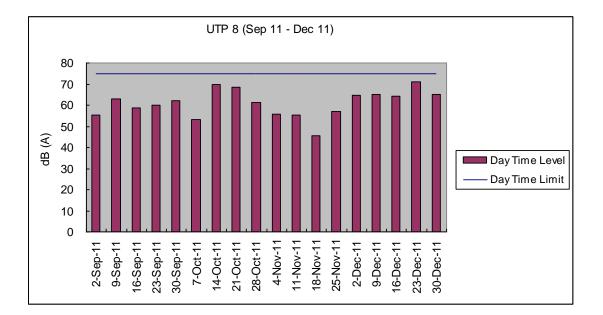


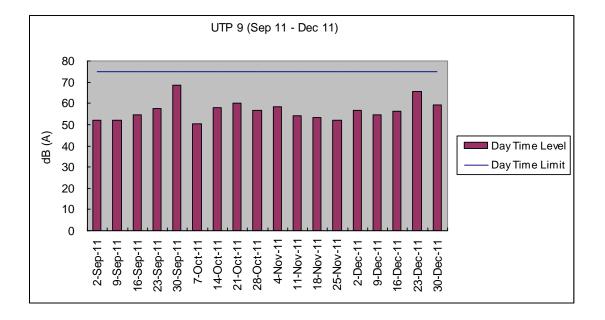


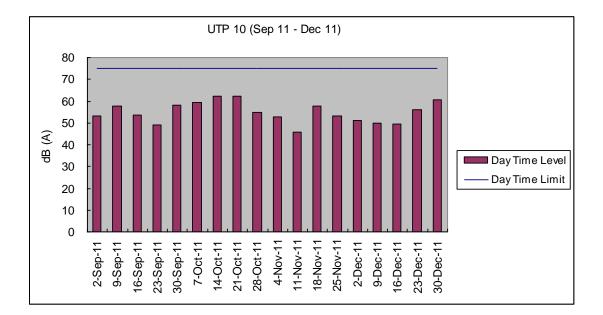


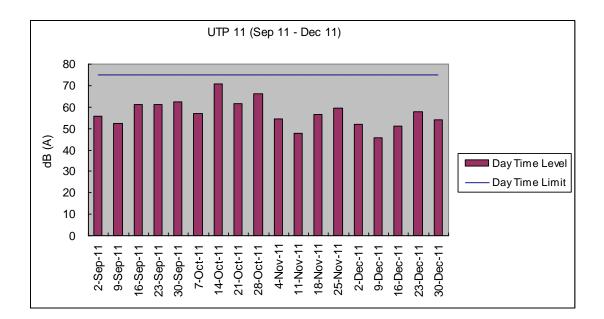




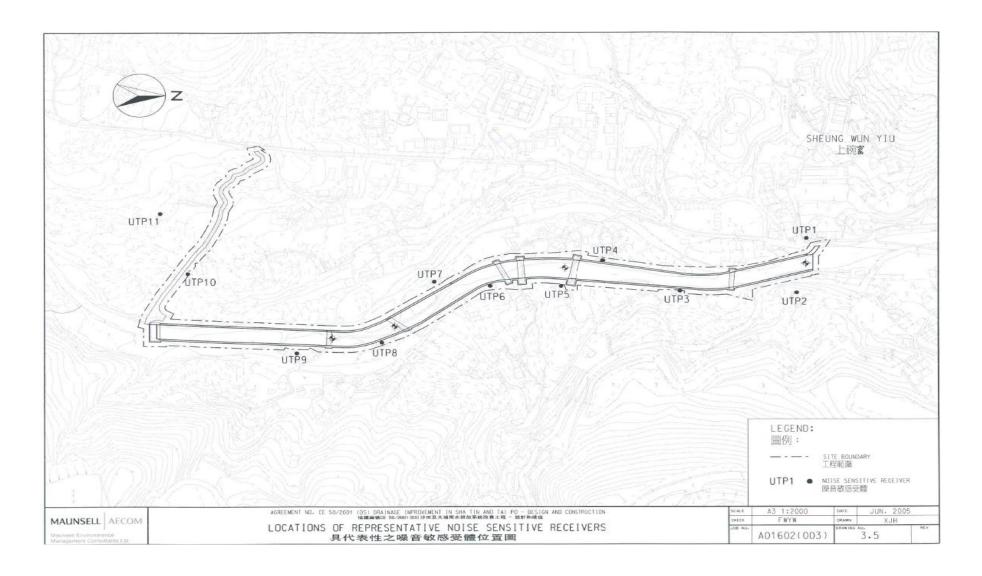








#### DC/2007/06 River improvement works in Upper Tai Po River Fortieth Monthly Report



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

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

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

### Master Schedule of EM&A works in January 2012

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

Environmental	Cumulative no.	No. of complaint	<b>Overall Total</b>
Parameters	Brought forward	December 2011	
Air/Dust	5	1	6
Noise	5	0	5
Water	11	0	11
House Keeping	0	0	0
Hygiene			
Chemical waste	0	0	0
Total	21	1	22

# Appendix F: Cumulative complaint log

Appendix G: Implementation status of environmental protection and mitigation measures

Environmental	Protection / Mitigation Measures	Implementation	Follow-up
Aspect		status	action
Construction Noise	No percussive piling shall be carried out	Implemented	Not required
	-Use well maintained construction plant	Implemented	Not required
	-Shut down plants between work periods	Implemented	Not required
	-Install silencers on construction equipment	Implemented	Not required
	-Locate mobile plant far away from NSRs	Implemented	Not required
	-Quiet plants should be used	Implemented	Not required
	-2m high temporary noise barriers, as stipulated in EP condition 2.9,	Deficient	Ongoing
	shall be installed		
Fugitive Dust Emission	-Implement regular watering and vehicle washing facilities	Deficient	Ongoing
	-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 require
	carried out in stages and excavation area for each stage shall be limited	-	
	to section of half width of the channel and less than 100m long at any		
	one time in order to maintain water flow within the river during		
	construction stage		
	Land-based plant shall be employed and site run-off shall be directed	Implemented	Not require
	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 require
	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	Implemented	Not require
	dewatered prior to excavation to minimize the impacts upon the		
	downstream of the Tai Po River		

Implementation status of environmental protection and mitigation

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

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 along	Not applicable	Not
	the banks of the newly improved drainage channel should		required
	be provided to compensate for the loss of riparian		
	vegetation.		
	Operation phase activities in the improved drainage channel	Not applicable	Not
	would be limited to periodic channel maintenance such as		required
	de-silting.		

## Appendix H: Cumulative waste flow table

Type of waste		Inert Waste			Non-Inert Waste	9	Chemica	al Waste
••	Amount generated	Amount reused	Amount disposed	Amount generated	Amount reused	Amount disposed	Amount generated	Amount disposed*
Year 2008 to 2009	36.9m <sup>3</sup>	0	36.9m <sup>3</sup>	2.000 tonnes	0	2.000 tonnes	20kg	20kg
Year 2010	1955m <sup>3</sup>	1955m <sup>3</sup>	0	0.192 tonnes	0	0.192 tonnes	0	0
January 2011	117m <sup>3</sup>	117m <sup>3</sup>	0	0.040 tonnes	0	0.040 tonnes	0	0
February 2011	581m <sup>3</sup>	581m <sup>3</sup>	0	0.045 tonnes	0	0.045 tonnes	0	0
March 2011	927m <sup>3</sup>	927m <sup>3</sup>	0	0.047 tonnes	0	0.047 tonnes	0	0
April 2011	467m <sup>3</sup>	467m <sup>3</sup>	0	0.050 tonnes	0	0.050 tonnes	0	0
May 2011	835 m <sup>3</sup>	835 m <sup>3</sup>	0	0.015 tonnes	0	0.015 tonnes	0	0
June 2011	3 m <sup>3</sup>	3 m <sup>3</sup>	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 <sup>3</sup>	392 m <sup>3</sup>	0	0.035 tonnes	0	0.035 tonnes	2kg	2kg
October 2011	740 m <sup>3</sup>	725 m <sup>3</sup>	15 m <sup>3</sup>	0.048 tonnes	0	0.048 tonnes	0	0
November 2011	566 m <sup>3</sup>	566 m <sup>3</sup>	0	0.050 tonnes	0	0.050 tonnes	0	0
December 2011	877 m <sup>3</sup>	877 m <sup>3</sup>	0	0.045 tonnes	0	0.045 tonnes	1kg	1kg
Total	7496.9m <sup>3</sup>	7445m <sup>3</sup>	51.9m <sup>3</sup>	2.568 tonnes	0	2.568 tonnes	23kg	23kg

Cumulative waste flow table showing amount of wastes generated, reused and disposed since 15<sup>th</sup> 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. 18)

識別碼	任務名稱				工期	開始時間	完成時間		2012年					
1118	Die	er Diversion			A daw-	2011.010	0011011	HE# De De De De	第一季	第	<u></u>	第三季		第四季
1118		struct Haul Road to	- DLIC		4 days	2011/11/		10%						
1120		struct Hall Road i			10 days	2011/11/								
1120	Contraction and the second		DE		14 days	2011/11/1		10%						
1122		ng (right bank) cap (right bank)			18 days	2011/12/	·		1%					
1122					8 days	2012/2/1			20%					
1125		(right bank)			8 days	2012/2/2			10%					
1124		ig (middle)			18 days	2011/12/2		. Ec	70% 1					
1125		cap (middle)			8 days	2012/3/			L L L L L L L L L L L L L L L L L L L	5				
1120		(middle)			8 days	2012/3/1			·	10%				
		ig (left bank)			18 days	2012/1/1			0%	+				
1128		cap (left bank)			8 days	2012/3/2				2%				
		(left bank)			8 days	2012/3/2	and a second of the second second			<b>D</b> 20				
1130		ge dock			14 days	2012/4/1				10%				
1131		istatement of Gabio	Xn		14 days	2012/4/2				UHBIOTY	10%			
1132	and the second sec	st. Dwarf Wall			21 days	2012/5/1					₽%			
1133		struct Drainage & I	Pootpath		14 days	2012/6/				na Enga Enga Enga Enga	C20027	1%		
1134		ty Installation			21 days	2012/6/2					q	0%		
1135		ic Lighting Installa	dion.		21 days	2012/6/2					E E	0%		
1136		D installation			21 days	2012/6/2					67	0%		
1137	PCC	W installation			21 days	2012/5/2	7 2012/7/21				6	0%		
1138				2	· · · · · · · · · · · · · · · · · · ·									
1139	Section 2 - She She		Th 1850 to 1550		735 days	2010/7/20		Now does to result to an a constant to over					يتنبئه حيائي وي	• 05
1140	and the second se	50 to CHL 1550			442 days	2011/5/31		and a first star and a star star and the star and the star star and	CONTRACTOR STOLEN AND AND ADDRESS OF	C To design the property of the				09
1141		all (CH1755-1857)			48 days	2012/6/2						R-MERCHARDING	)% ·	
1142			S (Ch1550 to 1850)		45 days	2012/8/2							<ul> <li>Periodic research data</li> </ul>	70%
1143			construction (Ch1550-185	0)	45 days	2012/8/2						e	ne States protos	
1144		ndrails/Chainage N	/larkers		28 days	2012/10/16			1 A 4					0%
1145	Chainlini				28 days	2012/10/16								0%
1146	and the second sec	e SB01 - Dwarf W			60 days	2011/5/31								
1147		nd Ducting Constr			60 days	2011/8/11		D#						
1148		ghting Installation (	(CE2278/79)		14 days	2011/10/22		0%						
1149	T&C				7 days	2011/11/5		, 🖢 🖾 0%						
1150	Waterma	n Diversion			21 days	2011/10/22	2011/11/15	E330-168460 0%						
1151														
1152	Variation Ords				564 days	2010/7/20		NUMBER OF THE PARTY OF THE PART	nin ta col tra postge inderet das parte estatore	• 0%				
1153		on of Precast Concr	ete Planter		35 days	2010/7/20								
1154	Material	TTT between over some			14 days	2010/8/2/								
1155		ainage diversion/ ha	aul rd	1	14 days	2011/6/1								
1156	Blinding				3 days	2011/6/18								
1157	PVC sheet				3 days	2011/6/22	2011/6/24							
1158		n of Planters			14 days	2011/6/25								
1159		Santing Soil			12 days	2012/4/12				0%				
1160	Variation Orde				30 days	2012/4/26					0%			
1168	Variation Orde	r No. 145		1	38 days	2012/6/2	2012/7/18			-	-	0%		
1173				1							-	-		
1174	Programme of Upper Ta				768 days	2010/4/1	A REAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF		a na sana sa				%	
1175	Wet Season of 2010	)			214 days	2010/4/1	2010/10/31					-		
	06 River Prog	要徑 要徑分隔		任務 分割				里程碑	•	専業摘要報告		* 24.4%	-0	
期:2011/1	2/29			24 112	(dittal-bas	the second s					A			
		要徑進度		任務進度			北較基準里程碑 🛇	摘要	~ ~	外部里程碑	\$			

識別碼	任務名稱		工期	開始時間	完成時間		2012年						
1176	Wet Season of 20	11	149 days	2011/42	2011.0.20	第四季		第一季	策	二季	第三季		第四季
1170	· · · · · · · · · · · · · · · · · · ·	d Due to Villager's Rally	42 days	2011/4/1 2010/11/7	2011/9/30								
1178	Ch 230-350	a Dae to vittaget s really		2010/11/7	2010/12/18								
1178		(Ch 230-275 RHS) TG1/TG1A	412 days		2012/6/12					3%			
1183			40 days	2011/1/28	2011/3/12								
1185		fall (Ch 275-330 RHS) TR1 (replaced by AD1)	183 days	2011/3/7	2011/10/15	64%	H-						
1184		tion and Formation	12 days	2011/3/7	2011/3/19								
		Concrete block and gabion units (Ch275-320 RHS)	12 days	2011/3/21	2011/4/2								
1186	Backfil	_	6 days	2011/4/4	2011/4/11	<b>Y</b> _							
1187		tion and Formation	7 days	2011/10/1	2011/10/10								
1188		Concrete block and gabion units (Ch320-330 RHS)	4 days	2011/10/11	2011/10/14		łi –						
1189	Backfil		1 day	2011/10/15	2011/10/15	0%	1						
1190		Pootpath (CH 275-320 RHS)	21 days	2011/10/1	2011/10/26								
1191	The state of the second s	action of drainage & footpath	21 days	2011/10/1	2011/10/26	0%							
1192		(Ch 315-330 LHS) TG2A (Inclined gabion)	21 days	2011/11/14	2011/12/7	0%							
1193		e Concrete Blocks and shotcrete + 1st No fine	5 days	2011/11/14	2011/11/18	<b>™</b> _0%							
1194		tion toe	5 days	2011/11/19	2011/11/24	±20%							
1195		oncrete toe	5 days	2011/11/23	2011/11/28	0%	1						
1196		ge no-fine concrete and inclined gabion	6 days	2011/11/29	2011/12/5	P_10%							
1197		a blocks at slope toe and Backfilling	2 days	2011/12/6	2011/12/7	0%							
1198		e Staircase (Ch 315 LHS)	4 days	2011/12/24	2011/12/30		0%						
1199		ork and concreting	4 days	2011/12/24	2011/12/30		<b>a</b> 0%						
1200	Drainage &	Footpath (Ch 307-330 LHS)	14 days	2011/11/29	2011/12/14		JAS .						
1201	Constru	ction of drainage & footpath	14 days	2011/11/29	2011/12/14	09	6						
1202													
1203	Temp Utiltiy	and Pedestrian Diversion at Ch230	148 days	2011/9/27	2012/3/24		and the second second		9%				
1204	Temp U	JU diversion near Ch230	29 days	2011/9/27	2011/10/31	10%							
1205	Implem	entation of Pedestrian diversion Scheme	119 days	2011/11/1	2012/3/24	Conversion And Conversion	201012042-11	who supported and a	· %0				
1206							and a second sec						
1207	Demolition of	of Interim Footbridge at Ch230	17 days	2011/11/1	2011/11/19	21%	1						
1208	Constru	ct Temp crossing at Ch230	7 days	2011/11/1	2011/11/8	150%							
1209	Demoli	tion of Interim Footbridge	10 days	2011/11/9	2011/11/19	10%							
1210													
1211	Gabion Wall	(Ch 230-257 LHS) TG2/TG2A/TG2B (Inclined gabion)	26 days	2012/1/7	2012/2/9		-	0%					
1212	Remove	Concrete Blocks and shotcrete + 1st No fine	5 days	2012/1/7	2012/1/12		1 10%	• • •					
1213	Excavat	tion toe	6 days	2012/1/13	2012/1/19		The	145					
1214	Mass or	ancrete toe	6 days	2012/1/17	2012/1/26			hos.					
1215	2nd stay	e no-fine concrete and inclined gabion	8 days	2012/1/27	2012/2/4			- Times					
1216	Concret	e blocks at slope toe and Backfilling	3 days	2012/2/6	2012/2/8			1 0%					
1217		nence Staircase (Ch 242 LHS)	4 days	2012/2/6	2012/2/9			0%					
1218		mwork and concreting	4 days	2012/2/6	2012/2/9			0%					
1219		(Ch 257-270 LHS) TG4 (Inclined gabion)	18 days	2011/12/23	2012/1/16			0.00					
1220		Concrete Blocks and shotcrete + 1st No fine	5 days	2011/12/23	2011/12/30		the	070					
1221	Excavat		5 days	2011/12/31	2012/1/6		12h						
1222		increte toe	5 days	2012/1/5	2012/1/10		1000						
1223		ge no-fine concrete and inclined gabion	6 days	2012/1/7	2012/1/13		1						
1224	CITAGONICIAN AND AND AND AND AND AND AND AND AND A	e blocks at slope toe and Backfilling	2 days	2012/1/14	2012/1/15		T T	1 M.					
1225		all (Ch 275-315 LHS) TR1 (replaced by AD1)	35 days	2012/1/14	2012/1/18		- 09	16 1077.					
		要徑 任務				四回回回回回 里程碑	•	•	專案摘要報告	-	調整 期限	Ţ	
事業: DC0/ 日期: 2011/	706 River Prog /12/29	要經分隔                      分割	11002181188	E.	岐基準分隔	摘要遂度			外部任務	Providence and providence of the			
1942. 2011/	1.00.07	要徑進度 任務進用			咬基準里程碑 ◇	摘要			外部里程碑	$\oplus$			
		11.0716/0	·	F14	Nas-PINER V	314,350		•	> PRIVACION P	4			

識別碼	<b>仕</b> 微名稱	二期	開始時間	完成時間	2012年		
1226	Remove Concrete Blocks and shotcrete + 1st No fine	8 days	2011/12/	5 2011/12/14	The second	に季 第三季	第四季
1227	Excavation toe	s days 8 days	2011/12/1				
1228	Mass concrete toe	8 days			2%		
1229	2nd stage no-fine concrete and inclined gabion	0 days 10 days	2011/12/2				
1230	Concrete blocks at slope toe and Backfilling	4 days	2012/1/1				
1231	Drainage & Footpath (Ch 200-307 LHS)	4 days 60 days	2012/2/0	the second	0%		
1233	River Bed formation (Ch205-236)	21 days			0%		
1234	Excavation (Ch205-236)(From TB03 to Step2)	ZI days 7 days	2012/2/2		0%		
1235	Placement of Concrete Block at Embankment Toe	7 days	2012/2/1		T 2%		
1236	Fixing steel meshes	7 days 7 days	2012/2/18		2%		
1237	Step 2 & Stilling Basin (Ch 236)	17 days	2012/2/12		0%		
1237	Construction of Step 2 (Assume Mass Concrete)	8 days	2012/1/20		0%		
1239	Construction of Stilling Basin (base slab)	THE REPORT OF THE ADDRESS OF THE ADD			10%		
1240	Construction of Baffle Blocks	6 days	2012/2/2				
1240	Cascade (Ch 275)	3 days	2012/2/9		0%		
1241	River Bed formation (Ch236-275)	30 days	2011/12/15		0%		
1242	Construction of Cascade (Ch 275)	7 days	2011/12/15				
1245	Construction of Cascade (Ch 275) Construction of Stilling Basin (base slab)	14 days	2011/12/23		2%		
1244	Construction of Stilling Basin (base SIRD) Construction of Baffle Blocks	6 days	2012/1/12		2%		
1245	Step 3 (Ch 307)	3 days	2012/1/19		1 OS		
1240	River Bed formation (Ch275-307)	24 days	2012/1/2		0%		
1247		7 days	2012/1/2		2%		
1248	Construction of Step 3 (Assume Mass Concrete)	8 days	2012/1/11		- D2%		
1249	Construction of Stilling Basin (base slab) Construction of Baffle Blocks	6 days	2012/1/20				
1250		3 days	2012/1/31		4 0%		
1251	River Bed formation (Ch 307-330)	21 days	2012/1/11		0%		
1252	Excavation (Ch205-236)(From 307-330) Placement of Concrete Block at Embankment Toe	7 days	2012/1/11	and a summariant a summariant of			
1253		7 days	2012/1/19	1			
1254	Fixing steel meshes	7 days	2012/1/31		10%		
1255	Lighting at CH 250-320	45 days	2012/4/19			0%	
1250	Construction of Drawpits / Ductings	21 days	2012/4/19			10%	
1257	Public lighting Installation (CE2318)	12 days	2012/5/16			- D%	
1258	Public lighting Installation (CE2317) T&C	12 days	2012/5/16			Loze .	
1259		6 days	2012/5/30			-0% *	
1260	Removal of existing lighting (VA1311-Z1)	6 days	2012/6/6	2012/6/12		0%	
1261	Footbridge TE04 (Ch 330)						
1263		91 days	2011/11/9		0%		
1263	Construction of Abutment A (RHS)	21 days	2011/11/9		0%		
1264	Excavation and Blinding	5 days	2011/11/9				
1265	Formwork and rebar fixing for base slab	5 days	2011/11/15		L10%		
	Concreting of base slab	1 day	2011/11/21		10%		
1267 1268	Stripping off formwork	2 days	2011/11/22		¥%		
1268	Rebar fixing and shuttering formwork for column	5 days	2011/11/24		P-10%		
1269	Concreting of column	1 day	2011/11/30		50%		
1270	Stripping off formwork	2 days	2011/12/1	2011/12/2	<u>~~~~</u>		
1271 1272	Construction of Abutment B (LHS) Remove shotcrete	23 days	2011/11/24	L	P%		
1272	Excavation and Blinding	2 days 5 days	2011/11/24 2011/11/26	the second secon	Dive.		
		2 uays	201111120	£011112/1			-
專案: DC070	of River Prog	任務	ļ.	1較基準 國際國	■■■ 里程碑 ◆ 専案演要報告	期限	₽.
日期: 2011/1		分割 """""	t t	b較基準分隔	摘要進度 1000000000 外部任務		
		任務進度	ALC: NOT A PARTY OF A P	Ь較基準里程碑 ◇	摘要 外部里程碑	•	
				discuss ( and part of the	and VINCENT	¥	

9462319449	任務名稱		.10期	開始時間	完成時間		2012年				
1274	R	onniwork and rebar fixing for base slab	5 days	2011/12/2	2011/12/7	第四季		-季	第二季	第三季	第四季
1275		oncreting of base slab	l day	2011/12/2	2011/12/8	10%					
1276	······································	tripping off formwork	2 days	2011/12/0	2011/12/10	10%					
1277		ebar fixing and shuttering formwork for column	5 days		THE REPORT OF TH	Dr. Dr. Dr. Tos To					
1278				2011/12/12	2011/12/16	10%					
1278		oncreting of column	1 day	2011/12/17	2011/12/17	109					
		ripping off formwork	2 days	2011/12/19	2011/12/20	1 10	96 L				
1280		uction of decking (steel deck)	16 days	2012/2/8	2012/2/25		÷.	0%			
1281		rection of steel deck+ conc deck	4 days	2012/2/8	2012/2/11			9%			
1282		eck finishing	10 days	2012/2/13	2012/2/23			₽ <b>_</b> 0%			
1283		ailing installation	2 days	2012/2/24	2012/2/25			1 <sup>10</sup> 10%			
1284		ition of Bridge TB-A	52 days	2011/12/24	2012/2/29		Contractor of the local division of the loca	0%			
1285	R	amove concrete pipes and reprovide footpath	14 days	2011/12/24	2012/1/12		0%				
1286	C	omplete removal of TB-A crossing	3 days	2012/2/27	2012/2/29			Ĩ <sub>70%</sub>			
1287	Lightin	g at Footbridge TB04	11 days	2012/2/13	2012/2/24			0%			
1288	C	enstruction of Drawpits / Ductings	7 days	2012/2/13	2012/2/20			10%			
1289	Pu	blic lighting Installation (CE2315)	3 days	2012/2/21	2012/2/23			0% 3%			
1290	Pu	blic lighting Installation (CE2316)	3 days	2012/2/21	2012/2/23			F1046			
1291	Ta	kC .	1 day	2012/2/24	2012/2/24			105			
1292	Construction	n of Gabion Wall at TB-A?	5 days	2012/3/1	2012/3/6			0.00			
1293	Excava	tion and Formation	2 days	2012/3/1	2012/3/2			Eng.			
1294	Gabion	Wall Construction (adj TBA LHS)	2 days	2012/3/3	2012/3/5			- Cone			
1295	Backfil		1 day	2012/3/6	2012/3/5			070% 10% 10%			
1296			- I day	2012030	avia div		· ·	- 0%			
1297	Footbridge	(B05 (ch 350)	329 days	2011/3/10	2012/4/17						
1298		action of Abutment A (LHS)	21 days	2011/3/10	2012/1/4	HIM NO.		0	Se .		
1299		cavation and Blinding	5 days	2011/12/8	2012/1/4		🖤 0%				
1300		mwork and rebar fixing for base slab	5 days		2011/12/19	12%					
1301		unwork and read fixing for base sind		2011/12/14		Čy Po Č	0				
1302			1 day	2011/12/20	2011/12/20	2	žo –				
1302		ipping off formwork	2 days	2011/12/21	2011/12/22	3	%				
1303	75 m	bar fixing and shuttering formwork for column	5 days	2011/12/23	2011/12/30	12	0%				
		ncreting of column	1 day	2011/12/31	2011/12/31		0%				
1305	Concerning of the second back and the second s	ipping off formwork	2 days	2012/1/3	2012/1/4		0 0%				
1306		ction of Abutment B (RHS)	19 days	2011/3/10	2011/3/31						
1314		ction of decking	75 days	2011/12/8	2012/3/10		CONTRACTOR DESIGNATION OF THE OWNER OWNER OF THE OWNER	0%			
1315		adification of table top	10 days	2011/12/8	2011/12/19		s				
1316	· · · · · · · · · · · · · · · · · · ·	ection of steel deck+ conc deck	4 days	2012/2/22	2012/2/25			20%			
1317		ck finishing	10 days	2012/2/27	2012/3/8			<u>10%</u>			
1318		iling installation	2 days	2012/3/9	2012/3/10			0%			
1319	Demoli	tion of Bridge TB-B	99 days	2011/12/8	2012/4/11			0%			
1320	Re	move concrete pipes and reprovide footpath	14 days	2011/12/8	2011/12/23		%				
1321	Re	move concrete pipes and demolition works	3 days	2012/4/5	2012/4/11			1 Tops			
1322	Lightin	g at Footbridge TB05	10 days	2011/12/20	2012/1/3		<b>9</b> 0%				
1323	Co	estruction of Drawpits / Ductings	6 days	2011/12/20	2011/12/28		0%				
1324	Pu	blic lighting Installation (CE2313)	3 days	2011/12/29	2011/12/31		0%				
1325		blic lighting Installation (CE2314)	3 days	2011/12/29	2011/12/31		10%				
1326	Tå		l day	2012/1/3	2012/1/3		1°0%				
1327	Constur	ction of Gabion Wall at TB-B	5 days	2012/4/12	2012/4/17		570		6		
		要徑 [115:110:17:15:1] 任者	5 Etterson	SI-	icite and in the second s		•	専変摘要	an Barris	期限	Ū.
	06 River Prog						•			AHA A	~
期: 2011/1	12/29	要徑分隔 分割			較基進分隔		DI.H.W. 11101	所有 外部任務	and a distant		
		要得進度任務	建度	Et al	岐基地里程碑 🔷	摘要	and the state of the	外部里程4	a 🔶		

說別碼	任務名稱		30期	開始時間	完成時間		2012年					
1328	Ev.	cavation and Formation	2 days	2012/4/12	2012/4/13	第四季		第一季		二半	第三季	第四季
1329		bion Wall Construction (adj TBB LHS)	2 days 2 days					1111	<sup>0</sup> 10% 10% 10%			
1330		ckfilling		2012/4/14	2012/4/16				<b>P</b> %			
1330	Do	callaring	1 day	2012/4/17	2012/4/17				° 0%			
332		31.1										
333	Cishing Well	(Ch 335-345 LHS) TG2/TG2A	17 4	00110100			lí l					
1334		Concrete Blocks and shotcrete + 1st No fine	17 days	2011/11/29	2011/12/17		0%					
1335	Excavat		4 days	2011/11/29	2011/12/2	20%						
336		ncrete toe	4 days	2011/12/3	2011/12/7		6					
337			4 days	2011/12/5	2011/12/9		76					
338		e no-fine concrete and inclined gabion	5 days	2011/12/10	2011/12/15		<b>D</b> %					
339 339		blocks at slope toe and Backfilling	2 days	2011/12/16	2011/12/17		995					
340		cotpath (Ch 335-345 LHS)	12 days	2011/12/19	2012/1/4		0%					
		rtion of drainage & footpath	12 days	2011/12/19	2012/1/4		0%					
341 342		(Ch 330-345 RHS) TG2	22 days	2011/11/9	2011/12/3	09	5					
	d	Concrete Blocks and shotcrete + 1st No fine	5 days	2011/11/9	2011/11/14	%						
343	Excavati		5 days	2011/11/12	2011/11/17							
344 345		ncrete toe	5 days	2011/11/18	2011/11/23	12%						
345 346		e no-fine concrete and inclined gabion	6 days	2011/11/24	2011/11/30	2%						
		blocks at slope toe and Backfilling	3 days	2011/12/1	2011/12/3	610%						
347		cotpath (Ch 330-340 RHS)	12 days	2011/12/5	2011/12/17		dise dise					
348	Construc	tion of drainage & footpath	12 days	2011/12/5	2011/12/17	ELLE	0%					
349					-							
350		mation (Ch 330-350)	12 days	2012/2/13	2012/2/25			<b>V 9</b> 0%				
351	Excavati		4 days	2012/2/13	2012/2/16			<b>⊡_</b> 0≱				
352		nt of Concrete Block at Embankment Toe	4 days	2012/2/17	2012/2/21			- <b>1</b> 0%				
353		pel meshes	4 days	2012/2/22	2012/2/25			0%				
354	Step 4 (Ch 35		20 days	2012/2/27	2012/3/20		-	diamate in the second	0%			
355	and the second sec	d formation (Ch340-350)	3 days	2012/2/27	2012/2/29			10%				
356		tion of Step 3 (Assume Mass Concrete)	8 days	2012/3/1	. 2012/3/9			<b>⊡</b> 2%				
357		tion of Stilling Basin (base slab)	6 days	2012/3/10	2012/3/16		- U		Б			
358		tion of Baffle Blocks	3 days	2012/3/17	2012/3/20			<u> </u>	<b>7%</b>			
359	Ch 45-230		506 days	2010/11/1	2012/6/20				CARLENCES HER	1%		
360	Additional Bo		149 days	2011/10/1	2012/3/30				🖤 0% 👘			
361	Water di	version	20 days	2011/10/1	2011/10/25	0%						
362	Bay 1		34 days	2011/10/26	2011/12/3	0%						
363		avation and Blinding, temp work	14 days	2011/10/26	2011/11/10	04						
364		nwork and rebar fixing of base slab	7 days	2011/11/11	2011/11/18							
365		creting of base slab	1 day	2011/11/19	2011/11/19	0%						
366		pping off formwork	2 days	2011/11/21	2011/11/22	10%						
367		ar fixing and shuttering formwork for Wall	7 days	2011/11/23	2011/11/30	20%						
368		creting	l day	2011/12/1	2011/12/1	$\mathbb{D}^{\infty}$						
369		pping off formwork	2 days	2011/12/2	2011/12/3	0%						
370	Bay 2		34 days	2011/12/1	2012/1/12		0%					
371	· · · · · · · · · · · · · · · · · · ·	avation and Blinding, temp work	14 days	2011/12/1	2011/12/16		0%					
372		nwork and rebar fixing of base slab	7 days	2011/12/17	2011/12/24		-10%					
373		creting of base slab	1 day	2011/12/28	2011/12/28		10%					
374	Strip	oping off formwork	2 days	2011/12/29	2011/12/30		10%					
8- DOX	706 River Prog	要徑 任務		E	咬基準 回動調	※回回回回回 里程牌	•		專案摘要報告	Conservation of the second	期限	Ŷ
展: DC0/ 例: 2013/		要徑分隔 分園		E	o基準分隔		g mm		外部任務			
AL 64111	14/27	要徑進度任務	進度		交基準里程碑 ◇	摘要	Contra Co		外部里程碑	•		
		as manage 3000	1004	101		34.955			77即里徑評	W		

		工期	開始時間	完成時間		2012年			and the second sec				
1375	Rebar fixing and shuttering formwork for Wall	7 days	2011/12/31	2012/1/9	第四季	lin har	第一季	第	二季	第三季		第四羽	ž.
1376	Concreting	I day	2011/12/51	2012/1/10		-2%							
1377	Stripping off formwork	2 days	2012/1/10	2012/1/12		-0%							
1378	Bay 3					<sup>E</sup> 0%							
1379		34 days	2012/1/11	2012/2/22		Ś.	0%						
1380	Excavation and Blinding, temp work	14 days	2012/1/11	2012/1/30		Littera	10%						
	Formwork and rehar fixing of base slab	7 days	2012/1/31	2012/2/7			- 198 - 198 - 198						
1381	Concreting of base slab	1 day	2012/2/8	2012/2/8			2%						
1382	Stripping off formwork	2 days	2012/2/9	2012/2/10		0	20\$						
1383	Rebar fixing and shuttering formwork for Wall	7 days	2012/2/11	2012/2/18			\$						
1384	Concreting	1 day	2012/2/20	2012/2/20			50%						
1385	Stripping off formwork	2 days	2012/2/21	2012/2/22			0%						
1386	Bay 4	34 days	2012/2/21	2012/3/30			Concession of the local division of the loca						
1387	Excavation and Blinding, temp work	14 days	2012/2/21	2012/3/7		1	20%						
1388	Formwork and rebar fixing of base slab	7 days	2012/3/8	2012/3/15			1 1 5	0%					
1389	Concreting of base slab	1 day	2012/3/16	2012/3/16				0%					
1390	Stripping off formwork	2 days	2012/3/17	2012/3/19			6 1 1	10%					
1391	Rebar fixing and shuttering formwork for Wall	7 days	2012/3/20	2012/3/27				10%					
1392	Concreting	1 day	2012/3/28	2012/3/28				9% 9% D% D%					
1393	Stripping off formwork	2 days	2012/3/29	2012/3/30				l ors					
1394						1		010					
1395	Access Road (LHS)	21 days	2011/12/5	2011/12/30	. There	0%							
1396	Footbridge TB02 (Ch 150)	505 days	2010/11/1	2012/6/20		0.00							
1397	Construction of Abutment A (LHS)	23 days	2010/11/1	2010/11/23									
1405	Construction of decking	14 days	2012/4/16	2012/5/3				and the second second					
1406	Erection of steel deck+ conc deck	4 days	2012/4/16	2012/4/19				Filmer	3%6				
1407	XXConcreting	0 days	2012/4/19	2012/4/19				¥					
1408	Deck finishing	10 days	2012/4/20	2012/5/3				19/4					
1409	Railing installation.	7 days	2012/4/20	2012/4/27		1	· ·	1	9 ·				
1410	Lighting at Footbridge TB02	51 days	2012/4/20	2012/6/20				0%					
1411	Construction of Drawpits / Ductings	21 days	2012/4/20	2012/5/16	·			· ·	0%				
1412	Public lighting Installation (CE2308)	12 days	2012/5/17	2012/5/30									
1413	Public lighting Installation (CE2309)	12 days	2012/5/31						2%				
1414	Removal of existing lighting (VA2642-A1)			2012/6/13									
1415	Removal of existing lighting (VA2042-A1)	6 days	2012/6/14	2012/6/20					0%				
1415	River Bed formation (Ch 100-150)	15.1	001014/00	0010.00									
1417		15 days	2012/4/18	2012/5/7					0%				
	Excavation	8 days	2012/4/20	2012/4/30		1		0%					
1418	Placement of Concrete Block at Embankment Toe	10 days	2012/4/18	2012/4/30				10%					
1419	Fixing steel meshes	5 days	2012/5/2	2012/5/7				Ē.	Y% -				
1420	Gabion Wall (Ch 150-178 LHS) TG3A	222 days	2011/4/4	2011/12/30		13%							
1421	Excavation and formation	19 days	2011/4/4	2011/4/29		6							
1422	Construction of 450 Pipe/Pit at back of Gabion Wall	10 days	2011/12/17	2011/12/30		10%							
1423	Gabion Wall construction (Ch 150-178 LHS)	5 days	2011/11/8	2011/11/12	₩ <u>1</u> 00%								
1424	Backfilling	5 days	2011/11/14	2011/11/18	P 19%6								
1425	Gabion Wall (Ch 178-230 LHS) TG5A/TG2	15 days	2011/10/15	2011/11/1	33%								
1426	Gabien Wall construction (Ch 178-230 LHS)	10 days	2011/10/15	2011/10/26	<b>™</b>								
1427	Backfilling	5 days	2011/10/27	2011/11/1	0%								
1428	Maintainence Staircase (Ch 178 LHS)	4 days	2011/11/14	2011/11/17	0%								
『案: DC07 3期: 2011/			比率	女基準      留面目 女基準分隔     小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小小	回回回回回回 里程碑 摘要進用 摘要	¢ 		專案摘要報告 外部任務 外部里程碑	•	♥ 期限	Ŷ		

識別碼	任務名稱				工期	開始時間	完成時間	and a second sec	11.475	2012年								
1429	Ramo	ork and concreting			4 days	2011/11/1	4 2011	/11/17	9季	I	第一季		第二季		第三季		第	四季
1430		Footpath (Ch 150-0	52201145)		21 days	2011/11/10		1/12/3										
1431		ge & Footpath	412.50 [2613]		21 days	2011/11/10	-	· · · · · · · · · · · · · · · · · · ·	0%									
1432		(Ch 100-150 RHS)	7022		38 days			1/12/3 E	0%									
1433			nd shotcrete + 1st No fine			2011/10/25		1/12/7	0%									
1434			an shotcrete + 1st No time		5 days	2011/10/2		/10/29										
		tion toe			10 days	2011/10/2		1/11/8	98									
1435		oncrete toe			10 days	2011/11/		/11/19	15									
1436			and inclined gabion		10 days	2011/11/2		1/12/1	<b>7%</b>									
1437		te blocks at slope to			5 days	2011/12/2		1/12/7	4 0%									
1438		e Staircase (Ch 130	RHS)		4 days	2011/11/28	3 201	1/12/1	<b>10%</b>									
1439		ork and concreting			4 days	2011/11/22	8 201	1/12/1	D40%									
1440	Drainage &	Footpath (Ch 0-150	RHS)		45 days	2011/12/2	201	2/1/30	Carrier of the local division of the local d	(Second	0%							
1441	Constr	ction of drainage &	footpath		45 days	2011/12/2	201	2/1/30	100000000000000000000000000000000000000		256							
1442											~							
1443	Gabion Wal	(Ch 150-178 RHS)	TG4A	· · · · · · · · · · · · · · · · · · ·	22 days	2011/11/17	2011	12/12										
1444	Remov	e Existing footpath	and shotcrete		2 days	2011/11/17		/11/18	Dena:									
1445		tion and 1st stage N			6 days	2011/11/15		/11/25	1/10 1/10									
1446		ancrete wall			6 days	2011/11/22	1	11/28	B'ng					· .				
1447			and inclined gabion		8 days	2011/11/25		1/12/7	0% 50% 50%									
1448		té blocks at slope to	÷		4 days	2011/11/2			- 0%									
1449		te ouces at stope to TB03 (Ch 200)	c and Dacking					/12/12	- 0%									
1449			0.00005		121 days	2011/11/21		2/4/19				09	6					
		iction of Abutment 1			34 days	2011/11/21		12/31		0%	1							
1451		cavation and Blindi			14 days	2011/11/21	1	1/12/6	0%									
1452		rmwork and rebar fi			7 days	2011/12/7		12/14	1130%									
1453		increting of base sla			1 day	2011/12/15		12/15	- F_0%									
1454		ipping off formwork			2 days	2011/12/16		12/17	50%									
1455			ering formwork for column		7 days	2011/12/15	2011	12/28		10%	1							
1456	. 0	increting			1 day	2011/12/29	2011	12/29		10%								
1457	St	ipping off formwork	ς .		2 days	2011/12/30	2011	12/31		0%								
1458	Constru	ction of Decking (T	B03)		71 days	2011/12/7	20	2/3/5			o <b>Charles</b>	s						
1459	М	odification of LHS t	able top		18 days	2011/12/7	2011	12/29	1235-0-25	0%	- II I + -							
1460	Er	ection of steel deck-	- conc deck		4 days	2012/2/18		2/2/22		· ·	₩. 							
1461	D	ck finishing			10 days	2012/2/23		2/3/5			1 000							
1462		iling installation			2 days	2012/2/23		2/2/24			in the							
1463		g at Footbridge TB0	3		27 days	2012/2/25		/3/27			-10%	01						
1464		nstruction of Drawp			12 days	2012/2/25		2/3/9			· ·	• 0%						
1465		blic lighting Installa			6 days	2012/3/10			1			%						
1466		blic lighting Installa						/3/16				10%						
1467		ene ngnung instalia	00B (CE2522)		6 days	2012/3/17		/3/23				2%						
1468			him (111100 (21)		1 day	2012/3/24		2/3/24	1			* p*  						
	Ke	moval of existing hi	ghting (VA1309-Z1)		2 days	2012/3/26	2013	/3/27				<sup>0</sup> 0%						
1469									Ļ									
1470	TR6 at				34 days	2011/11/21			(annual i	0%								
1471		cavation and Blindin			14 days	2011/11/21		/12/6	30%									
1472		rmwork and rebar fi			7 days	2011/12/7			⊡_ <u>0</u> %									
1473		ncreting of base slat			1 day	2011/12/15		12/15	F10%									
1474		ipping off formwork			2 days	2011/12/16	2011/	12/17	0jos									
1475	Re	bar fixing and shutte	ring formwork for column		7 days	2011/12/19	2011/	12/28	H	0%								
		要經		任務	19.125	and refer to the state	七較基準		里程碑			專案摘要報	4. (19)200		期限	· £		
	6 River Prog			,				CALCULAR DESIGNATION OF STOL		•			. indaana	V	动的	$\sim$		
1期:2011/1	2/29	要極分隔		分割			t較基準分隔		摘要進度			外部任務	Charlen and	10001002000000000000000000000000000000				~
		要徑進度	The second second second	任務進度	Property and a		七較基準里程算	$\circ$	摘要	-		外部里程碑						

識別碼	任務名稱			期 開始的	時間 完成	時間		2012年								
1476	Co	ncreting	l	1 day 20	11/12/29	· 第 2011/12/29	四季		5李	3	二郡	1	第三季		第四季	
1477		pping off formwork				2011/12/31		10%								
1478		pping on an invert		2 0435 24	11/12/30	01012/51		0%								
1479	Cascade	at Ch230		2 days 20	11/11/21	2012/1/11										
1480		ravation and Blinding, temp work				2011/12/6		0%								
1481		mwork and rebar fixing of base slab				011/12/23	0%					1				
1482		toreting of base slab			and the second sec	2011/12/24	1 -	/8 .								
1483		pping off formwork				011/12/29	1 4	10								
1484		our fixing and shuttering formwork for colur			11/12/30	2012/1/7		0% -0% -0%								
1485		screting			2012/1/9	2012/1/9		100								
1486		pping off formwork				2012/1/11		1/%								
1487				a cours a				· 0%								
1488	River Be	d formation (Ch178-230)		3 days 2	012/2/23	2012/3/20	1									
1489		er Bed formation (Ch178-230)			012/2/23	2012/3/2				0%						
1490		rement of Concrete Block at Embankment T				2012/3/10			0%							
1491		ing steel meshes				2012/3/20										
1492	Step 1 (C					2012/3/30				780						
1493		istruction of Step 3 (Assume Mass Concrete		1.		2012/3/20				V 0%			. –			
1494		struction of Stilling Basin (base slab)				2012/3/27				2%0						
1495		struction of Baffle Blocks				2012/3/30			-	- 0% 						
1496		d formation (Ch 150-178)				2012/4/19				0%						
1497		avation			012/3/31	2012/4/5										
1498		ement of Concrete Block at Embankment T				2012/4/14				048						
1499		ng steel meshes				2012/4/19				100		· ·				
1500				• uuja 21	/12/#10	2012/015						· ·				
1501																
1502	Ch -23-45		61	7 days 20	010/8/30	2012/8/17			INSIS INCOME.	Nicologia - Victoria - V	ati ing mengapang peng					
1503	Retaining Wal	ll at Access D (Boulder Trap)				010/10/11							<b></b> 0%			
.1523		at Boulder Trap (RHS of downstream)			10/8/30	2010/9/4										
1525		Ch 60-75) RHS				2012/2/25			07							
1526		on and Blinding			012/1/31	2012/2/3		- Drug	a. 10%			1				
1527		k and rebar fixing of base slab			012/2/4	2012/2/9		r an	os ps ps ps ps ps ps							
1528	The second se	ig of base slab	and the second s			2012/2/10		i i	100							
1529		off formwork				2012/2/11		i	10%6 F0.00	· ·						
1530		ing and shuttering formwork for column		-		2012/2/17						-				
1531	Concretin					2012/2/18			Los Los							
1532		off formwork				2012/2/20			For							
1533	Backfill				4	2012/2/25			d or							
1534	Box Culvert 0	3 (Ch 45)				2012/4/1			0.90	0.05						
1535		tion of Base Slab	and an an an annual second second			2012/3/21			No. of Concession, Name	0.0						
1536		ove boulder and wire fence				2012/3/2	T		Úmr.	970						
1537		avation and Blinding				2012/3/10			1000							
1538		nwork and rebar fixing				2012/3/16										
1539		creting				2012/3/17										
1540		ping off formwork		-		012/3/21			1	р (С.						
1541		tion of Wall Stem and Top Slab	· · · · · · · · · · · · · · · · · · ·			2012/4/1				10 0.00						
1542	5. 3/2	nwork and rebar fixing				012/3/26				10%						
		西 add	1 100	100 200 Not 1510			and the h				100000000000000000000000000000000000000	STRONG STR				
「案: DC07	06 River Prog	要僅	1 任務		比較基準	NO KARGE AND THE REAL		•		專案摘要報告	A. Contraction		期限	Ŷ		
日期: 2011/		要徑分隔	" 分割		""" 比較基準分降		摘要進度	ALC HE LEW MA		外部任務	Andrew Contractor	1.1.1.1.1.1.1.1.1				
		要徑進度	任務進度	1000	·····································	型碑 ◇	摘要	Contraction of the		外部里程碑	4					
									•							

識別碼	任務名稱		工期	開始時間	完成時間			2012年						,
1643						第匹	學	第一季		第二季	第三季		第四季	
1543		ncreting	l day	2012/3/27	2012/3/27				50% ⊡ 0%					
1544		pping off formwork	5 days	2012/3/28	2012/4/1				0%					
1545	A L S	all at Access D (Boulder Trap)	326 days	2011/7/18	2012/8/17	22743-044-Partic Science	of the content of the		Manageral States Collines (1)		0%	,		
1546		g Wall (LHS)	49 days	2012/5/2	2012/6/28					Contraction of the local division of the loc	1%			
1547		cavation and blinding	14 days	2012/5/2	2012/5/17					10%				
1548	Ca	nstruction of Base Slab, Bay 2	8 days	2012/5/18	2012/5/26					0% 0% 0% 0% 0% 10% 10%				
1549		Formwork and rebar fixing	4 days	2012/5/18	2012/5/22					്വാം				
1550		Concreting	1 day	2012/5/23	2012/5/23					* 10%				
1551		Stripping off formwork	3 days	2012/5/24	2012/5/26					15-10%				-
1552	Co	istruction of Base Slab, Bay 1	8 days	2012/5/28	2012/6/5					<b>979</b> 0%				
1553	1	Formwork and rebar fixing	4 days	2012/5/28	2012/5/31					°_10%				
1554		Concreting	l day	2012/6/1	2012/6/1					F10%				
1555		Stripping off formwork	3 days	2012/6/2	2012/6/5					l <sup>™</sup> 70%				
1556	Ca	struction of Wall Stem, Bay 2	8 days	2012/6/6	2012/6/14									
1557		Formwork and rebar fixing	4 days	2012/6/6	2012/6/9					<sup>™</sup> _10%				
1558		Concreting	l day	2012/5/11	2012/5/11					070% 070% 070%				
1559		Stripping off formwork	3 days	2012/6/12	2012/6/14			_		B10%				
1560	Cor	astruction of Wall Stem, Bay 1	11 days	2012/6/15	2012/6/28						%			
1561		Formwork and rebar fixing	4 days	2012/6/15	2012/6/19					D0%				
1562		Concreting	1 day	2012/6/20	2012/6/20					50%				
1563		Stripping off formwork	3 days	2012/6/21	2012/6/25	1								
1564		Backfill the Retaining Wall	3 days	2012/6/26	2012/6/28	1								
1565		r Access D	326 days	2011/7/18	2012/8/17	Section and the section of the secti	Markeshares				0%			
1566		d Kerb and formation	64 days	2011/7/18	2011/9/30	0%					•			
1567		ement	30 days	2012/6/29	2012/8/3					Harr	10%			
1568		ing and street furniture	12 days	2012/8/4	2012/8/17									
1569	Lighting	at Access D	100 days	2011/11/21	2012/3/22				0%					
1570	Cor	struction of Drawpits / Ductings	21 days	2011/11/21	2011/12/14		0%		•					
1571	Pub	lic lighting Installation (CE2300)	3 days	2012/3/14	2012/3/16				0%					
1572	Pub	lic lighting Installation (CE2301)	3 days	2012/3/14	2012/3/16	S			0.05					
1573	Pub	lic lighting Installation (CE2302)	3 days	2012/3/14	2012/3/16				0% 0% 0%					
1574	Т&	C	1 day	2012/3/17	2012/3/17				F0%					
1575	Ren	soval of existing lighting (VA1278-A1)	2 days	2012/3/19	2012/3/20				F10%					
1576	Ren	toval of existing lighting (VA1279-A1)	2 days	2012/3/21	2012/3/22				0%					
1577					·									
1578	Ch 350-450		393 days	2011/1/3	2012/4/19	STATISTICS OF STREET, STATISTICS	State of the second second		09	-				
1579	Gabion Wall	(Ch 350-400 LHS) TR1 (AD)	43 days	2011/11/23	2012/1/14		and the second second	0%	. • •					
1580	Remove	Concrete Blocks and shotcrete + 1st No fine	10 days	2011/11/23	2011/12/3		A 10%							
1581	Excavati	on toe	10 days	2011/12/1	2011/12/12		10%							
1582	Mass cor	screte toe	10 days	2011/12/13	2011/12/23		. Č	96						
1583	2nd stage	no-fine concrete and inclined gabion	12 days	2011/12/24	2012/1/10			-10%						
1584	Concrete	blocks at slope toe and Backfilling	4 days	2012/1/11	2012/1/14			0%						
1585	Gabion Wall	Ch 400-450 LHS) TR1 (AD)	44 days	2011/10/21	2011/12/10	Contrast of the local division of the local								
1586	Remove	Concrete Blocks and shotcrete + 1st No fine	10 days	2011/10/21	2011/11/1	20% 20%				· · ·				
1587	Excavati	on toe	10 days	2011/10/31	2011/11/10	T 🖏	6							
1588	Mass cor	icrete toe	10 days	2011/11/11	2011/11/22		10%							
1589	2nd stage	no-fine concrete and inclined gabion	12 days	2011/11/23	2011/12/6		10% N%							
			····											
		要徑 任務		H-B	outre manage	TANKS CONTRACTOR	里程碑	٠	專案摘要報	· Unanessana	Sint W	문		
	06 River Prog							•			de contras	$\sim$		
]期:2011/	12/29	CONTRACTOR OF THE OWNER OF THE OWNER			交基準分隔		摘要進度	000000000000000000000000000000000000000						
		要徑進度 任務注	CIP Manufactures	日本	☆基準里程碑 ◇		摘要	Contraction of the local division of the loc	✓ 外部里程硝	-				

識別碼	任務名稱		工期	開始時間	完成時間			2012年					
1000						第四季	-	第一司	3	第二季	 第三季		第四季
1590		rete blocks at slope toe and Backfilling	4 days	2011/12/7	2011/12/10		0%						
1591		formation (Ch 350-400)	24 days	2012/2/22	2012/3/20			- <b>4</b>	0%				
1592		vation	10 days	2012/2/22	2012/3/3			r r	0%				
1593		ment of Concrete Block at Embankment Toe	12 days	2012/2/27	2012/3/10			ļ -	<u>~</u> 0%				
1594		g steel meshes	8 days	2012/3/12	2012/3/20				P10%				
1595		: TB06 (Ch 400)	393 days	2011/1/3	2012/4/19		20105404	al particular transferration	CONTRACTOR OF THE OWNER.	0%			
1596		truction of Abutment A (LHS)	28 days	2011/12/12	2012/1/16		Sec.	0%					
1597		Remove Concrete block and shotcrete	2 days	2011/12/12	2011/12/13		20%						
1598		Excevation and Blinding	10 days	2011/12/14	2011/12/24			7%					
1599		Formwork and rebar fixing of base slab	5 days	2011/12/28	· 2012/1/3		1	Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr D					
1600		Concreting of base slab	1 day	2012/1/4	2012/1/4			0_0%s					
1601		Stripping off formwork	2 days	2012/1/5	2012/1/6			<sup>6</sup> 0%					
1602		Reber fixing and shuttering formwork for column	5 days	2012/1/7	2012/1/12			ി_0%					
1603		Concreting	1 day	2012/1/13	2012/1/13			20%					
1604		Stripping off formwork	2 days	2012/1/14	2012/1/16			۵ <sup>۳</sup> 0%					
1605	Const	truction of decking	14 days	2012/3/21	2012/4/5				0%				
1606		Prection of steel deck+ conc deck	4 days	2012/3/21	2012/3/24				0 <sub>0%</sub>				
1607		Deck finishing	10 days	2012/3/26	2012/4/5				<sup>□</sup> 0% □0%				
1608		NA	0 days	2012/3/24	2012/3/24				24/3				
1609	j I	Railing installation	2 days	2012/3/26	2012/3/27				90%				
1610	Light	ing at Footbridge TB06	14 days	2012/3/26	2012/4/13					)%			
1611	(	Construction of Drawpits / Ductings	6 days	2012/3/26	2012/3/31				0,0%				
1612	I	Public lighting Installation (CE2311)	3 days	2012/4/L	2012/4/3				Eng Eng E				
1613	. H	Public lighting Installation (CE2310)	3 days	2012/4/5	2012/4/11				Č-10%				
1614		C&C	2 days	2012/4/12	2012/4/13				Ĩ 05	Ь			
1615	Demo	lition of Bridge TB-C	124 days	2011/11/1	2012/3/30	The second states		100000000000000000000000000000000000000	0%				
1616	1	Water Pipe Diversion	6 days	2011/11/1	2011/11/7	10%							
1617	3	temove concrete pipes and reprovide footpath	4 days	2011/11/8	2011/11/11	d 0%							
1618	3	Remove concrete pipes and demolition works	3 days	2012/3/28	2012/3/30				5 <sub>10%</sub>				
1619	Coust	urction of Gabion Wall at TB-C	7 days	2012/3/31	2012/4/11				- Bys	%			
1620	I	Excavation and Formation	3 days	2012/3/31	2012/4/2				F10%				
1621	(	Gabion Wall Construction (TBC LHS)	2 days	2012/4/3	2012/4/5				J-0%				
1622	1	Backfilling	2 days	2012/4/10	2012/4/11				T 0%				
1623													
1624	Gabio	n Wall (Ch 400-450 RHS) TR1 (replaced by AD1)	30 days	2011/1/3	2011/2/1								
1628	Gabio	n Wall (Ch 400-450 LHS) TR1 (replaced by AD1)	0 days	2011/12/10	2011/12/10		10/	2					
1633	Maint	ainence Staircase (Ch 420 LHS)	99 days	2011/12/2	2012/4/1		-	Sarahi Manadara	0%				
1634	F	formwork and concerting	4 days	2011/12/2	2011/12/6	. 1	Nos		• • • •				
1635													
1636	S	tep 5 (Ch 410)	19 days	2012/3/12	2012/4/1				0%				
1637		River Bed Formation (Ch400-410)	2 days	2012/3/12	2012/3/13				F10%				
1638		Construction of Step 3 (Assume Mass Concrete)	8 days	2012/3/14	2012/3/22				E 10%				
1639		Construction of Stilling Basin (base slab)	6 days	2012/3/23	2012/3/29				D-0%				
1640		Construction of Baffle Blocks	3 days	2012/3/30	2012/4/1				d 0%				
1641	River	Bed formation (Ch 410-450)	21 days	2012/3/23	2012/4/19				(Commenter	0%			
1642	E	Excavation	7 days	2012/3/23	2012/3/30				D05				
1643	P	lacement of Concrete Block at Embankment Toe	7 days	2012/3/31	2012/4/11				<sup>25</sup> уж — — — — — — — — — — — — — — — — — — —				
		要經 任務	1	行動	北洋 (10)500	NAME OF TAXABLE PARTY	星碑	•	専案調		<sup>₽</sup> ADDR	Ŷ	
	706 River Prog	要徑分隔 分割			10 10 10 10 TH	here's		•		A STATES A	 parties.	~	
日期: 2011/	/12/29	CONTRACTOR AND ADDRESS OF ADDRESS	(It who	515450			要進度			17			
		要徑進度任務	進度	比較	基準里程碑 🛇	摘	要	Q.	◆ 外部里科	四月 🔶			

					工期	開始時間	完成時間	4 L			2012年								
16(4		a starl modern				8414/17			第四部	È.	第一词	F.		- <b>\$</b>	第	三季		第四季	
		ig steel meshes			7 days	2012/4/1		2/4/19					0%						
1645		ert TB01 (Ch 450)			40 days	2011/3/1		1/4/29											
1646		truction of Base S			21 days	2011/3/1		11/4/2											
1651 1655	Con	truction of Wall S	tem and Top Slab		19 days	2011/4/	4 201	1/4/29		-									
1656	Drainage	& Footnath (Ch35	0-450) LHS & RHS		45 days	2011/11/2	3 201	2/1/17			0.07								
1657	a contract of the second		Ch350-450) LHS & RHS		45 days	2011/11/2		2/1/17		17102020202020	- how								
1658					15 00/0						0.30								
1659	Lighting a	tt CH 350-380			23 days	2012/1/1	8 201	2/2/16			ويستخرج	0%	-						
1660	Cons	truction of Drawp	ts / Ductings		14 days	2012/1/1	8 20	2/2/6			DESCRIPTION 10%	0.0							
1661	Publi	c lighting Installat	ion (CE2312)		7 days	2012/2/	7 201	2/2/14				*							
1662	T&C				2 days	2012/2/1	5 201	2/2/16			ď o								
1663											Ĩ								
1664	Ch 450-525				350 days	2011/3/16	5 201	/5/19		-	ering and a failed and a	a source and a source of	Sector Sector Sector	<b>9</b> 0%					
1665	Retaining Wall	(ch 450-500) TR2	(RHS)		49 days	2011/10/	2011/	11/28		<b>10%</b>			-	• • • •					
1666	Remove C	oncrete block and	shotcrete		7 days	2011/10/	2011	10/10	0%	•									
1667	Excavatio	n and Formation			35 days	2011/10/		11/16	0	\$6									
1668	Base Slab	Construction Bay	1+3 (RHS)		12 days	2011/10/17	2011/	10/29	0%										
1669	Form	work and rebar fix	ing		10 days	2011/10/17	7 2011	10/27	NEED 10%										
1670	Conc	reting			1 day	2011/10/28	3 2011	10/28	50%										
1671	Strip	ping off formwork			1 day	2011/10/29	2011	10/29	1,0%										
1672	Wall Stem	Construction Bay	1+3 (RHS)		13 days	2011/10/31	2011/	11/14		9%									
1673 .	Form	work and rebar fin	ing		6 days	2011/10/31	201	/11/5	00% 00%										
1674	Conc	reting			1 day	2011/11/	201	/11/7	F10%										
1675	Strip	sing off formwork		· · · · · · · · · · · · · · · · · · ·	2 days	2011/11/9	3 201	/11/9	0,0%										
1676	Back	611			4 days	2011/11/10	2011/	11/14	Ĕ 09	6									
1677	Base Slab	Construction Bay	2 (RHS) del		0 days	2011/10/29	2011/	10/29	\$ 29/10										
1681		Construction Bay			0 days	2011/10/29	2011/	10/29	\$ 29/10										
1686	Base Slab	Construction Bay	2 + 4 + step 6(RHS)		12 days	2011/10/31	2011/	11/12	0	56									
1687		work and rebar fix	ing		10 days	2011/10/31	2011/	11/10	E3370%										
1688	Cone				1 day	2011/11/11	2011/	11/11	10% 10%										
1689		ning off formwork			l day	2011/11/12	2011/	11/12	10%										
1690		Construction Bay			13 days	2011/11/14				095									
1691		work and rebar fix	ing		б days	2011/11/14	2011/	11/19		9% 9% 10%									
1692		reting			1 day	2011/11/21			6	9%									
1693		ing off formwork			2 days	2011/11/22			0	10%									
1694	Back	510			4 days	2011/11/24			1	70%									
1695	NA				0 days	2011/11/28		and a set		28/11									
1696	NA				0 days	2011/11/28				28/11									
1697	NA				0 days	2011/11/28				28/11									
1698	NA				0 days	2011/11/28			4	28/11									
1699	NA	- 1			0 days	2011/11/28				• 28/11									
1700	NA				0 days	2011/11/28			•										
1701	NA				0 days	2011/11/28				28/11									
1702	NA				0 days	2011/11/28				28/11									
1703	NA				0 days	2011/11/28				28/11									
1704	NA				0 days	2011/11/28	2011/	1/28		28/11									
		要徑	1554 BARGAR BARGAR	任務	100 CO 40		北較基準	-		CII 40-7 204	•		f skeider 1913 des J-	Gaussaaa			Ŷ		
	06 River Prog							No. of Concession, Name		里程碑	•		家摘要報告	ECOST WAARANT	· 79413	2	$\sim$		
期: 2011/1		要徑分隔		分割			北較基準分隔	+		摘要進度		mannin 9	部任務						
		要徑進度		任務進度	10000	SPACE PARTY INCOME.	七較基準里程碑	$\diamond$		摘要	Concession of the local division of the loca	9	部里程碑	$\diamond$					

86623314-8	任務名稱		工期	開始時間	完成時間		2012年								
1705	NA		0.4	2011/01/20	201101/08/1	第四季	1	第一季	3	与二季		第三季	1	那四季	
1705			0 days	2011/11/28	2011/11/28	→◆ 28/11									
1707	NA	-	0 days	2011/11/28	2011/11/28	28/11									
	NA		0 days	2011/11/28	2011/11/28		1								
1708	NA		0 days	2011/11/28	2011/11/28	28/11									
1709	NA		0 days	2011/11/28	2011/11/28	28/11	1								
1710	NA		0 days	2011/11/28	2011/11/28	28/11	1								
1711	NA		0 days	2011/11/28	2011/11/28	28/11									
1712	NA		0 days	2011/11/28	2011/11/28	28/11									
1713	Retaining Wa	ll (ch 450-500) TR2 (LHS)	54 days	2011/11/15	2012/1/19										
1714	Demoliti	on of House 2 Sha Po Tsaj	7 days	2011/11/15	2011/11/22	0.05	· ·								
1715	Excavati	on and Formation for TR2 Bay 1 to Bay 3	14 days	2011/11/29	2011/12/14	- <b>1</b>									
1716		on and Formation for TR2 Bay 4 to Bay 5	14 days	2011/12/15	2012/1/3	1	ne								
1717	2	Construction Bay 1+3 (LHS)	12 days	2011/12/12	2011/12/24		070								
1718		nwork and rebar fixing (with DWF)	10 days	2011/12/12	2011/12/22		1000		-						
1719		creting	1 day	2011/12/23	2011/12/23		190								
1720	and the second	pping off formwork	1 day				\$P%								
1720				2011/12/24	2011/12/24		0%								
		n Construction Bay 1+3 (LHS)	14 days	2011/12/28	2012/1/13		09	6						-	
1722		nwork and rebar fixing	8 days	2011/12/28	2012/1/6		10%								
. 1723		creting	1 day	,2012/1/7	2012/1/7		10%								
1724		ping off formwork	1 day	2012/1/9	2012/1/9		50%								
1725	Bac		4 days	2012/1/10	2012/1/13		0% D								
1726	Base Slal	Construction Bay 2 (LHS) del	0 days	2011/12/24	2011/12/24		24/12								
1730	Wall Ster	n Construction Bay 2 (LHS) del	0 days	2011/12/24	2011/12/24		24/12								
1735	Base Slat	Construction Bay 2 +4 + step 6 (LHS)	10 days	2011/12/23	2012/1/5		<b>10</b> 0%		1						
1736	For	twork and rebar fixing (with DWF)	8 days	2011/12/23	2012/1/4		105								
1737	Con	arcting	1 day	2012/1/5	2012/1/5		1 fos								
1738	Strit	ping off formwork	1 day	2012/1/6	2012/1/6		10%								
1739		n Construction Bay 2 + 4 (LHS)	11 days	2012/1/7	2012/1/19		10%								
1740		work and rebar fixing	5 days	2012/1/7	2012/1/12		E war	570							
1741		reting	I day	2012/1/13	2012/1/12		1								
1742		ping off formwork	1 day	2012/1/15	2012/1/15		2%								÷.,
1742	Bac				the second second second second second second		10% 10%								
1744			4 days	2012/1/16	2012/1/19		09	6							
1744	NA		0 days	2011/12/22	2011/12/22		22/12								
	NA		0 days	2011/12/22	2011/12/22	<b>₩</b>	22/12								
1746	NA	-	0 days	2011/12/22	2011/12/22		22/12								
1747	NA		0 days	2011/12/22	2011/12/22	→◆	22/12								
1748	NA		0 days	2011/12/22	2011/12/22		22/12								
1749	NA		0 days	2011/12/22	2011/12/22	<b> ↓</b>	22/12								
1750	ŇA		0 days	2011/12/22	2011/12/22		22/12								
1751	NA		0 days	2011/12/22	2011/12/22		22/12								
1752	NA		0 days	2011/12/22	2011/12/22		22/12								
1753	NA		0 days	2012/1/3	2012/1/3		4 1/1								
1754	NA		0 days	2012/1/3	2012/1/3		10								
1755	NA	1	0 days	2012/1/3	2012/1/3										
1756	NA		0 days	2012/1/3	2012/1/3		2.VI								
1757	NA		0 days			2	<b>X</b> 3/1								
1758	NA		0 days 0 days	2012/1/3 2012/1/3	2012/1/3		\$ 3/1								
17.00	NA INA		o cays	2012/1/3	2012/03		<b>◆</b> ]3/1								
Tale to care		要徑 任務	Citizen	a al activation [154	交接地 Reference	电程碑	\$		專案摘要報告	(Januar)	10	限	÷		_
N案: DC070 目期: 2011/1	06 River Prog	要徑分隔		EF#	这些事业分离	摘要進度	8777	Sanal Doddon and Street and Street	Ⅲ 外部任務	and the second second	New Kitchel				
1993: 2011/1	12/29	COLUMN STATES OF THE OWNER AS A DESCRIPTION OF													
		要徑進度 任務	速度	比测	交基準里程降 ◇	摘要			外部里程碑	-					

識別碼	任務名稱				工期	開始時間	完成時間		2012	and the state of the second				·····						
1759	NA				0 days	2012/1/3	2012/1/	第四季	46-3/1	第一季		第	÷		第	三季		第四	또캭	
760	NA				0 days	2012/1/3	2012/1/		3/1											
761	NA				0 days	2012/1/3	2012/1/	4 1 1	N NI											.
762	1W1				0.046325	2012/1/5	2012/1		<b>11</b>											
763	Drainage & Foo	nath (Ch 450-45	O RHS)		14 days	2011/11/29	2011/12/1													- 1
764		a of drainage &			14 days	2011/11/29	2011/12/1		0%											
765	Retaining Wall (				272 days	2011/3/16	2012/2/1		0%											
766			1 (incl. Step 7) (RHS)		28 days	2011/3/16	2012/2/1			0%										
771		Construction Bay			10 days	2011/4/19	2011/5/													
776			2 (incl. Step 7)(RHS)		20 days	2011/4/19	2011/.3/	11 1 1												
777		tion and Format			12 days	2012/1/4	2012/1/3		¥.	0%										
778		ork and rebar fi			6 days	2012/1/18	2012/1/2		2	9%										
779	Concre		7.111 <u>2</u>		1 day	2012/1/28	2012/1/2			- 0%										
780		ig off formwork			1 day	2012/1/30	2012/1/2			50%										
781		Construction Bay			12 days	2012/1/30	2012/2/1		E .	* 0%										
782		ork and rebar fir			5 days	2012/1/31	2012/2/1			0%										
783	Concre				1 day	2012/1/31	2012/2/			10% 10% 10% 10%										
784		ung 1g off formwork			2 days	2012/2/7	2012/2/			0%										
785	Backfi				2 days 4 days	2012/2/9	2012/2/1			10%	· .									
786	Decelle				+ days	2012/2/2/9	2012/2/1			T 0%										
787	Cascades (Ch 50	THS)			42 days	2011/10/1	2011/11/19													
788	Water Diver				42 days 21 days	2011/10/1	2011/10/2	• • • • • •												
189	Excavation	2000			9 days	2011/10/27	2011/11/2	2%	1.1											.
90		nd rebar fixing			10 days	2011/10/27	2011/11/	*												
91	Concreting	, introductions		:	] day	2011/11/18	2011/11/1	10%												
792	Stripping of	formwork			l day	2011/11/19	2011/11/19	F10%												
793	wasping or	A A A A A A A A A A A A A A A A A A A			1 uay	2011/1019	2011/11/1	- 0%		1										
794	Retaining Wall (	'h 500-530) TR	3 (1.HS) 2222		46 days	2011/11/29	2012/1/2													
795			1 (incl. Step 7)(LHS)		14 days	2011/11/29	2011/12/14			• 0%										
796		Concrete Block		•	2 days	2011/11/29	2011/11/3	- Inor	0.3											- 1
797		tion & blinding			5 days	2011/11/29	2011/12/	- 10% E. 10%												- 1
798		+	ting (with DWF)		7 days	2011/12/5	2011/12/12		07											
799	Concre		and (treater tray)		1 day	2011/12/13	2011/12/13		100		· · .									
800		g off formwork			1 day	2011/12/14	2011/12/14		08											-
801		onstruction Bay			10 days	2011/12/15	2011/12/28		0%											
802		ork and rehar fix			4 days	2011/12/15	2011/12/19													·
803	Concre				1 day	2011/12/20	2011/12/20		10											
804		g off formwork			1 day	2011/12/21	2011/12/21		Even I											- 1
805	Backfil		-		4 days	2011/12/22	2011/12/20		a los											
806			2 (incl. Step 7)(LHS)		16 days	2011/12/24	2012/1/14		070	08										
807		Concrete Block			4 days	2011/12/24	2011/12/30		CHOS.	0%0										- 1
808		ion & blinding			5 days	2011/12/31	2012/1/													
809			ting (with DWF)		5 days	2012/1/7	2012/1/12		Ľ.		·									
10	Concre				l day	2012/1/13	2012/1/13			5										
11		g off formwork			1 day	2012/1/14	2012/1/14													
12		onstruction Bay			8 days	2012/1/16	2012/1/27			05										
13		ork and rebar fix		:	4 days	2012/1/16	2012/1/19		ľ	0%										
		要徑		任務			*#*#	in the second		•		A THE ALL MA	7.0000000000000000000000000000000000000		photore		л			
: DC070	6 River Prog							11200000000000000000000000000000000000		<b>\$</b>		被要報告	FILST STREET	*	期限	1	Ŷ			
月: 2011/1		要經分隔		分割		比率	交基準分隔	摘要:	渡 [		□□□ 外部f	£務	Contract Press	2002/01/01/01/01						
		要徑進度		任務進度	of Kneeldell	Et@	シ基準里程碑 ◇	摘要			♥ 外部!	【程碑	-							

識別碼	任務名稱		工期	開始時間	完成時間		2012年			
						第四季	第一季	第二季	第三季	第四季
1814		ncreting	1 day	2012/1/20	2012/1/20		10%			
1815		ipping off formwork	I day	2012/1/21	2012/1/21		0%			
1816	Ba	ckfill	2 days	2012/1/26	2012/1/27		170%			
1817										
1818	Drainage & I	Footpath (Ch 490-525 RHS)	30 days	2012/2/9	2012/3/14		a subscription of the second	0%		
1819	Constru	ction of drainage & footpath	30 days	2012/2/9	2012/3/14		Charles and	0%		
1820										
1821	Footbridge T	1B07 (Ch 525)	119 days	2011/10/3	2012/2/25	COLUMN STORY				
1822	Tempor	ary Pedestrian Division	15 days	2011/10/3	2011/10/20	0%	•••			
1823	Te	mporary Pedestrain Division (st grade)	14 days	2011/10/3	2011/10/20					
1824		tion of existing Footbridge TB-D (Ch 525)	3 days	2011/10/21	2011/10/24	0%				
1825		move concrete pipes and demolition works	3 days	2011/10/21	2011/10/24	9 0%				
1826		ction of Abutment A (LHS)	27 days	2011/12/31	2012/2/4	0%				
1827		cavation and Blinding	7 days	2011/12/31	2012/1/9		0%			
1828		mwork and rebar fixing for base slab	5 days	2012/1/10						
1829		ncreting of base slab	1 day	2012/1/10	2012/1/14		10%			
1825			· · · · · · · · · · · · · · · · · · ·		2012/1/16		0%			
1830		ipping off formwork	3 days	2012/1/17	2012/1/19		10%			
		bar fixing and shuttering formwork for column	4 days	2012/1/20	2012/1/27		0%			
1832		ncreting	1 day	2012/1/28	2012/1/28		-jos			
1833		ipping off formwork	2 days	2012/1/30	2012/1/31		្សា ពី <sub>0%</sub>			
1834		ckfill	4 days	2012/2/1	2012/2/4		D 0%			
1835		ction of Abutment B (RHS)	31 days	2012/1/18	2012/2/25		0%			
1836 -	Em	cavation and Blinding	12 days	2012/1/18	2012/2/3	1	0% 19% 19% 19% 19% 19% 19% 19% 19%			
1837	For	mwork and rebar fixing for base slab	5 days	2012/2/4	2012/2/9		±10%			
1838	Co	ncreting of base slab	1 day	2012/2/10	2012/2/10		50%	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
1839	Stri	ipping off formwork	2 days	2012/2/11	2012/2/13		0%s			
1840	Rel	bar fixing and shuttering formwork for column	4 days	2012/2/14	2012/2/17		0-10%			
1841	Cor	ncreting	1 day	2012/2/18	2012/2/18		910%	-		
1842	Stri	ipping off formwork	2 days	2012/2/20	2012/2/21		For			
1843	Bad	:kfill	4 days	2012/2/22	2012/2/25					
1844	Footbridge T	B07 (Ch 525)	31 days	2012/4/12	2012/5/19	· · ·	0,0	000		
1845		ction of decking	16 days	2012/4/12	2012/5/2	· ·		or one		
1846		ction of steel deck+ conc deck	4 days	2012/4/12	2012/4/16			0.98		
1847		*k finishing	10 days	2012/4/17	2012/4/27			-1/10		
1848	NA		0 days	2012/4/27	2012/4/27			1/20		
1849		ling installation	2 days	2012/4/2)	2012/5/2			<b>♥</b> _27/4		
1849		lge TB07 Lighting					11			
1850			15 days	2012/5/3	2012/5/19			0%		
		nstruction of Drawpits / Dacting	7 days	2012/5/3	2012/5/10			10%		
1852		olic lighting Installation (CE2328)	6 days	2012/5/11	2012/5/17			¥ 0%		
1853		olic lighting Installation (CE2329)	6 days	2012/5/11	2012/5/17					
1854	Τ&	C	2 days	2012/5/18	2012/5/19			0%		
1855										
1856	Ch 525-615		497 days	2010/10/15	2012/5/21	configurity of sectors on the part	and statements were and the second second	······································		
1857			7 days	2011/10/1	2011/10/10	0.95				
1858	Retaining Wa	11 (Ch 535-546) TR4 (LHS)	36 days	2012/1/17	2012/3/1		09	,		
1859	Excavati	on and Formation	14 days	2012/1/17	2012/2/4		E 108			
1860	Base Sla	b Construction Bay 1&2 (LHS)	11 days	2012/2/6	2012/2/17		0%			
		THE GOV	111 111	in the size of a	0.64.144			belances by the second s	1996 1973 August	ф.
[案: DC07	06 River Prog	要徑 任務				里程品		專案摘要報告	期限	V
朝: 2011/		要徑分隔 分割		比東	收基準分隔	摘要:	É度 (11.10100000000000000000000000000000000	外部任務	Concession of the second se	
- And the second s		要徑進度	進度		炎基準里程碑 ◇	摘要	State or could be about	外部里程碑 🔷		
		LL10		PUR	V THEFT	#4.5K	• •	straivarianala A		

識別碼	任務名稱	工期	開始時間	完成時間			2012年							
1071	Demunde and extended as				第0	四季		第一季	3	二章	第.	李	第四	浮
1861	Formwork and rebar fixing	8 days	2012/2/6					L. 10%						
1862	Concreting	1 day	2012/2/15					10%						
1863	Stripping off formwork	2 days	2012/2/16					0%						
1864	Wall Stem Construction Bay 1 (LHS) delete	0 days	2012/2/17					17/2						
1869	Base Slab Construction Bay 2 (LHS) del	0 days	2012/2/15					15/2						
1873	Wall Stem Construction Bay 1&2 (LHS)	II days	2012/2/18	2012/3/1				09	6					
1874	Formwork and rebar fixing	6 days	2012/2/18	2012/2/24				10m						
1875	Concreting	1 day	2012/2/25	2012/2/25				10% 10% 10%						
1876	Stripping off formwork	1 day	2012/2/27	2012/2/27				F.0%						
1877	Backfill	3 days	2012/2/28	2012/3/1				10%						
1878														
1879	Retaining Wall (Ch 535-546) TR4 (RHS)	35 days	2012/2/14	2012/3/24				CONTRACTOR OF CONTRACTOR	05					
1880	Excavation and Formation	12 days	2012/2/14					- na	• 0.0					
1881	Base Slab Construction Bay 1+2 (RHS)	11 days	2012/2/28					170	00					
1882	Formwork and rebar fixing (with DWF)	8 days	2012/2/28				( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		u70					
1883	Concreting	1 day	2012/3/8						10 					
1884	Stripping off formwork	2 days	201.2/3/8					2	10					
1885	Wall Stem Construction Bay 1 (RHS) del	2 days 0 days					1	1	196					
1890	an energy of the second s		2012/3/10	and the second s				· · · ·	10/3					
1890	Base Slab Construction Bay 2 (RHS) del	0 days	2012/3/10					•	10/3					
	Wall Stem Construction Bay 1+2 (RHS)	12 days	2012/3/12						<b>9</b> 0%					
1895	Formwork and rebar fixing	6 days	2012/3/12					. 12	0%					
1896	Concreting	1 day	2012/3/19						<b>D</b> %					
1897	Stripping off formwork	2 days	2012/3/20						<sup>1</sup> 0%					
898	Backfill	3 days	2012/3/22						ĭ <sup>™</sup> 0% ∶					
1899	Retaining Wall TRS Ch (546-596 RHS) TR5 (AD)	306 days	2010/10/15		0%									
1900	Construction of temp haul road	25 days	2010/10/15	2010/11/8										
1901	Demolition of Existing structure at slope crest	8 days	2010/11/9	2010/11/16										
1902	Suspension of Work due to villagers rally	17 days	2010/12/2	2010/12/18				· ·						
1903	Construction of temporary ground beam	5 days	2010/12/19	2010/12/23		1								
1904	Trimming of rock slope (from downstream to upstream)	73 days	2010/12/24		· · ·	10.44		1.1			· · -			
1905	Install rock dowel	45 days	2011/2/22											
1906	Construction of skin wall (from D/S to U/S, from toe to crest)	165 days	2011/3/10		18.									
1907				LOLDINAL	<sup>20</sup>			1						
1908	Retaining Wall TR5A CH546-585 LHS	34 days	2012/2/28	2012/4/10					and the second second					
1909	River diversion, Excavation and Formation	24 days	2012/2/28	2012/3/26		1		1170070	- 0% ·					
1910	Base Slab Construction TR5A Bay 1 LHS	8 days	2012/3/9	2012/3/17				ENDER	0%					
1911	Formwork and rebar fixing	6 days	2012/3/9						0%					
1912	Concreting								D%					
		1 day	2012/3/16						D.22					
1913	Stripping off formwork	1 day	2012/3/17						0%					
1914	Wall Stem Construction TR5A Bay 1 LHS	9 days	2012/3/19						0%					
1915	Formwork and rebar fixing	4 days	2012/3/19	l	1.1				₽_9%					
1916	Concreting	1 day	2012/3/23						20%					
1917	Stripping off formwork	1 day	2012/3/24	3					50% 0.0%					
1918	Backfill	3 days	2012/3/26	2012/3/28					L 0%					
1919	Base Slab Construction TR5A Bay 2 LHS	8 days	2012/3/19	2012/3/27					0%					
1920	Formwork and rebar fixing	6 days	2012/3/19	2012/3/24					0%					
1921	Concreting	1 day	2012/3/26	2012/3/26					F10%					
	要律	Sec. 1.1	1	- 較基準		里程碑	•	10.00	Websterne a	- Bassans	1913	5	L.	
(案: DOV	706 River Prog				2264193904459		•		專案摘要報告	EXTERNAL CONTRACTOR	4. history	2	/	
期: 2011	/12/29 要徑分隔 分割	111111111	Н	比較基準分隔	,	摘要進度			1 外部任務					
	要促進度 任務	進度		上較基準里程碑 ◇		摘要			外部里程碑	4				
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MADING	任務名稱				工期	開始時間	完成時	[H]		2012年							
1922	Sir.	pping off formwork	· · · · · · · · · · · · · · · · · · ·		1.44	2010.00	2 20	12007	第四季		第一季		二季	第三	季	第	四季
1922		pping off formwork m Construction TR		• • • • • • • • • • • • • • • • • • •	1 day	2012/3/2 2012/3/2		12/3/27				70%					
1923		m Construction TR nwork and rebar fit			9 days 4 days	2012/3/2		12/4/10				0%					
1924		creting	xing		4 days 1 day			12/3/31				0% 0%					
1925		oping off formwork				2012/4/		012/4/1				<b>1</b> 0%					
1920	Bac				l day	2012/4/		012/4/2				10%					
1927			A D 0 X X10		3 days	2012/4/		12/4/10				0%					
		Construction TR5			8 days	2012/3/		12/3/17				0%					
1929		nwork and rebar fiz	rcing		6 days	2012/3/		12/3/15			90	10%s					
1930		creting			1 day	2012/3/1		12/3/16				278 10% 10% 10% 10% 10%					
1931		pping off formwork			1 day	2012/3/1		12/3/17			· · ·	10%					
1932		n Construction TR:			10 days	2012/3/19		12/3/29				0%					
1933		nwork and rebar fiz	king		4 days	2012/3/19		12/3/22				0_0%					
1934		creting			1 day	2012/3/2		12/3/23				5 <u>0</u> %					
1935		ping off formwork			1 day	2012/3/2	4 20	12/3/24				1 <u>0</u> %					
1936	Bac	cfill			4 days	2012/3/2	6 20	12/3/29				° ₫ <sub>0%</sub>					
1937																	
1938	Box Culvert T	B02 (ch 580)			25 days	2012/1/28	8 20	2/2/25		1.1	0%						
1939	- Haul Ros	d Diversion to TR3	Bay 3, River diverison, E	tcavation	8 days	2012/1/2	8 2	012/2/6			-0% × 0%						
1940	Construct	ion of Base Slab			8 days	2012/2/		2/2/15		1	05.						
1941	For	nwork and rebar fia	uing		6 days	2012/2/		12/2/13			Times.						
1942	Con	creting	-		1 day	2012/2/14		12/2/14			ine.						
1943	Strip	ping off formwork			1 day	2012/2/1		2/2/15			10% 10% 10%						
1944		ion of Wall Stem a			9 days	2012/2/16		2/2/25			- 0%						
1945		iwork and rebar fix			6 days	2012/2/16		2/2/22			Chart Use						
1946		ireting	ang		l day	2012/2/2/2		2/2/23			0%						
1947		ping off formwork			2 days	2012/2/2/2		2/2/25			10% 0%						
1948		gning on Tourismon,			2 Gays	23121212	20.	212165			<sup>0</sup> 0%						
1949	Dataining Web	TR5A & TR6 CH	1000 606 1 110		39 days	2012/2/7		2000									
1949			to TR3 and TR5 RHS)					2/3/22			diama and a second	9%					
1950			to TR5 and TR5 RHS)		3 days	2012/2/7		)12/2/9			-J0%						
		n and Blinding	D 4 1 110		12 days	2012/2/10		2/2/23			in the second se						
1952		Construction TR6	+		6 days	2012/2/24	1	12/3/1			0%						
1953		work and rebar fix	ung		4 days	2012/2/24		2/2/28			La 10%						
1954		areting			I day	2012/2/29		2/2/29			\$ <u>0</u> %						
1955		ping off formwork			l day	2012/3/1		012/3/1			<sup>6</sup> 10%						
1956		n Construction TR6			9 days	2012/3/2		2/3/12				0%					
1957		work and rebar fix	ting		4 days	2012/3/2		12/3/6			P_0%						
1958		reting			1 day	2012/3/7	1	12/3/7			50%						
1959		ping off formwork			l day	2012/3/8	E	12/3/8			509	ŀ					
1960	Back				3 days	2012/3/9	201	2/3/12			ចិ <sub>លន</sub> ហ្វែន ពិល្អ	<b>%</b>					
1961	Base Slab	Construction TR5.	A Bay 4 LHS		6 days	2012/3/1	20	12/3/7				%					
1962	Form	work and rebar fix	ing		4 days	2012/3/1	20	12/3/5			0 ne						
1963	Cond	reting			1 day	2012/3/6		12/3/6			Hag						
1964	Strip	ping off formwork			1 day	2012/3/7		12/3/7			the						
1965		Construction TR5			9 days	2012/3/8		2/3/17			0.00	0.65					
1966		work and rebar fix			4 days	2012/3/8		2/3/12			1. A.	e 10710					
1967		reting	-	· · · · · · · · · · · · · · · · · · ·	1 day	2012/3/13		2/3/13			12	70 W					
1968		ping off formwork			1 day	2012/3/14		2/3/14				1% )%					
	Gulp					2012/0/14	201	AT 47 1 1		1	[']	F70					
inter a second		要徑	1115 1147 000 00101	任務	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	t-molatild B	北較基準	The second s	1111 里程碑	4	•	專案摘要報告	Strengton and	₩ 期限	Ŷ		
V案: DC070 日期: 2011/1	6 River Prog	要徑分隔	11111111111111111111111111111111111111	分割	1911 Ball ( ) ( )		北較基準分隔		摘要進度	(°		外部任務					
1995: 2011/1	<i>U19</i>	要徑進度			1-Marian					~ #							
		委德進度		任務進度		, i	北較基準里程码	¥∨	摘要			外部重程碑					

	任務名稱				工期	開始時間	完成時間	ANT T INTERNAL AND A DAMAGE AND A	2012年						
1969	Đ.	ckfill			2 4	0010/04/2	0010.02	第四季		第一季	3	江季	第三季		第四季
1909		ab Construction TR5A	Dou: 6 7 120		3 days	2012/3/15	2012/3/				0%				
1970		and construction 185A		i	6 days	2012/3/6	2012/3/				0%				
1971			ng		4 days	2012/3/6					10% 10%				
1972		mcreting			1 day	2012/3/10					10%				
		ripping off formwerk			l day	2012/3/12					-T0%				
1974		em Construction TR5A			9 days	2012/3/13	2012/3/2				0%				
1975		rmwork and rebar fixin	ıg		4 days	2012/3/13					010%				
1976		ncreting			1 day	2012/3/17	2012/3/				10%				
1977		ripping off formwork			1 day	2012/3/19	2012/3/				F_0%				
1978	Ba	ckfill			3 days	2012/3/20	2012/3/	2			50% 50% 50% 60%				
1979					i										
1980	Retaining W	all (ch 595-615) TR3 (	Bay 3)		63 days	2011/10/1	2011/12/1	STATES OF STREET, STRE	0%						
1981	River d	iversion, Excavation an	nd Formation		12 days	2011/10/1	2011/10/	0 mail 10 m	T						
1982	Base SI	ab Construction Bay 3	RHS		10 days	2011/10/11	2011/10/2								
1983	Fo	rmwork and rebar fixin	12		8 days	2011/10/11	2011/10/1								
1984	Co	ncreting			1 day	2011/10/20	2011/10/2								
1985	Str	ipping off formwork			1 day	2011/10/21	2011/10/2								
1986		em Construction TR3 E	Bay 3 RHS		6 days	2011/10/22	2011/10/2		1		· · · ·				
1987		mwork and rebar fixin			4 days	2011/10/22	2011/10/2								
1988		ecreting	-		1 day	2011/10/27	2011/10/2								
1989		ipping off formwork			1 day	2011/10/28	2011/10/2	1/10							
1990		ab Construction Bay 31	1149		10 days	2011/10/28	2011/10/2								
1991		mwork and rebar fixin													
1992		acreting	E.		8 days	2011/11/23	2011/12		· .						
1992		ipping off formwork			1 day	2011/12/2	2011/12	20%	÷ .						
1993			0.1.100		1 day	2011/12/3	2011/12/	10%							
1994		em Construction TR3 E		·	9 days	2011/12/5	2011/12/1		9%						
		mwork and rebar fixing	g		4 days	2011/12/5	2011/12/								
1996		ncreting			1 day	2011/12/9	2011/12/	10%							
1997		ipping off formwork			l day	2011/12/10	2011/12/1								
1998		k fill & diversion			3 days	2011/12/12	. 2011/12/1	- <sup>10</sup> 09	6						
1999		b (Ch546 - Ch596) LH	S		144 days	2011/11/2	2012/4/2	None of Concession, Name	COLUMN TWO IS NOT	en successive e	0.5	6			
2000	Bay 1,2				14 days	2011/11/2	2011/11/1	0%							
2001	Ex	cavation/Blinding			3 days	2011/11/2	2011/11/	510%							
2002	For	mwork and rebar fixing	g for slab		6 days	2011/11/5	2011/11/1	<u>ش</u> 10%							
2003	Co	ncreting of slab			3 days	2011/11/12	2011/11/1	0 <sub>10%</sub>	1						
2004	Str	ipping off formwork			2 days	2011/11/16	2011/11/1	Dos Dos Dos Dos Dos							
2005	Bay 1 L	HS			10 days	2012/3/20	2012/3/3				0%				
2006	En	cavation/Blinding			3 days	2012/3/20	2012/3/2				0-10%				
2007	For	mwork and rebar fixing	g for DWF	-	2 days	2012/3/23	2012/3/2	1			10%				
2008	Co	ncreting of DWF			1 day	2012/3/26	2012/3/2				0%				
2009	For	mwork and rebar fixing	g for slab		3 days	2012/3/26	2012/3/2				10%				
2010		ncreting of slab			1 day	2012/3/29	2012/3/2	1							
2011		pping off formwork			1 day	2012/3/30	2012/3/3				10%				
2012	Bay 2 L	and the second s			9 days	2012/3/23	2012/4/								
2013		avation/Blinding			2 days	2012/3/23	2012/3/2				0% Hor				
2014		mwork and rebar fixing	e for DWF		2 days	2012/3/25	2012/3/2				- 10%				
2015		neroting of DWF	g and de tra		1 day	2012/3/28	2012/3/2				1% 1%				
			Print in an inclusion					-							
EK: DC070	6 River Prog	要徑		任務		b:	較基準 💷	日本 単相称	•	•	專案摘要報告	•	期限	문	
3期:2011/1		要徑分隔		分割	101112-001214473		較基準分隔	摘要進度	Π						
- see the of the		要徑進度	and the second second	任務進度	14世界中的		較基準里程碑 ◇	摘要		(sinter single party of the	♥ 外部里程碑	•			

識別碼	任務名稱		工期	開始時間	完成時間		2012年			
2017						第四季	第一季	第二季	第三季	第四季
2016		mwork and reber fixing for slab	3 days	2012/3/28	2012/3/30			90%		
2017		creting of slab	1 day	2012/3/31	2012/3/31			50%		
2018		pping off formwork	1 day	2012/4/1	2012/4/1			0%		
2019	Bay 3 L		11 days	2012/3/26	2012/4/10		· · ·	V V V V V		
2020	server a server recommendant of the sub-server server	avation/Blinding	2 days	2012/3/26	2012/3/27			и пук трж трж трж тук ток		
2021		nwork and rebar fixing for DWF	2 days	2012/3/30	2012/3/31			- <b>E</b> 0%		
2022		creting of DWF	1 day	2012/4/1	2012/4/1			0%		
2023		nwork and rebar fixing for slab	3 days	2012/4/1	2012/4/3			F130%		
2024		creting of slab	1 day	2012/4/5	2012/4/5			50%		
2025		pping off formwork	1 day	2012/4/10	2012/4/10			T 0%		
2026	Bay 4 L	IS	11 days	2012/3/28	2012/4/12			0%		
2027	Exc	avation/Blinding	2 days	2012/3/28	2012/3/29			F0%		
2028	For	nwork and rebar fixing for DWF	2 days	2012/4/1	2012/4/2			10%		
2029	Cor	creting of DWF	1 day	2012/4/3	2012/4/3			Fos		
2030	For	nwork and rebar fixing for slab	3 days	2012/4/3	2012/4/10			E Area		
2031	Cor	creting of slab	1 day	2012/4/11	2012/4/11			Fings		
2032	Stri	pping off formwork	l day	2012/4/12	2012/4/12			F10%		
2033	Bay 4 RJ	IS	13 days	2012/4/13	2012/4/27			Cos Cos Cos Cos Cos Cos Cos Cos		
2034	Exc	wation/Blinding	5 days	2012/4/13	2012/4/18			0% <sup>0</sup> 0% <sup>1</sup> 0% <sup>1</sup> 0%		
2035	For	awork and rebar fixing for slab	3 days	2012/4/19	2012/4/21			50% ·		
2036	Con	creting of slab	1 day	2012/4/23	2012/4/23			Pine.		
2037	Stri	ping off formwork	1 day	2012/4/24	2012/4/24			Line.		
2038	rem	ove haul road	3 days	2012/4/25	2012/4/27			05		
2039								0.10		
2040	Drainage and	Footpath (Ch525-615 LHS & RHS)	48 days	2012/3/9	2012/5/9			NOT THE OWNER WATER OWNER		
2041	Construc	ion of footpath & drainage works	48 days	2012/3/9	2012/5/9		EISTR	Contractive and the second second		
2042	Lighting at CI		10 days	2012/5/10	2012/5/21			0.00		
2043	Construc	ion of Drawpits / Ducting	6 days	2012/5/10	2012/5/16			10% 10% 10% 10%		
2044	Public lig	hting Installation (CE2325)	2 days	2012/5/17	2012/5/18			ll ow		
2045	A REAL PROPERTY AND ADDRESS OF THE OWNER	hting Installation (CE2326)	2 days	2012/5/17	2012/5/18			10%		
2046	CONTRACTOR CONTRACTOR CONTRACTOR	hting Installation (CE2327)	2 days	2012/5/17	2012/5/18			10%		
2047	T&C.	· · · · · · · · · · · · · · · · · · ·	1 day	2012/5/19	2012/5/19			- 1/20 how		
2048	Removal	of existing lighting (CE1600-B2)	1 day	2012/5/21	2012/5/21			- 17% Corr		
2049			1 uuy	10110-010-0	40120 3021			° 0%		
2050	Section 4 - Box Culvert	at Ping Long	0 days	2009/12/9	2009/12/9					
2051	Section 4 - Box Cu		0 days	2009/12/9	2009/12/9					
2052		Work at Section 4	0 days	2009/12/9	2009/12/9					
2053			o unys	2005/12/5	2003711277					
2054	Section 5 - Landscane F	stablishemnt Works (Portion B, C, D, E, F, G, H & D	1951 days	2007/9/28	2013/7/1	i An an	The second s	NAME AND ADDRESS OF ADDRESS ADD		
2055	Section 5 Landscap		1665 days	2007/9/28	2013/7/26		201 (14210-7015) (142410-11244) (1442) (1420)	Automb 6 (Aligned and a second second	2012-002010011	
2056	Commencement of		1005 days	2007/9/28	2007/9/28				0%	
2057	Material Submissio		1 day 120 days	2007/9/28	2008/1/25					
2058	Submission Approv		Summer and the second s							
2059	Landscaping Hardy		0 days 1541 days	2008/2/9	2008/2/9		La	and the second se		
2059	Landscaping Softw			2007/11/11	2012/4/19			0%		
2060	Submission of Tree		365 days	2011/1/30	2012/4/18	Construction of the second		0%		
2062		survey otection of Preserved Trees	400 days	2007/9/29	2008/11/1	Conversion of the Data Spin Street and the Difference				
6006	rieservation and Pr	necount of Freserveu Trees	1550 days	2008/11/2	2013/7/1	entre 5 dicte intenti de 22 i martino 3	I.			
			1112-0	10. Call				NUMBER OF BRIDE OF	icult-MIDI DETAinva	0
集察: DC070	06 River Prog	要徑 任務		此	較基準 回回	里程碑	•	專案摘要報告		<u>0</u>
3期:2011/1		要徑分隔 分割		H	較基準分隔	摘要進	¢	外部任務		
		要徑進度 任務派	ing statutes	H	較基準里程碑 🛇	摘要	Construction of the local division of the lo	外部里程碑		
		1			Contraction of the second seco	111.05	· ·	A MARINE AL		

識別碼	任務名稱		工期	開始時間	ale obstit.BE									
********			_1.90	NUMBER IN	完成時間	第四季	2012年	第一季	407	季	AN		hite eren sale	
2063	Landscape Establish	hrhent Works	1550 days	2008/11/2	2013/7/1	9796969		97- <del>7</del> -	56-	-9e	第三季	Property in the local data	第四季	And Annals
2064	Completion of Wor	ks	0 days	2013/7/1	2013/7/1									
2065														
2066	Section 6 - Landscape Es	stablishemnt Works (Portion J, K & M)	1701 days	2007/9/28	2012/9/6	Concerning and the second s	CONTRACTOR DESCRIPTION		1940-000 PM-1520-0		siene Arres	0%		
2067	Section 6 Landscape		1665 days	2007/9/28	2012/7/26	a la managera d'all'artes dan se mandre	international and a second	1424030303483745			<sup>3</sup> 0%	• • • •		
2068	Commencement of		1 day	2007/9/28	2007/9/28						010			
20,69	Material Submission		120 days	2007/9/29	2008/1/26									
2070	Submission Approv		0 days	2008/2/9	2008/2/9									
2071	Landscaping Hardw		1161 days	2008/11/25	2012/4/19	2.200 and 12.200 and 12.200	45.21.9854 (Friday) (2.2		0%					
2072	Landscaping Softwo		365 days	2011/1/31	2012/4/19		al source begins on the		0%					
2073	Submission of Tree		400 days	2007/9/29	2008/11/1									
2074	And a second of the second of the second sec	olection of Preserved Trees	1300 days	2008/11/2	2012/9/6	and the second second	WICH CONTRACTOR INCOME.	ALC: CALVE COLORIDO	alise of a subset of a			10%		
2075	Landscape Establish		1300 days	2008/11/2	2012/9/6	The survey of the output of	1 1 - Contractor Contractor (Contractor)	Manufor Resources	el calabar de la Calaba com		ilian ann an	_ <u>0%</u>		
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2080	Commencement of V		1 day	2007/9/28	2007/9/28									
2081	Material Submission Submission Approva		120 days	2007/9/29	2008/1/26									
2082	Landscaping Hardwo		0 days	2008/2/9	2008/2/9									
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2085		taction of Preserved Trees	400 days	2007/9/29	2008/11/1			· · · ·						
2087	Landscape Establish		1300 days	2008/11/2	2012/9/6	ACCUMUL CONFILMENCE OF A CONFILMENCE OF	inter previous and a list of		<u>Cardiostanaide ing da</u>	CONTRACTOR FORMATION CONTRACTOR	5-91 Stor C 19435	0%		
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2093	Completion of Works		0 days	2013/2/13	2013/2/13				The second state of the second state	CONTRACTOR AND ADDRESS	AND CONTRACTOR		OD-BUILDERSECTED STATES TO D	E.P.C.PHILL
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					第	37頁								

Appendix J: Complaint Investigation Reports and Log



Our ref. no.: DC0706-CL-111201(EPD)

<sup>th</sup> December 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/00024845-11Date received:1st December 2011Incident location:Upper Tai Po River (UTPR), nearby Sheung Wun YiuDescription:Complaint was referred by EPD regarding the complaint on dust<br/>emission and earth deposition to public area at Upper Tai Po River<br/>(UTPR), nearby Sheung Wun Yiu.

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 香港柴灣利眾街 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-111201(EPD)									
EPD complaint ref.: EP3/N05/RN/00024845-11 Sheet: 1 of 2									
Sheet: <u>1 of 2</u>									
RECIPIENT									
Name: Chiu Hing Construction & Transportation Co., Ltd,									
Details: Complaint was referred by EPD regarding the complaint on dust emission and earth deposition to public									
area at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.									
Received Date:         1st December 2011         Received Time:         N/A									
COMPLAINANT / Concern									
Name: N/A Tel: N/A									
Address: N/A									
COMPLAINT									
□Noise ☑Air quality/Dust □Water □Odour ☑Environment □Traffic/Pedestrian □Safety □Others									
Event Date and Time: 1 <sup>st</sup> December 2011									
Location: Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.									
INVESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES									
INVESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES									
<ol> <li>A complaint on 1<sup>st</sup> December 2011 was recorded regarding the complaint on dust emission and earth deposition to public area at UTPR, nearby Sheung Wun Yiu. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE).</li> </ol>									
<ol> <li>ET has conducted a site investigation on 5<sup>th</sup> December 2011 with representatives from Contractor to resolve the concern. Dust generated from haul access and earth materials carried by construction vehicles were identified as the major sources of dust pollution to the surrounding environment.</li> </ol>									
<ol> <li>During the investigation, vehicle washing facility such as high jet water sprayers and wheel washing area were provided at site entrance of ch.600 and Access Road D respectively. No earth deposition on the public road was observed.</li> </ol>									
4. As reported by Contractor, a frontline staff was assigned to station at the intersection of Access Road D and Tat Wan Road. Regular water spraying was provided for both Tat Wan Road (Fig 4.1) and Access Road D (Fig.4.2), which was observed to be wet during site investigation (Fig.4.3).									
<ol> <li>As reported by Contractor, a frontline staff was assigned to provide water spraying for the public area at Tat Wan Road near the site entrance at ch.600 twice per day and wash the wheels of construction vehicles using the high</li> </ol>									

Road near the site entrance at ch.600 twice per day and wash the wheels of construction vehicles using the high jet water sprayers. A wheel washing bay was also provided at the same location. During site investigation, it was observed that water spraying was performed by frontline staff and wheel washing bay was used by drivers for wheel washing before leaving from site (Fig.5.1). However, the condition of water in the wheel washing bay was observed to be muddy (Fig.5.2). As such, Contractor was recommended to clean and maintain the wheel washing area regularly to maintain good condition as to avoid site vehicles from bringing muddy water to public area.

mitigation - - -	measures to avoid dust e Dust accumulated on si Haul access that was f sprayed. Regular water spraying dust emission, such as o	emission, which should at ite should be regularly re- frequently used by site e should be provided for s excavation, boulder break exposed earth surfaces	least include: moved by means of was quipments and/or vehic ite activities which wer king and earth movemen	cles should be regularly version to be main source
water spra item 6, to r	ying for haul access and minimize dust pollution t	d maintenance of the wa to the surrounding enviro	ter condition of wheel nment.	es, such as provision of re washing bay as mention environmental impacts in
ruture.				
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Signature: 🤇				
Go	oldie Fung, ET Leade	er		Date: 8-12-20
				Date: 0-12-20
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Fig.4.1 - Regular water spraying was provided for the public area at Tat Wan Road.

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







Fig.5.1 -High jet water sprayer and wheel washing bay was used for wheel washing at site entrance at ch.600.





Fig.5.2 -Condition of Wheel Washing Bay at site entrance located at ch.600 was muddy.

# COMPLAINT / CONCERN LOG

# Ref: DC0706-CL-111201(EPD)

Log Ref	Event Date/Location	Complainant/ Date of Contact	Details of Complaint		Investigation/Mitigation Action	File Closed
Our REF: DC0706-CL-1 11201(EPD) EPD complaint ref.: EP3/N05/RN/0 0024845-11	1 <sup>st</sup> December 2011, Upper Tai Po River (UTPR), nearby Sheung Wun Yiu	A Complaint was referred by EPD on 1 <sup>st</sup> December 2011	Complaint was referred by EPD regarding the complaint on dust emission and earth deposition to public area at Upper Tai Po River (UTPR), nearby Sheung Wun Yiu.	3.	A complaint on 1 <sup>st</sup> December 2011 was recorded regarding the complaint on dust emission and earth deposition to public area at UTPR, nearby Sheung Wun Yiu. Environmental Team (ET) was informed by email on the same day by the Residential Engineer (RE). ET has conducted a site investigation on 5 <sup>th</sup> December 2011 with representatives from Contractor to resolve the concern. Dust generated from haul access and earth materials carried by construction vehicles were identified as the major sources of dust pollution to the surrounding environment. During the investigation, vehicle washing facility such as high jet water sprayers and wheel washing area were provided at site entrance of ch.600 and Access Road D respectively. No earth deposition on the public road was observed. As reported by Contractor, a frontline staff was assigned to station at the intersection of Access Road D and Tat Wan Road. Regular water spraying was provided for both Tat Wan Road (Fig 4.1) and Access Road D (Fig.4.2), which was observed to be wet	Yes
				5.	during site investigation (Fig.4.3). As reported by Contractor, a frontline staff was assigned to provide water spraying for the public area at Tat Wan Road near the site entrance at ch.600 twice per day and wash the wheels of construction vehicles using the high jet water sprayers. A wheel washing bay was also provided at the same location.	

During site investigation, it was observed that water spraying was performed by frontline staff and wheel washing bay was used by drivers for wheel washing before leaving from site (Fig.5.1). However, the condition of water in the wheel washing bay was observed to be muddy (Fig.5.2). As such, Contractor was recommended to clean and maintain the wheel washing area regularly to maintain good condition as to avoid site vehicles from bringing muddy water to public area.
<ol> <li>Contractor was also recommended to pay serious attention on their site practices and implement necessary mitigation measures to avoid dust emission, which should at least include:         <ol> <li>Dust accumulated on site should be regularly removed by means of washing and/or scrubbing.</li> <li>Haul access that was frequently used by site equipments and/or vehicles should be regularly water sprayed.</li> <li>Regular water spraying should be provided for site activities which were known to be main sources of dust emission, such as excavation, boulder breaking and earth movement works.</li> <li>Earthy stockpiles and exposed earth surfaces should be protected with fabric coverings to prevent erosion from causing air quality impact.</li> </ol> </li> <li>Contractor was reminded to maintain proper practices and dust suppression measures, such as provision of regular water spraying for haul access and maintenance of the water condition of wheel washing bay as mentioned in item 6, to minimize dust pollution to the surrounding environment.</li> </ol>

16°	<ol> <li>ET has reminded the contractor to pay serious attention on not arising possible environmental impacts in the future.</li> </ol>
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Filed by Environmental Team Leader:

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Date: 8th December 2011