

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

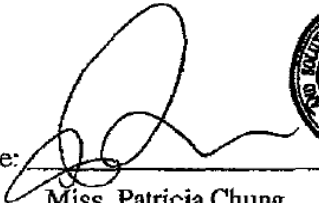

UPPER TAI PO RIVER


for August 2009

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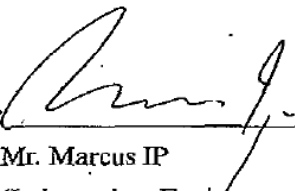
The Contents of this report have been

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Executive summary

This is the twelfth monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled “River Improvement Works in Upper Lam Tsuen River, She Shan River and Tai Po River”. This report concludes the impact monitoring for the activities undertaken during the period from 1st August 2009 to 31st August 2009. The major construction activity was ceased in this reporting month.

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 performed by the Ecologist Dr. Mark Shea was carried out on 21st and 22nd July 2009. The ecological impact monitoring report prepared by the Ecologist is under revision and therefore information will be provided in the next monthly report. The summary of ecological site inspection findings and implementation status of environmental protection and mitigation for ecology, prepared by the Ecologist Dr. Mark Shea, are provided in table 6.2 and Appendix G respectively.

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

Piling works were not scheduled for this month. Therefore, no vibration monitoring was conducted during the reporting month.

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

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

There was no reporting change for this month.

In accordance with the contractual requirements, no excavation works in river is allowed to be carried out during the present wet season. Site works proposed to be carried out in the upcoming month will be mainly construction of haul access, installation of noise barriers and river reinstatement works.

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 twelfth 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 August 2009. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the Environmental Permit (EP-223/2005/A) (EP), EM&A Manual and the Contractor’s Environmental Management Plan (EMP).

2.0 Environmental status

2.1 Project area

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

2.2 Construction programme

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

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

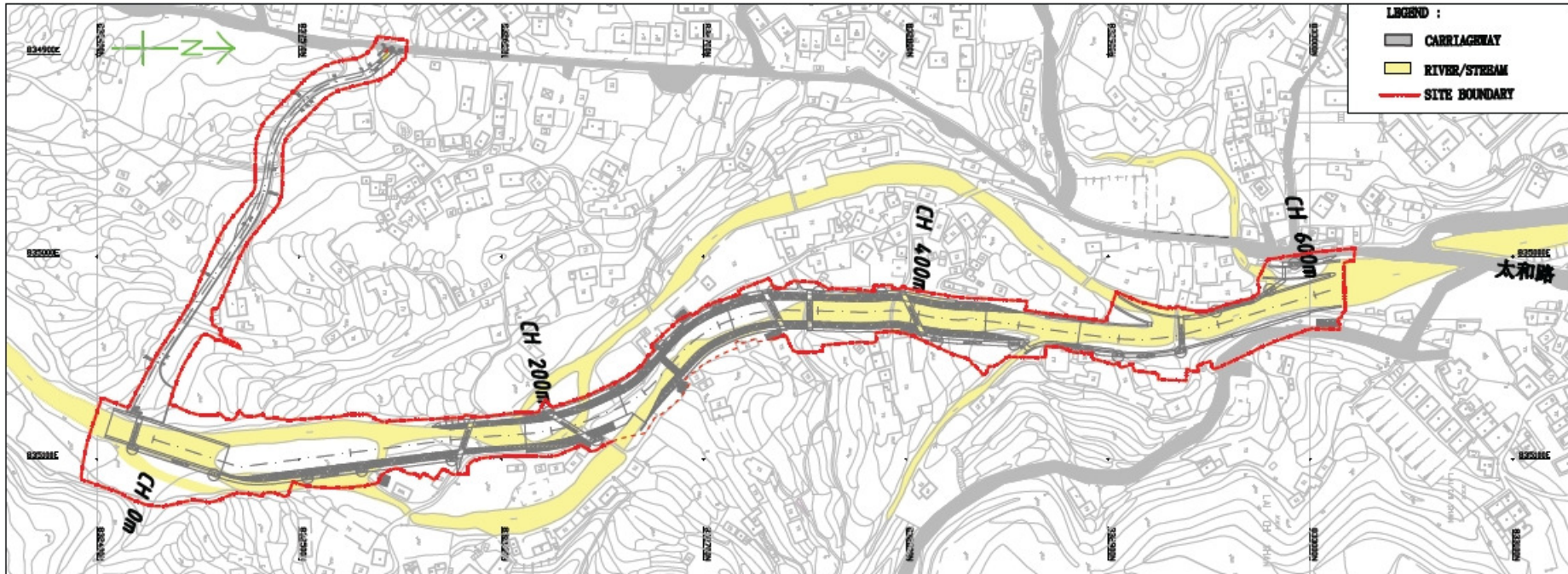
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2011.

2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

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

Fig 2.1 Layout of construction area



Upper Tai Po River

2.4 Construction activities for the reporting period

Major construction activities were ceased in the reporting period since no excavation works in river is allowed during wet season due to contractual requirements.

2.5 Construction activities for the next reporting period

Due to the contractual requirements, no excavation works in river is allowed during wet season and hence no major construction activities will be carried out.

2.6 Non-compliance with the environmental performance limits

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

2.7 Summary of complaints

There was no formal complaint received in the reporting month. Totally, four complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

Capture survey conducted by Ecologist Dr. Mark Shea was not scheduled for this reporting month. Ecological impact monitoring was conducted on 21st and 22nd July 2009. The ecological impact monitoring report prepared by the Ecologist is under revision and therefore information will be provided in next monthly report.

4.0 Noise monitoring results

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

TABLE 4.1 Description of Noise Sensitive Receivers

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

Noise monitoring was carried out by the Environmental Team on weekly basis for this reporting month on 6th, 12th, 18th, 25th August 2009 and the $L_{eq(30min)}$ results ranged from 47.9dB(A) to 67.5dB(A), and therefore, no exceedance of action or limit level was recorded in this reporting month. For further details of the monitoring results, graphical plots and the location plan, please refer to Appendix D.

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

As mentioned in Section 8.1 of the EM&A manual, 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, 26th August 2009. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 6th, 12th, 19th, 26th August 2009. Details of findings were summarized in Table 6.2.

Table 6.1 Summary results of site inspections findings

| Date | Findings | Identification | Advice from ET | Action taken | Closing date | Remarks |
|--|--|----------------|---|--|--------------|---------|
| 21 July 09 | Sandbag barriers provided at boulder trap were found damaged due to rainstorm | Observation | Contractor was advised to repair the barriers to prevent soil run-off from bare soil surfaces and hence deterioration of water quality in the river | Contractor took the action by backfilling the excavated slope and pit which exposed to the stream course | 06 Aug 09 | -- |
| 03, 08, 21, 24 and 29 July & 06 Aug 09 | Further to the public enquiry referred by EPD on 03 July, Vegetations in concerned Area DD21, lot232 were growing gradually compared to that observed in the previous investigations | Public enquiry | Although hydroseeding was provided, contractor was reminded to be cautious on the condition of vegetation in the concerned area. Further follow up actions should be implemented whenever necessary | Not applicable in this stage | 06 Aug 09 | -- |
| 06 Aug 09 | No major findings for this inspection | N/A | N/A | N/A | N/A | N/A |
| 12 Aug 09 | No major findings for this inspection | N/A | N/A | N/A | N/A | N/A |
| 19 Aug 09 | No major findings for this inspection | N/A | N/A | N/A | N/A | N/A |
| 26 Aug 09 | No major findings for this inspection | N/A | N/A | N/A | N/A | N/A |

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

| Table 6.2 Summary results of ecological site inspection findings | | | | |
|---|---------------------------------------|-----------------------|-----------------------------------|--------------|
| Date | Observations | Advice from Ecologist | Action Taken | Closing Date |
| 06 Aug 2009 | No Major findings for this inspection | No Advice is required | No Action is required to be taken | N/A |
| 12 Aug 2009 | No Major findings for this inspection | No Advice is required | No Action is required to be taken | N/A |
| 19 Aug 2009 | No Major findings for this inspection | No Advice is required | No Action is required to be taken | N/A |
| 26 Aug 2009 | No Major findings for this inspection | No Advice is required | No Action is required to be taken | N/A |

6.2 Non-compliance

There was no non-compliance recorded for the month of August 2009.

6.3 Recommendations

As major site activities were ceased, environmental impacts to the vicinity due to construction works were minimized and there were no major findings during this reporting month.

However, contractor was reminded to maintain good housekeeping practices for site equipments and materials storage, in order to minimize mosquito breeding in site area.

6.4 Implementation status and effectiveness of the mitigation measures

Refer the previous table 6.1, contractor has implemented some mitigation measures to address those problems as advised by ER, IEC and ET. Most of the measures taken by the contractor were considered as effective to minimize negative impact to the environment. Ongoing investigation will be carried out to observe performance and effectiveness of those measures. Outstanding environmental items will be inspected in the following month.

7.0 Waste management status

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

Table 7.1 is the Waste Disposal recorded by the Contractor in this month.

Table 7.1 Summary of Waste Disposal for the reporting month.

| Type of waste | Inert Waste | Non-Inert Waste | Chemical Waste |
|---------------|-------------|-----------------|----------------|
| August 2009 | 0 | 0 | 0 |

The cumulative waste flow table is shown in Appendix H.

8.0 Status of environmental licensing and permit

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

Table 8.1 Summary of Environmental Licensing and Permit Status

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

9.0 Future key issues

As informed by contractor, major construction activities will be ceased in the upcoming month. Although there will be no site activities contractor was reminded to maintain good site condition and housekeeping practices.

10.0 Conclusion

The major construction activity was ceased in this reporting month.

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

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

Piling works were not scheduled for this month. 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. Impact ecological monitoring was carried out on 21st and 22nd July and monitoring report prepared by the Ecologist is under revision and therefore information will be provided in the next monthly report.

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

There was no complaint recorded in this reporting month.

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

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

Appendix A: Event and action plan for ecology

Event and action plan for ecology

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

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

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

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

APPENDIX TABLE 1 Event / Action plan table for Ecology

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

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 documented complaint is received | 75 dB(A)* |
| 0700 – 2300hrs on holidays; and 1900 – 2300 hrs on all other days | | Subject to the control of Noise Control 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 | L ₉₀ 30min | L ₁₀ 30min | Leq 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|--------------------------|--------------------------|--------------|----------|------------------|--|--|---------|-------------------------|
| UTP 1 | 59.4 | 69.6 | 66.1 | 6-Aug-09 | 10:57-11:27 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 2 | 53.5 | 63.7 | 61.3 | 6-Aug-09 | 11:30-12:00 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 3 | 44.8 | 53.3 | 51.6 | 6-Aug-09 | 15:20-15:50 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Cloudy | Façade |
| UTP 4 | 51.2 | 60.4 | 57.8 | 6-Aug-09 | 16:25-16:55 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 5 | 47.1 | 57.8 | 55.7 | 6-Aug-09 | 15:53-16:23 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Cloudy | Façade |
| UTP 6 | 51.6 | 60.4 | 58.3 | 6-Aug-09 | 14:45-15:15 | No construction was being carried out during measurement | Background noise from public and dog | Cloudy | Façade |
| UTP 7 | 46.8 | 54.6 | 52.4 | 6-Aug-09 | 14:13-14:43 | No construction was being carried out during measurement | Background noise from public | Cloudy | Façade |
| UTP 8 | 47.3 | 54.8 | 53.2 | 6-Aug-09 | 13:35-14:05 | No construction was being carried out during measurement | Background noise from public | Cloudy | Façade |
| UTP 9 | 46.8 | 54.6 | 53.4 | 6-Aug-09 | 13:02-13:32 | No construction was being carried out during measurement | / | Cloudy | Façade |
| UTP 10 | 44.3 | 52.1 | 50.7 | 6-Aug-09 | 09:50-10:20 | No construction was being carried out during measurement | / | Cloudy | Façade |
| UTP 11 | 48.0 | 55.4 | 53.1 | 6-Aug-09 | 10:25-10:55 | No construction was being carried out during measurement | Background noise from public | Cloudy | *Free field |

Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

| Location | L ₉₀ 30min | L ₁₀ 30min | Leq 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|--------------------------|--------------------------|--------------|-----------|------------------|--|--|---------|-------------------------|
| UTP 1 | 60.5 | 67.8 | 65.8 | 12-Aug-09 | 13:34-14:04 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 2 | 59.2 | 64.9 | 63.3 | 12-Aug-09 | 13:00-13:30 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 3 | 49.5 | 54.8 | 52.6 | 12-Aug-09 | 14:39-15:09 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public and avians | Cloudy | Façade |
| UTP 4 | 63.1 | 64.8 | 64.3 | 12-Aug-09 | 14:07-14:37 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Cloudy | Façade |
| UTP 5 | 58.7 | 59.6 | 59.3 | 12-Aug-09 | 15:10-15:40 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | / | Cloudy | Façade |
| UTP 6 | 50.7 | 54.6 | 53.5 | 12-Aug-09 | 15:42-16:12 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Cloudy | Façade |
| UTP 7 | 50.6 | 56.6 | 54.0 | 12-Aug-09 | 11:17-11:47 | No construction was being carried out during measurement | Background noise from avians | Cloudy | Façade |
| UTP 8 | 57.7 | 60.5 | 59.7 | 12-Aug-09 | 10:46-11:16 | No construction was being carried out during measurement | / | Cloudy | Façade |
| UTP 9 | 60.1 | 61.1 | 60.7 | 12-Aug-09 | 10:12-10:42 | No construction was being carried out during measurement | / | Cloudy | Façade |
| UTP 10 | 46.2 | 48.8 | 47.9 | 12-Aug-09 | 09:36-10:06 | No construction was being carried out during measurement | Background noise from avians | Cloudy | Façade |
| UTP 11 | 47.8 | 53.2 | 52.1 | 12-Aug-09 | 09:05-09:35 | No construction was being carried out during measurement | Background noise from public | Cloudy | *Free field |

Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

| Location | L ₉₀ 30min | L ₁₀ 30min | Leq 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|--------------------------|--------------------------|--------------|-----------|------------------|--|--|---------|-------------------------|
| UTP 1 | 68.4 | 59.3 | 67.5 | 18-Aug-09 | 13:35-14:05 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Sunny | Façade |
| UTP 2 | 59.3 | 63.3 | 62.8 | 18-Aug-09 | 13:00-13:30 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic | Sunny | Façade |
| UTP 3 | 48.3 | 55.1 | 53.9 | 18-Aug-09 | 14:15-14:45 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Sunny | Façade |
| UTP 4 | 61.8 | 64.1 | 63.8 | 18-Aug-09 | 14:47-15:17 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | / | Sunny | Façade |
| UTP 5 | 57.3 | 59.0 | 58.6 | 18-Aug-09 | 15:18-15:48 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | / | Sunny | Façade |
| UTP 6 | 45.5 | 55.6 | 55.2 | 18-Aug-09 | 16:00-16:30 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Sunny | Façade |
| UTP 7 | 48.9 | 52.2 | 51.7 | 18-Aug-09 | 11:25-11:55 | No construction was being carried out during measurement | Background noise from public | Sunny | Façade |
| UTP 8 | 54.8 | 57.6 | 56.6 | 18-Aug-09 | 10:54-11:24 | No construction was being carried out during measurement | / | Sunny | Façade |
| UTP 9 | 55.3 | 56.9 | 56.5 | 18-Aug-09 | 10:16-10:46 | No construction was being carried out during measurement | / | Sunny | Façade |
| UTP 10 | 46.5 | 50.5 | 49.4 | 18-Aug-09 | 09:38-10:08 | No construction was being carried out during measurement | Background noise from dog | Sunny | Façade |
| UTP 11 | 47.7 | 54.5 | 53.9 | 18-Aug-09 | 09:07-09:37 | No construction was being carried out during measurement | Background noise from public | Sunny | *Free field |

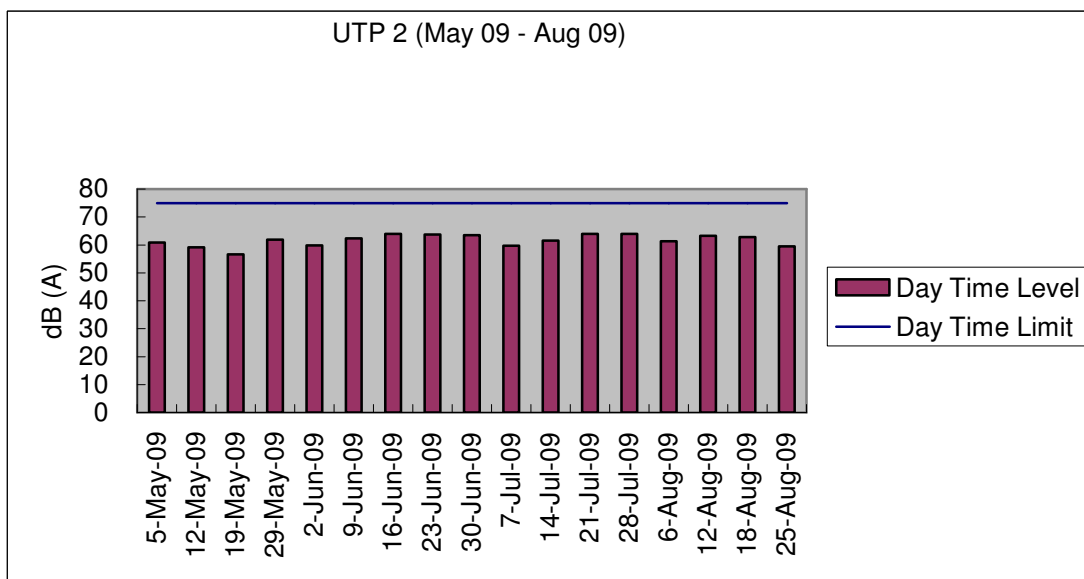
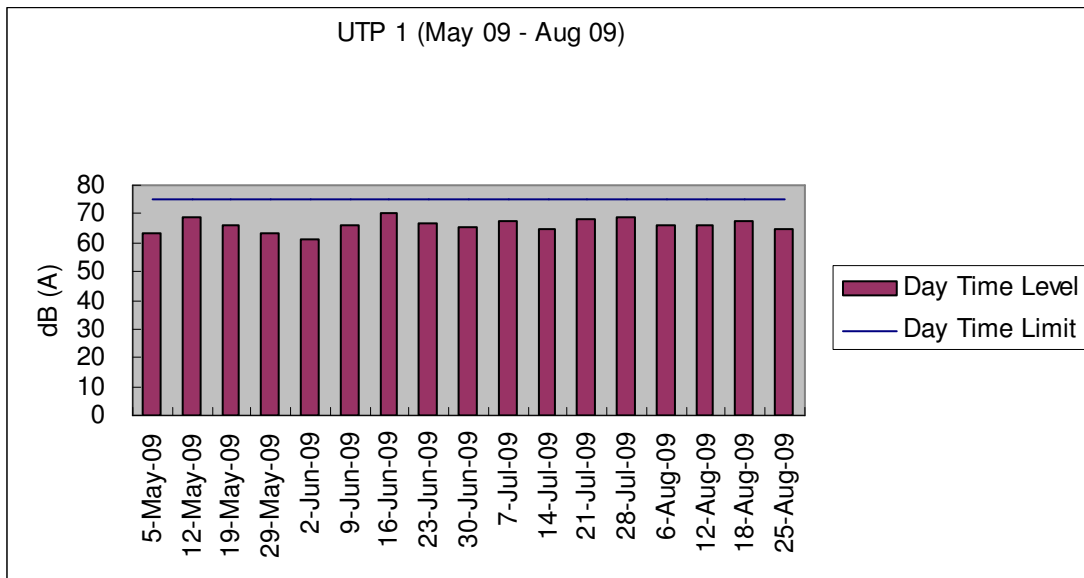
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

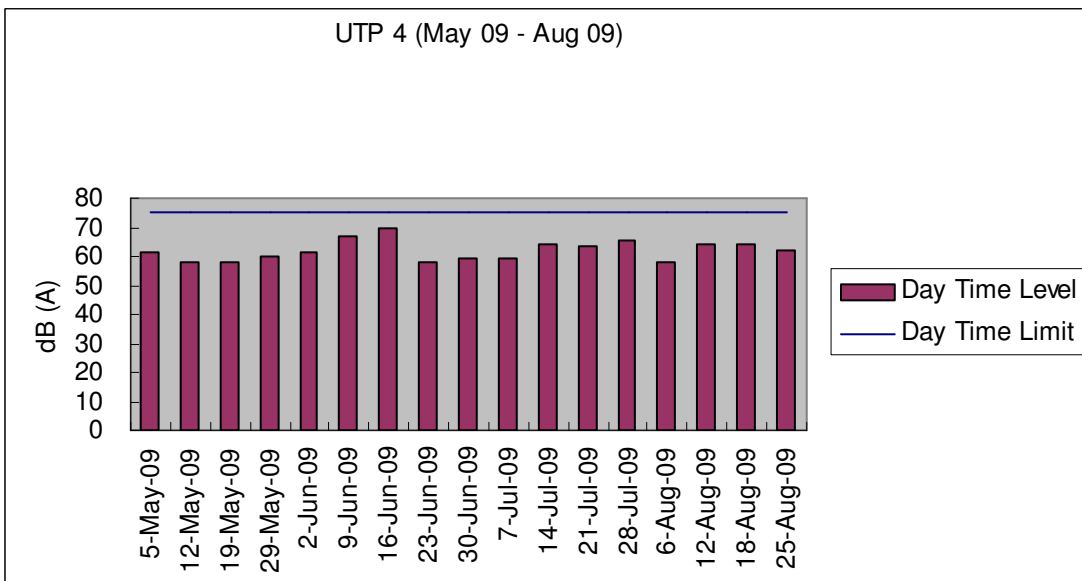
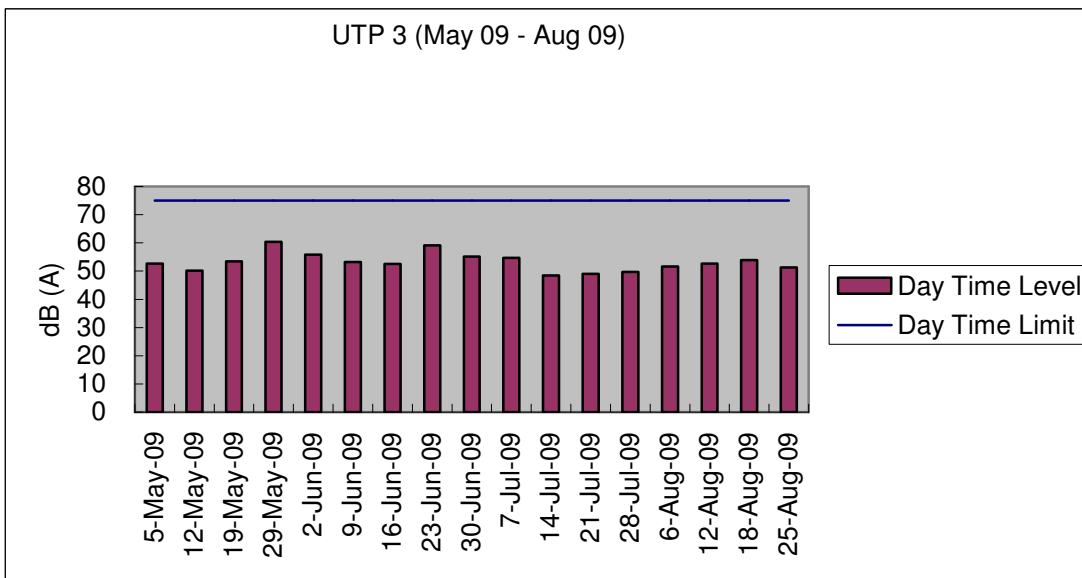
| Location | L ₉₀ 30min | L ₁₀ 30min | Leq 30min | Date | Time Duration | Major Construction Noise | Other Noise source | Weather | Location description |
|----------|--------------------------|--------------------------|--------------|-----------|------------------|--|--|---------|-------------------------|
| UTP 1 | 58.1 | 65.5 | 64.4 | 25-Aug-09 | 13:38-14:08 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Sunny | Façade |
| UTP 2 | 52.3 | 59.9 | 59.5 | 25-Aug-09 | 13:00-13:30 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic | Sunny | Façade |
| UTP 3 | 46.0 | 53.1 | 51.3 | 25-Aug-09 | 15:16-15:46 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Sunny | Façade |
| UTP 4 | 61.0 | 62.5 | 62.1 | 25-Aug-09 | 14:13-14:43 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from traffic and public | Sunny | Façade |
| UTP 5 | 56.7 | 57.6 | 57.4 | 25-Aug-09 | 14:44-15:14 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | / | Sunny | Façade |
| UTP 6 | 44.4 | 68.9 | 51.1 | 25-Aug-09 | 15:48-16:18 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public and dog | Sunny | Façade |
| UTP 7 | 48.2 | 51.5 | 50.5 | 25-Aug-09 | 10:16-10:46 | The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities | Background noise from public | Sunny | Façade |
| UTP 8 | 53.9 | 56.1 | 55.4 | 25-Aug-09 | 10:47-11:17 | Excavator noise | / | Sunny | Façade |
| UTP 9 | 47.5 | 49.5 | 49.0 | 25-Aug-09 | 11:20-11:50 | Excavator noise | / | Sunny | Façade |
| UTP 10 | 45.0 | 51.8 | 50.1 | 25-Aug-09 | 09:31-10:01 | Excavator noise | Background noise from avians | Sunny | Façade |
| UTP 11 | 47.9 | 55.2 | 52.6 | 25-Aug-09 | 09:00-09:30 | Excavator noise | Background noise from dog | Sunny | *Free field |

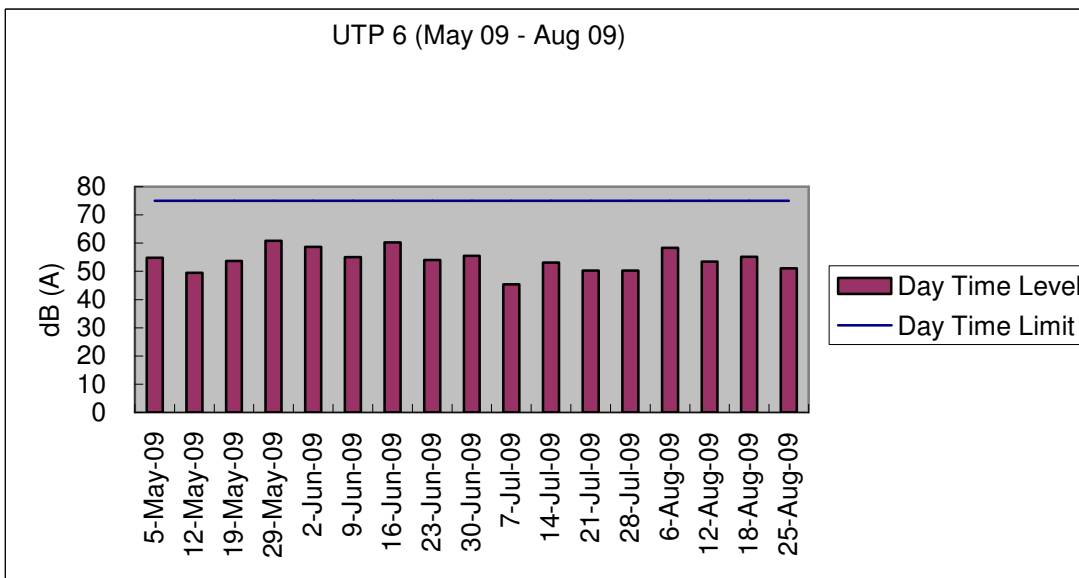
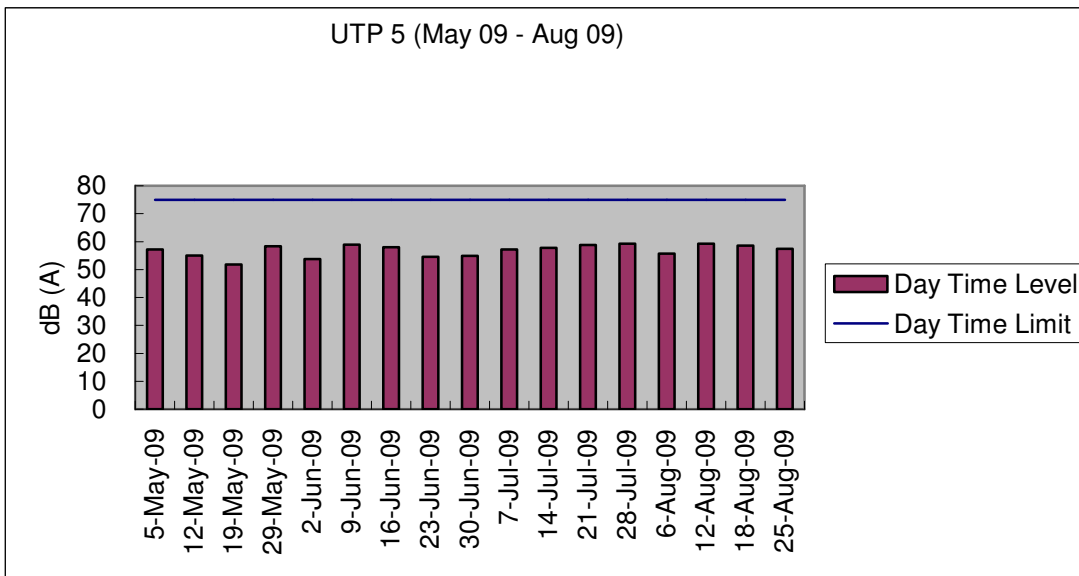
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

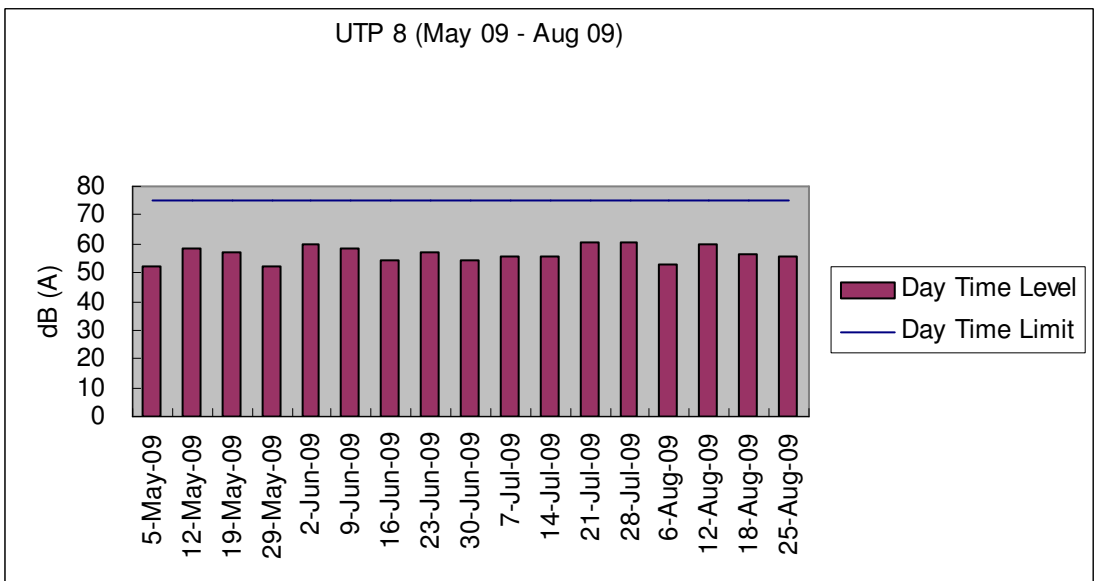
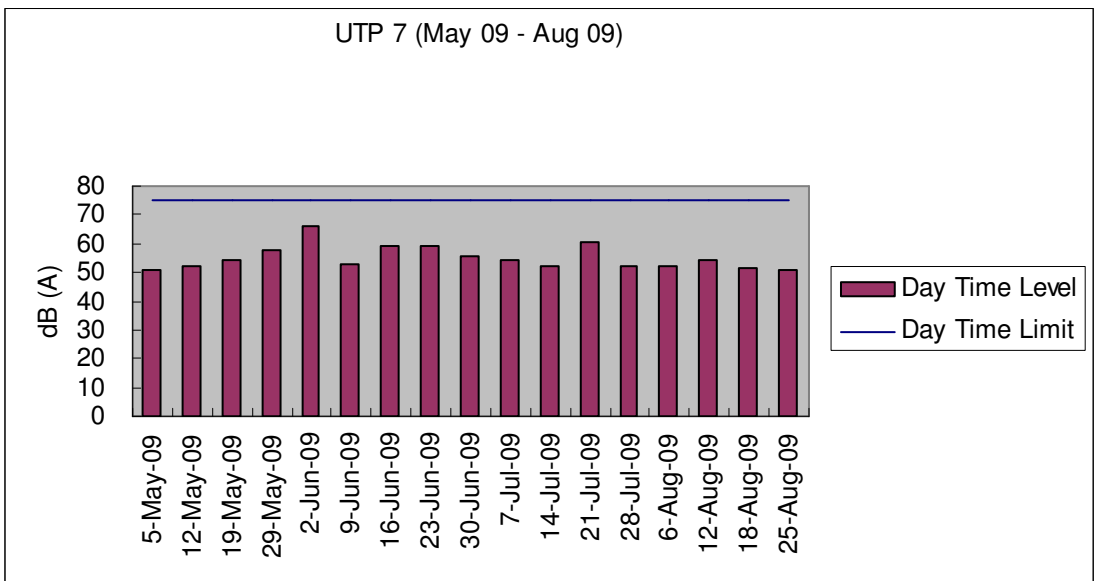
Graphical plot for noise measurements

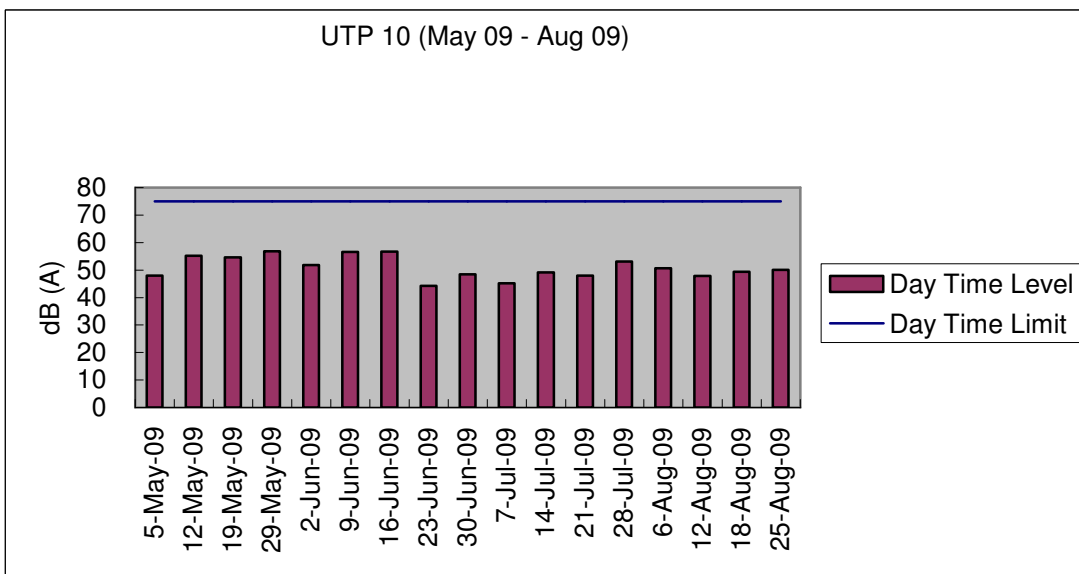
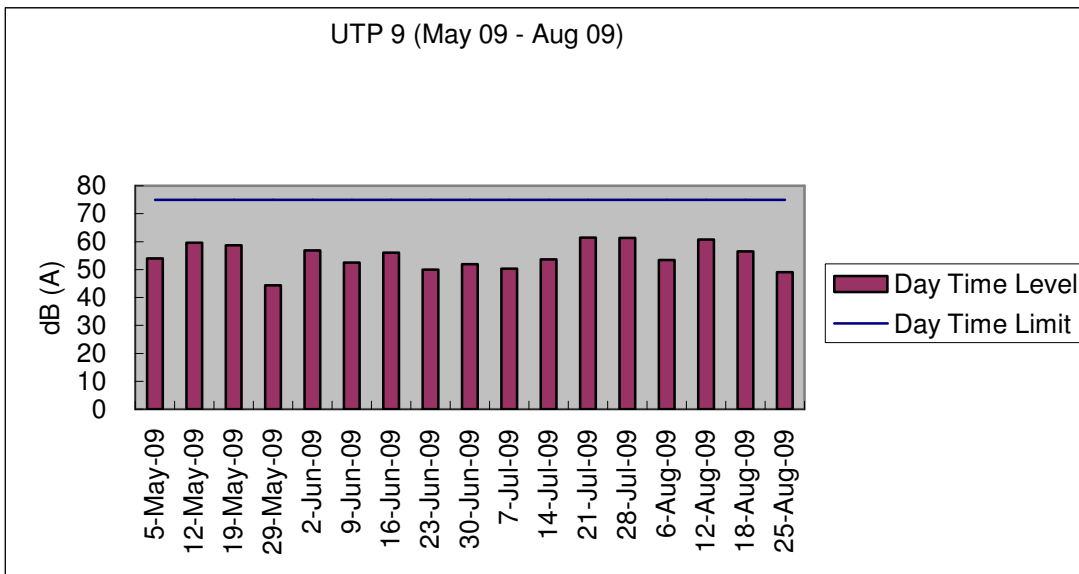
The following plots were the graphical plots for the 11 monitoring locations. Each plot showed the day time limit 75 dB(A), daytime level, date and the measured dB(A) results as in Leq 30min for each location. The graph contains the data recorded from May 2009 to August 2009.

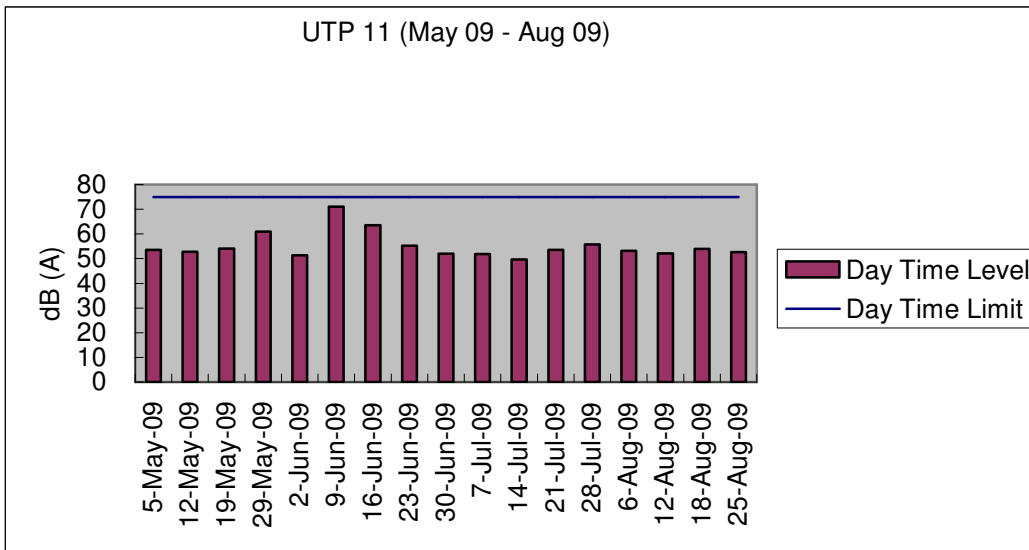


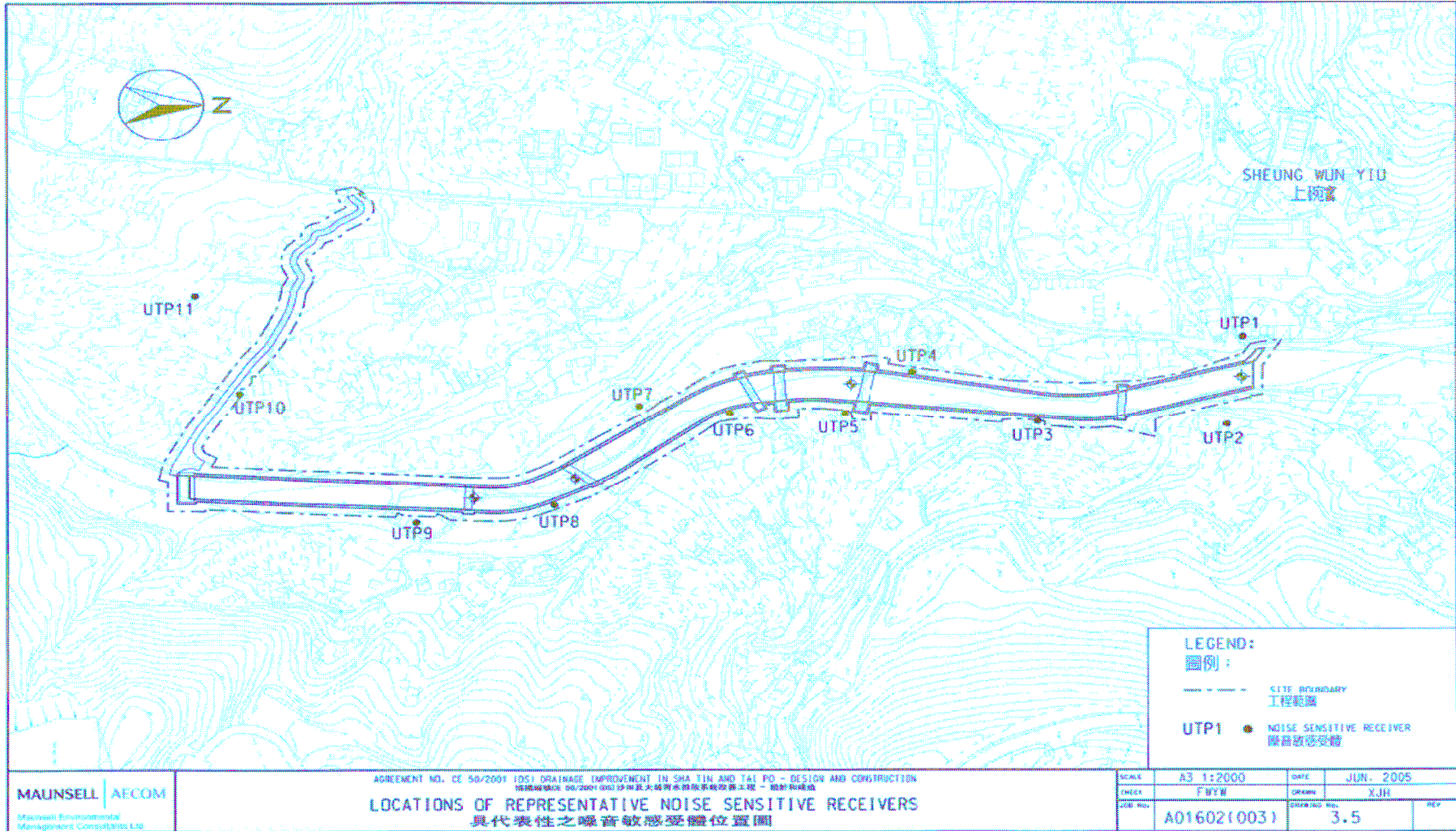












Appendix E: Monitoring schedule for the present and next reporting period

Master Schedule of EM&A works in August 2009

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

Master Schedule of EM&A works in September 2009

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

Appendix F: Cumulative complaint log

| Environmental Parameters | Cumulative no. Brought forward | No. of complaint August 2009 | Overall Total |
|---------------------------------|---------------------------------------|-------------------------------------|----------------------|
| Air/Dust | 1 | 0 | 1 |
| Noise | 1 | 0 | 1 |
| Water | 2 | 0 | 2 |
| House Keeping Hygiene | 0 | 0 | 0 |
| Chemical waste | 0 | 0 | 0 |
| Total | 4 | 0 | 4 |

* ET received a public enquiry referred by EPD, regarding river water quality and loss of vegetation within construction site, on 3rd July 2009.

Appendix G: Implementation status of environmental protection and mitigation measures

Implementation status of environmental protection and mitigation

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

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

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

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

Appendix H: Cumulative waste flow tableCumulative waste flow table since September 15th 2008

| Type of waste | Inert Waste | Non-Inert Waste | Chemical Waste |
|----------------|------------------|-----------------|----------------|
| September 2008 | 0 | 0 | 0 |
| October 2008 | 0 | 2 tonnes | 0 |
| November 2008 | 36m ³ | 0 | 0 |
| December 2008 | 0 | 0 | 0 |
| January 2009 | 0 | 0 | 0 |
| February 2009 | 0 | 0 | 0 |
| March 2009 | 0 | 0 | 0 |
| April 2009 | 0 | 0 | 0 |
| May 2009 | 0 | 0 | 20kg* |
| June 2009 | 0 | 0 | 0 |
| July 2009 | 0 | 0 | 0 |
| August 2009 | 0 | 0 | 0 |
| Total | 36m ³ | 2 tonnes | 20kg |

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

Appendix I: Construction programme

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 806 | Site Clearance | 20 d | 24/02/2008 | 12/03/2008 | 24/02/2008 | 12/03/2008 | | | | | | | |
| 807 | Charmark Setting Work | 30 d | 13/02/2008 | 12/03/2008 | 13/02/2008 | 12/03/2008 | | | | | | | |
| 808 | Initial Survey | 30 d | 15/02/2008 | 13/03/2008 | 15/02/2008 | 13/03/2008 | | | | | | | |
| 809 | Condition Surveys / Set up markers | 30 d | 15/02/2008 | 13/03/2008 | 15/02/2008 | 13/03/2008 | | | | | | | |
| 810 | Preparation of Temporary Works Design | 60 d | 25/02/2008 | 30/03/2008 | 25/02/2008 | 30/03/2008 | | | | | | | |
| 811 | Approval of Temporary Works Design | 14 d | 17/02/2008 | 14/03/2008 | 17/02/2008 | 14/03/2008 | | | | | | | |
| 812 | SI Works | 38 d | 24/02/2008 | 27/03/2008 | 24/02/2008 | 27/03/2008 | | | | | | | |
| 813 | Submission of Archaeological Monitoring | 96 d | 05/02/2008 | 30/03/2008 | 05/02/2008 | 30/03/2008 | | | | | | | |
| 814 | Approval of Archaeological Monitoring | 0 d | 18/02/2008 | 18/02/2008 | 18/02/2008 | 18/02/2008 | | | | | | | |
| 815 | Chainage from CHL 1850 to CHL 1850 | 114 d | 14/02/2008 | 19/03/2011 | 14/02/2008 | 19/03/2011 | | | | | | | |
| 816 | Chainage from CHL 1850 to CHL 1700 | 354 d | 14/02/2008 | 30/03/2009 | 14/02/2008 | 30/03/2009 | | | | | | | |
| 817 | Wet Season (April to Oct 2008) | 2-4 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 818 | Excavation | 80 d | 11/02/2008 | 19/03/2008 | 11/02/2008 | 19/03/2008 | | | | | | | |
| 819 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 820 | Steaming Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 821 | Galvan Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 822 | Install Doors/Fencing/Rainings/Drainage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 823 | Wet Season (April to Oct 2008) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 824 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 825 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 826 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 827 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 828 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 829 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 830 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 831 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 832 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 833 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 834 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 835 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 836 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 837 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 838 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 839 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 840 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 841 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 842 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 843 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 844 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 845 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 846 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 847 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 848 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 849 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 850 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 851 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 852 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 853 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 854 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 855 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 856 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 857 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 858 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 859 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 860 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 861 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |
| 862 | Relining Well | 50 d | 28/02/2008 | 13/03/2008 | 28/02/2008 | 13/03/2008 | | | | | | | |
| 863 | Dipion Well | 40 d | 14/02/2008 | 23/03/2008 | 14/02/2008 | 23/03/2008 | | | | | | | |
| 864 | Install Doors/Fencing/Rainings/Coverage | 5 d | 28/02/2008 | 30/03/2008 | 28/02/2008 | 30/03/2008 | | | | | | | |
| 865 | Wet Season (April to Oct 2010) | 214 d | 14/02/2008 | 14/02/2008 | 14/02/2008 | 14/02/2008 | | | | | | | |
| 866 | Excavation | 90 d | 11/02/2008 | 29/03/2008 | 11/02/2008 | 29/03/2008 | | | | | | | |
| 867 | Rockfill & Blinding | 40 d | 16/02/2008 | 25/03/2008 | 16/02/2008 | 25/03/2008 | | | | | | | |

Project: Revised M. Prog (Rev.08)
Date: 08 Aug 2009
Consultant: AECOM

Task: **Task Progress**
Critical Task Progress

Milestone Summary

Roll Up Progress

Roll Up Milestone

Split External Tasks

Task

PF Task

Drainage Services Department

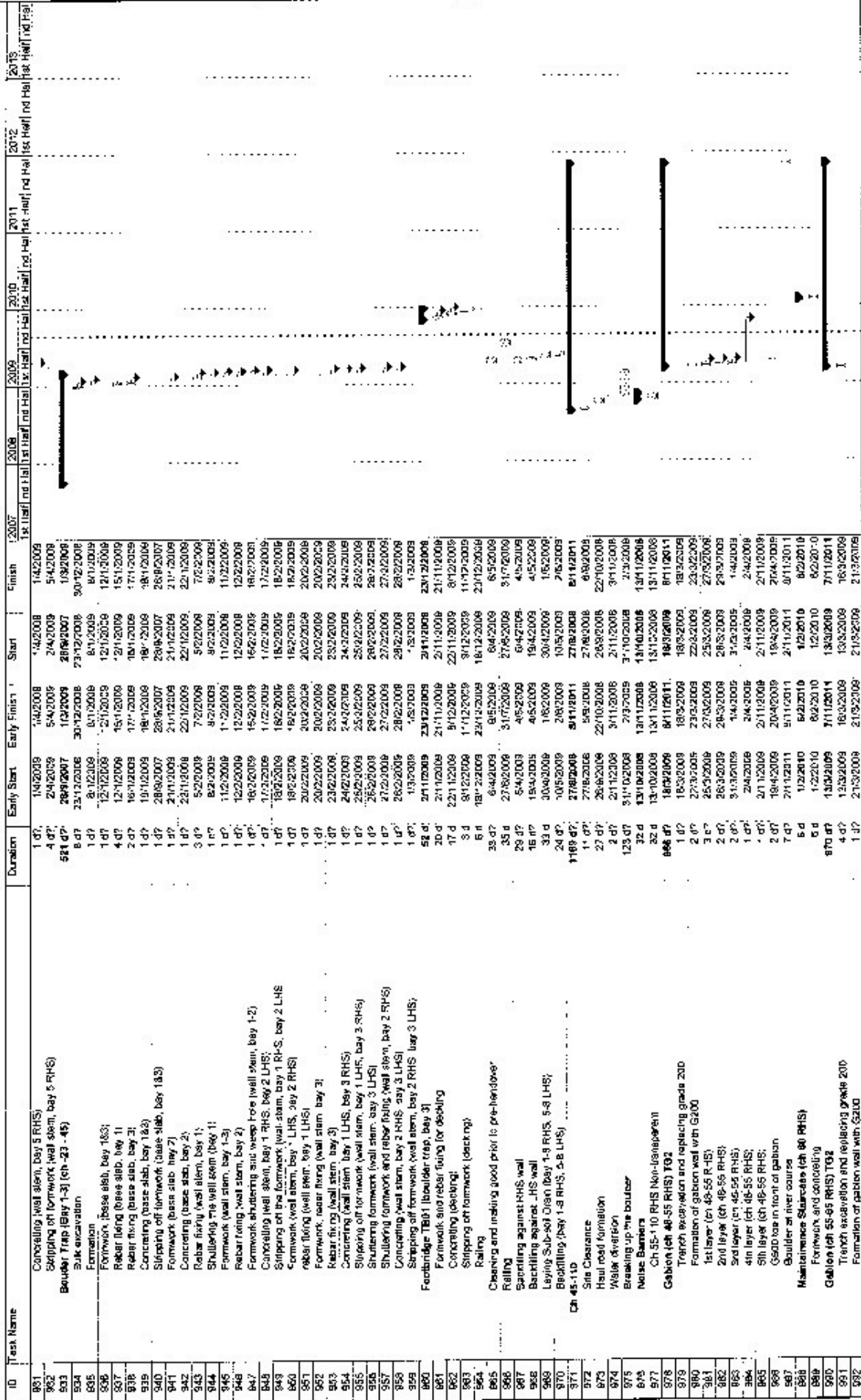
Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----|--|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 885 | Formation | 20 d | 11/12/2010 | 20/12/2010 | 11/12/2010 | 20/12/2010 | | | | | | | |
| 886 | Concreting | 5 d | 21/12/2010 | 25/12/2010 | 21/12/2010 | 25/12/2010 | | | | | | | |
| 870 | Ch-23 - 45 | 818 d | 28/02/2007 | 23/12/2009 | 28/02/2007 | 23/12/2009 | | | | | | | |
| 871 | Site Clearance | 9 d | 27/02/2008 | 4/3/2008 | 27/02/2008 | 4/3/2008 | | | | | | | |
| 872 | Highroad formation | 29 d | 28/02/2008 | 5/11/2008 | 28/02/2008 | 5/11/2008 | | | | | | | |
| 873 | Water diversion | 5 d | 30/10/2008 | 3/11/2008 | 30/10/2008 | 3/11/2008 | | | | | | | |
| 874 | Boulder Trap (Bay 7-8) (ch-23 - 45) | 134 d | 27/11/2008 | 9/4/2009 | 27/11/2008 | 9/4/2009 | | | | | | | |
| 875 | Bulk excavation | 15 d | 27/11/2008 | 11/12/2008 | 27/11/2008 | 11/12/2008 | | | | | | | |
| 876 | Formation (bay 7) | 5 d | 13/12/2008 | 17/12/2008 | 13/12/2008 | 17/12/2008 | | | | | | | |
| 877 | Formwork (base slab, bay 7) | 3 d | 23/12/2008 | 24/12/2008 | 23/12/2008 | 24/12/2008 | | | | | | | |
| 878 | Rebar fixing (base slab, bay 7) | 1 d | 31/12/2008 | 31/12/2008 | 31/12/2008 | 31/12/2008 | | | | | | | |
| 879 | Concreting (base slab, bay 7) | 1 d | 4/1/2009 | 4/1/2009 | 4/1/2009 | 4/1/2009 | | | | | | | |
| 880 | Stripping off formwork (base slab, bay 7) | 4 d | 8/1/2009 | 9/1/2009 | 8/1/2009 | 9/1/2009 | | | | | | | |
| 881 | Formwork (wall stem, bay 7 RHS) | 2 d | 10/1/2009 | 11/1/2009 | 10/1/2009 | 11/1/2009 | | | | | | | |
| 882 | Rebar fixing (wall stem, bay 7 RHS) | 1 d | 12/1/2009 | 12/1/2009 | 12/1/2009 | 12/1/2009 | | | | | | | |
| 883 | Concreting (wall stem, bay 7 RHS) | 1 d | 13/1/2009 | 13/1/2009 | 13/1/2009 | 13/1/2009 | | | | | | | |
| 884 | Stripping off formwork (wall stem, bay 7 RHS) | 1 d | 14/1/2009 | 14/1/2009 | 14/1/2009 | 14/1/2009 | | | | | | | |
| 885 | Formwork (bay 8) | 1 d | 23/1/2009 | 20/1/2009 | 23/1/2009 | 20/1/2009 | | | | | | | |
| 886 | Formwork (base slab, bay 8) | 1 d | 11/2/2009 | 11/2/2009 | 11/2/2009 | 11/2/2009 | | | | | | | |
| 887 | Rebar fixing (base slab, bay 8) | 1 d | 14/2/2009 | 14/2/2009 | 14/2/2009 | 14/2/2009 | | | | | | | |
| 888 | Concreting (base slab, bay 8) | 1 d | 15/2/2009 | 15/2/2009 | 15/2/2009 | 15/2/2009 | | | | | | | |
| 889 | Rebar fixing (wall stem, bay 7 LHS) | 2 d | 24/2/2009 | 25/2/2009 | 24/2/2009 | 25/2/2009 | | | | | | | |
| 890 | Shuttering formwork (wall stem, bay 7 LHS) | 2 d | 28/2/2009 | 3/3/2009 | 28/2/2009 | 3/3/2009 | | | | | | | |
| 891 | Concreting (wall stem, bay 7 LHS) | 1 d | 14/3/2009 | 14/3/2009 | 14/3/2009 | 14/3/2009 | | | | | | | |
| 892 | Stripping off formwork (wall stem, bay 7 LHS) | 1 d | 15/3/2009 | 15/3/2009 | 15/3/2009 | 15/3/2009 | | | | | | | |
| 893 | Rebar fixing and shuttering formwork (wall stem, bay 8 RHS) | 4 d | 19/3/2009 | 21/3/2009 | 19/3/2009 | 21/3/2009 | | | | | | | |
| 894 | Rebar fixing and shuttering formwork (wall stem, bay 8 LHS) | 5 d | 21/3/2009 | 25/3/2009 | 21/3/2009 | 25/3/2009 | | | | | | | |
| 895 | Shuttering formwork (wall stem, bay 8 LHS) | 1 d | 15/3/2009 | 21/3/2009 | 15/3/2009 | 21/3/2009 | | | | | | | |
| 896 | Concreting (wall stem, bay 8 LHS RHS) | 1 d | 7/4/2009 | 7/4/2009 | 7/4/2009 | 7/4/2009 | | | | | | | |
| 897 | Concreting (wall stem, bay 8 LHS RH-S) | 1 d | 8/4/2009 | 8/4/2009 | 8/4/2009 | 8/4/2009 | | | | | | | |
| 898 | Stripping off formwork (wall stem, bay 8 LHS RH-S) | 1 d | 9/4/2009 | 9/4/2009 | 9/4/2009 | 9/4/2009 | | | | | | | |
| 899 | Boulder Trap (Bay 4-5) (ch-23 - 46) | 558 d | 28/02/2007 | 8/4/2009 | 28/02/2007 | 8/4/2009 | | | | | | | |
| 900 | Bulk excavation | 17 d | 31/12/2009 | 15/1/2010 | 31/12/2009 | 15/1/2010 | | | | | | | |
| 901 | Formation (bay 5/6) | 1 d | 20/1/2010 | 20/1/2010 | 20/1/2010 | 20/1/2010 | | | | | | | |
| 902 | Formwork (base slab, bay 5/6) | 1 d | 22/2/2010 | 22/2/2010 | 22/2/2010 | 22/2/2010 | | | | | | | |
| 903 | Rebar fixing (base slab, bay 5) | 3 d | 2/3/2010 | 4/3/2010 | 2/3/2010 | 4/3/2010 | | | | | | | |
| 904 | Concreting (base slab, bay 5) | 1 d | 7/3/2010 | 7/3/2010 | 7/3/2010 | 7/3/2010 | | | | | | | |
| 905 | Rebar fixing (base slab, bay 6) | 8 d | 3/3/2010 | 11/3/2010 | 3/3/2010 | 11/3/2010 | | | | | | | |
| 906 | Formwork (wall stem, bay 5) | 1 d | 12/3/2010 | 12/3/2010 | 12/3/2010 | 12/3/2010 | | | | | | | |
| 907 | Concreting of wall between bay 4&5 | 1 d | 13/3/2010 | 13/3/2010 | 13/3/2010 | 13/3/2010 | | | | | | | |
| 908 | Concreting (base slab, bay 6) | 1 d | 13/3/2010 | 13/3/2010 | 13/3/2010 | 13/3/2010 | | | | | | | |
| 909 | Stripping off formwork (wall between bay 4&5, base slab, bay 6) | 1 d | 14/3/2010 | 14/3/2010 | 14/3/2010 | 14/3/2010 | | | | | | | |
| 910 | Formation (base slab, bay 4) | 1 d | 20/3/2010 | 20/3/2010 | 20/3/2010 | 20/3/2010 | | | | | | | |
| 911 | Formwork (wall stem, bay 4) | 1 d | 21/3/2010 | 21/3/2010 | 21/3/2010 | 21/3/2010 | | | | | | | |
| 912 | Formwork and rebar fixing (base slab, bay 4) | 7 d | 23/3/2010 | 1/4/2010 | 23/3/2010 | 1/4/2010 | | | | | | | |
| 913 | Rebar fixing (wall stem, bay 5 LHS) | 1 d | 26/4/2010 | 26/4/2010 | 26/4/2010 | 26/4/2010 | | | | | | | |
| 914 | Shuttering formwork (wall stem, bay 5 LHS) | 1 d | 27/4/2010 | 27/4/2010 | 27/4/2010 | 27/4/2010 | | | | | | | |
| 915 | Concreting (wall stem, bay 5 RHS) | 1 d | 28/4/2010 | 28/4/2010 | 28/4/2010 | 28/4/2010 | | | | | | | |
| 916 | Concreting (wall stem, bay 5 LHS) | 1 d | 29/4/2010 | 29/4/2010 | 29/4/2010 | 29/4/2010 | | | | | | | |
| 917 | Formwork (wall stem, bay 5 RHS) | 1 d | 1/5/2010 | 1/5/2010 | 1/5/2010 | 1/5/2010 | | | | | | | |
| 918 | Shuttering formwork (base slab, bay 4) | 1 d | 3/5/2010 | 3/5/2010 | 3/5/2010 | 3/5/2010 | | | | | | | |
| 919 | Concreting (base slab, bay 4) | 1 d | 4/5/2010 | 4/5/2010 | 4/5/2010 | 4/5/2010 | | | | | | | |
| 920 | Rebar fixing and formwork, shuttering (wall stem, bay 5 RHS) | 2 d | 4/5/2010 | 5/5/2010 | 4/5/2010 | 5/5/2010 | | | | | | | |
| 921 | Stripping off formwork (base slab, bay 4) | 1 d | 5/5/2010 | 5/5/2010 | 5/5/2010 | 5/5/2010 | | | | | | | |
| 922 | Formwork (wall stem, bay 4 LHS) | 1 d | 9/5/2010 | 9/5/2010 | 9/5/2010 | 9/5/2010 | | | | | | | |
| 923 | Rebar fixing (wall stem, bay 4 LHS) | 2 d | 10/5/2010 | 11/5/2010 | 10/5/2010 | 11/5/2010 | | | | | | | |
| 924 | Formwork and rebar fixing (wall stem, bay 4 RHS) | 4 d | 10/5/2010 | 13/5/2010 | 10/5/2010 | 13/5/2010 | | | | | | | |
| 925 | Concreting (wall stem, bay 4 LHS, bay 5 RHS) | 1 d | 17/5/2010 | 17/5/2010 | 17/5/2010 | 17/5/2010 | | | | | | | |
| 926 | Rebar fixing and shuttering the formwork (wall stem, bay 4 RHS, bay 5 RHS) | 2 d | 17/5/2010 | 19/5/2010 | 17/5/2010 | 19/5/2010 | | | | | | | |
| 927 | Stripping off formwork (wall stem, bay 4 LHS, bay 5 RHS) | 2 d | 18/5/2010 | 19/5/2010 | 18/5/2010 | 19/5/2010 | | | | | | | |
| 928 | Rebar fixing and shuttering formwork (wall stem, bay 5 RHS) | 5 d | 21/5/2010 | 25/5/2010 | 21/5/2010 | 25/5/2010 | | | | | | | |
| 929 | Concreting (wall stem, bay 4 RHS, bay 5 LHS) | 1 d | 26/5/2010 | 26/5/2010 | 26/5/2010 | 26/5/2010 | | | | | | | |
| 930 | Rebar fixing and formwork (wall stem, bay 5) | 5 d | 27/5/2010 | 27/5/2010 | 27/5/2010 | 27/5/2010 | | | | | | | |

Drainage Services Department

River Improvement Works in Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

Contract No. DC/2007/06



Project: Revised M. Prog (Rev.08)
 Date: Aug 2009
 Consultant: AECOM

Task Progress: [Progress bar]
 Critical Task Progress: [Critical Task Progress bar]
 Measure: [Measure bar]
 Summary: [Summary bar]

Task: [Task bar]
 Critical Task: [Critical Task bar]
 Summary: [Summary bar]

Roller Up Task: [Roller Up Task bar]
 Roller Up Critical Task: [Roller Up Critical Task bar]
 Roller Up Milestone: [Roller Up Milestone bar]

Railed Up Progress: [Railed Up Progress bar]
 Railed Up Critical Task: [Railed Up Critical Task bar]
 Railed Up Milestone: [Railed Up Milestone bar]

PTask: [PTask bar]

Drainage Services Department

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

Contract No. DC/2007/06

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|----------|----------|------|------|------|------|------|------|
| 963 | 1st layer (ch 55-65 RHS) | 3 d | 25/02/09 | 27/02/09 | 25/02/09 | 27/02/09 | | | | | | |
| 964 | 2nd layer (ch 55-65 RHS) | 2 d | 26/02/09 | 28/02/09 | 26/02/09 | 28/02/09 | | | | | | |
| 965 | 3rd layer (ch 55-65 RHS) | 2 d | 27/02/09 | 29/02/09 | 27/02/09 | 29/02/09 | | | | | | |
| 966 | 4th layer (ch 55-65 RHS) | 1 d | 28/02/09 | 29/02/09 | 28/02/09 | 29/02/09 | | | | | | |
| 967 | 5th layer (ch 55-65 RHS) | 1 d | 29/02/09 | 30/02/09 | 29/02/09 | 30/02/09 | | | | | | |
| 968 | 5500 toe in front of gabion | 2 d | 18/02/09 | 20/02/09 | 18/02/09 | 20/02/09 | | | | | | |
| 969 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 970 | Gabion (ch 65-75 RHS) TG2 | 981 d | 23/02/09 | 21/12/11 | 23/02/09 | 21/12/11 | | | | | | |
| 1001 | Trench excavation and replacing grade 200 | 4 d | 5/03/09 | 9/03/09 | 5/03/09 | 9/03/09 | | | | | | |
| 1002 | Formation of gabion wall with G200 | 8 d | 13/03/09 | 21/03/09 | 13/03/09 | 21/03/09 | | | | | | |
| 1003 | 1st layer (ch 65-75 RHS) | 2 d | 15/03/09 | 17/03/09 | 15/03/09 | 17/03/09 | | | | | | |
| 1004 | 2nd layer (ch 65-75 RHS) | 2 d | 16/03/09 | 18/03/09 | 16/03/09 | 18/03/09 | | | | | | |
| 1005 | 3rd layer (ch 65-75 RHS) | 2 d | 17/03/09 | 19/03/09 | 17/03/09 | 19/03/09 | | | | | | |
| 1006 | 4th layer (ch 65-75 RHS) | 2 d | 18/03/09 | 20/03/09 | 18/03/09 | 20/03/09 | | | | | | |
| 1007 | 5th layer (ch 65-75 RHS) | 1 d | 19/03/09 | 20/03/09 | 19/03/09 | 20/03/09 | | | | | | |
| 1008 | G500 toe in front of gabion | 2 d | 19/03/09 | 21/03/09 | 19/03/09 | 21/03/09 | | | | | | |
| 1009 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 1010 | Gabion (ch 75-80 RHS) TG2 | 1003 d | 11/02/09 | 11/12/11 | 11/02/09 | 11/12/11 | | | | | | |
| -011 | Trench excavation and replacing grade 200 | 4 d | 11/02/09 | 15/02/09 | 11/02/09 | 15/02/09 | | | | | | |
| 1012 | Formation of gabion wall with G270 | 2 d | 17/02/09 | 19/02/09 | 17/02/09 | 19/02/09 | | | | | | |
| 1013 | 1st layer (ch 75-80 RHS) | 1 d | 18/02/09 | 19/02/09 | 18/02/09 | 19/02/09 | | | | | | |
| 1014 | 2nd layer (ch 75-80 RHS) | 2 d | 19/02/09 | 21/02/09 | 19/02/09 | 21/02/09 | | | | | | |
| 1015 | 3rd layer (ch 75-80 RHS) | 1 d | 20/02/09 | 21/02/09 | 20/02/09 | 21/02/09 | | | | | | |
| 1016 | 4th layer (ch 75-80 RHS) | 1 d | 21/02/09 | 22/02/09 | 21/02/09 | 22/02/09 | | | | | | |
| 1017 | 5th layer (ch 75-80 RHS) | 1 d | 22/02/09 | 23/02/09 | 22/02/09 | 23/02/09 | | | | | | |
| 1018 | G500 toe in front of gabion | 2 d | 23/02/09 | 25/02/09 | 23/02/09 | 25/02/09 | | | | | | |
| 1019 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 1020 | Gabion (ch 80-90 RHS) TG2 | 1001 d | 10/02/09 | 10/12/11 | 10/02/09 | 10/12/11 | | | | | | |
| 1021 | Trench excavation and replacing grade 200 | 3 d | 17/02/09 | 20/02/09 | 17/02/09 | 20/02/09 | | | | | | |
| 1022 | Formation of gabion wall with G200 | 1 d | 18/02/09 | 19/02/09 | 18/02/09 | 19/02/09 | | | | | | |
| 1023 | 1st layer (ch 80-90 RHS) | 2 d | 19/02/09 | 21/02/09 | 19/02/09 | 21/02/09 | | | | | | |
| 1024 | 2nd layer (ch 80-90 RHS) | 1 d | 20/02/09 | 21/02/09 | 20/02/09 | 21/02/09 | | | | | | |
| 1025 | 3rd layer (ch 80-90 RHS) | 1 d | 21/02/09 | 22/02/09 | 21/02/09 | 22/02/09 | | | | | | |
| 1026 | 4th layer (ch 80-90 RHS) | 1 d | 22/02/09 | 23/02/09 | 22/02/09 | 23/02/09 | | | | | | |
| 1027 | 5th layer (ch 80-90 RHS) | 1 d | 23/02/09 | 24/02/09 | 23/02/09 | 24/02/09 | | | | | | |
| 1028 | G500 toe in front of gabion | 2 d | 24/02/09 | 26/02/09 | 24/02/09 | 26/02/09 | | | | | | |
| 1029 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 1030 | Gabion (ch 90-100 RHS) TG2 | 1009 d | 20/02/09 | 20/12/11 | 20/02/09 | 20/12/11 | | | | | | |
| 1031 | Trench excavation | 1 d | 20/02/09 | 21/02/09 | 20/02/09 | 21/02/09 | | | | | | |
| 1032 | Formwork for gabion units | 2 d | 21/02/09 | 23/02/09 | 21/02/09 | 23/02/09 | | | | | | |
| 1033 | 1st layer (ch 90-100 RHS) | 3 d | 23/02/09 | 26/02/09 | 23/02/09 | 26/02/09 | | | | | | |
| 1034 | 2nd layer (ch 90-100 RHS) | 1 d | 24/02/09 | 25/02/09 | 24/02/09 | 25/02/09 | | | | | | |
| 1035 | 3rd layer (ch 90-100 RHS) | 1 d | 25/02/09 | 26/02/09 | 25/02/09 | 26/02/09 | | | | | | |
| 1036 | 4th layer (ch 90-100 RHS) | 1 d | 26/02/09 | 27/02/09 | 26/02/09 | 27/02/09 | | | | | | |
| 1037 | 5th layer (ch 90-100 RHS) | 1 d | 27/02/09 | 28/02/09 | 27/02/09 | 28/02/09 | | | | | | |
| 1038 | G500 toe in front of gabion | 2 d | 28/02/09 | 30/02/09 | 28/02/09 | 30/02/09 | | | | | | |
| 1039 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 1040 | Maintenance staircase (ch 100 RHS) | 8 d | 12/02/09 | 20/02/09 | 12/02/09 | 20/02/09 | | | | | | |
| 1041 | Formwork and concrete | 6 d | 13/02/09 | 19/02/09 | 13/02/09 | 19/02/09 | | | | | | |
| 1042 | Gabion (ch 100-110 RHS) TG3 | 987 d | 24/02/09 | 21/12/11 | 24/02/09 | 21/12/11 | | | | | | |
| 1043 | Trench excavation and replacing grade 200 | 2 d | 24/02/09 | 26/02/09 | 24/02/09 | 26/02/09 | | | | | | |
| 1044 | Formation of gabion wall with G200 | 3 d | 26/02/09 | 29/02/09 | 26/02/09 | 29/02/09 | | | | | | |
| 1045 | 1st layer (ch 100-110 RHS) | 2 d | 27/02/09 | 29/02/09 | 27/02/09 | 29/02/09 | | | | | | |
| 1046 | 2nd layer (ch 100-110 RHS) | 1 d | 28/02/09 | 29/02/09 | 28/02/09 | 29/02/09 | | | | | | |
| 1047 | 3rd layer (ch 100-110 RHS) | 3 d | 29/02/09 | 31/02/09 | 29/02/09 | 31/02/09 | | | | | | |
| 1048 | 4th layer (ch 100-110 RHS) | 1 d | 31/02/09 | 31/02/09 | 31/02/09 | 31/02/09 | | | | | | |
| 1049 | 5th layer (ch 100-110 RHS) | 1 d | 31/02/09 | 31/02/09 | 31/02/09 | 31/02/09 | | | | | | |
| 1050 | G500 toe in front of gabion | 2 d | 31/02/09 | 01/03/10 | 31/02/09 | 01/03/10 | | | | | | |
| 1051 | Boulder at river course | 7 d | 11/12/01 | 18/12/01 | 11/12/01 | 18/12/01 | | | | | | |
| 1052 | Area P | 1 d | 20/02/09 | 21/02/09 | 20/02/09 | 21/02/09 | | | | | | |
| 1053 | Hand over | 1 d | 20/02/09 | 21/02/09 | 20/02/09 | 21/02/09 | | | | | | |
| 1054 | Ch 110 - 150 | 866 d | 4/02/09 | 4/02/09 | 4/02/09 | 4/02/09 | | | | | | |

Project: Revised M. Prog (Rev.08)
 Date: Aug 2008
 Consultant: AECOM

Task Progress: Task Critical Task
 Milestone: Milestone Summary
 Critical Task Progress: Critical Task Progress
 Rolled Up Task: Rolled Up Task
 Rolled Up Critical Task: Rolled Up Critical Task
 Rolled Up Milestone: Rolled Up Milestone
 External Tasks: External Tasks
 Split: Split
 PTTask: PTTask

Drainage Services Department

Contract No. DG/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Entry Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1055 | Site Clearance | 5 d | 4/8/2008 | 8/8/2008 | 4/8/2008 | 8/8/2008 | | | | | | | |
| 1056 | Hand laid formation | 31 d | 27/8/2008 | 27/10/2008 | 27/8/2008 | 27/10/2008 | | | | | | | |
| 1057 | Water diversion | 3 d | 27/10/2008 | 30/10/2008 | 27/10/2008 | 30/10/2008 | | | | | | | |
| 1058 | Smoking up the boulder | 3 d | 31/10/2008 | 4/11/2008 | 31/10/2008 | 4/11/2008 | | | | | | | |
| 1059 | Demolish the house near ABC | 132 d | 3/11/2008 | 14/3/2009 | 3/11/2008 | 14/3/2009 | | | | | | | |
| 1060 | Gabion (ch 110-150 RHS) T02 | 21 d | 24/10/2008 | 13/11/2008 | 24/10/2008 | 13/11/2008 | | | | | | | |
| 1061 | Trench excavation and replacing grade 200 | 83 d | 20/10/2008 | 5/3/2009 | 27/10/2008 | 5/3/2009 | | | | | | | |
| 1062 | Formation of gabion wall with G300 | 12 d | 21/10/2008 | 1/11/2008 | 21/10/2008 | 1/11/2008 | | | | | | | |
| 1063 | 1st layer - 4th layer (ch 10-150 LHS) | 3 d | 29/10/2008 | 4/11/2008 | 29/10/2008 | 4/11/2008 | | | | | | | |
| 1064 | G500 toe in front of gabion | 20 d | 3/11/2008 | 23/11/2008 | 3/11/2008 | 23/11/2008 | | | | | | | |
| 1065 | Maintenance staircase (ch 130 RHS) | 6 d | 28/10/2008 | 3/11/2008 | 28/10/2008 | 3/11/2008 | | | | | | | |
| 1066 | Formwork and rebar forming | 5 d | 1/11/2008 | 6/11/2008 | 1/11/2008 | 6/11/2008 | | | | | | | |
| 1067 | Gabion (ch 140-150 LHS) T04 | 41 d | 20/11/2008 | 1/1/2009 | 20/11/2008 | 1/1/2009 | | | | | | | |
| 1068 | Trench excavation and replacing grade 200 | 12 d | 27/11/2008 | 8/12/2008 | 27/11/2008 | 8/12/2008 | | | | | | | |
| 1069 | Formation of gabion wall with G300 | 3 d | 14/12/2008 | 18/12/2008 | 14/12/2008 | 18/12/2008 | | | | | | | |
| 1070 | 1st layer 4th layer (ch 140-150 LHS) | 20 d | 17/12/2008 | 6/1/2009 | 17/12/2008 | 6/1/2009 | | | | | | | |
| 1071 | G500 toe in front of gabion | 6 d | 7/12/2008 | 13/12/2008 | 7/12/2008 | 13/12/2008 | | | | | | | |
| 1072 | Feederbed T02 (Ch 150) | 435 d | 8/11/2009 | 17/1/2011 | 8/11/2009 | 17/1/2011 | | | | | | | |
| 1073 | Bulk excavation for footing (Abutment A) | 10 d | 9/11/2009 | 19/11/2009 | 9/11/2009 | 19/11/2009 | | | | | | | |
| 1074 | Formation - Abutment A | 1 d | 9/11/2009 | 10/11/2009 | 9/11/2009 | 10/11/2009 | | | | | | | |
| 1075 | Formwork and rebar fixing (Abutment A, footing) | 5 d | 23/11/2009 | 28/11/2009 | 23/11/2009 | 28/11/2009 | | | | | | | |
| 1076 | Concreting (Abutment A, footing) | 1 d | 25/11/2009 | 26/11/2009 | 25/11/2009 | 26/11/2009 | | | | | | | |
| 1077 | Stripping off formwork (Abutment A, footing) | 3 d | 28/11/2009 | 31/12/2009 | 28/11/2009 | 31/12/2009 | | | | | | | |
| 1078 | Rebar fixing and shuttering formwork (Abutment A, column) | 5 d | 29/11/2009 | 3/12/2009 | 29/11/2009 | 3/12/2009 | | | | | | | |
| 1079 | Concreting (Abutment A, column) | 1 d | 4/12/2009 | 5/12/2009 | 4/12/2009 | 5/12/2009 | | | | | | | |
| 1080 | Stripping off formwork (Abutment A, column) | 3 d | 6/12/2009 | 7/12/2009 | 6/12/2009 | 7/12/2009 | | | | | | | |
| 1081 | Bulk excavation for footing (Abutment B) | 10 d | 2/12/2009 | 11/12/2009 | 2/12/2009 | 11/12/2009 | | | | | | | |
| 1082 | Formation - Abutment B | 1 d | 12/12/2009 | 13/12/2009 | 12/12/2009 | 13/12/2009 | | | | | | | |
| 1083 | Formwork and rebar fixing (Abutment B, footing) | 5 d | 13/12/2009 | 17/12/2009 | 13/12/2009 | 17/12/2009 | | | | | | | |
| 1084 | Concreting (Abutment B, footing) | 1 d | 18/12/2009 | 19/12/2009 | 18/12/2009 | 19/12/2009 | | | | | | | |
| 1085 | Stripping off formwork (Abutment B, footing) | 3 d | 19/12/2009 | 21/12/2009 | 19/12/2009 | 21/12/2009 | | | | | | | |
| 1086 | Rebar fixing and shuttering formwork (Abutment B, column) | 5 d | 22/12/2009 | 26/12/2009 | 22/12/2009 | 26/12/2009 | | | | | | | |
| 1087 | Concreting (Abutment B, column) | 1 d | 27/12/2009 | 28/12/2009 | 27/12/2009 | 28/12/2009 | | | | | | | |
| 1088 | Stripping off formwork (Abutment B, column) | 3 d | 29/12/2009 | 31/12/2009 | 29/12/2009 | 31/12/2009 | | | | | | | |
| 1089 | Bulk excavation for footing (Abutment B, column) | 10 d | 1/1/2010 | 11/1/2010 | 1/1/2010 | 11/1/2010 | | | | | | | |
| 1090 | Formation - Abutment B | 1 d | 12/1/2010 | 13/1/2010 | 12/1/2010 | 13/1/2010 | | | | | | | |
| 1091 | Formwork and rebar fixing (Abutment B, footing) | 5 d | 13/1/2010 | 17/1/2010 | 13/1/2010 | 17/1/2010 | | | | | | | |
| 1092 | Concreting (Abutment B, footing) | 1 d | 18/1/2010 | 19/1/2010 | 18/1/2010 | 19/1/2010 | | | | | | | |
| 1093 | Stripping off formwork (Abutment B, footing) | 3 d | 19/1/2010 | 21/1/2010 | 19/1/2010 | 21/1/2010 | | | | | | | |
| 1094 | Rebar fixing and shuttering formwork (Abutment B, column) | 5 d | 22/1/2010 | 26/1/2010 | 22/1/2010 | 26/1/2010 | | | | | | | |
| 1095 | Concreting (Abutment B, column) | 1 d | 27/1/2010 | 28/1/2010 | 27/1/2010 | 28/1/2010 | | | | | | | |
| 1096 | Stripping off formwork (Abutment B, column) | 3 d | 29/1/2010 | 31/1/2010 | 29/1/2010 | 31/1/2010 | | | | | | | |
| 1097 | Bulk excavation for footing (Abutment B, column) | 20 d | 1/2/2010 | 20/2/2010 | 1/2/2010 | 20/2/2010 | | | | | | | |
| 1098 | Formation - Abutment B | 20 d | 21/2/2010 | 10/3/2010 | 21/2/2010 | 10/3/2010 | | | | | | | |
| 1099 | Formwork and rebar fixing (Abutment B, footing) | 3 d | 10/3/2010 | 13/3/2010 | 10/3/2010 | 13/3/2010 | | | | | | | |
| 1100 | Concreting (Abutment B, footing) | 1 d | 13/3/2010 | 14/3/2010 | 13/3/2010 | 14/3/2010 | | | | | | | |
| 1101 | Stripping off formwork (Abutment B, footing) | 3 d | 16/3/2010 | 19/3/2010 | 16/3/2010 | 19/3/2010 | | | | | | | |
| 1102 | Rebar fixing and shuttering formwork (Abutment B, column) | 5 d | 19/3/2010 | 23/3/2010 | 19/3/2010 | 23/3/2010 | | | | | | | |
| 1103 | Concreting (Abutment B, column) | 1 d | 24/3/2010 | 25/3/2010 | 24/3/2010 | 25/3/2010 | | | | | | | |
| 1104 | Stripping off formwork (Abutment B, column) | 3 d | 28/3/2010 | 30/3/2010 | 28/3/2010 | 30/3/2010 | | | | | | | |
| 1105 | Bulk excavation for footing (Abutment B, column) | 20 d | 1/4/2010 | 20/4/2010 | 1/4/2010 | 20/4/2010 | | | | | | | |
| 1106 | Formation - Abutment B | 20 d | 21/4/2010 | 10/5/2010 | 21/4/2010 | 10/5/2010 | | | | | | | |
| 1107 | Formwork and rebar fixing (base slab) | 3 d | 10/5/2010 | 13/5/2010 | 10/5/2010 | 13/5/2010 | | | | | | | |
| 1108 | Concreting (base slab) | 1 d | 13/5/2010 | 14/5/2010 | 13/5/2010 | 14/5/2010 | | | | | | | |
| 1109 | Stripping off formwork (wall stem) | 3 d | 30/5/2010 | 2/6/2010 | 30/5/2010 | 2/6/2010 | | | | | | | |
| 1110 | Formwork and rebar fixing (wall stem) | 2 d | 3/6/2010 | 4/6/2010 | 3/6/2010 | 4/6/2010 | | | | | | | |
| 1111 | Concreting (wall stem) | 10 d | 5/6/2010 | 14/6/2010 | 5/6/2010 | 14/6/2010 | | | | | | | |
| 1112 | Formwork and rebar fixing (wall stem) | 2 d | 15/6/2010 | 17/6/2010 | 15/6/2010 | 17/6/2010 | | | | | | | |
| 1113 | Concreting (wall stem) | 3 d | 17/6/2010 | 19/6/2010 | 17/6/2010 | 19/6/2010 | | | | | | | |
| 1114 | Stripping off formwork (wall stem) | 3 d | 17/6/2010 | 19/6/2010 | 17/6/2010 | 19/6/2010 | | | | | | | |
| 1115 | Gabion (ch 200-210 LHS) T02 | 21 d | 14/6/2009 | 5/7/2009 | 14/6/2009 | 5/7/2009 | | | | | | | |
| 1116 | Gabion (ch 200-210 LHS) T02 | 21 d | 14/6/2009 | 5/7/2009 | 14/6/2009 | 5/7/2009 | | | | | | | |

Project: Revised M. Prog (Rev.08)
 Date: Aug 2009
 Consultant: AECOM

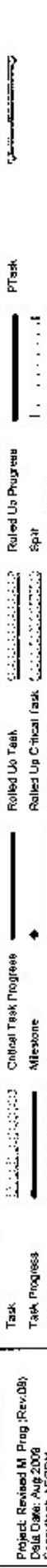
Task: Task Progress: Critical Task Progress:
 Milestone: Summary:
 Rolled Up Task: Rolled Up Critical Task:
 Split: External Task:

Drainage Services Department

River Improvement Works in Upper Lam Tuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

Contract No. DC/2007/08

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1117 | Trench excavation and replacing grade 200 | 1 d | 14/3/2009 | 14/3/2009 | 14/3/2009 | 14/3/2009 | | | | | | | |
| 1118 | Formation of gabion wall | 2 d | 15/3/2009 | 17/3/2009 | 15/3/2009 | 17/3/2009 | | | | | | | |
| 1119 | 1st layer (ch 200-210 LHS) | 1 d | 17/3/2009 | 18/3/2009 | 17/3/2009 | 18/3/2009 | | | | | | | |
| 1120 | 2nd layer (ch 200-210 LHS) | 3 d | 20/3/2009 | 23/3/2009 | 21/3/2009 | 23/3/2009 | | | | | | | |
| 1121 | 3rd layer (ch 200-210 LHS) | 1 d | 24/3/2009 | 24/3/2009 | 24/3/2009 | 24/3/2009 | | | | | | | |
| 1122 | 4th layer (ch 200-210 LHS) | 1 d | 25/3/2009 | 25/3/2009 | 25/3/2009 | 25/3/2009 | | | | | | | |
| 1123 | Gabion (ch 190-190 RHS) T02 | 20 d | 18/2/2010 | 20/2/2010 | 18/2/2010 | 20/2/2010 | | | | | | | |
| 1124 | Trench excavation and replacing grade 200 | 5 d | 13/2/2010 | 18/2/2010 | 12/2/2010 | 17/2/2010 | | | | | | | |
| 1125 | Formation of gabion wall with G200 | 2 d | 15/2/2010 | 17/2/2010 | 15/2/2010 | 17/2/2010 | | | | | | | |
| 1126 | 1st layer - 4th layer (ch 180-185 LHS) | 10 d | 18/2/2010 | 28/2/2010 | 18/2/2010 | 28/2/2010 | | | | | | | |
| 1127 | G500 toe in front of gabion | 2 d | 20/2/2010 | 22/2/2010 | 20/2/2010 | 22/2/2010 | | | | | | | |
| 1128 | Trench excavation and replacing grade 200 | 2 d | 14/2/2010 | 16/2/2010 | 14/2/2010 | 16/2/2010 | | | | | | | |
| 1129 | Formation of gabion wall with G200 | 3 d | 17/2/2010 | 20/2/2010 | 17/2/2010 | 20/2/2010 | | | | | | | |
| 1130 | 1st layer - 4th layer (ch 180-185 LHS) | 3 d | 20/2/2010 | 23/2/2010 | 20/2/2010 | 23/2/2010 | | | | | | | |
| 1131 | G500 toe in front of gabion | 1 d | 24/2/2010 | 24/2/2010 | 24/2/2010 | 24/2/2010 | | | | | | | |
| 1132 | Formwork | 3 d | 1/3/2011 | 3/3/2011 | 1/3/2011 | 3/3/2011 | | | | | | | |
| 1133 | Formwork and rebar fixing | 5 d | 4/3/2011 | 9/3/2011 | 4/3/2011 | 9/3/2011 | | | | | | | |
| 1134 | Concreting | 2 d | 11/3/2011 | 13/3/2011 | 11/3/2011 | 13/3/2011 | | | | | | | |
| 1135 | Stripping off formwork | 3 d | 14/3/2011 | 17/3/2011 | 14/3/2011 | 17/3/2011 | | | | | | | |
| 1136 | Trench excavation and replacing grade 200 | 42 d | 18/2/2010 | 19/3/2010 | 18/2/2010 | 19/3/2010 | | | | | | | |
| 1137 | Formation of gabion wall with G200 | 15 d | 12/2/2010 | 27/2/2010 | 12/2/2010 | 27/2/2010 | | | | | | | |
| 1138 | 1st layer - 5th layer (ch 185-210 LHS) | 20 d | 15/2/2010 | 19/3/2010 | 15/2/2010 | 19/3/2010 | | | | | | | |
| 1139 | G500 toe in front of gabion | 4 d | 11/3/2010 | 15/3/2010 | 11/3/2010 | 15/3/2010 | | | | | | | |
| 1140 | Footbridge T03 (ch 210) | 788 d | 11/12/2008 | 17/12/2011 | 11/12/2008 | 17/12/2011 | | | | | | | |
| 1141 | Final pt. LHS | 2 d | 11/12/2008 | 13/12/2008 | 11/12/2008 | 13/12/2008 | | | | | | | |
| 1142 | Bulk excavation for footing (Abutment A) | 6 d | 14/2/2009 | 19/2/2009 | 14/2/2009 | 19/2/2009 | | | | | | | |
| 1143 | Formation - Abutment A | 1 d | 20/2/2009 | 21/2/2009 | 20/2/2009 | 21/2/2009 | | | | | | | |
| 1144 | Formwork and rebar fixing (Abutment A, footing) | 3 d | 23/2/2009 | 26/2/2009 | 23/2/2009 | 26/2/2009 | | | | | | | |
| 1145 | Concreting the footing (Abutment A) | 1 d | 27/2/2009 | 28/2/2009 | 27/2/2009 | 28/2/2009 | | | | | | | |
| 1146 | Stripping off the formwork (footing) and reworking (Abutment A) | 2 d | 29/2/2009 | 31/2/2009 | 29/2/2009 | 31/2/2009 | | | | | | | |
| 1147 | Rebar fixing and shuttering formwork (Abutment A, wall) | 4 d | 3/3/2009 | 7/3/2009 | 3/3/2009 | 7/3/2009 | | | | | | | |
| 1148 | Concreting column, abutment A | 1 d | 8/3/2009 | 9/3/2009 | 8/3/2009 | 9/3/2009 | | | | | | | |
| 1149 | Stripping off formwork (column, abutment A) | 1 d | 10/3/2009 | 11/3/2009 | 10/3/2009 | 11/3/2009 | | | | | | | |
| 1150 | Bulk excavation for footing (Abutment B) | 10 d | 21/12/2008 | 1/1/2009 | 21/12/2008 | 1/1/2009 | | | | | | | |
| 1151 | Formation - Abutment B | 4 d | 5/1/2009 | 9/1/2009 | 5/1/2009 | 9/1/2009 | | | | | | | |
| 1152 | Formwork and rebar fixing (Abutment B, footing) | 1 d | 10/1/2009 | 11/1/2009 | 10/1/2009 | 11/1/2009 | | | | | | | |
| 1153 | Concreting the footing (Abutment B) | 1 d | 12/1/2009 | 13/1/2009 | 12/1/2009 | 13/1/2009 | | | | | | | |
| 1154 | Stripping off the formwork (footing) and reworking (Abutment B) | 2 d | 14/1/2009 | 16/1/2009 | 14/1/2009 | 16/1/2009 | | | | | | | |
| 1155 | Rebar fixing and shuttering formwork (Abutment B, wall) | 2 d | 17/1/2009 | 19/1/2009 | 17/1/2009 | 19/1/2009 | | | | | | | |
| 1156 | Concreting column, abutment B | 1 d | 20/1/2009 | 21/1/2009 | 20/1/2009 | 21/1/2009 | | | | | | | |
| 1157 | Stripping off formwork (column, abutment B) | 1 d | 22/1/2009 | 23/1/2009 | 22/1/2009 | 23/1/2009 | | | | | | | |
| 1158 | Bulk excavation for footing (Abutment B) | 2 d | 24/1/2009 | 26/1/2009 | 24/1/2009 | 26/1/2009 | | | | | | | |
| 1159 | Formation - Abutment B | 2 d | 28/1/2009 | 30/1/2009 | 28/1/2009 | 30/1/2009 | | | | | | | |
| 1160 | Formwork and rebar fixing for footing | 2 d | 31/1/2009 | 2/2/2009 | 31/1/2009 | 2/2/2009 | | | | | | | |
| 1161 | Concreting (footing) | 2 d | 3/2/2009 | 5/2/2009 | 3/2/2009 | 5/2/2009 | | | | | | | |
| 1162 | Stripping off formwork (footing) | 3 d | 7/2/2009 | 10/2/2009 | 7/2/2009 | 10/2/2009 | | | | | | | |
| 1163 | Rebar installation (footing) | 5 d | 13/2/2009 | 18/2/2009 | 13/2/2009 | 18/2/2009 | | | | | | | |
| 1164 | Formwork and rebar fixing for footing | 3 d | 16/2/2009 | 19/2/2009 | 16/2/2009 | 19/2/2009 | | | | | | | |
| 1165 | Concreting column, abutment B | 1 d | 20/2/2009 | 21/2/2009 | 20/2/2009 | 21/2/2009 | | | | | | | |
| 1166 | Stripping off formwork (column, abutment B) | 1 d | 22/2/2009 | 23/2/2009 | 22/2/2009 | 23/2/2009 | | | | | | | |
| 1167 | Bulk excavation for footing (Abutment B) | 8 d | 10/12/2008 | 18/12/2008 | 10/12/2008 | 18/12/2008 | | | | | | | |
| 1168 | Formation of gabion wall | 1 d | 17/12/2008 | 18/12/2008 | 17/12/2008 | 18/12/2008 | | | | | | | |
| 1169 | Fabrication of gabion units | 14 d | 21/12/2008 | 4/1/2009 | 21/12/2008 | 4/1/2009 | | | | | | | |
| 1170 | 1st layer (ch 215-220 LHS) | 1 d | 21/12/2008 | 22/12/2008 | 21/12/2008 | 22/12/2008 | | | | | | | |
| 1171 | 2nd layer (ch 215-220 LHS) | 3 d | 24/12/2008 | 27/12/2008 | 24/12/2008 | 27/12/2008 | | | | | | | |
| 1172 | 3rd layer (ch 215-220 LHS) | 1 d | 28/12/2008 | 29/12/2008 | 28/12/2008 | 29/12/2008 | | | | | | | |
| 1173 | 4th layer (ch 215-220 LHS) | 1 d | 30/12/2008 | 31/12/2008 | 30/12/2008 | 31/12/2008 | | | | | | | |
| 1174 | Trench excavation and replacing grade 200 | 42 d | 18/2/2010 | 19/3/2010 | 18/2/2010 | 19/3/2010 | | | | | | | |
| 1175 | Formation of gabion wall with G200 | 15 d | 12/2/2010 | 27/2/2010 | 12/2/2010 | 27/2/2010 | | | | | | | |
| 1176 | 1st layer - 5th layer (ch 185-215 LHS) | 20 d | 15/2/2010 | 19/3/2010 | 15/2/2010 | 19/3/2010 | | | | | | | |
| 1177 | G500 toe in front of gabion | 2 d | 11/3/2010 | 13/3/2010 | 11/3/2010 | 13/3/2010 | | | | | | | |
| 1178 | Area N | 1028 d | 28/5/2008 | 20/2/2011 | 28/5/2008 | 20/2/2011 | | | | | | | |



Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 06)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1241 | Stripping off formwork (wall stem) | 2 d | 11/12/2010 | 12/12/2010 | 11/12/2010 | 12/12/2010 | | | | | | | |
| 1242 | Formwork and rebar tying (wall stem) | 10 d | 13/12/2010 | 23/12/2010 | 13/12/2010 | 23/12/2010 | | | | | | | |
| 1243 | Concreting (wall stem) | 2 d | 23/12/2010 | 24/12/2010 | 23/12/2010 | 24/12/2010 | | | | | | | |
| 1244 | Stripping off formwork (wall stem) | 3 d | 25/12/2010 | 27/12/2010 | 25/12/2010 | 27/12/2010 | | | | | | | |
| 1245 | Step 3 (ch 305) (1.4m) | 14 d | 1/1/2011 | 14/1/2011 | 1/1/2011 | 14/1/2011 | | | | | | | |
| 1246 | Formation | 5 d | 1/1/2011 | 5/1/2011 | 1/1/2011 | 5/1/2011 | | | | | | | |
| 1247 | Formwork and rebar tying | 5 d | 4/1/2011 | 9/1/2011 | 4/1/2011 | 9/1/2011 | | | | | | | |
| 1248 | Concreting | 3 d | 10/1/2011 | 13/1/2011 | 10/1/2011 | 13/1/2011 | | | | | | | |
| 1249 | Stripping off formwork | 3 d | 12/1/2011 | 14/1/2011 | 12/1/2011 | 14/1/2011 | | | | | | | |
| 1250 | Maintenance Structure (ch 315 LHS) | 6 d | 1/2/2011 | 6/2/2011 | 1/2/2011 | 6/2/2011 | | | | | | | |
| 1251 | Formwork and concreting | 5 d | 1/2/2011 | 6/2/2011 | 1/2/2011 | 6/2/2011 | | | | | | | |
| 1252 | Gabion (ch 316-320 LHS) (G2 replaced AD1) | 5 d | 2/2/2011 | 7/2/2011 | 2/2/2011 | 7/2/2011 | | | | | | | |
| 1253 | Trench excavation and replacing grade 200 | 2 d | 11/2/2011 | 12/2/2011 | 11/2/2011 | 12/2/2011 | | | | | | | |
| 1254 | Formation of gabion wall with G200 | 10 d | 13/2/2011 | 23/2/2011 | 13/2/2011 | 23/2/2011 | | | | | | | |
| 1255 | 1st layer - 5th layer (ch 315-330 LHS) | 3 d | 23/2/2011 | 26/2/2011 | 23/2/2011 | 26/2/2011 | | | | | | | |
| 1256 | Grid 100 lay in front of gabion | 3 d | 26/2/2011 | 29/2/2011 | 26/2/2011 | 29/2/2011 | | | | | | | |
| 1257 | Retaining Wall (ch 316-320 RHS) (R1 replaced by AD1) | 37 d | 1/11/2010 | 27/12/2010 | 1/11/2010 | 27/12/2010 | | | | | | | |
| 1258 | Bulk excavation | 20 d | 1/11/2010 | 21/11/2010 | 1/11/2010 | 21/11/2010 | | | | | | | |
| 1259 | Formation | 5 d | 21/11/2010 | 26/11/2010 | 21/11/2010 | 26/11/2010 | | | | | | | |
| 1260 | Formwork and rebar tying (base slab) | 12 d | 25/11/2010 | 7/12/2010 | 25/11/2010 | 7/12/2010 | | | | | | | |
| 1261 | Concreting (base slab) | 3 d | 6/12/2010 | 9/12/2010 | 6/12/2010 | 9/12/2010 | | | | | | | |
| 1262 | Stripping off formwork (wall stem) | 2 d | 11/12/2010 | 12/12/2010 | 11/12/2010 | 12/12/2010 | | | | | | | |
| 1263 | Formwork and rebar tying (wall stem) | 10 d | 13/12/2010 | 23/12/2010 | 13/12/2010 | 23/12/2010 | | | | | | | |
| 1264 | Concreting (wall stem) | 3 d | 23/12/2010 | 26/12/2010 | 23/12/2010 | 26/12/2010 | | | | | | | |
| 1265 | Stripping off formwork (wall stem) | 2 d | 26/12/2010 | 27/12/2010 | 26/12/2010 | 27/12/2010 | | | | | | | |
| 1266 | Demolition of existing Footbridge TB-A (ch 325) | 12 d | 1/11/2010 | 13/11/2010 | 1/11/2010 | 13/11/2010 | | | | | | | |
| 1267 | Demolition works | 321 d | 1/12/2010 | 19/12/2010 | 1/12/2010 | 19/12/2010 | | | | | | | |
| 1268 | Footbridge TB04 (ch 336) | 10 d | 1/12/2010 | 11/12/2010 | 1/12/2010 | 11/12/2010 | | | | | | | |
| 1269 | Bulk excavation for footing (Abutment A) | 1 d | 1/12/2010 | 2/12/2010 | 1/12/2010 | 2/12/2010 | | | | | | | |
| 1270 | Formation - Abutment A | 1 d | 2/12/2010 | 3/12/2010 | 2/12/2010 | 3/12/2010 | | | | | | | |
| 1271 | Formwork and rebar tying (Abutment A footing) | 5 d | 12/12/2010 | 17/12/2010 | 12/12/2010 | 17/12/2010 | | | | | | | |
| 1272 | Concreting (Abutment A footing) | 1 d | 17/12/2010 | 18/12/2010 | 17/12/2010 | 18/12/2010 | | | | | | | |
| 1273 | Stripping off formwork (Abutment A footing) | 3 d | 18/12/2010 | 21/12/2010 | 18/12/2010 | 21/12/2010 | | | | | | | |
| 1274 | Rebar tying and shuttering formwork (Abutment A column) | 5 d | 21/12/2010 | 26/12/2010 | 21/12/2010 | 26/12/2010 | | | | | | | |
| 1275 | Stripping off formwork (Abutment A column) | 1 d | 26/12/2010 | 27/12/2010 | 26/12/2010 | 27/12/2010 | | | | | | | |
| 1276 | Bulk excavation for footing (Abutment B) | 10 d | 15/12/2010 | 25/12/2010 | 15/12/2010 | 25/12/2010 | | | | | | | |
| 1277 | Formation - Abutment B | 1 d | 25/12/2010 | 26/12/2010 | 25/12/2010 | 26/12/2010 | | | | | | | |
| 1278 | Formwork and rebar tying (Abutment B footing) | 1 d | 26/12/2010 | 27/12/2010 | 26/12/2010 | 27/12/2010 | | | | | | | |
| 1279 | Concreting (Abutment B footing) | 3 d | 28/12/2010 | 30/12/2010 | 28/12/2010 | 30/12/2010 | | | | | | | |
| 1280 | Stripping off formwork (Abutment B footing) | 3 d | 31/12/2010 | 2/1/2011 | 31/12/2010 | 2/1/2011 | | | | | | | |
| 1281 | Rebar tying and shuttering formwork (Abutment B column) | 5 d | 7/1/2011 | 12/1/2011 | 7/1/2011 | 12/1/2011 | | | | | | | |
| 1282 | Stripping off formwork (Abutment B column) | 1 d | 12/1/2011 | 13/1/2011 | 12/1/2011 | 13/1/2011 | | | | | | | |
| 1283 | Concreting (Abutment B column) | 3 d | 13/1/2011 | 16/1/2011 | 13/1/2011 | 16/1/2011 | | | | | | | |
| 1284 | Stripping off formwork (Abutment B column) | 3 d | 16/1/2011 | 19/1/2011 | 16/1/2011 | 19/1/2011 | | | | | | | |
| 1285 | Formwork and rebar tying for stacking | 20 d | 2/11/2010 | 21/11/2010 | 2/11/2010 | 21/11/2010 | | | | | | | |
| 1286 | Concreting (stacking) | 3 d | 11/12/2010 | 14/12/2010 | 11/12/2010 | 14/12/2010 | | | | | | | |
| 1287 | Stripping off formwork (stacking) | 5 d | 14/12/2010 | 19/12/2010 | 14/12/2010 | 19/12/2010 | | | | | | | |
| 1288 | Railing installation (stacking) | 372 d | 6/2/2011 | 14/2/2011 | 6/2/2011 | 14/2/2011 | | | | | | | |
| 1289 | Gabion (ch 330-345 LHS) T02 (replaced AD1) | 65 d | 21/2/2011 | 25/1/2011 | 21/2/2011 | 25/1/2011 | | | | | | | |
| 1290 | Trench excavation and replacing grade 200 | 40 d | 21/2/2011 | 10/3/2011 | 21/2/2011 | 10/3/2011 | | | | | | | |
| 1291 | Formation of gabion wall with G200 | 2 d | 11/3/2011 | 12/3/2011 | 11/3/2011 | 12/3/2011 | | | | | | | |
| 1292 | 1st layer - 5th layer (ch 340-345 LHS) | 10 d | 13/3/2011 | 22/3/2011 | 13/3/2011 | 22/3/2011 | | | | | | | |
| 1293 | G200 lay in front of gabion | 3 d | 25/3/2011 | 28/3/2011 | 25/3/2011 | 28/3/2011 | | | | | | | |
| 1294 | Formation | 14 d | 1/2/2011 | 14/2/2011 | 1/2/2011 | 14/2/2011 | | | | | | | |
| 1295 | Formwork and rebar tying | 3 d | 1/2/2011 | 3/2/2011 | 1/2/2011 | 3/2/2011 | | | | | | | |
| 1296 | Concreting | 5 d | 4/2/2011 | 9/2/2011 | 4/2/2011 | 9/2/2011 | | | | | | | |
| 1297 | Stripping off formwork | 3 d | 12/2/2011 | 15/2/2011 | 12/2/2011 | 15/2/2011 | | | | | | | |
| 1298 | Retaining Wall (ch 346-350 LHS) TR1 (replaced by AD1) | 47 d | 1/2/2011 | 16/4/2011 | 1/2/2011 | 16/4/2011 | | | | | | | |
| 1299 | Bulk excavation | 10 d | 1/2/2011 | 11/2/2011 | 1/2/2011 | 11/2/2011 | | | | | | | |
| 1300 | Formation | 5 d | 11/2/2011 | 16/2/2011 | 11/2/2011 | 16/2/2011 | | | | | | | |



Project: Revised M. Prog (Rev 03)
 Data Date: Aug 2009
 Consultant: AECOM

Task: Task Progress Critical Task
 Milestone: Milestone Summary
 Rolled Up Task: Rolled Up Task Rolled Up Milestone
 Rolled Up Progress: Rolled Up Progress Split External Tasks
 PTASK: PTASK

Drainage Services Department

Contract No. DC/2007/005 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1303 | Formwork and rebar fixing (base slab) | 12 d | 15/12/2010 | 27/12/2010 | 16/12/2010 | 27/12/2010 | | | | | | | |
| 1304 | Concreting (base slab) | 3 d | 28/12/2010 | 30/12/2010 | 28/12/2010 | 30/12/2010 | | | | | | | |
| 1305 | Stripping off formwork (wall stem) | 2 d | 31/12/2010 | 1/1/2011 | 31/12/2010 | 1/1/2011 | | | | | | | |
| 1306 | Formwork and rebar fixing (wall stem) | 10 d | 2/1/2011 | 11/1/2011 | 2/1/2011 | 11/1/2011 | | | | | | | |
| 1307 | Concreting (wall stem) | 2 d | 12/1/2011 | 13/1/2011 | 12/1/2011 | 13/1/2011 | | | | | | | |
| 1308 | Stripping off formwork (wall stem) | 3 d | 14/1/2011 | 16/1/2011 | 14/1/2011 | 16/1/2011 | | | | | | | |
| 1309 | Demolition of existing Footbridge TB-B (ch 350) | 12 d | 11/1/2011 | 23/1/2011 | 11/1/2011 | 23/1/2011 | | | | | | | |
| 1310 | Demolition works | 12 d | 11/1/2011 | 23/1/2011 | 11/1/2011 | 23/1/2011 | | | | | | | |
| 1311 | Footbridge TBAS (ch 350) | 31 d | 9/2/2011 | 18/3/2011 | 9/2/2011 | 18/3/2011 | | | | | | | |
| 1312 | Bulk excavation for footing (Abutment A) | 10 d | 9/2/2011 | 19/2/2011 | 9/2/2011 | 19/2/2011 | | | | | | | |
| 1313 | Formation - Abutment A | 1 d | 19/2/2011 | 19/2/2011 | 19/2/2011 | 19/2/2011 | | | | | | | |
| 1314 | Formwork and rebar fixing (Abutment A, footing) | 5 d | 19/2/2011 | 24/2/2011 | 19/2/2011 | 24/2/2011 | | | | | | | |
| 1315 | Concreting (Abutment A, footing) | 1 d | 24/2/2011 | 24/2/2011 | 24/2/2011 | 24/2/2011 | | | | | | | |
| 1316 | Stripping off formwork (Abutment A, footing) | 3 d | 26/2/2011 | 29/2/2011 | 26/2/2011 | 29/2/2011 | | | | | | | |
| 1317 | Rebar fixing and shuttering formwork (Abutment A, column) | 5 d | 29/2/2011 | 4/3/2011 | 29/2/2011 | 4/3/2011 | | | | | | | |
| 1318 | Concreting (Abutment A, column) | 1 d | 5/3/2011 | 5/3/2011 | 5/3/2011 | 5/3/2011 | | | | | | | |
| 1319 | Stripping off formwork (Abutment A, column) | 3 d | 6/3/2011 | 8/3/2011 | 6/3/2011 | 8/3/2011 | | | | | | | |
| 1320 | Bulk excavation for footing (Abutment B) | 10 d | 27/2/2011 | 7/3/2011 | 27/2/2011 | 7/3/2011 | | | | | | | |
| 1321 | Formation - Abutment B | 1 d | 4/3/2011 | 4/3/2011 | 4/3/2011 | 4/3/2011 | | | | | | | |
| 1322 | Formwork and rebar fixing (Abutment B, footing) | 5 d | 5/3/2011 | 9/3/2011 | 5/3/2011 | 9/3/2011 | | | | | | | |
| 1323 | Concreting (Abutment B, footing) | 1 d | 10/3/2011 | 10/3/2011 | 10/3/2011 | 10/3/2011 | | | | | | | |
| 1324 | Stripping off formwork (Abutment B, footing) | 3 d | 11/3/2011 | 14/3/2011 | 11/3/2011 | 14/3/2011 | | | | | | | |
| 1325 | Rebar fixing and shuttering formwork (Abutment B, column) | 5 d | 14/3/2011 | 19/3/2011 | 14/3/2011 | 19/3/2011 | | | | | | | |
| 1326 | Concreting (Abutment B, column) | 1 d | 19/3/2011 | 19/3/2011 | 19/3/2011 | 19/3/2011 | | | | | | | |
| 1327 | Stripping off formwork (Abutment B, column) | 3 d | 20/3/2011 | 23/3/2011 | 20/3/2011 | 23/3/2011 | | | | | | | |
| 1328 | Formwork and rebar fixing for decking | 20 d | 11/1/2011 | 30/1/2011 | 11/1/2011 | 30/1/2011 | | | | | | | |
| 1329 | Concreting (decking) | 20 d | 11/1/2011 | 30/1/2011 | 11/1/2011 | 30/1/2011 | | | | | | | |
| 1330 | Stripping off formwork (decking) | 3 d | 11/2/2011 | 14/2/2011 | 11/2/2011 | 14/2/2011 | | | | | | | |
| 1331 | Rebar installation (decking) | 5 d | 14/2/2011 | 19/2/2011 | 14/2/2011 | 19/2/2011 | | | | | | | |
| 1332 | Ch 360-400 | 410 d | 2/1/2011 | 15/2/2011 | 2/1/2011 | 15/2/2011 | | | | | | | |
| 1333 | Retaining Wall (ch 360-400 LHS) TR1 (replaced by AD1) | 77 d | 1/2/2011 | 1/2/2011 | 1/2/2011 | 1/2/2011 | | | | | | | |
| 1334 | Bulk excavation | 40 d | 1/2/2011 | 1/2/2011 | 1/2/2011 | 1/2/2011 | | | | | | | |
| 1335 | Formation | 5 d | 10/2/2011 | 14/2/2011 | 10/2/2011 | 14/2/2011 | | | | | | | |
| 1336 | Formwork and rebar fixing (base slab) | 12 d | 5/1/2011 | 17/1/2011 | 5/1/2011 | 17/1/2011 | | | | | | | |
| 1337 | Concreting (base slab) | 3 d | 27/1/2011 | 29/1/2011 | 27/1/2011 | 29/1/2011 | | | | | | | |
| 1338 | Stripping off formwork (wall stem) | 2 d | 30/1/2011 | 31/1/2011 | 30/1/2011 | 31/1/2011 | | | | | | | |
| 1339 | Formwork and rebar fixing (wall stem) | 10 d | 1/2/2011 | 11/2/2011 | 1/2/2011 | 11/2/2011 | | | | | | | |
| 1340 | Concreting (wall stem) | 3 d | 13/2/2011 | 16/2/2011 | 13/2/2011 | 16/2/2011 | | | | | | | |
| 1341 | Stripping off formwork (wall stem) | 77 d | 1/1/2011 | 18/1/2011 | 1/1/2011 | 18/1/2011 | | | | | | | |
| 1342 | Retaining Wall (ch 360-400 RHS) TR1 (replaced by AD1) | 40 d | 1/1/2011 | 1/1/2011 | 1/1/2011 | 1/1/2011 | | | | | | | |
| 1343 | Bulk excavation | 5 d | 1/1/2011 | 6/1/2011 | 1/1/2011 | 6/1/2011 | | | | | | | |
| 1344 | Formation | 2 d | 30/1/2011 | 31/1/2011 | 30/1/2011 | 31/1/2011 | | | | | | | |
| 1345 | Formwork and rebar fixing (base slab) | 12 d | 1/2/2011 | 13/2/2011 | 1/2/2011 | 13/2/2011 | | | | | | | |
| 1346 | Concreting (base slab) | 3 d | 24/1/2011 | 27/1/2011 | 24/1/2011 | 27/1/2011 | | | | | | | |
| 1347 | Stripping off formwork (wall stem) | 2 d | 28/1/2011 | 29/1/2011 | 28/1/2011 | 29/1/2011 | | | | | | | |
| 1348 | Formwork and rebar fixing (wall stem) | 10 d | 1/2/2011 | 11/2/2011 | 1/2/2011 | 11/2/2011 | | | | | | | |
| 1349 | Concreting (wall stem) | 3 d | 13/2/2011 | 16/2/2011 | 13/2/2011 | 16/2/2011 | | | | | | | |
| 1350 | Stripping off formwork (wall stem) | 77 d | 1/1/2011 | 18/1/2011 | 1/1/2011 | 18/1/2011 | | | | | | | |
| 1351 | Demolition of existing Footbridge TB-C (ch 380) | 40 d | 1/1/2011 | 1/1/2011 | 1/1/2011 | 1/1/2011 | | | | | | | |
| 1352 | Demolition works | 12 d | 1/1/2011 | 13/1/2011 | 1/1/2011 | 13/1/2011 | | | | | | | |
| 1353 | Step 5 (ch 400) (1.4m) | 14 d | 1/2/2011 | 15/2/2011 | 1/2/2011 | 15/2/2011 | | | | | | | |
| 1354 | Formation | 3 d | 1/2/2011 | 4/2/2011 | 1/2/2011 | 4/2/2011 | | | | | | | |
| 1355 | Formwork and rebar fixing | 6 d | 4/2/2011 | 10/2/2011 | 4/2/2011 | 10/2/2011 | | | | | | | |
| 1356 | Concreting | 2 d | 10/2/2011 | 12/2/2011 | 10/2/2011 | 12/2/2011 | | | | | | | |
| 1357 | Stripping off formwork | 3 d | 15/2/2011 | 18/2/2011 | 15/2/2011 | 18/2/2011 | | | | | | | |
| 1358 | Footbridge TBDE (ch 400) | 381 d | 15/2/2011 | 15/2/2011 | 15/2/2011 | 15/2/2011 | | | | | | | |
| 1359 | Bulk excavation for footing (Abutment A) | 10 d | 15/2/2011 | 25/2/2011 | 15/2/2011 | 25/2/2011 | | | | | | | |
| 1360 | Formation - Abutment A | 1 d | 25/2/2011 | 25/2/2011 | 25/2/2011 | 25/2/2011 | | | | | | | |
| 1361 | Formwork and rebar fixing (Abutment A, footing) | 5 d | 26/2/2011 | 30/2/2011 | 26/2/2011 | 30/2/2011 | | | | | | | |
| 1362 | Concreting (Abutment A, footing) | 1 d | 31/2/2011 | 31/2/2011 | 31/2/2011 | 31/2/2011 | | | | | | | |
| 1363 | Stripping off formwork (Abutment A, footing) | 3 d | 1/3/2011 | 3/3/2011 | 1/3/2011 | 3/3/2011 | | | | | | | |
| 1364 | Rebar fixing and shuttering formwork (Abutment A, column) | 3 d | 4/3/2011 | 7/3/2011 | 4/3/2011 | 7/3/2011 | | | | | | | |

Project: Revised M. Prog (Rev.08) Roll Up Progress
 Data Date: Aug 2009 Roll Up Critical Task
 Consultant: AECOM Roll Up Milestone
Roll Up External Tasks

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, Sha Shin River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|--|----------|-------------|--------------|-----------|-----------|------|------|------|------|------|------|------|
| 1365 | Concreting (Abutment A, column) | 1 d | 9/2/2010 | 9/2/2010 | 9/2/2010 | 9/2/2010 | | | | | | | |
| 1366 | Stripping off formwork (Abutment A, column) | 3 d | 10/2/2010 | 12/2/2010 | 10/2/2010 | 12/2/2010 | | | | | | | |
| 1367 | Bulk excavation for footing (Abutment B) | 10 d | 2/1/2010 | 11/1/2010 | 2/1/2010 | 11/1/2010 | | | | | | | |
| 1368 | Formwork - Abutment B | 1 d | 12/1/2010 | 12/1/2010 | 12/1/2010 | 12/1/2010 | | | | | | | |
| 1369 | Formwork and rebar fixing (Abutment B, footing) | 5 d | 13/1/2010 | 17/1/2010 | 13/1/2010 | 17/1/2010 | | | | | | | |
| 1370 | Concreting (Abutment B, footing) | 1 d | 18/1/2010 | 18/1/2010 | 18/1/2010 | 18/1/2010 | | | | | | | |
| 1371 | Stripping off formwork (Abutment B, footing) | 2 d | 19/1/2010 | 21/1/2010 | 19/1/2010 | 21/1/2010 | | | | | | | |
| 1372 | Rebar fixing and shuffling formwork (Abutment B, column) | 6 d | 22/1/2010 | 28/1/2010 | 22/1/2010 | 28/1/2010 | | | | | | | |
| 1373 | Concreting (Abutment B, column) | 1 d | 27/1/2010 | 27/1/2010 | 27/1/2010 | 27/1/2010 | | | | | | | |
| 1374 | Stripping off formwork (Abutment B, column) | 3 d | 28/1/2010 | 30/1/2010 | 28/1/2010 | 30/1/2010 | | | | | | | |
| 1375 | Formwork and rebar fixing for decking | 20 d | 2/1/2010 | 20/1/2010 | 2/1/2010 | 20/1/2010 | | | | | | | |
| 1376 | Concreting (decking) | 20 d | 2/1/2010 | 20/1/2010 | 2/1/2010 | 20/1/2010 | | | | | | | |
| 1377 | Stripping off formwork (decking) | 3 d | 1/1/2011 | 3/1/2011 | 1/1/2011 | 3/1/2011 | | | | | | | |
| 1378 | Rebar installation (decking) | 5 d | 3/1/2011 | 7/1/2011 | 3/1/2011 | 7/1/2011 | | | | | | | |
| 1379 | Ch 400-525 | 487 d | 9/1/2009 | 26/3/2011 | 9/1/2009 | 26/3/2011 | | | | | | | |
| 1380 | Retaining Wall (ch 400-420 LHS) TR1 (replaced by AD1) | 87 d | 1/1/2010 | 5/1/2010 | 1/1/2010 | 5/1/2010 | | | | | | | |
| 1381 | Bulk excavation | 9 d | 1/1/2010 | 10/1/2010 | 1/1/2010 | 10/1/2010 | | | | | | | |
| 1382 | Formwork | 5 d | 1/1/2010 | 6/1/2010 | 1/1/2010 | 6/1/2010 | | | | | | | |
| 1383 | Formwork and rebar fixing (base slab) | 12 d | 1/1/2010 | 13/1/2010 | 1/1/2010 | 13/1/2010 | | | | | | | |
| 1384 | Concreting (base slab) | 5 d | 6/1/2010 | 11/1/2010 | 6/1/2010 | 11/1/2010 | | | | | | | |
| 1385 | Stripping off formwork (wall stem) | 2 d | 11/1/2010 | 13/1/2010 | 11/1/2010 | 13/1/2010 | | | | | | | |
| 1386 | Formwork and rebar fixing (wall stem) | 10 d | 23/1/2010 | 3/2/2010 | 23/1/2010 | 3/2/2010 | | | | | | | |
| 1387 | Concreting (wall stem) | 2 d | 2/2/2010 | 4/2/2010 | 2/2/2010 | 4/2/2010 | | | | | | | |
| 1388 | Stripping off formwork (wall stem) | 3 d | 4/2/2010 | 7/2/2010 | 4/2/2010 | 7/2/2010 | | | | | | | |
| 1389 | Formwork | 72 d | 1/1/2010 | 1/1/2011 | 1/1/2010 | 1/1/2011 | | | | | | | |
| 1390 | Bulk excavation | 35 d | 1/1/2010 | 3/2/2010 | 1/1/2010 | 3/2/2010 | | | | | | | |
| 1391 | Formwork and rebar fixing (base slab) | 5 d | 8/2/2010 | 13/2/2010 | 8/2/2010 | 13/2/2010 | | | | | | | |
| 1392 | Concreting (base slab) | 12 d | 11/2/2010 | 22/2/2010 | 11/2/2010 | 22/2/2010 | | | | | | | |
| 1393 | Stripping off formwork (wall stem) | 3 d | 23/2/2010 | 26/2/2010 | 23/2/2010 | 26/2/2010 | | | | | | | |
| 1394 | Formwork and rebar fixing (wall stem) | 3 d | 26/2/2010 | 29/2/2010 | 26/2/2010 | 29/2/2010 | | | | | | | |
| 1395 | Concreting (wall stem) | 10 d | 29/2/2010 | 8/3/2010 | 29/2/2010 | 8/3/2010 | | | | | | | |
| 1396 | Stripping off formwork (wall stem) | 2 d | 7/3/2010 | 9/3/2010 | 7/3/2010 | 9/3/2010 | | | | | | | |
| 1397 | Formwork | 3 d | 8/3/2010 | 11/3/2010 | 8/3/2010 | 11/3/2010 | | | | | | | |
| 1398 | Formwork and rebar fixing (wall stem) | 6 d | 12/3/2010 | 18/3/2010 | 12/3/2010 | 18/3/2010 | | | | | | | |
| 1399 | Concreting (wall stem) | 65 d | 21/3/2010 | 4/2/2011 | 21/3/2010 | 4/2/2011 | | | | | | | |
| 1400 | Stripping off formwork (wall stem) | 50 d | 21/3/2010 | 20/4/2011 | 21/3/2010 | 20/4/2011 | | | | | | | |
| 1401 | Trench excavation and replacing grade 200 | 2 d | 2/4/2011 | 2/4/2011 | 2/4/2011 | 2/4/2011 | | | | | | | |
| 1402 | Formation of 900mm well with C200 | 10 d | 23/4/2011 | 1/5/2011 | 23/4/2011 | 1/5/2011 | | | | | | | |
| 1403 | 1st layer - 2in layer (ch 420-430 LHS) | 3 d | 23/4/2011 | 26/4/2011 | 23/4/2011 | 26/4/2011 | | | | | | | |
| 1404 | C500 toe in front of pilecap | 3 d | 29/4/2011 | 3/5/2011 | 29/4/2011 | 3/5/2011 | | | | | | | |
| 1405 | Retaining Wall (ch 435-450 RHS) TR2 (replaced by AD1) | 67 d | 15/1/2010 | 20/3/2011 | 15/1/2010 | 20/3/2011 | | | | | | | |
| 1406 | Bulk excavation | 30 d | 15/1/2010 | 14/2/2010 | 15/1/2010 | 14/2/2010 | | | | | | | |
| 1407 | Formation | 12 d | 15/2/2010 | 19/2/2010 | 15/2/2010 | 19/2/2010 | | | | | | | |
| 1408 | Formwork and rebar fixing (base slab) | 3 d | 20/2/2010 | 23/2/2010 | 20/2/2010 | 23/2/2010 | | | | | | | |
| 1409 | Concreting (base slab) | 2 d | 4/3/2010 | 5/3/2010 | 4/3/2010 | 5/3/2010 | | | | | | | |
| 1410 | Stripping off formwork (wall stem) | 10 d | 8/3/2010 | 18/3/2010 | 8/3/2010 | 18/3/2010 | | | | | | | |
| 1411 | Formwork and rebar fixing (wall stem) | 3 d | 8/3/2010 | 11/3/2010 | 8/3/2010 | 11/3/2010 | | | | | | | |
| 1412 | Concreting (wall stem) | 2 d | 18/3/2010 | 20/3/2010 | 18/3/2010 | 20/3/2010 | | | | | | | |
| 1413 | Stripping off formwork (wall stem) | 38 d | 1/4/2010 | 8/1/2010 | 1/4/2010 | 8/1/2010 | | | | | | | |
| 1414 | Box Culvert TB01 (ch 460) | 10 d | 1/4/2010 | 11/4/2010 | 1/4/2010 | 11/4/2010 | | | | | | | |
| 1415 | Bulk excavation | 10 d | 1/4/2010 | 11/4/2010 | 1/4/2010 | 11/4/2010 | | | | | | | |
| 1416 | Formation of box culvert | 3 d | 1/4/2010 | 4/4/2010 | 1/4/2010 | 4/4/2010 | | | | | | | |
| 1417 | Formwork and rebar fixing (base slab) | 3 d | 4/4/2010 | 7/4/2010 | 4/4/2010 | 7/4/2010 | | | | | | | |
| 1418 | Concreting (base slab) | 5 d | 14/4/2010 | 19/4/2010 | 14/4/2010 | 19/4/2010 | | | | | | | |
| 1419 | Stripping off formwork (base slab) | 2 d | 18/4/2010 | 20/4/2010 | 18/4/2010 | 20/4/2010 | | | | | | | |
| 1420 | Formwork and rebar fixing (wall stem end roof slab) | 2 d | 21/4/2010 | 23/4/2010 | 21/4/2010 | 23/4/2010 | | | | | | | |
| 1421 | Concreting (wall stem end roof slab) | 12 d | 23/4/2010 | 5/5/2010 | 23/4/2010 | 5/5/2010 | | | | | | | |
| 1422 | Stripping off formwork | 3 d | 8/5/2010 | 11/5/2010 | 8/5/2010 | 11/5/2010 | | | | | | | |
| 1423 | Retaining Wall (ch 450-480 LHS) TR2 | 67 d | 1/4/2010 | 1/12/2010 | 1/4/2010 | 1/12/2010 | | | | | | | |
| 1424 | Bulk excavation | 5 d | 8/4/2010 | 13/4/2010 | 8/4/2010 | 13/4/2010 | | | | | | | |
| 1425 | Formation | 12 d | 8/4/2010 | 20/4/2010 | 8/4/2010 | 20/4/2010 | | | | | | | |
| 1426 | Formwork and rebar fixing (base slab) | 12 d | 8/4/2010 | 20/4/2010 | 8/4/2010 | 20/4/2010 | | | | | | | |

Project: Revised M. Prog (Rev.03)
 Date: Aug 2009
 Consultant: AECOM

Task: Task Progress Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Progress: Rolled Up Critical Task Rolled Up Milestone Rolled Up Summary
 Salt: External Task:

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1427 | Concreting (base slab) | 3 d | 17/12/2011 | 18/12/2011 | 17/12/2011 | 18/12/2011 | | | | | | | |
| 1428 | Stripping off formwork (wall stem) | 2 d | 21/12/2011 | 21/12/2011 | 21/12/2011 | 21/12/2011 | | | | | | | |
| 1429 | Formwork and rebar fixing (wall stem) | 10 d | 21/12/2011 | 23/12/2011 | 23/12/2011 | 23/12/2011 | | | | | | | |
| 1430 | Concreting (wall stem) | 2 d | 1/2/2012 | 2/2/2012 | 2/2/2012 | 2/2/2012 | | | | | | | |
| 1431 | Stripping off formwork (wall stem) | 3 d | 3/2/2012 | 5/2/2012 | 5/2/2012 | 5/2/2012 | | | | | | | |
| 1432 | Step 6 (ch. 480) (1.Dm) | 14 d | 1/2/2012 | 14/2/2012 | 14/2/2012 | 14/2/2012 | | | | | | | |
| 1433 | Formation | 3 d | 1/2/2012 | 3/2/2012 | 3/2/2012 | 3/2/2012 | | | | | | | |
| 1434 | Formwork and rebar fixing | 6 d | 1/2/2012 | 7/2/2012 | 7/2/2012 | 7/2/2012 | | | | | | | |
| 1435 | Formwork and rebar fixing | 6 d | 1/2/2012 | 7/2/2012 | 7/2/2012 | 7/2/2012 | | | | | | | |
| 1436 | Concreting | 2 d | 1/2/2012 | 3/2/2012 | 3/2/2012 | 3/2/2012 | | | | | | | |
| 1437 | Stripping off formwork | 3 d | 1/2/2012 | 4/2/2012 | 4/2/2012 | 4/2/2012 | | | | | | | |
| 1438 | Retaining Wall (ch. 480-500 UHS) TR2 | 57 d | 1/2/2012 | 28/1/2013 | 1/2/2012 | 28/1/2013 | | | | | | | |
| 1439 | Bulk excavation | 20 d | 1/2/2012 | 20/12/2012 | 1/12/2012 | 20/12/2012 | | | | | | | |
| 1440 | Formation | 5 d | 21/12/2012 | 25/12/2012 | 21/12/2012 | 25/12/2012 | | | | | | | |
| 1441 | Formwork and rebar fixing (base slab) | 2 d | 26/12/2012 | 28/12/2012 | 26/12/2012 | 28/12/2012 | | | | | | | |
| 1442 | Concreting (base slab) | 3 d | 29/12/2012 | 31/12/2012 | 29/12/2012 | 31/12/2012 | | | | | | | |
| 1443 | Stripping off formwork (wall stem) | 2 d | 1/1/2013 | 1/1/2013 | 1/1/2013 | 1/1/2013 | | | | | | | |
| 1444 | Formwork and rebar fixing (wall stem) | 10 d | 1/1/2013 | 11/1/2013 | 10/1/2013 | 11/1/2013 | | | | | | | |
| 1445 | Concreting (wall stem) | 2 d | 23/1/2013 | 23/1/2013 | 23/1/2013 | 23/1/2013 | | | | | | | |
| 1446 | Stripping off formwork (wall stem) | 3 d | 24/1/2013 | 26/1/2013 | 24/1/2013 | 26/1/2013 | | | | | | | |
| 1447 | Retaining Wall (ch. 450-500 RH5) TR2 | 87 d | 21/12/2012 | 26/2/2013 | 21/12/2012 | 26/2/2013 | | | | | | | |
| 1448 | Bulk excavation | 50 d | 21/12/2012 | 20/2/2013 | 21/12/2012 | 20/2/2013 | | | | | | | |
| 1449 | Formation | 5 d | 21/2/2013 | 25/2/2013 | 21/2/2013 | 25/2/2013 | | | | | | | |
| 1450 | Formwork and rebar fixing (base slab) | 3 d | 26/2/2013 | 28/2/2013 | 26/2/2013 | 28/2/2013 | | | | | | | |
| 1451 | Concreting (base slab) | 7 d | 10/3/2013 | 12/3/2013 | 10/3/2013 | 12/3/2013 | | | | | | | |
| 1452 | Stripping off formwork (wall stem) | 3 d | 14/3/2013 | 14/3/2013 | 14/3/2013 | 14/3/2013 | | | | | | | |
| 1453 | Formwork and rebar fixing (wall stem) | 10 d | 15/3/2013 | 24/3/2013 | 15/3/2013 | 24/3/2013 | | | | | | | |
| 1454 | Concreting (wall stem) | 2 d | 25/3/2013 | 26/3/2013 | 25/3/2013 | 26/3/2013 | | | | | | | |
| 1455 | Stripping off formwork (wall stem) | 3 d | 27/3/2013 | 29/3/2013 | 27/3/2013 | 29/3/2013 | | | | | | | |
| 1456 | Retaining Wall (ch. 500-530 LHS) TR3 | 57 d | 1/12/2012 | 26/1/2013 | 1/12/2012 | 26/1/2013 | | | | | | | |
| 1457 | Bulk excavation | 20 d | 1/12/2012 | 20/12/2012 | 1/12/2012 | 20/12/2012 | | | | | | | |
| 1458 | Formation | 5 d | 21/12/2012 | 25/12/2012 | 21/12/2012 | 25/12/2012 | | | | | | | |
| 1459 | Formwork and rebar fixing (base slab) | 3 d | 26/12/2012 | 28/12/2012 | 26/12/2012 | 28/12/2012 | | | | | | | |
| 1460 | Concreting (base slab) | 2 d | 1/1/2013 | 1/1/2013 | 1/1/2013 | 1/1/2013 | | | | | | | |
| 1461 | Stripping off formwork (wall stem) | 10 d | 1/1/2013 | 11/1/2013 | 1/1/2013 | 11/1/2013 | | | | | | | |
| 1462 | Formwork and rebar fixing (wall stem) | 2 d | 23/1/2013 | 23/1/2013 | 23/1/2013 | 23/1/2013 | | | | | | | |
| 1463 | Concreting (wall stem) | 3 d | 24/1/2013 | 26/1/2013 | 24/1/2013 | 26/1/2013 | | | | | | | |
| 1464 | Stripping off formwork (wall stem) | 67 d | 21/12/2012 | 16/2/2013 | 21/12/2012 | 16/2/2013 | | | | | | | |
| 1465 | Bulk excavation | 30 d | 21/12/2012 | 20/1/2013 | 21/12/2012 | 20/1/2013 | | | | | | | |
| 1466 | Formation | 5 d | 1/2/2013 | 5/2/2013 | 1/2/2013 | 5/2/2013 | | | | | | | |
| 1467 | Formwork and rebar fixing (base slab) | 12 d | 6/2/2013 | 17/2/2013 | 6/2/2013 | 17/2/2013 | | | | | | | |
| 1468 | Concreting (base slab) | 3 d | 18/2/2013 | 20/2/2013 | 18/2/2013 | 20/2/2013 | | | | | | | |
| 1469 | Stripping off formwork (wall stem) | 2 d | 21/2/2013 | 21/2/2013 | 21/2/2013 | 21/2/2013 | | | | | | | |
| 1470 | Formwork and rebar fixing (wall stem) | 13 d | 23/2/2013 | 4/3/2013 | 23/2/2013 | 4/3/2013 | | | | | | | |
| 1471 | Concreting (wall stem) | 2 d | 5/3/2013 | 6/3/2013 | 5/3/2013 | 6/3/2013 | | | | | | | |
| 1472 | Stripping off formwork (wall stem) | 3 d | 7/3/2013 | 9/3/2013 | 7/3/2013 | 9/3/2013 | | | | | | | |
| 1473 | Demolition of existing Footbridge T-B (ch. 625) | 12 d | 1/1/2013 | 12/1/2013 | 1/1/2013 | 12/1/2013 | | | | | | | |
| 1474 | Demolition works | 12 d | 1/1/2013 | 12/1/2013 | 1/1/2013 | 12/1/2013 | | | | | | | |
| 1475 | Footbridge T-B (ch. 625) | 497 d | 1/1/2013 | 20/2/2014 | 1/1/2013 | 20/2/2014 | | | | | | | |
| 1476 | Bulk excavation for forming (Abutment A) | 10 d | 1/1/2013 | 10/1/2013 | 1/1/2013 | 10/1/2013 | | | | | | | |
| 1477 | Formation - Abutment A | 1 d | 1/1/2013 | 1/1/2013 | 1/1/2013 | 1/1/2013 | | | | | | | |
| 1478 | Formwork and rebar fixing (Abutment A, footing) | 5 d | 20/1/2013 | 24/1/2013 | 20/1/2013 | 24/1/2013 | | | | | | | |
| 1479 | Concreting (Abutment A, footing) | 1 d | 25/1/2013 | 25/1/2013 | 25/1/2013 | 25/1/2013 | | | | | | | |
| 1480 | Stripping off formwork (Abutment A, footing) | 3 d | 28/1/2013 | 28/1/2013 | 28/1/2013 | 28/1/2013 | | | | | | | |
| 1481 | Rebar fixing and abutting formwork (Abutment A, column) | 1 d | 29/1/2013 | 29/1/2013 | 29/1/2013 | 29/1/2013 | | | | | | | |
| 1482 | Concreting (Abutment A, column) | 1 d | 30/1/2013 | 30/1/2013 | 30/1/2013 | 30/1/2013 | | | | | | | |
| 1483 | Stripping off formwork (Abutment A, column) | 3 d | 1/2/2013 | 3/2/2013 | 1/2/2013 | 3/2/2013 | | | | | | | |
| 1484 | Bulk excavation for forming (Abutment B) | 10 d | 1/2/2013 | 10/2/2013 | 1/2/2013 | 10/2/2013 | | | | | | | |
| 1485 | Formation - Abutment B | 1 d | 11/2/2013 | 11/2/2013 | 11/2/2013 | 11/2/2013 | | | | | | | |
| 1486 | Formwork and rebar fixing (Abutment B, footing) | 5 d | 12/2/2013 | 16/2/2013 | 12/2/2013 | 16/2/2013 | | | | | | | |
| 1487 | Concreting (Abutment B, footing) | 1 d | 17/2/2013 | 17/2/2013 | 17/2/2013 | 17/2/2013 | | | | | | | |
| 1488 | Stripping off formwork (Abutment B, footing) | 3 d | 18/2/2013 | 20/2/2013 | 18/2/2013 | 20/2/2013 | | | | | | | |

Project: Revised M. Prog. (Rev.08) Roller Up Progress
 Date: Aug. 2009 Roller Up Critical Task
 Consultant: AECOM Roller Up Milestone
Roller Up Summary

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Teuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|---|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1489 | Rebar fixing and shuttering formwork (Abutment B, column) | 5 d | 21/12/2009 | 25/12/2009 | 21/12/2009 | 25/12/2009 | | | | | | | |
| 1490 | Concreting (Abutment B, column) | 1 d | 26/12/2009 | 26/12/2009 | 26/12/2009 | 26/12/2009 | | | | | | | |
| 1491 | Stripping off formwork (Abutment H, column) | 3 d | 27/12/2009 | 29/12/2009 | 27/12/2009 | 29/12/2009 | | | | | | | |
| 1492 | Formwork and rebar fixing for decking | 20 d | 2/1/2010 | 20/1/2010 | 2/1/2010 | 20/1/2010 | | | | | | | |
| 1493 | Concreting (decking) | 20 d | 2/1/2010 | 20/1/2010 | 2/1/2010 | 20/1/2010 | | | | | | | |
| 1494 | Stripping off formwork (decking) | 3 d | 13/1/2010 | 15/1/2010 | 13/1/2010 | 15/1/2010 | | | | | | | |
| 1495 | Harding installation (decking) | 5 d | 15/1/2010 | 19/1/2010 | 15/1/2010 | 19/1/2010 | | | | | | | |
| 1496 | Formwork | 14 d | 1/2/2010 | 14/2/2010 | 1/2/2010 | 14/2/2010 | | | | | | | |
| 1497 | Formwork and rebar fixing (base slab) | 3 d | 13/2/2010 | 15/2/2010 | 13/2/2010 | 15/2/2010 | | | | | | | |
| 1498 | Concreting | 3 d | 16/2/2010 | 18/2/2010 | 16/2/2010 | 18/2/2010 | | | | | | | |
| 1499 | Stripping off formwork | 3 d | 19/2/2010 | 21/2/2010 | 19/2/2010 | 21/2/2010 | | | | | | | |
| 1500 | Formwork and rebar fixing (wall stem) | 57 d | 1/1/2010 | 27/1/2010 | 1/1/2010 | 27/1/2010 | | | | | | | |
| 1501 | Concreting (wall stem) | 20 d | 8/1/2010 | 27/1/2010 | 8/1/2010 | 27/1/2010 | | | | | | | |
| 1502 | Stripping off formwork (wall stem) | 5 d | 28/1/2010 | 31/1/2010 | 28/1/2010 | 31/1/2010 | | | | | | | |
| 1503 | Bulk excavation | 12 d | 4/2/2010 | 15/2/2010 | 4/2/2010 | 15/2/2010 | | | | | | | |
| 1504 | Formwork and rebar fixing (base slab) | 3 d | 16/2/2010 | 18/2/2010 | 16/2/2010 | 18/2/2010 | | | | | | | |
| 1505 | Concreting (base slab) | 2 d | 18/2/2010 | 19/2/2010 | 18/2/2010 | 19/2/2010 | | | | | | | |
| 1506 | Stripping off formwork (wall stem) | 10 d | 21/2/2010 | 30/2/2010 | 21/2/2010 | 30/2/2010 | | | | | | | |
| 1507 | Formwork and rebar fixing (wall stem) | 2 d | 31/2/2010 | 1/3/2010 | 31/2/2010 | 1/3/2010 | | | | | | | |
| 1508 | Concreting (wall stem) | 3 d | 1/3/2010 | 3/3/2010 | 1/3/2010 | 3/3/2010 | | | | | | | |
| 1509 | Stripping off formwork (wall stem) | 3 d | 2/3/2010 | 4/3/2010 | 2/3/2010 | 4/3/2010 | | | | | | | |
| 1510 | Retaining Wall (ch 435-555 RHS) TR4 | 57 d | 21/1/2010 | 16/1/2010 | 21/1/2010 | 16/1/2010 | | | | | | | |
| 1511 | Bulk excavation | 20 d | 2/1/2010 | 21/1/2010 | 2/1/2010 | 21/1/2010 | | | | | | | |
| 1512 | Formwork | 5 d | 11/2/2010 | 15/2/2010 | 11/2/2010 | 15/2/2010 | | | | | | | |
| 1513 | Formwork and rebar fixing (base slab) | 12 d | 16/2/2010 | 27/2/2010 | 16/2/2010 | 27/2/2010 | | | | | | | |
| 1514 | Concreting (base slab) | 3 d | 28/2/2010 | 30/2/2010 | 28/2/2010 | 30/2/2010 | | | | | | | |
| 1515 | Stripping off formwork (wall stem) | 2 d | 31/2/2010 | 1/3/2010 | 31/2/2010 | 1/3/2010 | | | | | | | |
| 1516 | Formwork and rebar fixing (wall stem) | 10 d | 1/3/2010 | 10/3/2010 | 1/3/2010 | 10/3/2010 | | | | | | | |
| 1517 | Concreting (wall stem) | 2 d | 11/3/2010 | 12/3/2010 | 11/3/2010 | 12/3/2010 | | | | | | | |
| 1518 | Stripping off formwork (wall stem) | 3 d | 14/3/2010 | 16/3/2010 | 14/3/2010 | 16/3/2010 | | | | | | | |
| 1519 | Formwork and rebar fixing (wall stem) | 87 d | 11/2/2010 | 26/1/2011 | 11/2/2010 | 26/1/2011 | | | | | | | |
| 1520 | Bulk excavation | 50 d | 1/1/2010 | 20/1/2010 | 1/1/2010 | 20/1/2010 | | | | | | | |
| 1521 | Formwork | 5 d | 21/2/2010 | 25/2/2010 | 21/2/2010 | 25/2/2010 | | | | | | | |
| 1522 | Formwork and rebar fixing (base slab) | 12 d | 26/2/2010 | 6/3/2010 | 26/2/2010 | 6/3/2010 | | | | | | | |
| 1523 | Concreting (base slab) | 3 d | 9/3/2010 | 11/3/2010 | 9/3/2010 | 11/3/2010 | | | | | | | |
| 1524 | Stripping off formwork (wall stem) | 10 d | 11/3/2010 | 20/3/2010 | 11/3/2010 | 20/3/2010 | | | | | | | |
| 1525 | Formwork and rebar fixing (wall stem) | 2 d | 21/3/2010 | 22/3/2010 | 21/3/2010 | 22/3/2010 | | | | | | | |
| 1526 | Concreting (wall stem) | 3 d | 24/3/2010 | 26/3/2010 | 24/3/2010 | 26/3/2010 | | | | | | | |
| 1527 | Stripping off formwork (wall stem) | 67 d | 1/1/2010 | 26/1/2011 | 1/1/2010 | 26/1/2011 | | | | | | | |
| 1528 | Retaining Wall (ch 555-585 RHS) TR5 | 50 d | 1/1/2010 | 20/1/2010 | 1/1/2010 | 20/1/2010 | | | | | | | |
| 1529 | Bulk excavation | 5 d | 21/1/2010 | 25/1/2010 | 21/1/2010 | 25/1/2010 | | | | | | | |
| 1530 | Formwork | 13 d | 26/1/2010 | 8/2/2010 | 26/1/2010 | 8/2/2010 | | | | | | | |
| 1531 | Formwork and rebar fixing (base slab) | 5 d | 7/2/2010 | 11/2/2010 | 7/2/2010 | 11/2/2010 | | | | | | | |
| 1532 | Concreting (base slab) | 2 d | 13/2/2010 | 14/2/2010 | 13/2/2010 | 14/2/2010 | | | | | | | |
| 1533 | Stripping off formwork (wall stem) | 10 d | 14/2/2010 | 23/2/2010 | 14/2/2010 | 23/2/2010 | | | | | | | |
| 1534 | Formwork and rebar fixing (wall stem) | 2 d | 24/2/2010 | 25/2/2010 | 24/2/2010 | 25/2/2010 | | | | | | | |
| 1535 | Concreting (wall stem) | 3 d | 28/2/2010 | 29/2/2010 | 28/2/2010 | 29/2/2010 | | | | | | | |
| 1536 | Stripping off formwork (wall stem) | 67 d | 1/1/2010 | 26/1/2011 | 1/1/2010 | 26/1/2011 | | | | | | | |
| 1537 | Retaining Wall (ch 585-605 RHS) TR6 | 50 d | 1/1/2010 | 20/1/2010 | 1/1/2010 | 20/1/2010 | | | | | | | |
| 1538 | Bulk excavation | 5 d | 21/1/2010 | 25/1/2010 | 21/1/2010 | 25/1/2010 | | | | | | | |
| 1539 | Formwork | 13 d | 26/1/2010 | 8/2/2010 | 26/1/2010 | 8/2/2010 | | | | | | | |
| 1540 | Formwork and rebar fixing (base slab) | 5 d | 7/2/2010 | 11/2/2010 | 7/2/2010 | 11/2/2010 | | | | | | | |
| 1541 | Concreting (base slab) | 2 d | 13/2/2010 | 14/2/2010 | 13/2/2010 | 14/2/2010 | | | | | | | |
| 1542 | Stripping off formwork (wall stem) | 10 d | 14/2/2010 | 23/2/2010 | 14/2/2010 | 23/2/2010 | | | | | | | |
| 1543 | Formwork and rebar fixing (wall stem) | 2 d | 24/2/2010 | 25/2/2010 | 24/2/2010 | 25/2/2010 | | | | | | | |
| 1544 | Concreting (wall stem) | 3 d | 28/2/2010 | 29/2/2010 | 28/2/2010 | 29/2/2010 | | | | | | | |
| 1545 | Stripping off formwork | 3 d | 22/1/2010 | 24/1/2010 | 22/1/2010 | 24/1/2010 | | | | | | | |
| 1546 | Retaining Wall (ch 605-618 RHS) TR3 | 57 d | 21/1/2010 | 26/1/2011 | 21/1/2010 | 26/1/2011 | | | | | | | |
| 1547 | Bulk excavation | 20 d | 21/1/2010 | 20/1/2010 | 21/1/2010 | 20/1/2010 | | | | | | | |
| 1548 | Formwork | 5 d | 21/1/2010 | 25/1/2010 | 21/1/2010 | 25/1/2010 | | | | | | | |
| 1549 | Formwork and rebar fixing (base slab) | 12 d | 27/1/2010 | 8/2/2010 | 27/1/2010 | 8/2/2010 | | | | | | | |

Project: Revised M. Prog (Rev.08)
 Data Date: Aug 2009
 Consultant: AECOM

Task Progress: Task
 Critical Task: Critical Task
 Milestone: Milestone
 Summary: Summary

Rolled Up Progress: Rolled Up Progress
 Rolled Up Critical Task: Rolled Up Critical Task
 Rolled Up Milestone: Rolled Up Milestone

Split: Split
 External Tasks: External Tasks

Drainage Services Department

River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 06)

Contract No. DC/2007/06

| ID | Task Name | Duration | Early Start | Early Finish | Start | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|--|----------|-------------|--------------|------------|------------|------|------|------|------|------|------|------|
| 1551 | Concreting (base slab) | 3 d | 5/12/2009 | 11/12/2009 | 5/12/2009 | 11/12/2009 | | | | | | | |
| 1552 | Stripping off formwork (wall stem) | 2 d | 12/12/2009 | 13/12/2009 | 12/12/2009 | 13/12/2009 | | | | | | | |
| 1553 | Formwork and rebar fixing (wall stem) | 12 d | 14/12/2009 | 23/12/2009 | 14/12/2009 | 23/12/2009 | | | | | | | |
| 1554 | Concreting (wall stem) | 2 d | 24/12/2009 | 25/12/2009 | 24/12/2009 | 25/12/2009 | | | | | | | |
| 1555 | Stripping off formwork (wall stem) | 3 d | 26/12/2009 | 29/12/2009 | 26/12/2009 | 29/12/2009 | | | | | | | |
| 1556 | Remaining Wall (ch 553-610 RH6) TR3 | 62 d | 21/12/09 | 21/12/09 | 21/12/09 | 21/12/09 | | | | | | | |
| 1557 | Bulk excavation | 25 d | 21/12/09 | 25/12/09 | 21/12/09 | 25/12/09 | | | | | | | |
| 1558 | Formwork | 5 d | 27/12/2009 | 1/12/2010 | 27/12/2009 | 1/12/2010 | | | | | | | |
| 1559 | Formwork and rebar fixing (these etc) | 12 d | 2/12/2009 | 14/12/2009 | 2/12/2009 | 14/12/2009 | | | | | | | |
| 1560 | Concreting (base slab) | 3 d | 14/12/2009 | 17/12/2009 | 14/12/2009 | 17/12/2009 | | | | | | | |
| 1561 | Stripping off formwork (wall stem) | 2 d | 17/12/2009 | 18/12/2009 | 17/12/2009 | 18/12/2009 | | | | | | | |
| 1562 | Formwork and rebar fixing (wall stem) | 10 d | 18/12/2009 | 28/12/2009 | 18/12/2009 | 28/12/2009 | | | | | | | |
| 1563 | Concreting (wall stem) | 2 d | 29/12/2009 | 30/12/2009 | 29/12/2009 | 30/12/2009 | | | | | | | |
| 1564 | Stripping off formwork (wall stem) | 3 d | 31/12/2009 | 3/1/2010 | 31/12/2009 | 3/1/2010 | | | | | | | |
| 1565 | Piezometer and Standpipe | 465 d | 23/10/2008 | 31/12/2010 | 23/10/2008 | 31/12/2010 | | | | | | | |
| 1566 | PS41 (ch 60 RH5) | 31 d | 23/10/2008 | 22/11/2008 | 23/10/2008 | 22/11/2008 | | | | | | | |
| 1567 | PS42 (ch 140 RH5) | 31 d | 23/10/2008 | 22/11/2008 | 23/10/2008 | 22/11/2008 | | | | | | | |
| 1568 | PS43 (ch 220 RH5) | 9 d | 23/11/2008 | 29/11/2008 | 23/11/2008 | 29/11/2008 | | | | | | | |
| 1569 | PS44 (ch 275 LH5) | 30 d | 21/10/10 | 31/12/10 | 21/10/10 | 31/12/10 | | | | | | | |
| 1570 | PS45 (ch 340 RH5) | 30 d | 21/10/10 | 31/12/10 | 21/10/10 | 31/12/10 | | | | | | | |
| 1571 | PS46(ch 530 RH5) | 30 d | 1/12/2009 | 1/12/2009 | 1/12/2009 | 1/12/2009 | | | | | | | |
| 1572 | PS47 (ch 580 RH5) | 30 d | 1/12/2009 | 1/12/2009 | 1/12/2009 | 1/12/2009 | | | | | | | |
| 1573 | Ground settlement marker | 433 d | 18/10/2008 | 13/12/2010 | 18/10/2008 | 13/12/2010 | | | | | | | |
| 1574 | GS41 (ch 60 RH5) | 31 d | 18/10/2008 | 17/11/2008 | 18/10/2008 | 17/11/2008 | | | | | | | |
| 1575 | GS42 (ch 140 RH5) | 1 d | 18/10/2008 | 18/10/2008 | 18/10/2008 | 18/10/2008 | | | | | | | |
| 1576 | GS43 (ch 220 RH5) | 1 d | 25/10/2008 | 25/10/2008 | 25/10/2008 | 25/10/2008 | | | | | | | |
| 1577 | GS44 (ch 275 LH5) | 17 d | 2/12/2010 | 13/12/10 | 2/12/2010 | 13/12/10 | | | | | | | |
| 1578 | GS45 (ch 340 RH5) | 12 d | 1/12/2009 | 12/12/2009 | 1/12/2009 | 12/12/2009 | | | | | | | |
| 1579 | GS46 (ch 530 RH5) | 12 d | 1/12/2009 | 12/12/2009 | 1/12/2009 | 12/12/2009 | | | | | | | |
| 1580 | GS47 (ch 580 RH5) | 12 d | 1/12/2009 | 12/12/2009 | 1/12/2009 | 12/12/2009 | | | | | | | |
| 1581 | Verification Order | 916 d | 25/5/2008 | 31/12/2010 | 25/5/2008 | 31/12/2010 | | | | | | | |
| 1582 | VO 4 - Access for house 495 | 62 d | 24/5/2008 | 18/6/2008 | 24/5/2008 | 18/6/2008 | | | | | | | |
| 1583 | VO 9 - Tubular railing on existing bridges | 24 d | 20/7/2008 | 12/8/2008 | 20/7/2008 | 12/8/2008 | | | | | | | |
| 1584 | VO 11 - Revised Detail of Protect Signboard in Upper Tai Po River | 10 d | 20/7/2008 | 29/7/2008 | 20/7/2008 | 29/7/2008 | | | | | | | |
| 1585 | VO 21 - Sewerage Diversion at Maintenance Access D | 53 d | 10/4/2010 | 1/6/2010 | 10/4/2010 | 1/6/2010 | | | | | | | |
| 1586 | VO 33 - Box Culvert TR3 | 76 d | 15/1/2010 | 31/3/2010 | 15/1/2010 | 31/3/2010 | | | | | | | |
| 1587 | VO 34 - Modifications of Boulder Trap and Retaining Walls at Maintenance Access D | 439 d | 21/1/2009 | 1/6/2010 | 21/1/2009 | 1/6/2010 | | | | | | | |
| 1588 | VO 62 - Modifications of Footbridge TR3 in Upper Tai Po River | 368 d | 31/12/2009 | 31/12/2010 | 31/12/2009 | 31/12/2010 | | | | | | | |
| 1589 | VO 74 - Improvement to the Formation of Creakin Wells at Ch. 40 to Ch. 265 | 47 d | 7/2/2009 | 31/3/2010 | 7/2/2009 | 31/3/2010 | | | | | | | |
| 1590 | VO 74 - Gabion in front of Boulder Trap | 27 d | 1/12/2009 | 27/12/2009 | 1/12/2009 | 27/12/2009 | | | | | | | |
| 1591 | VO 86 - Welding of addition steel pipe on existing handrail | 3 d | 6/5/2009 | 6/5/2009 | 6/5/2009 | 6/5/2009 | | | | | | | |
| 1592 | VO 89 - Protective flood measure | 7 d | 6/5/2009 | 12/5/2009 | 6/5/2009 | 12/5/2009 | | | | | | | |
| 1593 | VO 90 - Partial Demolition and Reinstatement Works of House 43C of She Po Tsai Village | 25 d | 16/2/2009 | 12/3/2009 | 16/2/2009 | 12/3/2009 | | | | | | | |
| 1594 | VO 101 - Safety measure at Boulder trap | 13 d | 6/8/2009 | 17/8/2009 | 6/8/2009 | 17/8/2009 | | | | | | | |
| 1595 | VO 102 - Provision of Temporary Vehicular Gate at Maintenance Access D | 6 d | 9/7/2009 | 14/7/2009 | 9/7/2009 | 14/7/2009 | | | | | | | |
| 1596 | VO 110 - Modification of Footbridge TR3 in Upper Tai Po River | 365 d | 31/12/2009 | 31/12/2010 | 31/12/2009 | 31/12/2010 | | | | | | | |
| 1597 | VO 111 - Provision of Chain Link Fence and Modification of Railing | 13 d | 4/7/2009 | 17/7/2009 | 4/7/2009 | 17/7/2009 | | | | | | | |
| 1598 | VO 113 - Further Enhancement on the Flood Preventive Measures at Akurashike CH 230 | 10 d | 13/7/2009 | 22/7/2009 | 13/7/2009 | 22/7/2009 | | | | | | | |
| 1599 | VO 121 - Make Good the Damaged Bridge Deck and Re-provision of Handrail for Gauring P | 18 d | 12/8/2009 | 29/8/2009 | 12/8/2009 | 29/8/2009 | | | | | | | |
| 1600 | Tree Killing | 14 d | 24/7/2009 | 6/8/2009 | 24/7/2009 | 6/8/2009 | | | | | | | |
| 1601 | B249, B160, B151, B160, B161 & B162 | 1 d | 24/3/2009 | 24/3/2009 | 24/3/2009 | 24/3/2009 | | | | | | | |
| 1602 | B252 | 3 d | 4/4/2009 | 6/4/2009 | 4/4/2009 | 6/4/2009 | | | | | | | |
| 1603 | Site Instruction | 5 d | 20/7/2008 | 24/7/2008 | 20/7/2008 | 24/7/2008 | | | | | | | |
| 1604 | Protection of road slope at TR3 after typhoon 2009-Jun-9 | 5 d | 20/7/2009 | 24/7/2009 | 20/7/2009 | 24/7/2009 | | | | | | | |
| 1605 | | | | | | | | | | | | | |
| 1606 | Section 4 - Box Culvert at Ping Loog | 837 d | 28/9/2007 | 1/11/2010 | 28/9/2007 | 1/11/2010 | | | | | | | |
| 1608 | Section 4 - Box Culvert (Area A) | 816 d | 28/9/2007 | 2/11/2009 | 28/9/2007 | 2/11/2009 | | | | | | | |
| 1609 | Commissioning of Walls | 1 d | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1610 | Possession to Position of the Site (Area A) | 0 d | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1611 | Material Submission | 90 d | 28/9/2007 | 27/12/2007 | 28/9/2007 | 27/12/2007 | | | | | | | |
| 1612 | Material Submission Approval | 0 d | 10/12/2008 | 10/12/2008 | 10/12/2008 | 10/12/2008 | | | | | | | |

Project: Revised M. Prog (Rev.06)
 Date: Aug 2009
 Consultant: AECOM

Task: **Task Progress**
 Task Progress:

Critical Task Progress:

Milestone:

Summary:

Rollover Up Task:

Rollover Up Critical Task:

Rollover Up Milestone:

Rollover Up Summary:

Rollover Up Progress:

Rollover Up Task:

Rollover Up Milestone:

Rollover Up Summary:

Rollover Up Progress:

Rollover Up Task:

Rollover Up Milestone:

Rollover Up Summary:

Rollover Up Progress:

Rollover Up Task:

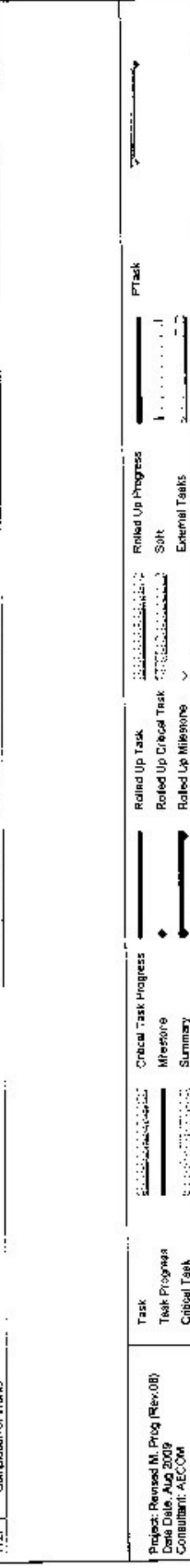
Rollover Up Milestone:

Rollover Up Summary:

Drainage Services Department

Contract No. DC/2007/06 River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River Revised Master Programme (Rev. 08)

| ID | Task Name | Duration | Early Start | Early Finish | Slack | Finish | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|------|--|----------|-------------|--------------|------------|------------|----------|----------|----------|----------|----------|----------|----------|
| | | | | | | | 1st Half | 2nd Half | 1st Half | 2nd Half | 1st Half | 2nd Half | 1st Half |
| 1676 | Road Reinforcement (Stage 2) | 18 d | 16/11/2008 | 30/12/2008 | 16/11/2008 | 31/12/2008 | | | | | | | |
| 1677 | Road Paving Remedial (Stage 1) | 18 d | 4/12/2008 | 21/12/2008 | 4/12/2008 | 21/12/2008 | | | | | | | |
| 1678 | | | | | | | | | | | | | |
| 1679 | Completion of Work at Section 4 | D.d. | 2/11/2009 | 2/11/2009 | 2/11/2009 | 2/11/2009 | | | | | | | |
| 1680 | C.P. spare duct installation | 21 d | 22/12/2009 | 11/1/2010 | 22/12/2009 | 11/1/2010 | | | | | | | |
| 1681 | | | | | | | | | | | | | |
| 1682 | | | | | | | | | | | | | |
| 1683 | Variation Order No.23 Construction of 300mm dia. Ductile Iron Pipe beneath the Proposed Ring | 150 d | 28/9/2008 | 22/2/2009 | 28/9/2008 | 22/2/2009 | | | | | | | |
| 1684 | Variation Order No. 84 Watermain Diversion Works at Ping Long | 125 d | 30/4/2009 | 19/2/2010 | 30/4/2009 | 19/2/2010 | | | | | | | |
| 1685 | Variation Order No. 86 Clearing of Stream Course between Ping Long Box Culvert and Upper L2 | 31 d | 7/9/2009 | 6/10/2009 | 7/9/2009 | 6/10/2009 | | | | | | | |
| 1686 | Variation Order No. 115 Manual Vehicular Traffic Signal for T/A at Ping Long | 105 d | 8/7/2009 | 2/12/2009 | 8/7/2009 | 2/12/2009 | | | | | | | |
| 1687 | | | | | | | | | | | | | |
| 1688 | Section 5 - Landscape Establishment Works (Portion B, C, D, E, F, G, H & I) | 1860 d? | 28/9/2007 | 27/8/2013 | 28/9/2007 | 27/8/2013 | | | | | | | |
| 1689 | Section 5 Landscape Works | 1665 d | 28/9/2007 | 18/4/2012 | 28/9/2007 | 18/4/2012 | | | | | | | |
| 1690 | Commencement of Works | 1 d | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1691 | Material Submission | 120 d | 28/9/2007 | 28/12/2008 | 28/9/2007 | 28/12/2008 | | | | | | | |
| 1692 | Submission Approval | D.d. | 8/2/2008 | 8/2/2008 | 8/2/2008 | 8/2/2008 | | | | | | | |
| 1693 | Landscape Works | 1540 d? | 3/11/2008 | 18/4/2012 | 3/11/2008 | 18/4/2012 | | | | | | | |
| 1694 | Landscape Softworks | 365 d | 20/4/2011 | 20/4/2012 | 20/4/2011 | 20/4/2012 | | | | | | | |
| 1695 | Submission of Tree Survey | 400 d | 29/6/2007 | 1/11/2008 | 29/6/2007 | 1/11/2008 | | | | | | | |
| 1696 | Preservation and Protection of Preserved Trees | 1679 d? | 2/11/2008 | 27/2/2013 | 2/11/2008 | 27/2/2013 | | | | | | | |
| 1697 | Landscape Establishment Works | 1579 d | 2/11/2008 | 27/2/2013 | 2/11/2008 | 27/2/2013 | | | | | | | |
| 1698 | Completion of Works | D.d. | 27/2/2013 | 27/2/2013 | 27/2/2013 | 27/2/2013 | | | | | | | |
| 1699 | | | | | | | | | | | | | |
| 1700 | Section 6 - Landscape Establishment Works (Portion J, K & L) | 1630 d? | 28/9/2007 | 8/1/2013 | 28/9/2007 | 8/1/2013 | | | | | | | |
| 1701 | Section 6 Landscape Works | 1665 d | 28/9/2007 | 18/4/2012 | 28/9/2007 | 18/4/2012 | | | | | | | |
| 1702 | Commencement of Works | 1 d | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1703 | Material Submission | 120 d? | 28/9/2007 | 28/12/2008 | 28/9/2007 | 28/12/2008 | | | | | | | |
| 1704 | Submission Approval | D.d. | 8/2/2008 | 8/2/2008 | 8/2/2008 | 8/2/2008 | | | | | | | |
| 1705 | Landscape Works | 1161 d? | 14/2/2009 | 18/4/2012 | 14/2/2009 | 18/4/2012 | | | | | | | |
| 1706 | Landscape Softworks | 365 d | 2/11/2011 | 19/4/2012 | 2/11/2011 | 19/4/2012 | | | | | | | |
| 1707 | Submission of Tree Survey | 400 d | 28/9/2007 | 1/11/2008 | 28/9/2007 | 1/11/2008 | | | | | | | |
| 1708 | Preservation and Protection of Preserved Trees | 1529 d | 2/11/2008 | 8/1/2013 | 2/11/2008 | 8/1/2013 | | | | | | | |
| 1709 | Landscape Establishment Works | 1569 d | 2/11/2008 | 8/1/2013 | 2/11/2008 | 8/1/2013 | | | | | | | |
| 1710 | Completion of Works | D.d. | 8/1/2013 | 8/1/2013 | 8/1/2013 | 8/1/2013 | | | | | | | |
| 1711 | | | | | | | | | | | | | |
| 1712 | Section 7 - Landscape Establishment Works (Portion L, N & P) | 1860 d? | 28/9/2007 | 7/11/2012 | 28/9/2007 | 7/11/2012 | | | | | | | |
| 1713 | Section 7 Landscape Works | 1665 d | 28/9/2007 | 18/4/2012 | 28/9/2007 | 18/4/2012 | | | | | | | |
| 1714 | Commencement of Works | 1 d | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1715 | Material Submission | 120 d | 28/9/2007 | 28/12/2008 | 28/9/2007 | 28/12/2008 | | | | | | | |
| 1716 | Submission Approval | D.d. | 8/2/2008 | 8/2/2008 | 8/2/2008 | 8/2/2008 | | | | | | | |
| 1717 | Landscape Works | 1178 d? | 3/11/2009 | 18/4/2012 | 3/11/2009 | 18/4/2012 | | | | | | | |
| 1718 | Landscape Softworks | 365 d | 2/11/2011 | 1/11/2012 | 2/11/2011 | 1/11/2012 | | | | | | | |
| 1719 | Submission of Tree Survey | 400 d | 28/9/2007 | 1/11/2008 | 28/9/2007 | 1/11/2008 | | | | | | | |
| 1720 | Preservation and Protection of Preserved Trees | 1467 d | 2/11/2008 | 7/11/2012 | 2/11/2008 | 7/11/2012 | | | | | | | |
| 1721 | Landscape Establishment Works | 1427 d | 2/11/2008 | 7/11/2012 | 2/11/2008 | 7/11/2012 | | | | | | | |
| 1722 | Completion of Works | D.d. | 7/11/2012 | 7/11/2012 | 7/11/2012 | 7/11/2012 | | | | | | | |
| 1723 | | | | | | | | | | | | | |
| 1724 | Section 8 - All Remaining Work at All Portions | 1300 d | 28/9/2007 | 18/4/2011 | 28/9/2007 | 18/4/2011 | | | | | | | |
| 1725 | Commencement of Works | D.d. | 28/9/2007 | 28/9/2007 | 28/9/2007 | 28/9/2007 | | | | | | | |
| 1726 | All remaining works at all Areas | 1300 d | 28/9/2007 | 18/4/2011 | 28/9/2007 | 18/4/2011 | | | | | | | |
| 1727 | Completion of Works | 3 d | 18/4/2011 | 18/4/2011 | 18/4/2011 | 18/4/2011 | | | | | | | |



Project: Revised M. Prog (Rev.08)
 Date: Aug 2009
 Consultant: AECOM

Legend:
 Critical Task Progress: [Solid Bar]
 Milestone: [Diamond]
 Summary: [Dotted Bar]
 Task Progress: [Patterned Bar]
 Critical Task: [Thick Line]
 Milestone: [Diamond]
 Summary: [Dotted Line]
 Task: [Thin Line]
 Task Progress: [Patterned Line]
 Critical Task: [Thick Line]

Status:
 Rolloff Up Task: [Bar]
 Rolloff Up Critical Task: [Bar]
 Rolloff Up Milestone: [Diamond]

External Tasks: [Bar]

Rolloff Up Progress: [Bar]
 Roll: [Bar]
 External Tasks: [Bar]