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

ENVIRONMENTAL MONITORING AND AUDIT

MONTHLY EM&A REPORT of

UPPER TAI PO RIVER

for October 2011

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

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Executive summary

This is the thirty-eighth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled "River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River". This report concludes the impact monitoring for the activities undertaken during the period from 1st October 2011 to 31st October 2011. Diversion of river water to west branch, forming haul road at main stream, construction of retaining wall TR2, TR3 & TR5, construction of gabion wall TR1, excavation for construction of additional boulder trap and diversion of the existing utilities were the major site activities being carried out in this reporting period.

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

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

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

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

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

There were two formal complaints in relation to environmental issue received in the reporting month. Both complaints were concerning the observation of muddy water arisen from construction works along Upper Tai Po River, one from the public on 25th October 2011 and the other one from the EPD monitoring team on 27th October 2011. ET has conducted investigations for the incidents and details of findings, recommendations and outcome please refer to Section 2.7 and Appendix J.

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

There was no reporting change for this month.

Construction of retaining walls TR2, TR3 & TR5, construction of gabion wall TR1, construction of additional boulder trap and demolition of the existing temporary steel bridge would be carried out in the upcoming month.

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

1.0 Introduction

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

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

2.0 Environmental status

2.1 Project area

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

2.2 Construction programme

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

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

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

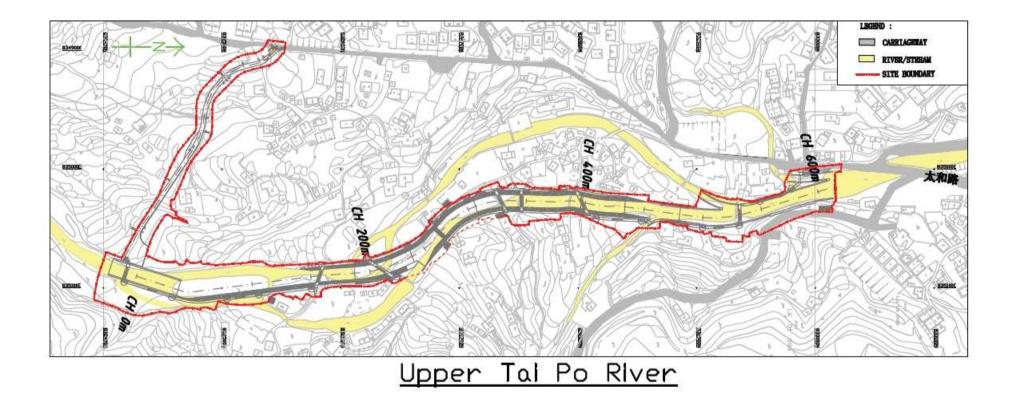
2.3 Proposed construction sequences

The proposed construction sequences are shown in the following:

- (1) Site clearance and preparation works
- (2) Construction of the maintenance access which involves the construction of retaining walls
- (3) River channel construction and excavation, involving the excavation works, construction of retaining walls and gabion walls
- (4) Construction of additional boulder trap and additional stilling basins with baffle blocks
- (5) Provision of riverbed treatment
- (6) Re-provisioning of footbridges
- (7) Construction of footpaths
- (8) Landscaping works

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

Fig 2.1 Layout of construction area



2.4 Construction activities for the reporting period

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

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

2.5 Construction activities for the next reporting period

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

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

2.6 Exceedance with the environmental performance limits

There was no exceedance with the environmental performance limits for this reporting month. The event and action plan for Ecology is shown in Appendix A. The action and limit level for Noise is shown in Appendix B. The reference standards for vibration are shown in Appendix C.

2.7 Summary of complaints

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

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

requirement stated in EM&A manual.

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

3.0 Ecological monitoring results

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

4.0 Noise monitoring results

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

| TABLE 4.1 Description of Noise Sensitive Receivers | | | |
|--|---|--|--|
| Sensitive Receiver | Location and Description | | |
| No. | | | |
| UTP1 | 54B, Sheung Wun Yiu | | |
| UTP2 | Village House in Lai Chi Shan | | |
| UTP3 | Village House near Upper Tai Po River | | |
| UTP4 | Village House near Upper Tai Po River | | |
| UTP5 | Village House near Upper Tai Po River | | |
| UTP6 | Village House near Upper Tai Po River | | |
| UTP7 | Village House near Upper Tai Po River | | |
| UTP8 | Village House near Upper Tai Po River | | |
| UTP9 | 49A, Pun Shan Chau | | |
| UTP10 | Village House near the proposed access road | | |
| UTP11 | 49G, San Uk Ka | | |

TABLE 4.1 Description of Noise Sensitive Receivers

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

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

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

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

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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

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

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

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

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

Table 6.1 Summary results of site inspections findings

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

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

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

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

| Table 6.2 Summary results of ecological site inspection findings | | | | | |
|--|----------------------------|--------------|-----------------------|--------------|--|
| Date | Observations | Advice from | Action Taken | Closing Date | |
| | | Ecologist | | | |
| 3 October | No Major findings for this | No Advice is | No Action is required | N/A | |
| 2011 | inspection | required | to be taken | | |
| 10 October | No Major findings for this | No Advice is | No Action is required | N/A | |
| 2011 | inspection | required | to be taken | | |
| 17 October | No Major findings for this | No Advice is | No Action is required | N/A | |
| 2011 | inspection | required | to be taken | | |

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

6.2 Non-compliance

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

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

The above mal-practice was considered as non-compliance event under Water Pollution Control Ordinance (WPCO)(Cap.358), Environmental Permit (EP-223/2005/A) and Effluent Discharge Permits (no. 3678 for Upper Tai Po River) issued under the WPCO to the Contractor. No effective mitigation measures were implemented according to advices given by RE, IEC and ET.

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

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

earth bunds are being formed to further prevent muddy water generation, which anticipated to be completed by 16^{th} November 2011. Contractor was reminded to implement the aforesaid mitigation measures and corrective actions as soon as possible as to avoid violation of environmental ordinance and/or regulations. Implementation status of follow up actions will be checked and reported from the weekly inspections in the next reporting month.

6.3 Recommendations

Contractor was reminded that all the measures stated in the Environmental Permit should be followed. Contractor was advised that excavation work shall be carried out in sections and in enclosed dewatered condition. Dewatering of the excavation area should be carried out prior to excavation work. All site water shall be well de-silted and treated before discharge. Also, sufficient temporary earth bunds and barriers should be used to entirely enclose the excavation area and exposed slope surface should be covered (e.g. by tarpaulin sheet) to prevent river contamination. Contractor was reminded that discharge of contaminated water is an environmental offence and should be prohibited.

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

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

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

6.4 Implementation status and effectiveness of the mitigation measures

Refer to the table 6.1 and Section 6.2, contractor was seriously recommended to implement necessary mitigation measures to address environmental problem arisen from site activities.

7.0 Waste management status

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

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

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

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

Table 7.1 Summary of Waste generated and disposed in October 2011

The cumulative waste flow table is shown in Appendix H.

8.0 Status of environmental licensing and permit

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

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

 Table 8.1 Summary of Environmental Licensing and Permit Status

9.0 Future key issues

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

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

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

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

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

10.0 Conclusion

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

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

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

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

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

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

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

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

EPD for their information and consideration. Contractor was also reminded to pay serious attention to prevent causing environmental concerns in the future by implementing good site practices.

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

Appendix A: Event and action plan for ecology

Event and action plan for ecology

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

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

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

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

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

Appendix B: Action and limit level for construction noise

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

Appendix Table 2: Action and Limit Levels for Construction Noise

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

*Limit level set in accordance with Particular Specification Section 26

Appendix C: Reference standards for vibration

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

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

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

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

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

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

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

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

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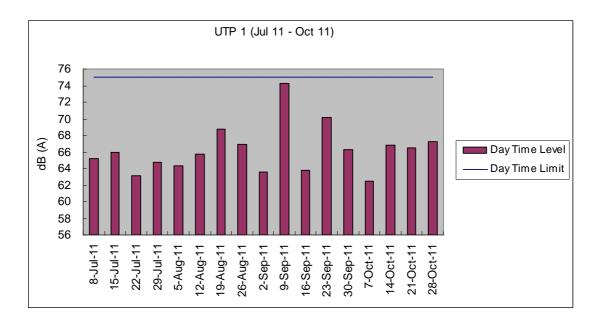
| Location | Leq 30min | L ₁₀ 30min | L ₉₀ 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|-----------|-----------------------|-----------------------|-----------|---------------|--|---------------------------------------|---------|----------------------|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

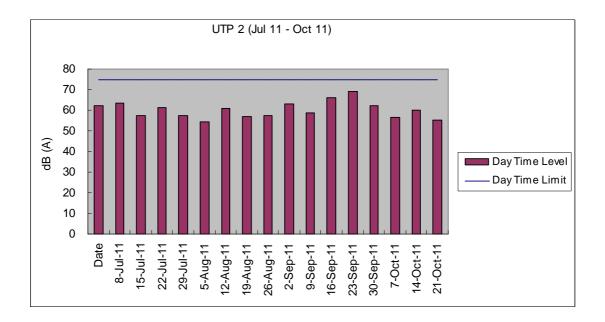
| Location | Leq 30min | L ₁₀ 30min | L ₉₀ 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|-----------|-----------------------|-----------------------|-----------|---------------|-----------------------------|---------------------------------------|---------|----------------------|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

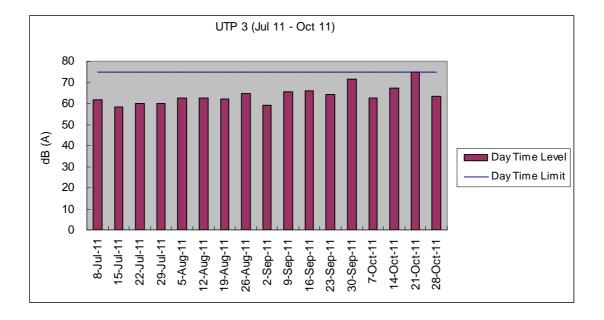
| Location | Leq 30min | L ₁₀ 30min | L ₉₀ 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|-----------|-----------------------|-----------------------|-----------|---------------|--------------------------|---------------------------------------|---------|----------------------|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

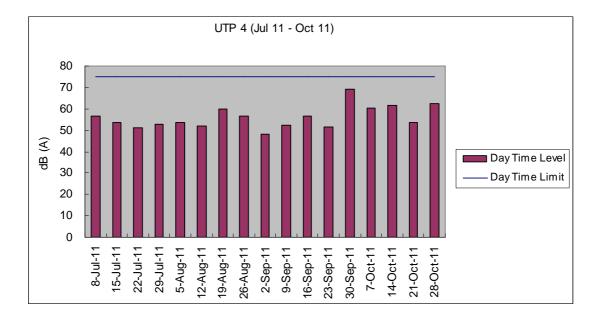
Graphical plot for noise measurements

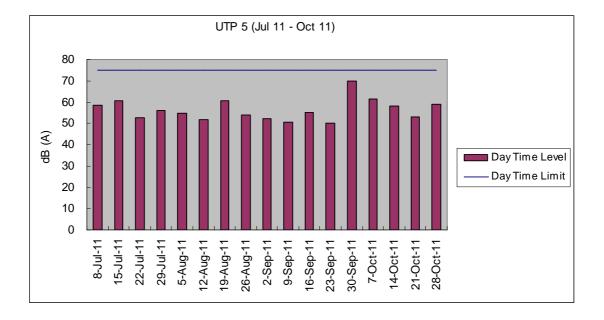
The followings were the graphical plots for the 11 monitoring locations. Each plot showed the date of measurement taken, day time limit of 75 dB(A) as well as the measured daytime level for each location. The graphs contain the data recorded from July 2011 to October 2011.

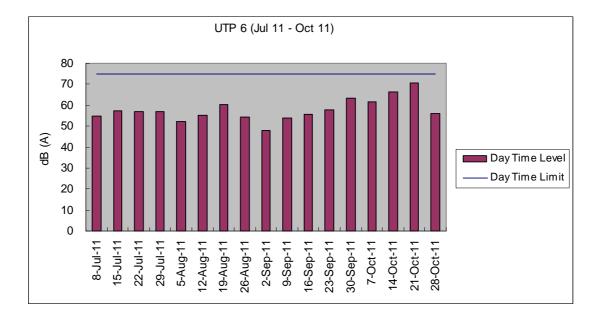


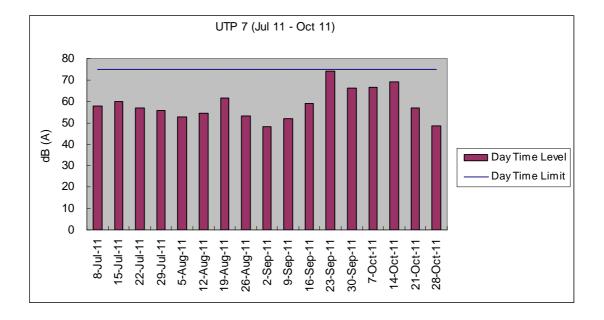


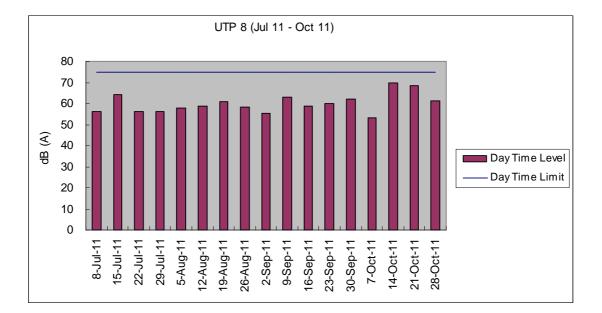


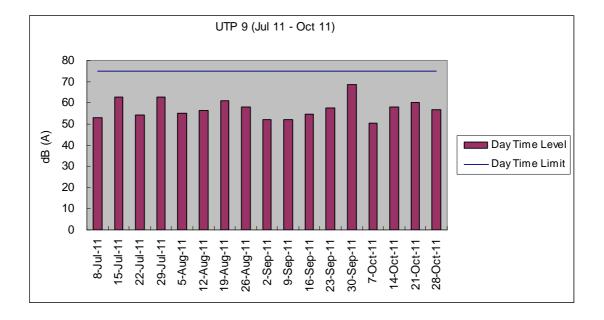


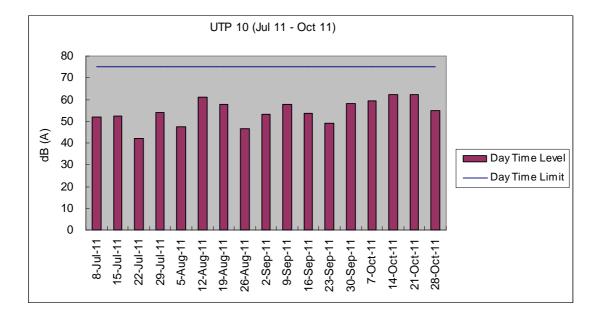


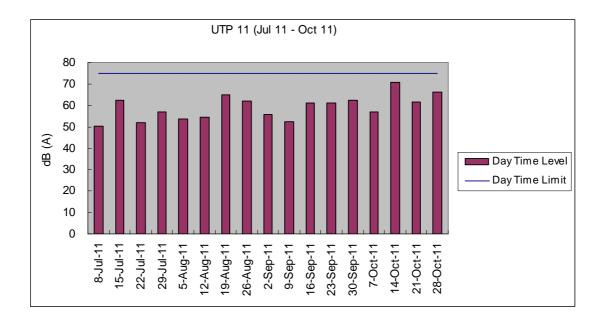




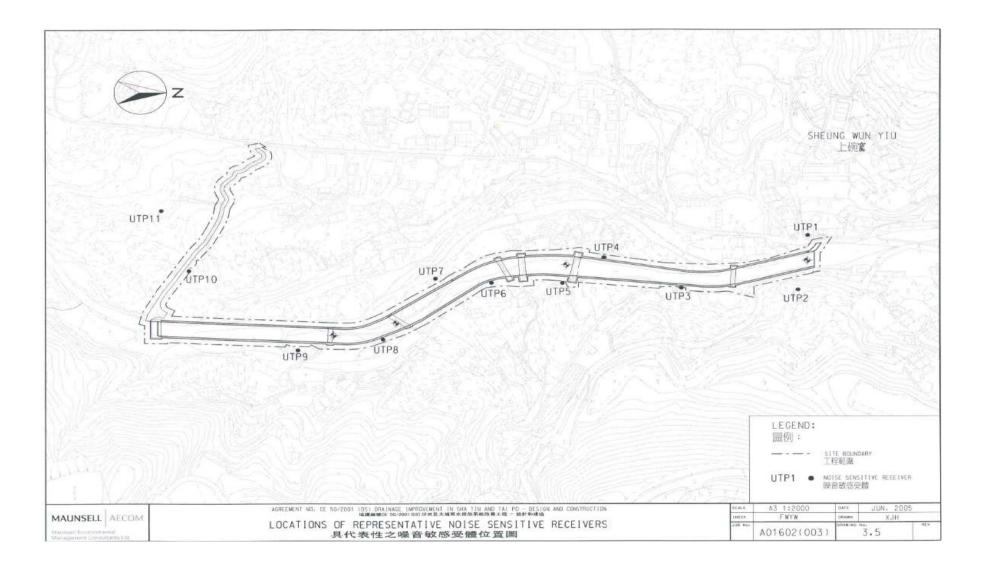








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Appendix E: Monitoring schedule for the present and next reporting period

Master Schedule of EM&A works in October 2011

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

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

Master Schedule of EM&A works in November 2011

Appendix F: Cumulative complaint log

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

Appendix G: Implementation status of environmental protection and mitigation measures

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

Implementation status of environmental protection and mitigation

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

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

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

Appendix H: Cumulative waste flow table

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

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

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

Appendix I: Construction programme (Rev. No. 16)

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

| 均有效 | 任務名稱 | 工期 | 國紀時間 | 完成時間 | 前置任務 | 資源名稱 | | 200841 | | 2009年 | | 2010年 | | 2011 | 牵 | 17 | 3012年 | | 12 | 013年 | |
|-----------------------|--|--|------------------------|--|--|-------|-------|----------|---------------------|------------|---------------|----------------|----------|----------------|------------------|---------------|-------------|----------------|-------|-------|-------------------|
| akousa | 1100-019 | 1.00 | PER-STREE | 20104110 | 0.00 | Auron | H2 | HI | 112 | H | H2 | HI | H2 | | | H2 | HI | | FI2 | HI | · H2 |
| 1279 | T&C | 1 day | 2012/3/19 | 2012/3/19 | 1278 | - | | 1 | 1 | 1 . | 1 | | 1 | 1 | | 1112 | | .'. | | | 1 |
| 1280 | Construction of Gabion Wall at TB-A | 5 days | 2012/3/27 | 2012/3/31 | and a second sec | | | , | | 1 | 3.5.5 | 1000 | 1 | | 9 | 11.5 | | | | | 1 |
| 1261 | Excavation and Formation | 2 days | 2012/3/27 | 2012/3/28 | 1274 | | | | | 1 | 1.1.1 | | 1 | | | | [] | - ' - ' | | | 1 |
| 1282 | Gabien Wall Construction (ed) TBA (LBS) | 2 days | 2012/3/29 | 2012/3/30 | 1281 | 1 | | | | | · · · · | | | 1 | 11 | 1112 | [6 | | !. | | 1 - 2 |
| 1283 | Backfilling | 1 day | 2012/3/31 | 2012/3/30 | 1282 | | t | | | | -, | | 777 | · · | 1.0 | 1117 | i E IC | - | 1 | | 1 |
| 1284 | | | | | | | + | 7 | | · · · · | -, | - | | - | | 1111 | 111 | -, - | 5 C C | - [] | 1 |
| 1285 | Pootbridge TB05 (ch 350) | 329 days | 2011/3/10 | 2012/4/19 | | | t | 1 | | 7 | | | 7 | - - | بدراعتهم | | | ne. | 2.2.9 | - [] | 1 |
| 1286 | Construction of Abutment A (LHS) | 20 days | 2011/12/31 | 2012/1/27 | And the second sec | | t | ъ | | 7 | | | 7 | -, | | 11 | | -, - | c | - 11 | 1 |
| 1280 | Encivation and Blinding | 5 days | 2011/12/31 | 2012/1/5 | | + | + | 1 | | ī | <u>م</u> | | T | | - 20 - | 1 I II N | 111 | | | - 1 | 7 |
| and the second second | Encarvator, and rebar fixing for base slab | 4 days | 2012/1/7 | 2012/1/11 | | + | t • • | л | | | | | | -, - | | 1119 | £11- | -, - | | - 1 | 7 |
| 1288 | | 1 day | 2012/1/12 | 2012/1/12 | | | + | 3 | | 7 - 7 | | | | -, - | · · · · · | 11 II 17 | <u>711-</u> | -1- | | - 11 | · - · |
| 1289 | Concreting of base slab | 3 days | 2012/1/13 | 2012/1/16 | | | + | | | · | | - i | + | -1- | 1 - 1 | * t -1 | († †) | -1 - | - | - 1- | • |
| 1290 | Stripping off formwork | and the second s | 2012/1/13 | 2012/1/20 | | | + | | | + | -1 | | + | -4 - | 1-1 | - † + Y | ăt I- | -• - | :- | | + |
| 1291 | Rebar fixing and shattering formwork for column | 4 days | 2012/1/17 2012/1/21 | 2012/1/2 | | | + | | 1 | * | | - 1 | 4 ÷ ÷ | -1 - | 14 | - [†]]•] | ŭ†∣- | - • - | - | | |
| 1292 | Concreting of column | 1 day | | | | | 4 | | | + | <i>-</i> | | h = - | -1 - | 14 | - [#][•] | č ∣- | -1 - | !- | | 1 = - |
| 1293 | Stripping off formwork | 2 days | 2012/1/25 | 2012/1/21 | the second second second second | | 4 | I- | | + | -* | - ! | L | -1- | a - 14 - | - [1][4] | (E) - | -'- | | - 11 | 4 |
| 1294 | Construction of Abutment B (RHS) | 19 days | 2011/3/10 | 2011/3/31 | | | 4 | | | · · | 1.00 | | L | -1- | C - 10 - | - + + | ll la | -'- | | | ± |
| 1302 | Construction of docking | 57 daya | 2012/1/28 | 2012/4/3 | | | | J = - | | L | 2 | | L | -!- | 4 - 1 9 - | - [4][4 | 6 F - | -' - | | | 1 |
| 1303 | Minist for all times of a shift of the | 10 duga | 2013/0/25 | 311224 | | | 1 | J = - | | . L | 1.00 | - ¹ | 1 | ي ال | 9 | - [+]]4 | A - | -' - | | - 14 | ÷ |
| 1304 | Erection of shell docks over dask | 4-3874 | 2012/3416 | 2012/363 | | | 4 | J | | | 1 | | 1 | _f _ | 9 - | - [+]]4 | 18 | • -' - · | 5 | | $\dot{c} = c$ |
| 1305 | Det k fieleling | 10.6.65 | 2013/5/02 | ada da Angel | | | 1 | 1 | · · · · | . L | 1 | | 1 | - '- | 9 | - [4][4] | 118 | | | - - | 1 |
| 1306 | Robir iardistro | 2 2 ki | 2012/4/2 | 201.5% | | 1 | 1 | 1 | | | 2.5.5 | · · · · | 1 | ¹ - | 9 | - 1484 | l LLLL | ' | !- | | $\frac{1}{2} = 2$ |
| 1307 | Demolition of Bridge TB-B | 17 days | 2012/3/21 | 2012/4/13 | | | | 1 | · | 1 | 1 | - ¹ | L | - ' - | 11 | - 1484 | 1.54 | | | | $\frac{1}{2} = 1$ |
| 1308 | Water Pipe Diversion | 14 days | 2012/3/21 | 2012/4/10 | | | I | 1 | .' | | 1 | _ <u>`_ `</u> | 1 | . <u>-</u> ' - | '? | - 1482 | 1114 | r -' - | | | 4 |
| 1309 | Remove concurse pipes and demotitian works | 3 days | 2012/4/11 | 2012/4/11 | 3 1308 | | T | 1 | 4 | 1 | 1 | | · | 1. | !! | - 14 15 | Шă | | | | ÷ |
| 1310 | Lighting at Footbridge TB05 | 10 days | 2012/2/9 | 2012/2/20 |) | | 1 | 1. | | 1 | | | · | · | '' | 1 2 | | | | - 1-1 | ÷ |
| 1311 | Construction of Drawpits / Duckings | 6 days | 2012/2/9 | 2012/2/15 | 5 1303 | | T | 7 | | | -, | | | 1 | 1.5 | 112 | 1613 | 1 | | [.] | |
| 1312 | Public lighting Installation (CE2313) | 3 days | 2012/2/16 | 2012/2/11 | 8 1301 | | | . | | | · · · | | · · · | | 1.8 | . 11 <i>3</i> | 140 | | | | |
| 1313 | Public lighting Installation (CE2314) | 3 days | 2012/2/16 | 2012/2/18 | 8 1311 | | t | 777 | | | 2.1 | | | · · · · | 6 - O | 11117 | 160 | | | _ | 1 |
| 1314 | TAC | 1 day | 2012/2/20 | 2012/2/2 | 1313 | 1 | + | 7 | | | -, | - , | | | n | 1111 | 100 | | | | |
| 1315 | Construction of Gabion Wall at TB-B | 5 days | 2012/4/14 | 2012/4/15 | | | t t | л | | | | - 1 | | | ' 1 | 11117 | 111 | 2 | | | |
| 1315 | Encourse and Formation | 2 days | 2012/4/14 | 2012/9/10 | | | + | | | | | - 1 | | | 19 | * † * | | 1 | | ° 11 | |
| | Gabien Wall Construction (adj TBB LHS) | 2 days | 2012/4/17 | 2012/9/1 | | | t · · | -1 | | | | = | * | -1 - | 4 | - 1111 | 116 | | | | |
| 1317 | Ganer, Wall Crestriction (JUJ 188 LFIS) BackSling | 1 day | 2012/4/19 | 2012/4/19 | | | + | | | | -1 | - | + | | 14 | - 1 1 | 1117 | | | | |
| 1318 | Baraling | 1 007 | 2012/415 | | | 4 | + | | | | | | * | | 14 | - I†81* | 1111 | | | | |
| 1319 | | | | | 1 | | + | | | | 1 | - i | L | - 1 - | 14 | - [1] | i hi hi | -1 - | :- | | |
| 1320 | | | 2011/12/21 | 2012/1/ | | TP2 | + | | -' | | 2 | - ! | L | -1- | | - (†84° | 111 | -1- | | | |
| 1521 | Gabioa Wall (Ch 335-345 LBS) TG2/TG2A | 11 days | | 2011/12/2 | | 112 | + | | | | 2 | - ! | L | | | - 1†1172 | 1 H H | | 1.1 | - 11 | ÷ |
| 1322 | Renove conceste blocks and shotcrete | 2 days | 2011/12/21 | 2011/12/3 | | | + | 2 | | | 2 | -! | <u>-</u> | -'- | 21 | - 1118 | r Filt | | 112 | - 14 | ÷ |
| 1323 | Eucevation and Formation | 5 days | 2011/12/23 | | | | + | 1 | -' | | | -! | | | 2 | ~ † 隆 | *+ H | 1.1.1 | | | ÷ |
| 1324 | Gabion Wall Construction (Ch 335-345 L105) | 5 days | 2011/12/28 | | 3 1323FS-3 edays | | + | 1 | -' | | | -! | | 1.1 | 2 - | - + ੈ | +HH | -1- | ÷ | - 14 | ÷ |
| 1325 | Backfiling | 2 days | 2012/1.4 | 2012/1/ | | | + | 1 | -' | | | | ÷ | | 21 | - + 4 | H H | | 2 | - 14 | ÷ |
| 1326 | Drainage & Footpath (Ch 335-345 LHS) | 12 days | 2012/1/5 | 2012/1/19 | | | 4 | | -' | · | | -! | | | 2 | - 1117 | 日田 | | }- | | ÷ |
| 1327 | Construction of drainage & footpath | 12 days | 2012/1/6 | 2012/1/15 | | | 4 | | | . <u>-</u> | | -! | ÷ | | 3 - | - 1447 | 1111 | | }- | | ÷ |
| 1328 | Gabion Wall (Ch 330-345 RHS) TG2 | 16 days | 2011/11/9 | 2011/11/20 | | TP2 | 4 | | | . 1 | | | | j | 31 | - MÉ | - F 114 | | 2 | - H. | ÷ |
| 1329 | Excavation and Formation | 6 datas | 2011/11/9 | 2011/11/1 | | | 4 | 1 | .' | | | | · | | 2 | - 184- | - HH | | 2 | | ÷ |
| 1330 | Gabien Wall Construction (Ch 330-345 RES) | 8 days | 2011/11/14 | | 2 1329FS-3 edays | - | 1 | | | | | | | | | - 14 | - 14 | | 2 | - 14 | ÷ |
| 1331 | Backfilling | 4 days | 2011/11/23 | 2011/11/2 | 6 1330 | | 1 | 2 | | 1 | · | | · | | 2 | - 14 | 1.114 | | | | ÷ |
| 1332 | Drainage & Fostpath (Ch. 330-340 RHS) | 12 days | 2011/11/28 | 2011/12/10 | | | I | 1 | | | 1 | | | | | - 1. | , L [].[| | | - 14 | · |
| 1333 | Construction of drainage & footpath | 12 days | 2011/11/28 | 2011/12/9 | 0 1331 | 1 | 1. | 7 | | Γ | | | | | | - 111 | . L I U | | | [] | |
| 1334 | | | | and the second s | | 1 | 1 | ٦ r | | F | | | | | 1 | - 111 - | . []]] | -1 - | | | |
| 1335 | River Bed formation (Ch 330-350) | 8 days | 2012/3/7 | 2012/3/15 | 5 | TP2 | 1 | | | | | | | | | _ [] [] | 1 | | |]] | |
| 1335 | Flacing Grade 500 too Stone | 8 days | 2012/3/7 | 2012/3/1 | | | 1 | | | | | | | - | | | III | | | | |
| 1330 | Vietral Cases for the state | 5 W() P | | | | - | | | | | | | | | | | | | | | |
| | program (Alternations) | | - | | Language and | | | waran | proses | | 接來群組 | | | J | | | | | | | |
| Revised | d Master Prog (Aug10-Apr1 任務 EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE | | | | 上和短期度 | | | 部任務 | 2000000B | 102010000 | 10-02-01-0-04 | + | | * | | | | | | | |
| 日掛 201 | 加1/7/26 進度 摘要 | | 上數型里程碑 🛇 | | 分割 | | ,, 攻 | 素換受 | Annual and a second | -modt | 横限 | · 🕂 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

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| Step 4 (Ch 350) River Bed formation (Ch340-350) Construction of Step 3 (Assume Mass Concrete) Construction of Stilling Bails (Assume Precast Cone Blocks) 44-100 Additional Bouilder Trap Poolsnidge TB02 (Ch 150) Construction of Abstancest A (LHS) Construction of docking Bouth and docking State and Association Value-renergy Lock Instance, Policing at Footbidge TB03 Construction of Damplay (Dockings) Policing Installation (CE3209) Reserval of existing lighting (VA2642-A1) River Bed formation (Ch 100-150) Eccavition Floce Coblen matrices | 1,381 29 days 3 days 10 days 7 days 490 days 199 days 23 days 14 days 5 days 14 days 5 days 12 days 13 days 13 days 14 days 5 days 10 days | 1112554443 2012/3/21 2012/3/21 2012/3/21 2012/3/21 2012/3/21 2012/3/21 2010/11/1 2010/11/1 2010/11/1 2010/11/1 2010/11/1 2012/5/14 3/012/5/14 2012/5/19 2012/5/19 2012/5/19 2012/5/19 | 20124417 20124417 20124427 2012445 2012445 2012447 2012445 2012447 201245625 2012447 20124525 2012447 20124525 2012447 20124525 20124525 20124525 | 1339 1340 1176 1475 1475 1255 1255 1255 1255 1255 1255 1255 12 | 資源名稱 7791 7791 | H2 | | | | | | | | | | | | |
|--|---|---|---|--|---|---|---|---|---|--|---|---|---|--|---|--|---|--|
| River Bed formation (Ch340-350) Construction of Step 3 (Assume Mass Concester) Construction of Step 3 (Assume Precast Conc Blocks) 445-100 Additional Bookler Trap Pootheridge TB02 (Ch 150) Construction of Adversant A (LHS) Construction of docking Status and docking Resolution (Ch 100-150) Econvision | 3 days 10 days 7 days 490 days 190 days 190 days 190 days 190 days 190 days 190 days 10 days 1 days | 2012/3/21 2012/3/24 2012/4/24 2012/4/10 2010/11/1 2010/0/11/1 2010/0/11/1 2010/0/11/1 2010/25/14 3012/25/14 3012/25/14 3012/25/19 2012/3/19 2012/3/19 2012/3/19 2012/3/19 2012/3/19 | 2012/923 2012/95 2012/95 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 | 1339 1340 1176 1475 1475 1255 1255 1255 1255 1255 1255 1255 12 | | | | | | | | | | | | | | |
| River Bed formation (Ch340-350) Construction of Step 3 (Assume Mass Concester) Construction of Step 3 (Assume Precast Conc Blocks) 445-100 Additional Bookler Trap Pootheridge TB02 (Ch 150) Construction of Adversant A (LHS) Construction of docking Status and docking Resolution (Ch 100-150) Econvision | 3 days 10 days 7 days 490 days 190 days 190 days 190 days 190 days 190 days 190 days 10 days 1 days | 2012/3/21 2012/3/24 2012/4/24 2012/4/10 2010/11/1 2010/0/11/1 2010/0/11/1 2010/0/11/1 2010/25/14 3012/25/14 3012/25/14 3012/25/19 2012/3/19 2012/3/19 2012/3/19 2012/3/19 2012/3/19 | 2012/923 2012/4/5 2012/6/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 | 1339 1340 1176 1475 1475 1255 1255 1255 1255 1255 1255 1255 12 | | | | | | | | | | | | | | |
| Construction of Step 3 (Assume Mass Conceste) Construction of Stelling Bails (Assume Percent Cone Blocks) 445-100 Additional Boulder Trap Pootbridge TB02 (Ch 150) Construction of Abstract A (LHS) Construction of docking Path a cri Vari deci + 1 r-c. dech MALexaner Lech Intering Bolics resultifier Lighting at Pootbridge TB02 Construction of Deceptar / Docings Public lighting Installation (CB2305) Public lighting Installation (CB2305) Public lighting Installation (CB2307) Rensoul of existing lighting (VA2642-A1) Examples (Ch 100-150) Examples | 10 days 7 days 480 days 199 days 480 days 23 days 14 days 5 days 5 days 10 cles 7 days 10 cles 7 days 11 days 21 days 12 days 12 days 12 days 12 days 13 days 30 days | 2012/3/24 2012/4/10 2020/11/1 2010/11/1 2010/11/1 2010/11/1 2010/11/1 2010/11/1 2010/51/4 3012/51/4 3012/51/4 2012/51/4 2012/51/3 2012/51/9 2012/51/9 | 2012/4/3 2012/4/17 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/23 2012/5/16 | 1339 1340 1176 1475 1475 1255 1255 1255 1255 1255 1255 1255 12 | | | | | | | | | | | | | | |
| Centration of Stilling Bule (Assume Precat Core Blocks) 445-100 Additional Booker Trap Poothetidge TB02 (Ch 150) Construction of Abstances A (LHS) Construction of decking Pactor and decking Removal of existing liphing (VA2642-A1) River Bol formation (Ch 100-150) Econvision | 7 days 490 days 190 days 23 days 14 days 5 days 14 days 5 days 10 class 7 arcs 51 days 12 days 12 days 12 days 12 days 3 | 2012/s4/10 2012/11/1 2011/10/3 2010/11/1 2010/11/1 2010/11/1 3012/5/14 3012/5/14 3012/5/14 2012/5/14 2012/5/19 2012/5/19 2012/5/19 2012/5/19 | 2012/4/17 2012/5/29 2012/5/23 2012/5/14 2012/5/23 2012/5/14 2012/5/15 2012/5/15 2012/5/16 2012/5/16 2012/5/16 2012/5/16 | 1340 1176 1473 1585 1586 1586 1586 1386 1386 1386 | | | | | | | | | | | | | | |
| Centration of Stilling Bule (Assume Precat Core Blocks) 445-100 Additional Booker Trap Poothetidge TB02 (Ch 150) Construction of Abstances A (LHS) Construction of decking Pactor and decking Removal of existing liphing (VA2642-A1) River Bol formation (Ch 100-150) Econvision | 7 days 490 days 190 days 23 days 14 days 5 days 14 days 5 days 10 class 7 arcs 51 days 12 days 12 days 12 days 12 days 3 | 2010/11/1 2011/10/3 2010/11/1 2010/11/1 30125/5714 3012/5714 3012/5714 2012/5714 2012/5719 2012/5719 2012/5719 2012/5719 | 2012/5/25 2012/5/14 2012/5/23 2010/17/23 2010/17/23 2012/5/25 2012/5/25 2012/5/25 2012/5/25 2012/5/25 | 1176 1473 1283 1286 1386 1386 1386 1386 | | | | | | | | | | | | | | |
| 45-100 Additional Bouider Trap Poolenidge TB02 (Ch. 150) Construction of Abstances A (LHS) Construction of decking Bost to acc decide(1 + tree, deck You Answer() Leck Instang, Policy resultation (CB2303) Policy Installation (CB2303) Policy Installation (CB2303) Policy Installation (CB2303) Reserval of existing liphting (VA2642-A1) River Bod formation (CB 100-150) Excention | 490 days 190 days 490 days 23 days 14 days 16 days 16 days 10 class 7 class 10 class 10 class 10 class 10 days 12 days 12 days 12 days 12 days 13 days 13 days 14 days 15 days 16 days 17 days 17 days 17 days 18 days 19 days 19 days 19 days 10 da | 2011/10/3 2010/11/1 2010/11/1 2010/11/1 2010/15/14 3015/917 2012/918 2012/919 2012/919 2012/919 2012/919 2012/919 2012/919 | 2012/5/23 2010/1/23 2010/1/23 2012/5/93 2012/5/97 2012/92 2012/529 2012/529 2012/529 2012/529 2012/529 2012/529 | 1176 1423 1286 1286 1286 1286 1386 1386 1381 | | | | | | | | | | | | 51 | | |
| Additional Boulder Trap Poolntidge TB02 (Ch. 150) Construction of Abstract A (LHS) Construction of decking Post a set decking P | 180 days 490 days 23 days 14 days 1 days 0 days 0 days 1 days 23 days 1 days 12 days 12 days 6 days 30 days | 2011/10/3 2010/11/1 2010/11/1 2010/11/1 2010/15/14 3015/917 2012/918 2012/919 2012/919 2012/919 2012/919 2012/919 2012/919 | 2012/5/23 2010/1/23 2010/1/23 2012/5/93 2012/5/97 2012/92 2012/529 2012/529 2012/529 2012/529 2012/529 2012/529 | 1176 1423 1286 1286 1286 1286 1386 1386 1381 | | | | | | | | | | - 11 | | 17/3 | | |
| Additional Boulder Trap Poolntidge TB02 (Ch. 150) Construction of Abstract A (LHS) Construction of decking Post a set decking P | 180 days 490 days 23 days 14 days 1 days 0 days 0 days 1 days 23 days 1 days 12 days 12 days 6 days 30 days | 2011/10/3 2010/11/1 2010/11/1 2010/11/1 2010/15/14 3015/917 2012/918 2012/919 2012/919 2012/919 2012/919 2012/919 2012/919 | 2012/5/23 2010/1/23 2010/1/23 2012/5/93 2012/5/97 2012/92 2012/529 2012/529 2012/529 2012/529 2012/529 2012/529 | 1176 1423 1286 1286 1286 1286 1386 1386 1381 | | | | | | | | | | | | 17/3 | | |
| Pootbridge TB02 (Ch. 150) Countraction of Abstract A (LHS) Construction of Abstract A (LHS) Construction of Abstract A State of Abstract A State of Abstract A State of Abstract A State of Abstract A Lock Institute Identification (Ch. 100-150) Execution | 480 days 23 days 14 days 5 days 10 class 10 class 7 days 51 days 12 days 12 days 6 days 30 days | 2010/11/1 2010/11/1 3012/51/4 3012/51/4 3012/51/4 3012/51/2 2012/51/3 2012/51/9 2012/51/9 2012/51/9 | 2012/5/23 2010/17/23 2012/5/23 2012/5/27 2012/5/27 2012/525 2012/525 2012/525 2012/525 | 1475 1256 1256 1256 1256 1256 1356 1356 1356 1361 | TPIA | | | | | | | | | 13 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - | | 17/3 | | |
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| River Bod formation (Ch 100-150) Excavation | 30 days | 2012/917 | 2012/3/25 | | -j | | 4 | (* * * * | ÷ = = : | (| | | | - X - I | tit t | 17.1 | , | 111 |
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| | 20 days | 2012/3/30 | 2012/4/26 | 1368FS-10 days | | | | · | | | | | | - S - I | AL÷ F | -]- [네 | in night | e e e |
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| Gabien Wall (Ch 150-178 LHS) TG3A | 172 days | 2011/4/4 ; | 2011/11/1 | | TP1 | | | | | | | | | | | - -[| | |
| Encavation and formation | 19 days | 20/14/4 | 2011/4/29 | 1 | | | 7 | | | | | | . U. | | 41:1 | 1-1-1- | | |
| Gabion Wall construction (Ch 150-178 LHS) | 10 days | 2011/10/15 | 2011/00/26 | 1376 | 1 | | 7 | | r | | | | | | | | | . H. J |
| Backfilling | 5 days | 2011/10/27 | 2011/31/3 | 1373 | | | | | | | | | | | H'L | | | - 1-1 |
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| Excavition and formation | 21 days | | | | | | 1 | · | 1 | | · | | | | ↓軽↓ | - -[- | <u>-</u> | • [4] / |
| Gabion Wall construction (Ch 100-150 RHS) | 24 days | 2011/12/2 | | | 8 | | 1 | · | 1 | | · | · | | | 나는 | | | - 14 7 |
| Backfiling | 6 days | 2012/1/3 | | | | | | | 111. | | · | · · · · | | | 11 L&n - | | | |
| Maintainence Staircase (Ch 130 RHS) | 4 days | 2012/1/5 | 2012/1/9 | | | | 1 | · | 1 | | · | · | | | | - -(| | - [4] |
| | 4 days | 2012/1/5 | 2012/1/9 | 1386FF | | | | | | | 5 E E | | · · · · | | 11.14 | | | |
| | 45 days | 2012/1/10 | 2012/3/5 | | 1 | | 3 | | | | | | | 1 | 1.2 | ALI 1 - | | |
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| Excavation and formation | 3 days | 2011/11/2 | 2010/10/0 | 1 1 2 4 3 | 1 | | | | | | | A | - / | | بليج الغا | <u></u> | | , and the state of |
| | Gabien Wall (Ch 178-290 LHS) TOSA/TO2 Gabien Wall construction (Ch 178-230 LHS) Backelling Maintainence Subinase (Ch 178 LHS) Fortwork and concreting Desinage & Footpath (Ch 150-Ch230 LHS) Durinage & Footpath Gabien Wall (Ch 100-150 RHS) TO2 Remover Subcente Encurretion and formation Gabien Wall construction (Ch 100-150 RHS) Backelling Maintainence Subjease (Ch 130 RHS) Construction of drainage & footpath Construction of drainage & footpath Gabien Wall (Ch 150-178 RHS) TO4A Removes Shotcrete Encurretion | Gabien Wall (Ch 178-290 LHS) TOSA/TG2 15 days Gabien Wall (Ch 178-290 LHS) 10 days Backdilling 5 days Maintainene Sainaase (Ch 178 LHS) 4 days Permwerk and concreting 4 days Drainage & Pootpath (Ch 150-Ch230 LHS) 21 days Drainage & Pootpath (Ch 150-Ch230 LHS) 21 days Drainage & Pootpath (Ch 150-Ch230 LHS) 21 days Bachers Stocento 5 days Bacowaice and formation 5 days Gabien Wall (Ch 100-150 RHS) TG2 40 days Bacowaice and formation 5 days Gabien Wall construction (Ch 100-150 RHS) 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| 識別碼 | 任稿名编 | 工期 | 開始時間 | 完成時間 | 前置任務 | 資源名稱 | H2 | 2008年 HI | H2 | 500/4 | H2 | HI | H2 | | HI I | H2 | | Hi | H2 | HI | |
| 1395 | Construction of Gabion Wall (Ch 160-178 RHS) | 12 days | 2011/11/7 | 2011/11/19 | 1394FS-4 odays | | | 1 | | i | 1 | 1 | 1 | 1 | | | ΨT | Ш | | 1 | 11 |
| 395 | Backfilling | 4 days | 2011/11/21 | 2011/11/24 | | | t | | | ÷ | | 1 | | - | | | T I | | 12 2 2 | 11 | 11 |
| 1395 | Districted | | | | | | t | · | | | | | | · · · | , | 1 | 17 [| | 12 2 2 | 1 | 1.1.2 |
| 1397 | Footbridge TB03 (Ch 200) | 116 days | 2011/10/24 | 2012/3/13 | | | t I | | -, | ÷ | | | | | | 1 | | | 1222 | 5.5 | 11 |
| 1398 | Construction of Abstrant B (RHS) | 41 days | 2011/10/24 | 2011/12/9 | | | + | | -, | 1 | | | | · · · | · · · | i ų | | | 1 | 6.5 | 33 |
| | | 21 days | 2011/10/24 | 2011/11/16 | | | + | · | | 1 | -, | | | | | 1 | | [-] - | | 6.5 | Ī |
| 1400 | Excavation and Blinding, temp work. Formwork and rebar foring of base slab | 7 days | 2011/11/17 | 2011/11/24 | 3 | t | + | 1 | -, | ī | | | 7 | · -, - | | 1 ° [' | ΓT. | 111 | 1 | | 77 |
| 1401 | | L day | 2011/11/25 | 2011/11/25 | | | | · | | | | i | 7 T T | · | | 1 ° | 11 | | 1 | с - | - T |
| 1402 | Cogesting of best slab | the second se | 2011/11/26 | 2011/11/28 | A CONTRACTOR OF A CONTRACTOR O | | + | i | | 7 | n | | 7 - 7 | | | 0.1 | T I | 11 | 1 | r - | יר |
| 1403 | Stripping off formwork | 2 days | Address of the second sec | 2011/12/0 | | | + | r | | 7 | | | r | - n - | , | 1." " | | 11- | 1 | | י ה |
| 1404 | Reber fining and shuttering formwork for column | 7 days | 2011/11/29 | 2011/12/0 | | + | + | л = = I | | r | | 1 | | - 1 - | | 3.1 | 12 | 11-1 | 1 | I | 11.7 |
| 1405 | Concreting | l day | 2011/12/7 | 2011/12/ | | + | + | | | F | | 1 | | | | | i i | 1-1-1 | | 1 | |
| 1406 | Stripping off forstwork | 2 days | 2011/12/8 | | | | + | | | $r \sim r$ | | | • - • | -1- | 1 | * * je | éb † | | 1 | (| 11 * |
| 1407 | Construction of Decking (TB03) | 34 days | 2011/11/17 | 2011/12/28 | | + | + | | | | -1 | (| 4 y y | -1 | ! | ч-P | ₩T † | | 1 | i | 11 * |
| 1408 | Medilaanse af US what ap | Saw | 2015/04/2 | 50.01513 | | | + | | | + | | $b_{-1} = \dots = b_{-1}$ | ÷ | -1- | ! | 4 | 間上 | 1-1-1 | | 1 ₁ = | |
| 1409 | linuaria of seni detse they divit | 4 d.08 | 2011/12/10 | 26.91304 | | | 4 | d 6 | | L = - | | t | ۱ · | -1- | ~ - ' | 4 - - | - 17 - 1 | - Hit | | | |
| 1410 | Ovel tink bing | 10 days: | 3011/12/15 | 35,1(1:25 | | | + | | | ÷ | 2 | 1 | 1 | | ' | u . - | · It i | - H-H- | | | 14 4 |
| 1411 | kéing istelbuirs | 3 dans | 2012/12/15 | 20.17120 | | | 1 | ا | | L | 2 | 1 | L | | ' | u - I- | · <u>n</u> | -1- | | - L - L | H * |
| 1412 | Lighting at Footbridge TB03 | 27 days | 2011/12/17 | 2012/1/20 | | | 1 | J | | 1 | 1 | 1 · | 1 | ' . | ' | 9 - 1- | · 🔽 | -1- | 1 | 14 a 1 | 14 - |
| 1413 | Construction of Drawpits / Ductings | 12 days | 2011/12/17 | 2012/1/3 | | | 1 | 1 | | 1 | 1 | ۰ <u> </u> | 1 | ! - | 1 | 9 - I- | 間 | | 1 | 14 A. | 14 - |
| 1414 | Public lighting Installation (CE2321) | 6 days | 2012/1/4 | 2012/1/10 | 1413 | | 1 | 1 | -' | 1 | 1 | 1 ₋ | 1 | ! . | | 9 | - [문] | - - - | | | 4 4 |
| 1415 | Public lighting Installation (CE2322) | 6 days | 2012/1/11 | 2012/1/17 | 1414 | | 1 | 1 | -' | 1 | 11 | | 1 | ' . | | 9 | | - - - | [| | 14 - |
| 1416 | T&C | 1 day | 2012/1/18 | 2012/1/18 | 1415 | 1 | Τ | 1 | | 1 | | · | · | ! . | | 9 . J. | .[]6] | | 1 | · ' | 4 4 |
| 1417 | Renoval of existing lighting (VA1309-Z1) | 2 days | 2012/1/19 | 2012/1/20 | 1416 | 1 | 1 | 1 | | 1 | t | · | <u> </u> | | | 9 . I. | . [][] | | 1 | · | 44 |
| 1418 | Step 1 (Ch 178) | 25 days | 2012/2/2 | 2012/3/1 | | | 7 | | | 1.1.1 | -, | 1 | 4 | 1 | | 2.1 | | 1. | | · | 1.1.2 |
| 1419 | River Bed fermation (Ch178-205) | 5 days | 2012/2/2 | 2012/2/ | 1428 | 1 | | 7 | | | | | 4 | | | 2.1 | 11.6 | | 1 | | 1.1 |
| 1420 | Construction of Step 1 (Assuran Mass Concrete) | 10 days | 2012/2/8 | 2012/2/1 | 8 1419 | 1 | + | 1 | | ī | 2.2.2.2 | | T | | | 9.1 | 11.1 | | 1 | | - 2 |
| 1421 | Construction of Stilling Basin (Assume Precast Conc Blocka) | 10 days | 2012/2/20 | 2012/3/ | | | + | 7 | | ř | 5 F F F | | 7 | | | 0.1 | | 601 | 1 | · | 11.1 |
| 1422 | River Bed formation (Ch 150-178) | 10 days | 2012/3/2 | 2012/3/13 | the second | | + | <u>٦</u> | | 7 | 2.1.2.2 | 1 | r | | | 0.1 | TF 1 | | 12.2.2 | , F | 11. |
| 1422 | Place Oxbion pistness | 10 days | 2012/3/2 | 2012/3/1 | A REAL PROPERTY AND ADDRESS OF THE OWNER. | | + | n | | | | | r - · | | | ירי ר י | 171 | PET | 17 | | 0.1 |
| 1423 | Pare Grand Parent | 20 0805 | 60 P M - 1 M | | | | + | л | | · · · · | - | | r - · | , - | | · • • • | -1r I | | 1 | 1 | 11 |
| | Gabion Wall (Ch 178-222 RHS) TG1/TG1A | 40 days | 2011/12/10 | 2012/2/1 | | | | r | | | | | + | -,- | | 1 - 1 | - | | 1 | 1r | 17.7 |
| 1425 | | 25 days | 2011/12/10 | 2012/1/1 | the second | + | + | -+ | | + | | | + | 1 - | | | RJ | | | | 11: |
| 1426 | Excavation and fermation | | and the second se | | / 1426FS-20 cdays | | + | | -1 | | -1 | (| • | -1- | | 14 - | 111 | · - - | 1 | | 11 1 |
| 1427 | Construction of Gabion Wall (Ch 178-210 RHS) | 25 days | 2011/12/23 | 2012/2/ | the second se | | + | | | · · | | 1 | · · · | ! - | | ·4 - · | | · []- | 1 | | 11.1 |
| 1428 | Backálling | 4 days | 2012/1/28 | 2012/2 | 1 1421 | | + | h | | · · | | 1 | A | ! - | | · | - * ' | · hi · | 1 | , i= | 11.1 |
| 1429 | | | 10000 | 4010.000 | | | + | ۔ ۔ ل | | | 2 | 1 | ± = . | ! - | | u | 16 | phi- | [| | H f |
| 1430 | Lighting CH 175-250 | 21 days | 2012/2/3 | 2012/2/27 | | | + | J | -' | | 2 a a a | 1 | ± | ! - | | 9 - | -147 | 5-1-1 | [| | Нđ |
| 1431 | Construction of Drawpits / Ductings | 12 days | 2012/2/3 | 2012/2/1 | | | + | 3 | -' | | | · | L | | | 9 - P | -1-7 | t:l- | [| - E - | Н÷ |
| 1432 | Public lighting Installation (CE2319) | 6 days | 2012/2/17 | 2012/2/2 | | | 4 | 1 | | 1 | 1 | · | L | ! - | | 9 - 1 | - - } | ¥1-1- | [| - in - | Н÷ |
| 1433 | Public lighting Installation (CE2320) | 6 days | 2012/2/17 | 2012/2/2 | | | + | 1 | -' | . i | 2 | · | 1 | ' - | | 9 | | - | [| | H÷ |
| 1434 | Public lighting Installation (CE2323) | 6 days | 2012/2/17 | 2012/2/2 | | | + | 1 | -' | | 2 | · | <u> </u> | ' - | | 2 | | <u>+</u> | [| (h. 1) | Н÷ |
| 1435 | Public lighting Installation (CE2324) | 6 daya | 2012/2/17 | 2012/2/2 | | | 1 | 1 | -' | | | · | 1 | ' - | | 2 - 1 | -1-1 | ¥-!- | [| de el | Н÷ |
| 1436 | T&C | 1 day | 2012/2/24 | 2012/2/3 | | | 1 | 1 | -' | | 1 | · | ÷ | ' . | | 2 | - 1 4 | } -∣- | [| de el | Н÷ |
| 1437 | Removal of enisting lighting (VE2641-A1) | 2 days | 2012/2/25 | 2012/2/2 | the second second second second | | 1 | | | | | 1 | ÷ | ' . | | 1 - 1 | -1-1 | + -1- | { | 4.4 | 14 - |
| 1438 | Removal of existing lighting (VA1310-A1) | 2 days | 2012/2/25 | 2012/2/2 | 7 1436 | | | 1 | | | | | ÷ | ' . | | 2 - I- | 11 | - | { | de el | H |
| 1439 | | | | | 1 | | [] | 1 | | | 1 | | | | | | 11. | | <u> </u> | . (a. a. | Н, |
| 1440 | Ch-2345 | 613 days | 2010/8/30 | 2012/8/1 | 5 | | [| 1 | | | | | 1.7 | | | | | | | | н: |
| [44] | Retaining Wall at Access D (Boalder Time) | 41 days | 2010/9/1 | 2010/10/11 | 1 | 1 | 1 | ٦ r | -, | | | | 19 | | | I | | . . | [| | 14.3 |
| 1461 | Filling Work at Boulder Trap (RHS of downstream) | 6 days | 2010/8/30 | 2010/9/4 | 1 | 1 | 1 | | -, | | · | | 1 | -1- | | | | | | | 11 : |
| 1463 | Dwarf Wall (Ch 60-75) RHS | 23 days | 2011/10/3 | 2011/10/25 | | 1 | | -ı | -, | r | | | | | | | | | 1 | | 111 |
| 1463 | Exavation and Binding | 4 days | 2011/10/3 | 2011/10/ | | | | | | | | | | | | . 6 | | | | | 117 |
| | Fernswork and gebar fixing of base slab | 5 6835 | 2011/10/8 | 2011/10/1 | | | | -1 | - ! | | | | | | | | | | | | Ľ |
| 1465 | Letteredit and story intelling of page 2140. | 5 0495 | 2010/00/0 | | | | | | | | ~* | | | | | | | | | | |
| | | | | | | | | | RICE ROOM | 100000 | 總明研約 | | | - | | | | | | | |
| (autorial) | Aaster Prog (Aug10-Apr1 任務 EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE | | 上類型任務 | | 上類型進度 | | | 部任務 | Philipping | 1010101000 | | , | | • | | | | | | | |
| | NAME FIND CONTRACTOR | | 上副型里程碑 🛇 | | 分割 | | | 来的要 | and the second designed as | TO BE & LOW MERSON | 相思 | | | | | | | | | | |

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

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

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

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

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

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

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

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

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

| Constant of Consta | 17 49 49 60 | 工期 | 開始時間 | 完成時間 | 前置任務 | 資源名標 | | 2008年 | 19 | 009年 | | 2010年 | | 2011年 | | 2012年 | | 2013年 | |
|--|---|--|------------|--|--|-------|--------------|-------|-----------------------|----------------------|------------|----------|----------|----------|---------|-------------|----------|--------|---------|
| AC(7)145 | 任務名編 | 1.90 | PERFORM | 30364/941et | ALADAS | RASON | H2 | El | H2 | HB | H2 | H1 | H2 | HI | HI2 | HI | H2 | HI | 1 |
| 1924 | Fornwork and solar fixing | 4 days | 2011/11/4 | 2011/11/9 | 1922 | | 1 | | | | | 1 | 1 | 1 | 12.1 | 1 | · | L | 12. |
| 925 | Concreding |) day | 2011/11/9 | 2011/11/9 | 1924 | | 1 | | ; | | | | , | | 0.1 | 11 | · · | · | 1.1 |
| 1926 | Supplug off Sermwork | 1 day | 2011/11/10 | 2011/11/10 | | | 1 1 | , | | | | t | | | 9 B | 1 | • | 1 | 12. |
| 1927 | back fill & diversion | 3 days | 2011/11/11 | 2011/11/14 | al contract of the second s | | + | | | , | | | | | - î - Î | 1 | | | 4 |
| 1928 | Concerte Slab (Ch546 - Ch596) LHS | 27 days | 2012/5/26 | 2012/6/27 | | | + | ,- | | , | | | | | 47.7 | 7.7 | | 6 T [| 1.1 |
| 1929 | | 11 days | 2012/5/26 | 2012/6/7 | | | + | ,- | | | | | | | 4 T T | 1 - 1 | | e - 1 | 1.2.1 |
| | Bay 1 | and a state of the | 2012/5/25 | | 9 1911,1779 | | i - i | | | 1.5.5 | | | · | | 0.11 | 7 1 | , | e e [1 | 17. |
| 1930 | Excavation/Blinding | 3 days | | 2012/5/2 | design of the second se | | + | | <u>-</u> | | | | 7 | | o | 7 | f | e * [* | 17. |
| 1931 | Fornwork and selver fixing for DWF | 4 days | 2012/5/30 | | | | + 5 | ,- | , | - $ -$ | | | | | 0.11 | 7 | * | e - 11 | 1 7 ' |
| 1932 | Concepting of DWF | 1 day | 2012/6/4 | 2012/5/4 | | | + | | | | | | | -i | n | T L | 1 | , | 1 7 1 |
| 1933 | Feenwork and rebar fixing for slab | 4 days | 2012/6/1 | | 5 19315S+2 days | | + | | | | | , | | | · | γ = - · | k | | 1 7 1 |
| 1934 | Cocurring of slab | 1 day | 2012/6/6 | 2012/6/ | | 1 | 1 | | | | | | | | | | h | | |
| 1935 | Stripping off fornwork | 1 day | 2012/6/7 | 3012/6/2 | 1 | 1 | 1 | 1 | | | | | | | H | + | L | ÷ | |
| 1936 | Bay 2 | 12 days | 2012/5/30 | 2012/6/12 | | 1 | | | | | | | | | 14 - 5 | | | 1 | 4.4 |
| 1937 | Excavation/Blinding | 2 days | 2012/5/30 | 2012/5/33 | 1930 | 2 | | | | | | | | | | + | ÷ | 1 | 4.4.1 |
| 1938 | Fornwork and reber fixing for DWF | 4 days | 2012/5/4 | 2012/6/ | 7 1937,1931 | 1 | T | | | | | | | | · | · - - [| . | L | 4.4.1 |
| 1939 | Concreting of DWF | 1 day | 2012/5/8 | 2012/6/ | 8 1938 | 1 | | ' | | | | | | | 1 | | 8 | 5 a la | 4.4.1 |
| 1940 | Forrowork and other fixing for slab | 4 days | 2012/6/6 | 2012/6/5 | 9 19385\$+2 days | 1 | + | ; | | | | | | | | | 4 | C | 1. |
| 1941 | Concreting of slab | 1 day | 2012/6/11 | 2012/5/11 | 1 1940 | | 1 | | | | | | | 1 | | 1 | 1 i | с. I. | 1 |
| 1942 | Stripping off formwork | 1 day | 2012/6/12 | 2012/6/12 | | | + | : | | | | | | | | 1 - 1 - | 1 | | 1 |
| 1943 | Bay 3 | 14 days | 2012/6/1 | 2012/6/16 | | | <u>†</u> ? |) | | | | | | - | 6.1.1 | | | I- | 1.7 |
| 1944 | | 2 days | 2012/6/1 | 2012/6/ | | | + | 2 | | | | | | (* * * * | | | <u>.</u> | I' | 17 |
| | Encuvation/Blinding | the second of the second second second second | 2012/6/7 | | 1944,1934 | | + |) | ÷ | | | | | | | | T | 2.11 | 15 |
| 1945 | Formwork and reber fixing for D'0F | 4 days | | the state of the s | and the second s | | 4 | | | | | | ÷ | | 3 | | 11 | 2 - 1 | 17 |
| 1946 | Concreting of DWF | 1 day | 2012/6/12 | | 2 1945,1938 | | 4 | ' | | | | | | | X | | €l | 2 - E | 1 . |
| 1947 | Formwork and rebor fixing for slot | 4 days | 2012/6/11 | | 4 1946FF+2 days | | + <u>-</u> ' | | | | | | | | 3 | | ₹ | 2 - E | 1.7 |
| 1948 | Concreting of slab | 1 day | 2012/6/15 | 2012/6/15 | | 1 | ! | | 1 | | | (a | | | 3 | | 훕 | 2 - 1 | 1 7 |
| 1949 | Stripping off formwork | 1 day | 2012/6/16 | 2012/6/10 | | | · · · · | ' | ! | | | | | | 2 | | 1 | 2 - 1 | - ÷ - |
| 1950 | Bay 4 | 16 days | 2012/6/4 | 2012/5/21 | | | | | | | | | | | 2 | · | | | 44 |
| 1951 | Excavation/Blinding | 2 days | 2012/6/4 | 2012/6/3 | 5 1944 | 1 | 1 | | | | | | | | | | ₩ | | 4.4 |
| 1952 | Formwork and rebar fixing for DWF | 4 days | 2012/6/12 | 2012/6/15 | 5 1951,1945 | 1 | ייד | , | | | | | | | | | ₩ | | |
| 1953 | Concreting of DWF | 1 day | 2012/6/16 | 2012/5/10 | 6 1952 | 1 | 1 | | | | | | | | | <u></u> | .h | | |
| 1954 | Fornwork and reber fixing for slab | 4 days | 2012/6/15 | 2012/6/19 | 9 1953FF+2 days | | + | | | | | 1 | | -1 | | | ¥ | | 11 |
| 1955 | Concreting of slab | 1 day | 2012/6/20 | 2012/6/20 | and a second sec | | | | | 4 | | 1 | | -1 | | · · · · · | 1 | | 12 |
| 1956 | Stripping off formwork | 1 day | 2012/6/21 | 2012/6/2 | | | + 4 | 1 | + | | | j= = = | | -1 | 14 | | 1 | 5 1 | 12 |
| 1957 | Bay 5 | 18 days | 2012/6/5 | 2012/6/27 | | + | + 4 |) | | | | i= | | -! | 14 | 1.11 | Ú. | | 17 |
| | | | 2012/6/5 | 2012/6/ | | + | + | ' | + | | | l | | | 4 | · • - - ` | ñ | 5 1 | 11 |
| 1958 | Escavation/Blinding | 2 days | | | 0 1958,1952 | | | 1 | | | | | L | | 9 | · + | * | 2.11 | 11 |
| 1959 | Forrwork and rober fixing for DWF | 4 days | 2012/6/16 | | | 4 | د <u>،</u> ا | ' | | | | | 1 | - · · · | · | | ሮ | 는 다 | 11 |
| 1960 | Concreting of DWF | 1 day | 2012/6/21 | 2012/6/2 | | | L J | ' | 1 | ' | | | 1 | | 9 | | & | 5 - h | 11 |
| 1961 | Formwork and rebar fixing for slab | 4 days | 2012/6/20 | | 5 1960FF+2 days | | 4 1 | ' | L | | | ie e e | · | 1 | 2.5 | · š - | ş | | 11 |
| 1962 | Concreting of slab | 1 day | 2012/6/26 | 2012/6/2 | | | 1 1 | ' | 1 | ' | | ' | 1 | J | 7.5.5 | | -19 | 는 나 | 1÷. |
| 1963 | Stripping off formwork | 1 day | 2012/6/27 | 2012/6/27 | 7 1962 | | 1 | ' | ! | ' | | · · · · | <u>.</u> | .' | 9 | - i - i - i | 2 | 5 - 1 | 4 ÷ |
| 1964 | | | | | | | 1 | ' | | | | · | L | · | 7.5.5 | . 1 <u></u> | 2 | 2.1 | 14 |
| 1965 | Drainage and Footpath (Ch525-615 LHS & RHS) | 48 days | 2012/3/5 | 2012/5/5 | 5 | 1 | 1 | | | ' | | · | · | | 9 | 1.2 | 2 | 5 - 1 | |
| 1966 | Construction of footpath & drainage works | 43 days | 2012/3/5 | 2012/5/ | 5 1892 | | 1 1 | , | | | | <u> </u> | · · · | 1.1.1 | 9 | | | 5 - I | |
| 1967 | Lighting at CH 550-610 | 10 days | 2012/5/7 | 2012/5/17 | 7 | | 1 1 | | | | | | · · · · | 1 | · · · · | | | 5 | 14 |
| 1968 | Construction of Drawpils / Ducting | 6 days | 2012/5/7 | 2012/5/12 | 2 1966 | | 1 | , | 7 | , | | · · · · | | 1 | | | | 5 al. | |
| 1960 | Public lighting Installation (CE2325) | 2 days | 2012/5/14 | 2012/5/1 | and the second s | | 1 | | ī | | | | | 1 | 0.5 | | | 2.1 | 11 |
| 1970 | Public lighting Installation (CE2326) | 2 days | 2012/5/14 | 2012/5/1 | | | † | , | r | | | | 7 | | 0.57 | ī I | | C | 1 |
| 971 | Public lighting Installation (CE2327) | 2 days | 2012/5/14 | 2012/5/1 | | | t | , | | | | | Ŧ = - | | n | · Υ [| | r - | 11 |
| 1972 | Tac | 1 day . | 2012/5/16 | 2012/5/10 | | | + | , | 7 | | | | r | -1 | · | · · · · | 1 | I | 11 |
| | | 1 day | 2012/5/17 | 2012/5/1 | | | + 4 | | , | | | | + | -1 | · r | · · · · · | · · · · | ; · | 11 |
| 1973 | Renoval of existing lighting (CE1600-B2) | 1 633 | 3012311 | 2012/3/1 | 1, 1,974 | | + | | | | | 1 | * | -1 | 11 | | | 1 | 11 |
| 1974 | L | | | | 1 | 1 | I | | | | | J | | | | - | | | <u></u> |
| | | | | | | | | | to the second second | - | | | _ | | | | | | |
| | Master Brog (Austin April 任務 ETETETETE 里程碑 | | 和型任務 | | 上期望線度 | | 外部 | ±ns E | | 18 AN 18 | 腰翻翅 | | | | | | | | |
| rvised M US: 2011 | Master Prog (Aug10-Apr) | | | | | | | 9 M 1 | and the second second | 2018 ³ 11 | 100 100 | <u>ъ</u> | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Culvert at Ping Long Salvert (Area A) /Work at Source 4 scape Establishemat Works (Portion B, C, D, E, F, C works Works a val works offs : Sarvey relevies of Preserved Trees heneyt Works ds scape Establishemat Works (Portion J, K & M) se Works | 1:38 0 days 0 days 0 days 1951 days? 1665 days 1 day 120 days 0 days 1541 days? 1551 days? 1550 days 1550 days 1550 days 0 days 1550 days | 第1世紀時期間 2009/12/9 2009/12/9 2009/12/9 2007/9/28 2007/9/28 2007/9/28 2007/9/28 2007/9/29 2007/129 2008/11/2 2008/12 | 2009/12/9 2009/12/9 2019/7/4 2013/7/4 2013/7/4 2017/7/83 2007/7/83 2007/7/83 2003/29 2012/4/19 2012/4/19 2012/4/19 2012/4/19 | 1981 1982FS+14 days 1981 | 資源名 備 | | 865 H) H2 | 20094 | H2 | 20008 H1 9/12 9/12 9/12 | 112 | 201145 H1 | 12 | | H2 | HI HI | 152 |
|--|--|---|--|--|--|---|--|---|---|--|--|--|---|--|--|--|--|
| hiver (Ana A) Work at Source 4 works Source 4 Works Works a val val sorts orks ofts Sarvey mention of Preserved Trees friment Works this scape Establishemnt Works (Portion J, K & M) re Works | 0 days 0 days 1951 days? 1665 days 1 day 120 days 0 days 0 days 1541 days? 1551 days 1550 days 1550 days 1550 days 0 days | 2009/12/9 2009/12/9 2007/9/28 2007/9/28 2007/9/28 2007/9/29 2007/129 2007/129 2007/11/9 2007/11/9 2007/11/9 2007/11/9 2006/11/2 | 2009/12/9 2013/7/4 2013/7/62 2012/7/02 2005/1/25 2005/125 2012/4/19 2012/4/19 2012/4/19 2012/4/19 | 1531 1982/5+14 days 1981 | | | | | H2 | 9/12 | | | | | | | · · · · · · · · · · · · · · · · · · · |
| hiver (Ana A) Work at Source 4 works Source 4 Works Works a val val sorts orks ofts Sarvey mention of Preserved Trees friment Works this scape Establishemnt Works (Portion J, K & M) re Works | 0 days 0 days 1951 days? 1665 days 1 day 120 days 0 days 0 days 1541 days? 1551 days 1550 days 1550 days 1550 days 0 days | 2009/12/9 2009/12/9 2007/9/28 2007/9/28 2007/9/28 2007/9/29 2007/129 2007/129 2007/11/9 2007/11/9 2007/11/9 2007/11/9 2006/11/2 | 2009/12/9 2013/7/4 2013/7/62 2012/7/02 2005/1/25 2005/125 2012/4/19 2012/4/19 2012/4/19 2012/4/19 | 1531 1982/5+14 days 1981 | | | 9/2 | | | | | | | | I | | |
| (Work at Surice 4 scape Establishemnt Works (Portion B, C, D, E, F, C e Works m works a val sorks sorts 5 Savety retection of Preserved Trees innert Works fits scape Establishemnt Works (Portion J, K & M) retects | 0 days 1951 days? 1665 days 1 day 120 days 0 days 1541 days? 1551 days 1550 days 1550 days 1550 days 0 days | 2009/229 2007/9/28 2007/9/28 2007/9/28 2007/9/29 2009/29 2007/11/9 2007/11/9 2007/11/9 2007/11/9 2009/11/2 2009/11/2 | 2009/12/0 2013/7/4 2012/7/88 2007/7/88 2009/7/86 2009/7/86 2012/4/19 2012/4/19 2012/4/19 2012/4/19 | 1981 1982PS+14 days 1981 | | | 9/2 | | | 9/12 | | | | | 1 | | |
| scape Establishemnt Works (Portion B, C, D, E, F, C e Works ma val socks offs Sarety vertices of Preserved Trees henest Works the scape Establishemnt Works (Portion J, K & M) re Works | 1951 days? 1665 days 1 day 120 days 0 days 1541 days? 365 days 1550 days 1550 days 0 days | 2007/9/28 2007/9/28 2007/9/28 2007/9/29 2007/9/29 2007/11/9 2007/11/9 2007/11/9 2007/11/2 2009/11/2 | 2013/7/4 2012/7/28 2007/7/28 2005/7/29 2005/7/29 2012/4/19 2012/4/19 2012/4/19 2013/7/4 | 1981 1982FS+14 days 1981 | | | 9/2 | | | 9/12 | , | | 0 | | I | | |
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| Works a val sorks orks orks orks orks orks starty retriiten of Preserved Trees innerst Works fis scape Establishemnt Works (Portion J, K & M) se Works | 1 day 120 days 0 days 1541 days? 365 days 400 days 1550 days 1550 days 0 days | 2007/9/28 2007/9/29 2008/29 2007/11/9 2011/1/28 2007/9/29 2008/11/2 2008/11/2 | 2007/9/29 2008/1/26 2003/29 2012/4/19 2012/4/19 2008/11/1 2013/7/4 | 1981 1982FS+i4 days 1981 | | | 9/2 | | | , | | | | | 1 | | |
| n val socks ofts Savety electrian of Preserved Trees Innent Works himent Works dis scape Establishemnt Works (Portion J, K & M) re Works | 120 days 0 days 1541 days? 365 days 400 days 1550 days 1550 days 0 days | 2007/9/29 2008/2/9 2007/11/9 2011/1/28 2007/9/29 2008/11/2 2008/11/2 | 2008/1/26 2003/29 2012/4/19 2012/4/18 2008/11/1 2008/11/1 2013/7/4 | 1981 1982FS+14 days 1981 | | | 9/2 | | | | | | | | / | | |
| val nocks orks : Sarvey schreise of Preserved Trees henest Works the scape Establishemnt Works (Portion J, K & M) te Works | 0 days 1541 days? 365 days 400 days 1550 days 1550 days 0 days | 2008/2/9 2007/11/9 2011/1/28 2007/9/29 2008/11/2 2008/11/2 | 2003/2/9 2012/4/19 2012/4/19 2003/11/1 2003/11/1 2013/7/4 | 1982FS+14 days | | | 9/2 | | | | | .; | | - | ; | | ; |
| acks ofts Sarry netrcise of Perserved Trees Immen Works des scape Establishemnt Works (Portion J, K & M) e Works | 1541 days? 365 days 400 days 1550 days 1550 days 0 days | 2007/11/9 2011/1/28 2007/9/29 2008/11/2 2008/11/2 | 2012/4/19 2012/4/18 2008/11/1 2013/7/4 | 1981 | | | 9/2 | ÷ | ÷ | | ÷ | | | 8 | ; | | - |
| orks : Sarvey refercise of Preserved Trees Innew Works des scape Establishemnt Works (Portion J, K & M) ref Works | 365 days 400 days 1550 days 1550 days 0 days | 2011/1/28 2007/9/29 2008/11/2 2008/11/2 | 2012/4/18 2008/11/1 2013/7/4 | 1981 | | | | | ÷ | | | - | | = | | | |
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| ntertien of Preserved Trees Innent Works des scape Establishemnt Works (Portion J, K & M) er Works | 1550 days 1550 days 0 days | 2008/11/2 2008/11/2 | 2013/7/4 | | 1 | | | | | | * | | | | ; | H | |
| iment Works fis scape Establishemnt Works (Portion J, K & M) e Works | 1550 days 0 days | 2008/11/2 | | 1995 | | L _ Cyroyna | | b | | | د د د د د | موموما | diameters. | الموجوحي | | | t- |
| ns scape Establishemnt Works (Portion J, K & M) e Wols | 0 days | | 5013/974 | | | | | | | | | | | _ | | | ÷] |
| scape Establishemnt Works (Portion J, K & M) e Wols | | 2013/7/4 | | 1996 | | [] | ! | | | | | | | | | | |
| scape Establishemnt Works (Portion J, K & M) e Wols | 1701 days? | | 2013/7/4 | 1967,1988 | | | | | | 1 | + | | 4 | | | - | ▼ 477_ |
| e Works | 1701 days? | | | | | | | | | | + | | | · | | | $d_{i}=1-1$ |
| e Works | | 2007/9/28 | 2012/9/8 | | | | | | · · | 1 | -h | 10.00 | 2.000 | | | | 2 |
| | 1665 days | 2007/9/28 | 2012/7/28 | | 1 | | | | | | | | | | | 14 | 1 |
| | 1 day | 2007/9/28 | 2007/9/28 | and the latest of the second s | | 6 | 1 | 1 | 1 | | 1 | | 9.1.1 | | 1 | [4 | 1 |
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| val | 0 days | 2008/2/9 | 2008/2/9 | 1994FS+14 days | | | 9/2 | | | 1 | | 1 | Q | | ' | | 1 |
| actis | 1161 days? | 2006/11/23 | 2012/4/19 | | | | | | | | | | | | | | · |
| | | 2011/1/29 | 2012/4/19 | 1 | | 1-1-1- | | 1 | | 1 | | | | | | | |
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| | | 2008/11/2 | 2012/5/8 | 1998 | 1 | | | (| | | | | | | Sh. ' | | |
| | | 2008/11/2 | 2012/5/8 | 1998 | | t n - | , | | | _ | | | | | | | · |
| | 0 days | 2012/9/8 | 2012/9/8 | 1999,2000 | | 1 | , | | | | | | · · · · · | | 89 | | |
| | | | | A DECEMBER OF THE OPPOSIT | | t | , | | | - 1 | r | 2.2.2.2 | n : : : | | | [] | |
| come Retablishemat Works (Portion I N & P) | 1701 days? | 2007/9/28 | 2012/9/8 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | A | سندن ا | | | | | | | ها المتلحد الن | | | | |
| | 1665 days | 2007/9/28 | 2012/7/28 | | | 1 1 | | | | | | | | | 1 | | |
| | | 2007/9/28 | 2007/9/28 | | | t h | | والبريقي والريان | مر مر مرام | | | | | | | | |
| | | 2007/9/29 | 2008/1/26 | 2005 | | 1 1 3 | | | | | | | 1. | | | | |
| the second s | a second second second second | 2008/2/5 | 2008/2/9 | 2006PS+14 days | | 1 1 1 | 9/2 | - + | -1 | | | -, | | | | U | 4 |
| | | 2008/11/8 | 2012/4/19 | 1 | † | t • | 2 | | | | | | | | | (| 4 |
| | | | 2012/4/19 | | 1 | t - E | | | | | | | | | | | J |
| to a construct of the second | | | 2008/11/1 | 2005 | + | † 7 | | 6.1.1.1 | | | | | | | | | 1 |
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Appendix J: Complaint Investigation Reports and Log



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

3rd November 2011

To: Distribution List

Dear Sirs or Madams,

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

Complaint Investigation Report and Log

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

| EPD complaint ref .: | EP3/N05/RN/00021938-11 |
|----------------------|---|
| Date received: | 27th October 2011 |
| Incident location: | Upper Tai Po River (UTPR), nearby Sheung Wun Yiu |
| Description: | Two Complaints were referred by EPD regarding the observation of muddy water due to construction works along Upper Tai Po River. |

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

Yours faithfully,

Goldie Fung ET leader

Environmental Pioneers and Solutions Limited

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

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



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

Report for Complaint/ Concern

Our Ref.: DC0706-CL-111027(EPD)

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

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

RECIPIENT

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

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

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

INVESTIGATION RESULTS, RECOMMENDATIONS & MITIGATION MEASURES

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

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

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

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

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

Signature:

Goldie Fung, ET Leader

Date: 3-11-2011



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

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



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



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



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



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

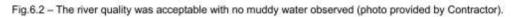




Fig.5.3 - Leakage of contaminated water from the overflowed wheel washing bay.

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







COMPLAINT / CONCERN LOG

Ref: DC0706-CL-111027(EPD)

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

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

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

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

Filed by Environmental Team Leader:

Date: 3rd November 2011

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

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

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

(Revised report)

September 2011



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

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1 Introduction

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

2 Summary of Major Points

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

3 Summary of The Construction Activities

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

4 Monitoring Methodology

4.1 Avifauna

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

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

4.2 Fish and Newt Population

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

4.3 Aquatic Macro-invertebrates

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

4.4 Adult Odonate Survey

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

4.5 **Riparian Vegetation**

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

4.6 Abiotic Data Collection

Water quality monitoring

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

Sediment Characteristics

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

Water flow

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

5 Monitoring Results

5.1 Vegetation

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

5.2 Fauna

5.2.1 Avifauna

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

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

5.2.2 Adult Odonate Survey

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

5.2.3 Hong Kong Newt

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

5.2.4 Aquatic Macro-invertebrates

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

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

5.2.5 <u>Stream Fish Fauna</u>

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

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

5.3 Abiotic data

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

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

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

6 Audit/review of monitoring results

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

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

8 Record of complaints and remedial measures

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

9 Forecast of works programme and monitoring requirements

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

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

10 Comments and Conclusions

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

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

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

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

11 REFERENCES

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

Dudgeon, D. and Corlett, R. (1994). *Hills and Streams - An Ecology of Hong Kong*. Hong Kong University Press, Hong Kong.

Hong Kong Herbarium (2004), Check List of Hong Kong Plants, HKSAR

Keith D.P. Wilson (2003), Field Guide to the Dragonflies of Hong Kong, HKSAR.

Virginia L.F.LEE, Samuel K.S.Lam, Franco K.Y.NG, Tony K.T.CHAN and Maria L.C.YOUNG (2004), *Field Guide to the Freshwater Fish of Hong Kong*, HKSAR.

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

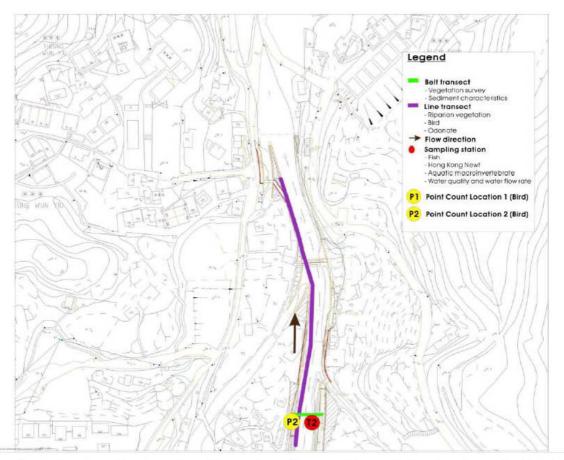


Figure 1-1. Sampling location of impact monitoring at Upper Tai Po River(Lower Section)

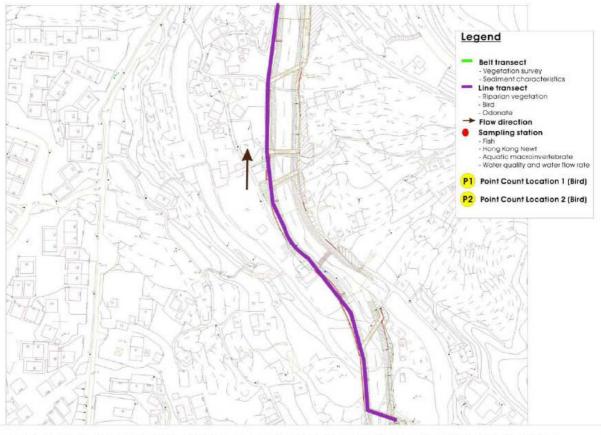


Figure 1-2. Sampling location of impact monitoring at Upper Tai Po River(Middle Section)

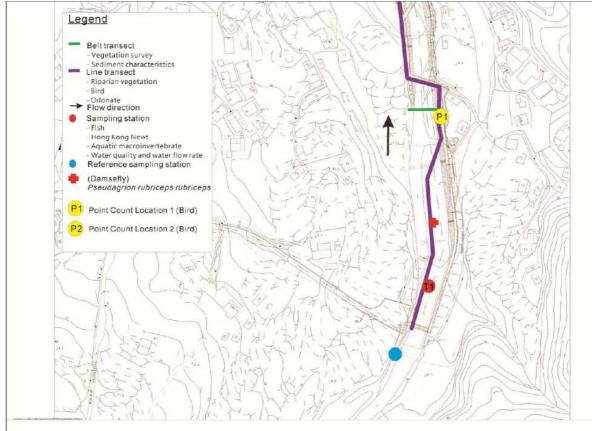


Figure 1-3. Sampling location of Impact monitoring at Upper Tai Po River(Upper Section)

TABLE

Ecological Impact Monitoring Programme

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

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

Note:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Ecological Impact Monitoring Programme

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

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

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

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

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

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

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

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

Note: NP - Not protected in Hong Kong

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

"+" - Species exists in the survey site

"++" - Species common in the survey site

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

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

Ecological Impact Monitoring Programme

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

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

Note: NP - Not protected in Hong Kong

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

"+" - Species exists in the survey site

"++" - Species common in the survey site

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

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

Ecological Impact Monitoring Programme

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

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

Note: NP - Not protected in Hong Kong

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

"+" - Species exists in the survey site

"++" - Species common in the survey site

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

- Reference point was the sampling location outside the works

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

River Improvement Works in Upper Lam Tsuen R

Ecological Impact Monitoring Programme

Table 5-5 Aquatic Macro invertebrates restream sampling site)

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

Note: NP - Not protected in Hong Kong

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

"+" - Species exists in the survey site

"++" - Species common in the survey sit

"+++" - Species abundance in the surve

- Reference point was the sampling locat

area used to compare the with the data v

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

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

Note: NP - Not protected in Hong Kong

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

"+" - Species exists in the survey site

"++" - Species common in the survey site

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

V – Listed as vulnerable in China Fish Red Data Book

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

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

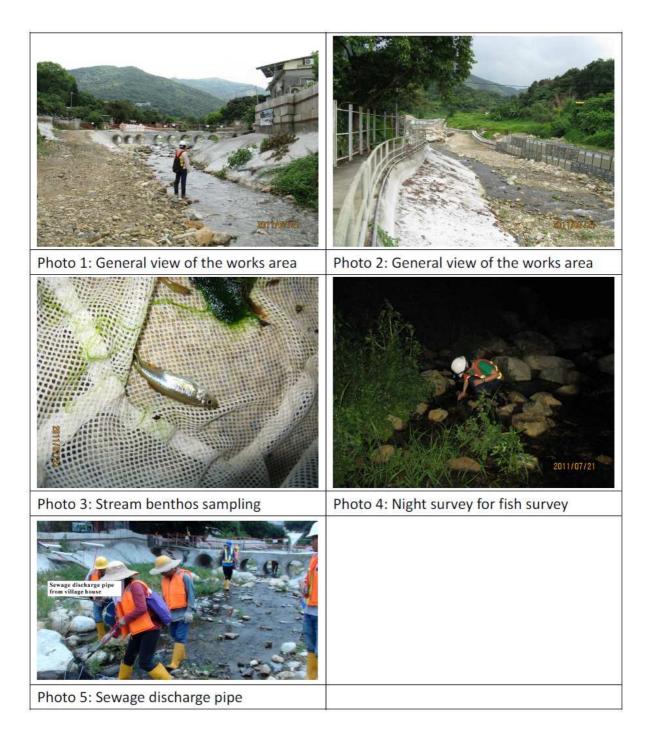
Ecological Impact Monitoring Programme

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

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

PHOTOS

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



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

Appendix I.: Summary of Total Accumulative Complaint Received

* : transferred from EPD / DSD

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

Dust

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

Muddy Water

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

Noise

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