

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 April 2011

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Executive summary

This is the thirty-second monthly Environmental Monitoring and Audit (EM&A) Report for the river improvement works at Upper Tai Po River under Drainage Services Department Contract No. DC/2007/06 entitled “River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River”. This report concludes the impact monitoring for the activities undertaken during the period from 1st April 2011 to 30th April 2011. Construction of retaining wall, gabion wall, and provision of temporary protection measures for wet season were the major site activities being carried out in this reporting period.

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

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

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

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

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

There was no formal complaint in relation to environmental issue received in the reporting month.

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

There was no reporting change for this month.

Construction of retaining wall and provision of temporary protection measures for wet season will be the major construction activities to be carried out in the upcoming month.

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

1.0 Introduction

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

2.0 Environmental status

2.1 Project area

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

2.2 Construction programme

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

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

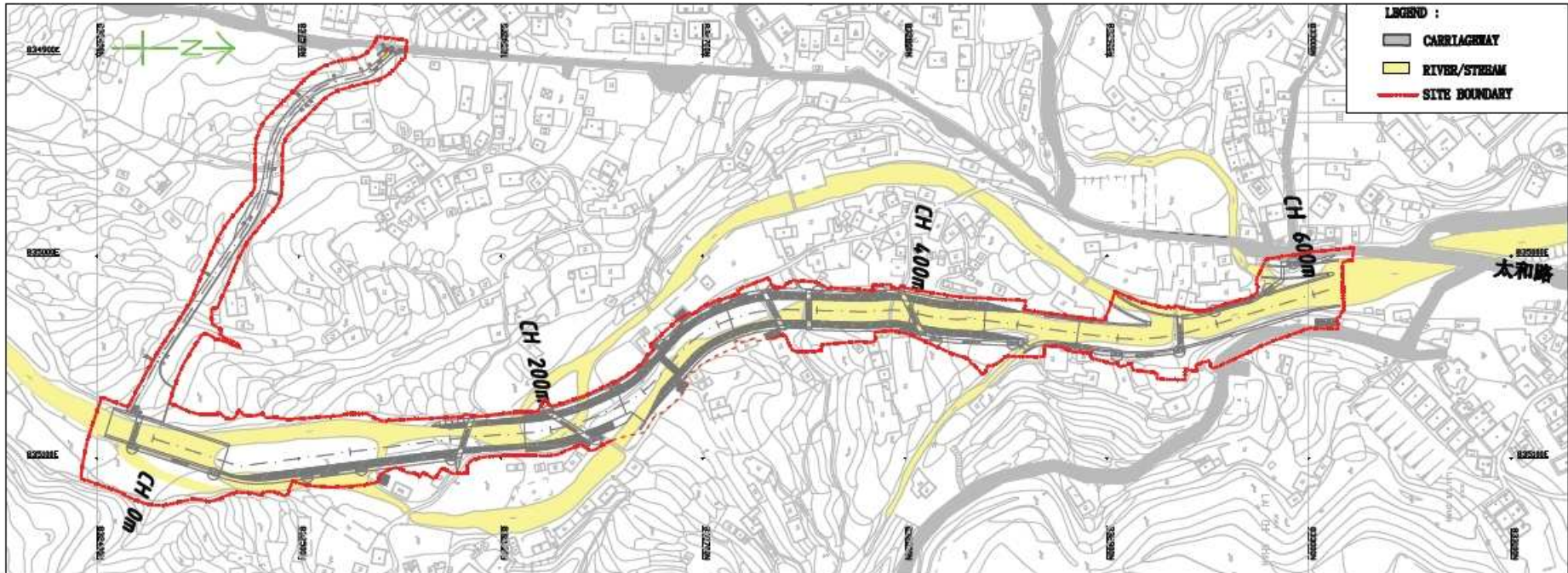
The construction of the proposed improvement works for Upper Tai Po River has been commenced on September 15th 2008 and anticipated to complete in April 2012.

2.3 Proposed construction sequences

The proposed construction sequence is shown in the following sequences:

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

Fig 2.1 Layout of construction area



Upper Tai Po River

2.4 Construction activities for the reporting period

Major construction activities carried out by the contractor during this reporting period include:

- 1.) construction of retaining wall;
- 2.) construction of gabion wall; and
- 3.) provision of temporary protection measures for wet season

2.5 Construction activities for the next reporting period

Major construction activities carried out by the contractor anticipated for the coming month would be mainly construction of retaining wall and provision of temporary protection measures for wet season.

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

No formal complaint in relation to environmental issues was received in the reporting month. Totally fourteen complaints had been received since the commencement of the contract. The cumulative complaint log is shown in Appendix F.

3.0 Ecological monitoring results

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

4.0 Noise monitoring results

In accordance with the EM&A Manual, monitoring locations were established at 11 N.S.R. locations. The descriptions 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 1st, 8th, 15th, 21st and 29th April 2011.

The monitoring for UTP3 and UTP4 on 29th April 2011 was cancelled due to adverse weather. Compensatory measurements, which were scheduled to be on 30th April 2011, were also cancelled due to the presence of rain.

Measured $L_{eq(30min)}$ results ranged from 44.0dB(A) to 74.2dB(A). And therefore, no exceedance was recorded within the reporting period.

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

5.0 Vibration monitoring results

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

6.0 Environmental issues and actions

6.1 Site inspections and key environmental issues

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

Within this reporting month, site inspections were conducted on 6th, 13th, 20th and 27th April 2011. A detailed checklist of each site inspection together with comments and relevant photos have been filed and kept. The findings from inspection were summarized in Table 6.1.

Ecological inspections by the Ecologist Dr. Mark Shea were carried out on 1st, 9th, 16th, 23rd and 30th April 2011. Details of findings were summarized in Table 6.2.

Table 6.1 Summary results of site inspections findings

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
08 Dec 10, 02, 16, 23 & 30 Mar 11; 13 & 20 Apr 11	Implementation of water quality mitigation measure for construction site of footbridge from ch.150 to 600 was outstanding	Observation	Contractor was recommended to implement necessary protective measures, such as provision of bund wall and geo-textile coverings, to avoid water contamination from site works	Temporary spraying concrete was applied on the river bank to prevent further erosion and the muddy water from being discharged into the river. The spraying concrete activity was still in progress	28 April 11	--
10 Feb 11 & 02 Mar 11	River water was observed to be muddy along the channel from ch.250	Observation	Contractor was seriously recommended to review their site condition and implement necessary mitigation measures prior to the commencement of abovementioned activities as to avoid contamination of water quality	Temporary spraying concrete was applied on the river bank to prevent further erosion and the muddy water from being discharged into the river. The spraying concrete activity was still in progress	28 April 11	--
09, 16, 23 & 30 Mar 11	Tree without identification at ch.300 was observed to be damaged by operation of backhoe	Observation	Contractor was advised to check the status of the tree and implement necessary protective measures for preserved trees before commencement of works	Still outstanding. To be followed during the next reporting period	Ongoing	--
09, 16, 23 &	Site water generated from	Non-compliance	Contractor was recommended	No discharge of muddy site	27 Apr 11	--

Date	Findings	Identification	Advice from ET	Action taken	Closing date	Remarks
30 Mar 11; 6, 13 Apr 11	construction site at ch.200 was found diverted to an ineffective treatment system and then discharged to the river channel		to enhance their site water treatment as to ensure effluent discharged fulfilled with statutory requirements	water was observed at ch.200 and the treatment system was removed by Contractor		
09, 16, 23 & 30 Mar 11; 6 & 13 Apr 11	Site water generated at construction site at ch.300 was found directly discharged and caused contamination to the river	Non-compliance	Contractor was request to stop such practice and to implement corrective actions immediately	Direct discharge of site water had been terminated as reported by Contractor	20 Apr 11	--
16 & 30 Mar 11; 6, 13, 20 & 27 Apr 11	Site surface was observed to be dry and dusty	Observation	Contractor was advised to provide regular water spraying to dusty static area for dust suppression	Still outstanding. To be followed during the next reporting period	Ongoing	--
30 Mar 11; 6, 13 Apr 11	There was no proper protective measures implemented for the bared earth surface, riverbanks, earth bunds and earthy stockpiles along the construction site	Non-compliance	Contractor was recommended to implement necessary mitigation measures to avoid erosion of the concerned earth surface and stockpiles from causing water pollution.	Part of the earthy stockpiles had been collected and removed from site as reported by Contractor. The removal works was still in progress	20 Apr 11	--
30 Mar 11	General wastes and abandoned site materials was observed along the haul access of approximate ch.600	Observation	Contractor was advised to maintain good housekeeping condition and to remove observed waste during daily cleaning process	General wastes within haul access at ch.600 have been removed as reported by Contractor	6 Apr 11	
6, 13, 20 & 27 Apr 11	The sandbags barrier at temporary crossing at ch.600 were observed to be damaged	Observation	Contractor was advised to replace the sandbags as soon as possible.	Still outstanding. To be followed during the next reporting period	Ongoing	
13 Apr 11	A temporary drainage was observed cutting across the haul access at ch.450 that allows direct discharge of surface runoff into the river	Observation	Contractor was advised to rectify the temporary drainage system	The temporary drainage had been removed as reported by Contractor	20 Apr 11	
13 Apr 11	Wheel washing bay at ch.600 was accumulated with muddy water	Observation	Contractor was advised to well maintain the wheel washing facility to prevent muddy water was brought onto the public access through site vehicles	Maintenance and cleaning were provided as reported by Contractor	20 Apr 11	--
13 Apr 11	Oil stains were observed left on the conveyor belt of backhoe at ch.450.	Observation	Contractor was recommended to provide regular maintenance to their site equipments and handle the earth materials contaminated with leaked oil as chemical waste for storage and disposal	Follow up action was taken as reported by Contractor	20 Apr 11	--
20 & 27 Apr 11	Empty fuel containers and unused construction equipment were found abandoned along the river bank or in the river channel at approximate ch.400 to ch.450	Observation	Contractor was advised to maintain good housekeeping condition and to remove observed equipment to storage area	The fuel containers had been removed by Contractor, but the unused equipment was still observed. To be followed during the next reporting period	Ongoing	--
27 Apr 11	Muddy water was observed along the entire UTPR due to site water seepage and surface runoff caused by excavation works at ch.50.	Observation	Contractor was reminded to maintain the site-water treatment facilities to stop improper discharge and deteriorate water quality.	To be followed during next reporting period	Ongoing	--

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

Table 6.2 Summary results of ecological site inspection findings				
Date	Observations	Advice from Ecologist	Action Taken	Closing Date
01 Apr 2011	No major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
09 Apr 2011	No major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
16 Apr 2011	No major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
23 Apr 2011	No major findings for this inspection	No Advice is required	No Action is required to be taken	N/A
30 Apr 2011	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 April 2011.

For the non-compliance event of excessive earth deposit and muddy effluent discharge that was recorded on 30th March 2011 from the thirty-first report, the following follow up actions were taken by Contractor and were inspected on 20th and 27th April 2011.

- Part of the excessive stockpiles of earth debris were collected as reported by Contractor and was observed to be removed from site area. The removal work would still be carried out in the upcoming month.
- Sources of direct discharge of site water had been removed by Contractor and no direct discharge of site water was observed. Spraying concrete was applied on the river bank to prevent further erosion and the muddy water from being discharged into the river. The spraying concrete work would still be carried out in the upcoming month.
- The ineffective treatment system at ch.200, where overflow of muddy site water was concerned, had been removed and backfilled by Contractor to prevent accumulation of site water.

Contractor was reminded to be aware of the implementation of measures to avoid soil erosion and prevent pollution to the river water.

6.3 Recommendations

Contractor was advised to pay attention to the implementation status and effectiveness of water quality mitigation measures to prevent erosion and soil runoff from site area causing water quality impact to the river stream. Riverbanks and earth bunds should be covered with geo-textile coverings to prevent erosion. Exposed earth surface should be protected by means such as tarpaulin covering. Contractor should also prevent excessive storage of any earth materials on site as to avoid soil debris from washing into the river channel by surface runoff.

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

Contractor should also implement necessary measure to mitigate air quality impact from construction works, such as ensuring dusty static areas are kept damp for dust suppression.

6.4 Implementation status and effectiveness of the mitigation measures

Refer to the table 6.1 and Section 6.2, contractor has implemented mitigation measures to address those problems as advised by RE, IEC and ET. Some 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 follow month.

As there were some ongoing follow up practices, contractor was reminded to implement necessary mitigation measures to address environmental problem arisen from site activities and maintain good site condition.

7.0 Waste management status

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

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

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

Table 7.1 Summary of Waste generated and disposed in April 2011

Type of waste	Amount generated	Amount reused	Amount disposed
Inert waste	467 m ³	467 m ³	0
Non-inert waste	50 kg	0	50 kg
Chemical waste	0	N/A	0

The cumulative waste flow table is shown in Appendix H.

8.0 Status of environmental licensing and permit

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

Table 8.1 Summary of Environmental Licensing and Permit Status

Description	License / Permit No.	Date of Issue	Date of Expiry	Remarks
Environmental Permit	EP-223/2005	31 st Aug, 2005	N/A	Superseded
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

Construction of retaining wall and provision of temporary protection measures for wet season will be the major construction activities to be carried out in the upcoming month. It will generate environmental impacts in several aspects.

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

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

Contractor was reminded to provide regular water spraying to dusty static area for dust suppression.

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

10.0 Conclusion

Construction of retaining wall, gabion wall and provision of temporary protection measures for wet season were the major site activities carried out by the Contractor in this reporting period.

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

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

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

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

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

There was no environmental complaint received in this reporting month. Contractor was also reminded to pay serious attention to prevent causing environmental concerns in the future by implementation of good site practice. 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	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	70.1	73.4	62.2	01-Apr-11	13:00-13:30	Boulder breaking and drilling on slope surface	Background noise from traffic	Sunny	Façade
UTP 2	73.4	74.4	63.7	01-Apr-11	13:35-14:05	Boulder breaking and drilling on slope surface	Background noise from traffic	Sunny	Façade
UTP 3	70.4	73.4	67.2	01-Apr-11	14:11-14:41	Boulder breaking and drilling on slope surface	N/A	Sunny	Façade
UTP 4	62.9	65.3	54.3	01-Apr-11	14:48-15:18	Operation of backhoe	N/A	Sunny	Façade
UTP 5	63.3	68.4	53.7	01-Apr-11	15:19-15:49	Operation of backhoe	N/A	Sunny	Façade
UTP 6	67.3	70.3	55.7	01-Apr-11	15:53-16:23	Boulder breaking	N/A	Sunny	Façade
UTP 7	73.1	77.8	55.8	01-Apr-11	11:28-11:58	Boulder breaking	N/A	Sunny	Façade
UTP 8	67.9	71.8	60.1	01-Apr-11	10:56-11:26	Boulder breaking	N/A	Sunny	Façade
UTP 9	65.4	67.7	52.0	01-Apr-11	10:20-10:50	Boulder breaking	N/A	Sunny	Façade
UTP 10	57.2	57.5	43.4	01-Apr-11	09:41-10:11	Operation of backhoe and boulder breaking	N/A	Sunny	Façade
UTP 11	58.3	58.5	44.6	01-Apr-11	09:06-09:36	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Sunny	*Free field

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

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	69.2	73.4	60.2	08-Apr-11	08:45-09:24	Drilling noise & boulder breaking	N/A	Sunny	Façade
UTP 2	73.4	78.6	59.4	08-Apr-11	09:31-10:01	Drilling noise & boulder breaking	N/A	Sunny	Façade
UTP 3	66.4	69.5	58.8	08-Apr-11	10:10-10:40	Drilling noise & boulder breaking	N/A	Sunny	Façade
UTP 4	63.4	66.6	53.2	08-Apr-11	10:45-11:15	Operation of backhoe and boulder movement	N/A	Sunny	Façade
UTP 5	63.4	66.6	51.8	08-Apr-11	11:18-11:48	Operation of backhoe and boulder movement	N/A	Sunny	Façade
UTP 6	68.8	73.4	44.6	08-Apr-11	16:00-16:30	Operation of backhoe and boulder movement	N/A	Sunny	Façade
UTP 7	70.1	70.9	44.6	08-Apr-11	15:27-15:57	Boulder breaking	N/A	Sunny	Façade
UTP 8	74.2	80.2	60.2	08-Apr-11	14:54-15:24	Boulder breaking	N/A	Sunny	Façade
UTP 9	68.8	71.3	48.8	08-Apr-11	14:18-14:48	Operation of backhoe and boulder breaking	N/A	Sunny	Façade
UTP 10	54.8	55.0	41.2	08-Apr-11	13:36-14:06	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	N/A	Sunny	Façade
UTP 11	58.2	58.5	43.8	08-Apr-11	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	N/A	Sunny	*Free field

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

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	70.4	75.3	56.4	15-Apr-11	15:25-15:55	Drilling noise	Background noise from traffic	Sunny	Façade
UTP 2	64.4	66.8	52.3	15-Apr-11	16:08-16:38	Drilling noise	Background noise from traffic	Sunny	Façade
UTP 3	68.5	70.4	62.2	15-Apr-11	14:44-15:14	Drilling noise and operation noise of backhoe	N/A	Sunny	Façade
UTP 4	70.2	76.8	58.8	15-Apr-11	13:32-14:02	Operation noise of backhoe and boulder movement	N/A	Sunny	Façade
UTP 5	66.8	72.4	51.6	15-Apr-11	13:00-13:30	Operation noise of backhoe and boulder movement	N/A	Sunny	Façade
UTP 6	68.8	72.6	60.5	15-Apr-11	14:06-14:36	Operation noise of backhoe and boulder movement	N/A	Sunny	Façade
UTP 7	73.4	78.4	64.5	15-Apr-11	11:24-11:54	Operation noise of backhoe and hydraulic breaker, boulder movement and boulder breaking	N/A	Sunny	Façade
UTP 8	63.8	65.2	57.6	15-Apr-11	10:52-11:22	Operation noise of hydraulic breaker and boulder breaking	N/A	Sunny	Façade
UTP 9	63.8	65.2	57.6	15-Apr-11	10:17-10:47	Boulder breaking	N/A	Sunny	Façade
UTP 10	58.8	59.4	52.2	15-Apr-11	09:33-10:03	Boulder breaking	N/A	Sunny	Façade
UTP 11	56.3	56.6	44.2	15-Apr-11	08:58-09:28	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	N/A	Sunny	*Free field

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

Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	69.2	70.9	54.9	21-Apr-11	09:13-09:43	Boulder movement	Background noise from traffic, public noise	Sunny	Façade
UTP 2	62.4	65.9	55.2	21-Apr-11	16:30-17:00	Boulder movement	N/A	Sunny	Façade
UTP 3	62.8	65.4	58.7	21-Apr-11	09:46-10:16	Boulder movement	Background noise from traffic	Sunny	Façade
UTP 4	69.7	71.2	64.9	21-Apr-11	10:23-10:53	Operation noise of backhoe and boulder movement	Public noise	Sunny	Façade
UTP 5	70.4	72.1	65.1	21-Apr-11	10:54-11:24	Operation noise of backhoe and boulder movement	Public noise	Sunny	Façade
UTP 6	63.3	65.6	49.1	21-Apr-11	11:26-11:56	Operation noise of backhoe	Public noise	Sunny	Façade
UTP 7	72.0	76.7	57.7	21-Apr-11	13:16-13:46	Operation noise of backhoe	Public noise	Sunny	Façade
UTP 8	73.8	75.6	59.9	21-Apr-11	13:46-14:16	Operation noise of backhoe and boulder movement	Public noise	Sunny	Façade
UTP 9	69.1	72.0	54.4	21-Apr-11	14:18-14:48	Operation noise of backhoe and boulder movement	Public noise	Sunny	Façade
UTP 10	44.0	54.3	53.7	21-Apr-11	15:32-16:02	Operation noise of backhoe and boulder movement	N/A	Sunny	Façade
UTP 11	54.1	57.8	47.8	21-Apr-11	15:00-15:20	The measured noise level was dominated by the background noise in the immediate vicinity of the monitoring location due to its large distance from the construction activities	N/A	Sunny	*Free field

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

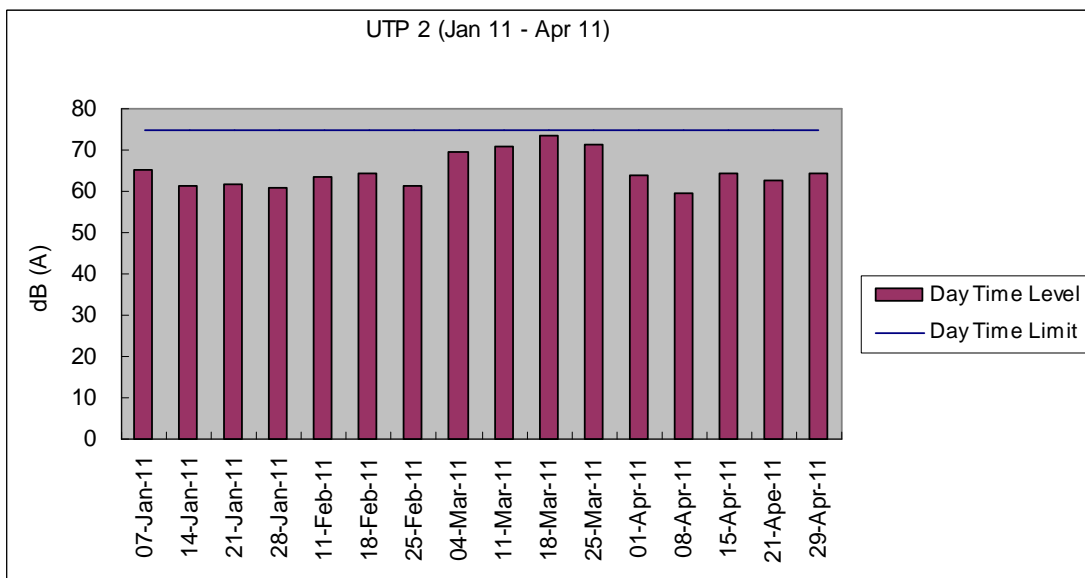
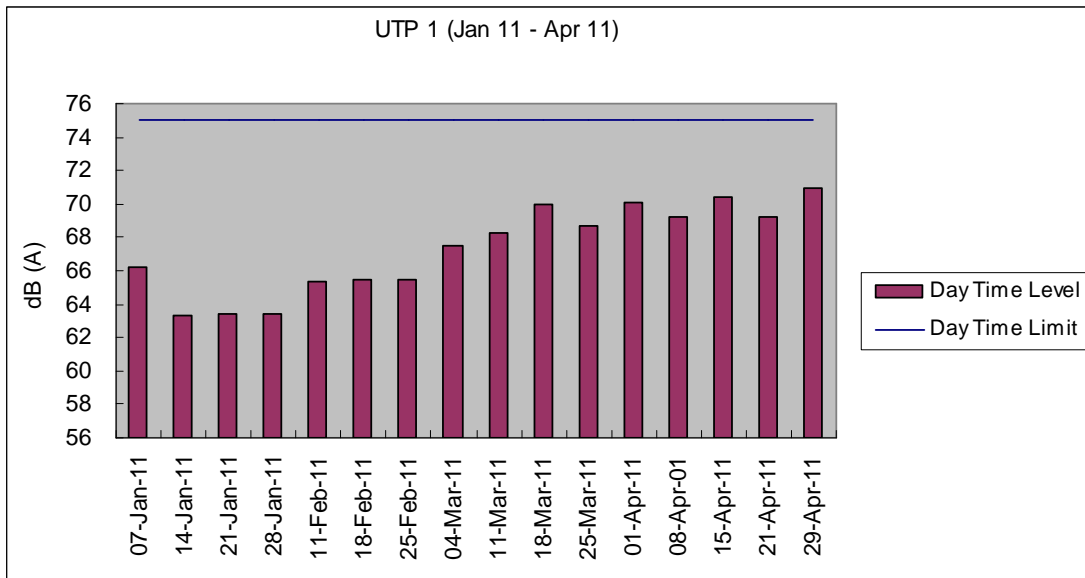
Location	Leq 30min	L ₁₀ 30min	L ₉₀ 30min	Date	Time Duration	Major Construction Noise	Other Noise source	Weather	Location description
UTP 1	71.0	72.2	63.0	29-Apr-11	15:18-15:48	Cement pouring	Background noise from traffic, public noise	Overcast	Façade
UTP 2	64.2	66.9	56.3	29-Apr-11	15:54-16:24	Cement pouring	Background noise from traffic	Overcast	Façade
UTP 3	N/A	N/A	N/A	29-Apr-11	N/A	N/A	N/A	Raining**	Façade
UTP 4	N/A	N/A	N/A	29-Apr-11	N/A	N/A	N/A	Raining**	Façade
UTP 5	69.1	71.1	57.5	29-Apr-11	10:33-11:03	Operation noise of backhoe and boulder movement	Public noise and rooftop construction in neighbourhood	Overcast	Façade
UTP 6	58.4	60.5	49.6	29-Apr-11	14:33-15:03	Operation noise of backhoe and boulder movement	N/A	Overcast	Façade
UTP 7	67.7	72.2	56.5	29-Apr-11	10:01-10:31	Operation noise of backhoe and boulder movement	Public noise	Overcast	Façade
UTP 8	71.7	74.3	64.6	29-Apr-11	13:27-13:57	Operation noise of backhoe and boulder movement	N/A	Overcast	Façade
UTP 9	60.5	67.9	58.4	29-Apr-11	13:58-14:28	Operation noise of backhoe and boulder movement	N/A	Overcast	Façade
UTP 10	58.6	61.2	67.0	29-Apr-11	08:42-09:12	Operation noise of backhoe and boulder movement	N/A	Overcast	Façade
UTP 11	55.1	58.3	49.2	29-Apr-11	09:20-09:50	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	N/A	Overcast	*Free field

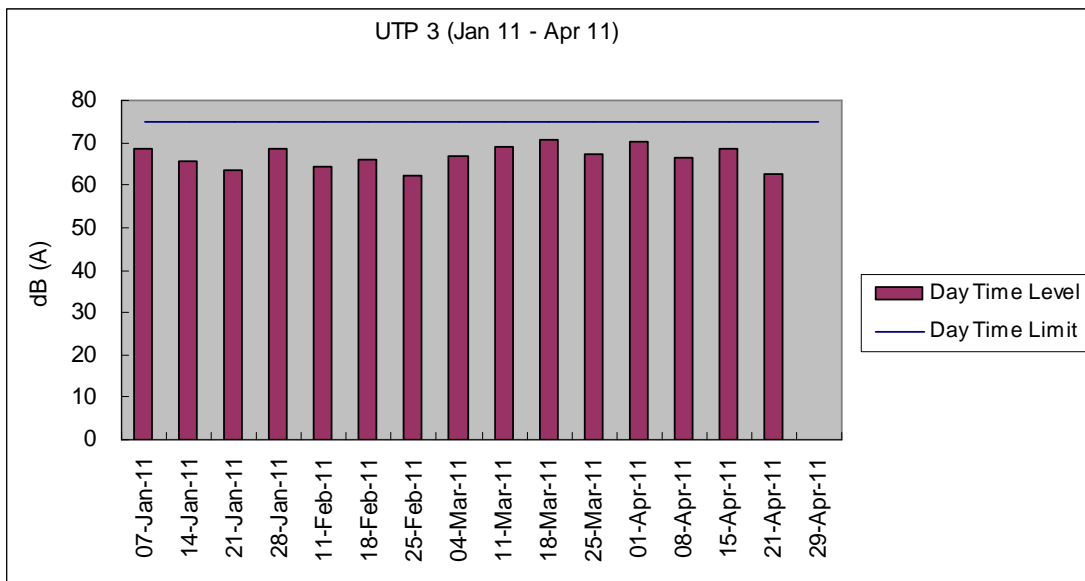
Note* An Additional of 3dB(A) had been added to the measurement result due to Free Field Correction

Note** Noise monitoring for UTP3 and UTP4 was cancelled due to adverse weather. Compensatory measurement, which was scheduled to be on 30th April 2011, was also cancelled due to the presence of rain.

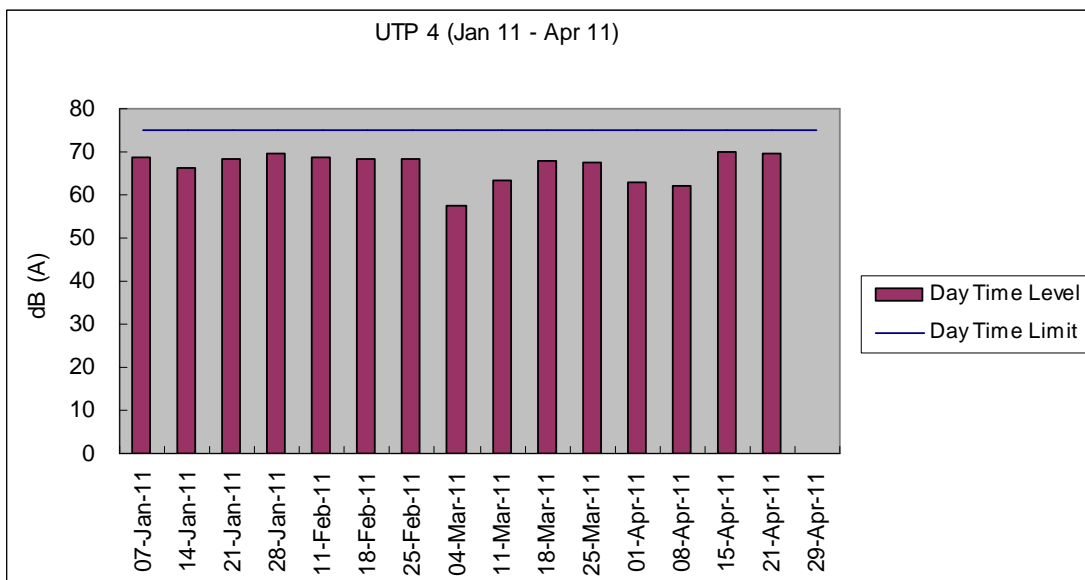
Graphical plot for noise measurements

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

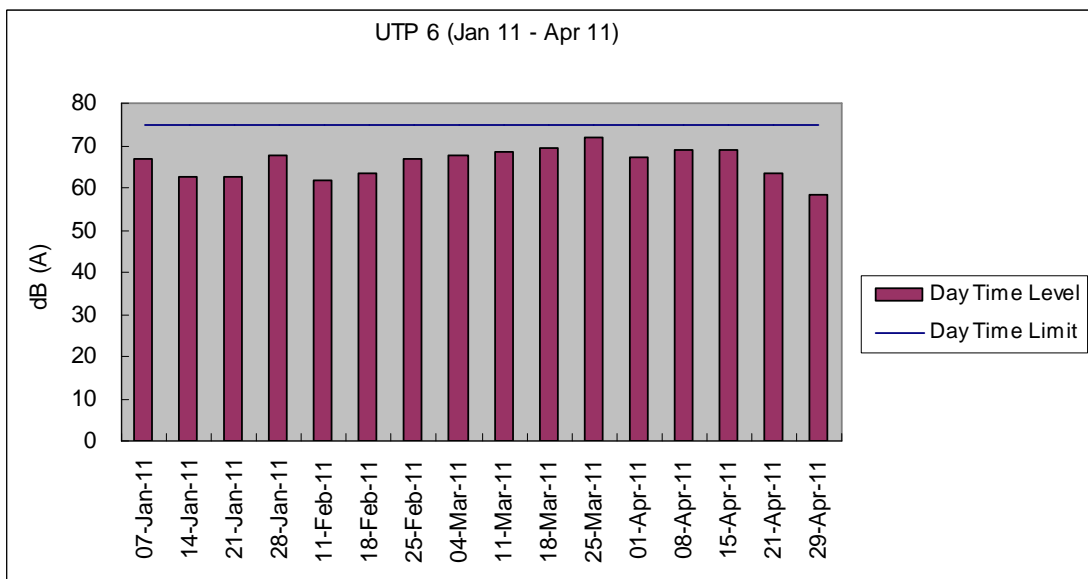
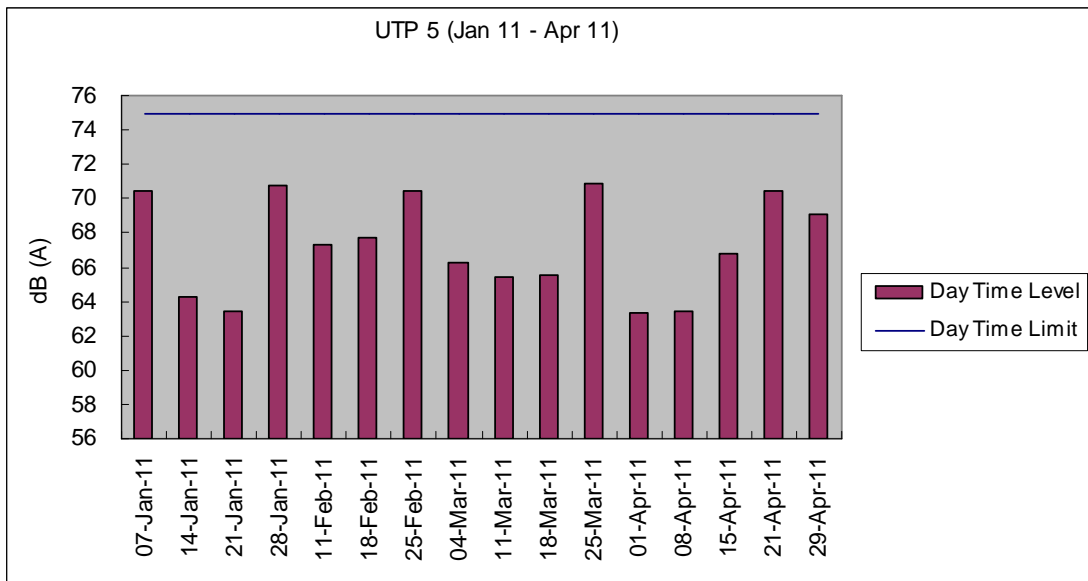


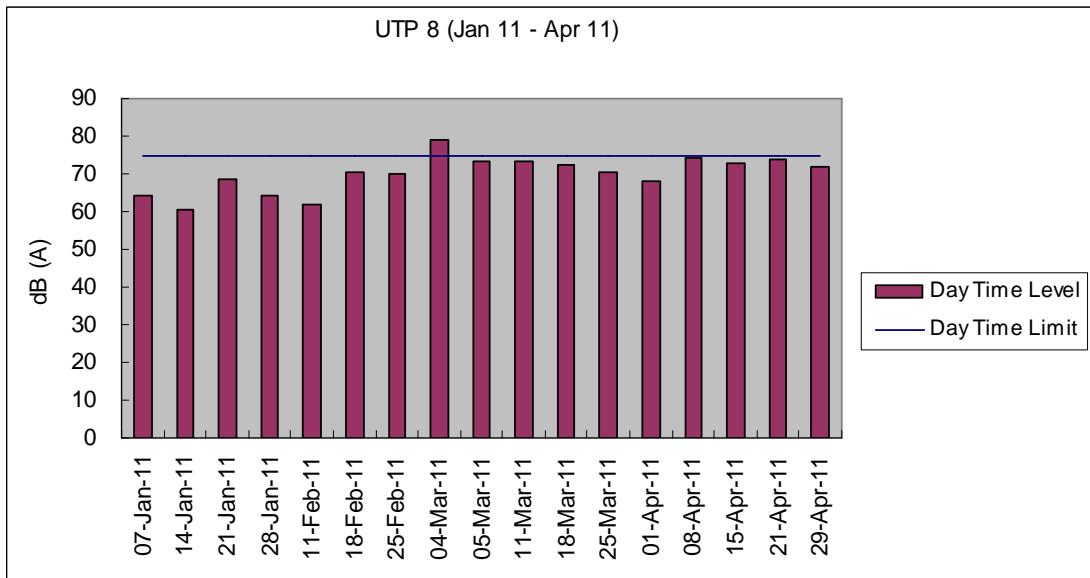
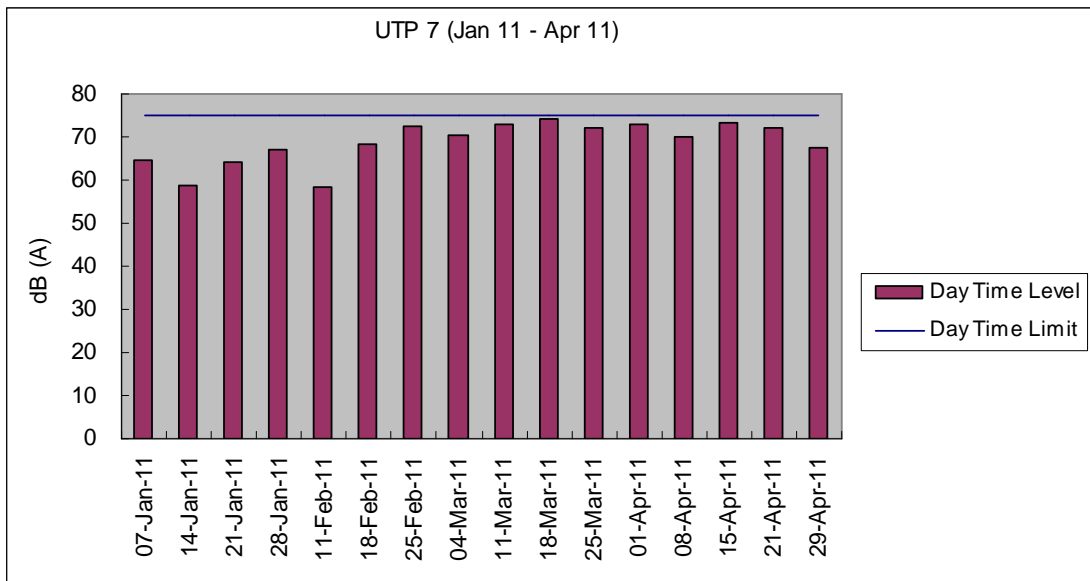


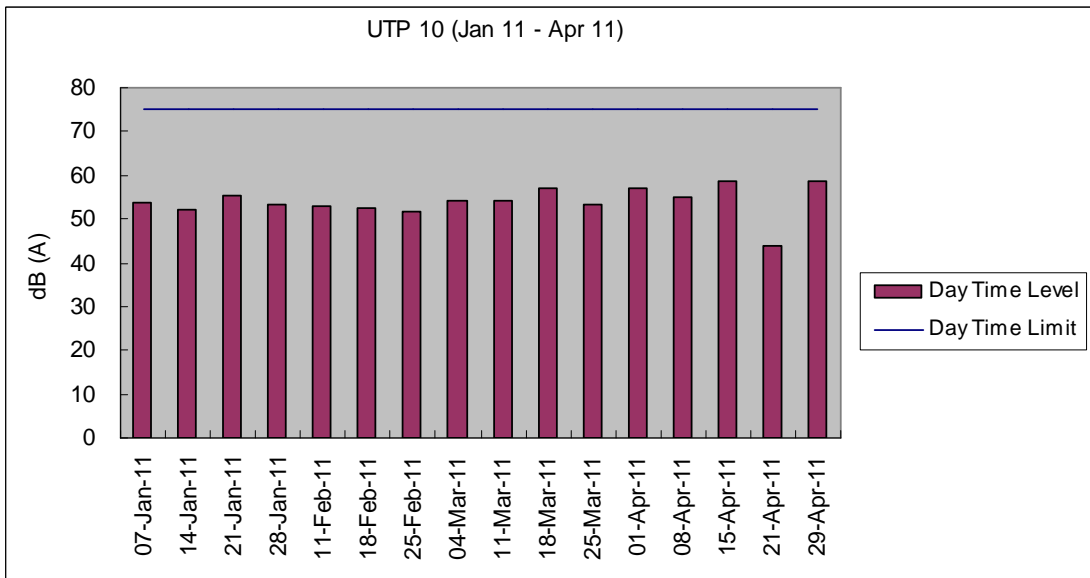
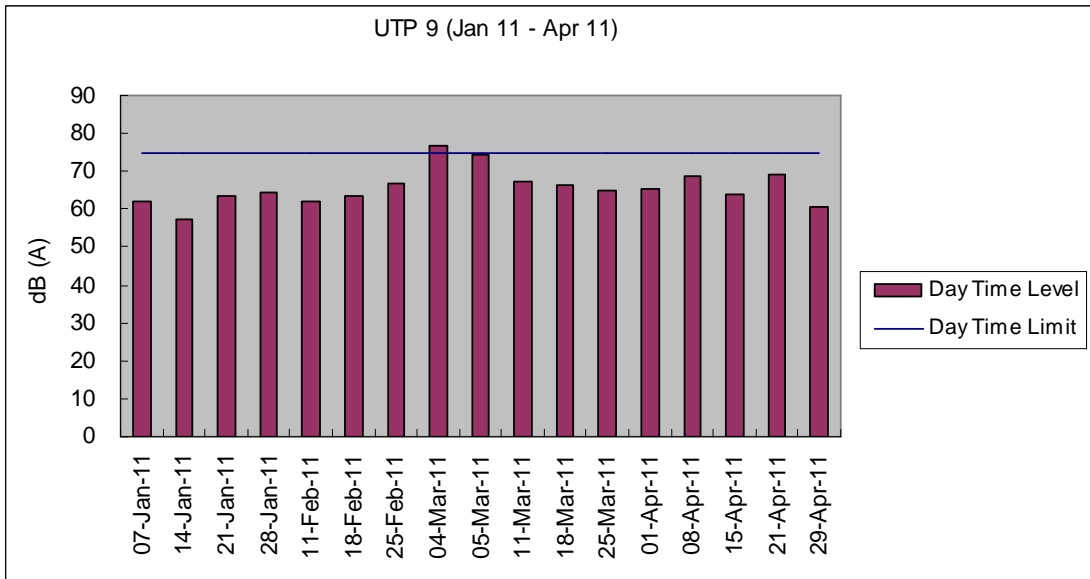
* Noise monitoring for UTP3 on 29th April 2011 was cancelled due to adverse weather. Compensatory measurement, which was scheduled to be on 30th April 2011, was also cancelled due to the presence of rain.

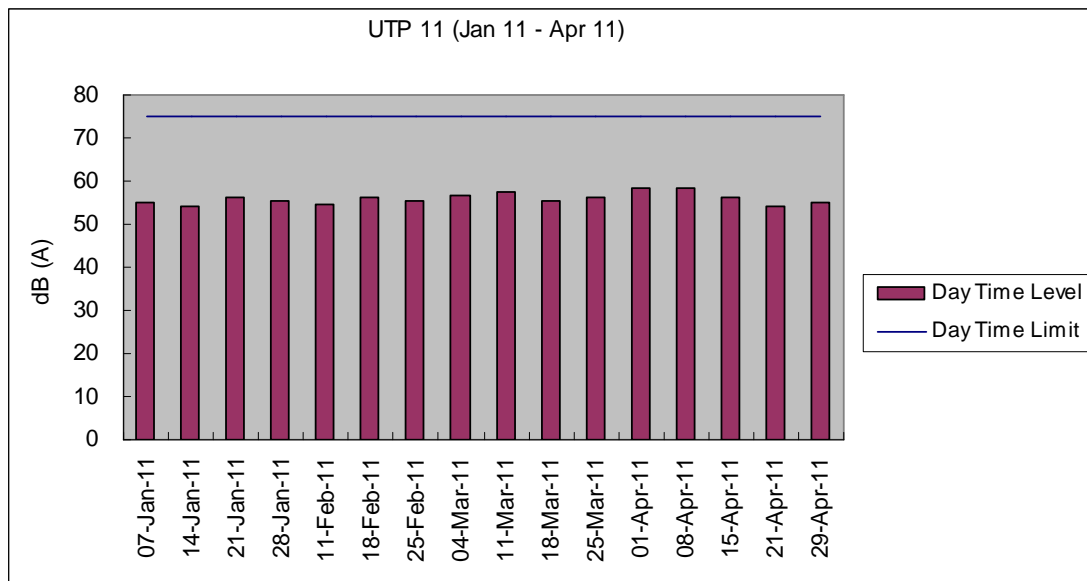


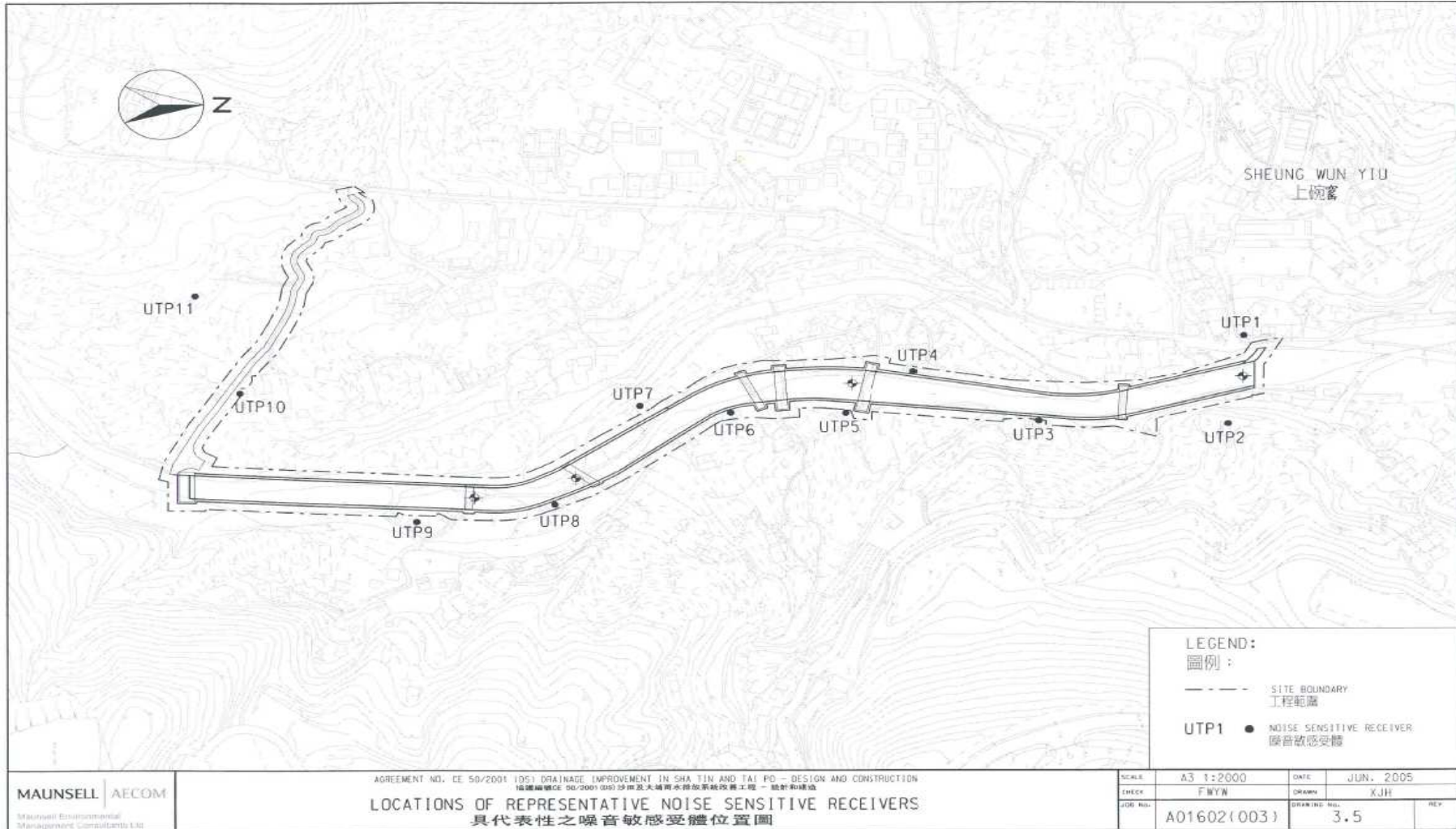
* Noise monitoring for UTP4 on 29th April 2011 was cancelled due to adverse weather. Compensatory measurement, which was scheduled to be on 30th April 2011, was also cancelled due to the presence of rain.











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 Management Consultants Ltd

AGREEMENT NO. CE 50/2001 (05) DRAINAGE IMPROVEMENT IN SHA TIN AND TAI PO - DESIGN AND CONSTRUCTION
 協議編號 CE 50/2001 (05) 沙田及大埔雨水排放系統改善工程 - 設計和建造
LOCATIONS OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS
 具代表性之噪音敏感受體位置圖

SCALE	A3 1:2000	DATE	JUN. 2005
CHECK	F.W.Y.W.	DRAWN	X.J.H.
JOB NO.	A01602(003)	DRAWING NO.	3.5
		REV	

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

Master Schedule of EM&A works in April 2011

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

Master Schedule of EM&A works in May 2011

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

Appendix F: Cumulative complaint log

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

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	Implemented	Not required
	-Use well maintained construction plant	Implemented	Not required
	-Shut down plants between work periods	Implemented	Not required
	-Install silencers on construction equipment	Implemented	Not required
	-Locate mobile plant far away from NSRs	Implemented	Not required
	-Quiet plants should be used	Implemented	Not required
	-2m high temporary noise barriers, as stipulated in EP condition 2.9, 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	Implemented	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	Implemented	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	Implemented	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	Non-compliance identified	Ongoing

	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	Non-compliance identified	Ongoing
	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 showing amount of wastes generated, reused and disposed since 15th September 2008

Type of waste	Inert Waste			Non-Inert Waste			Chemical Waste	
	Amount generated	Amount reused	Amount disposed	Amount generated	Amount reused	Amount disposed	Amount generated	Amount disposed*
Year 2008 to 2009	36.9m ³	0	36.9m ³	2.000 tonnes	0	2.000 tonnes	20kg	20kg
Year 2010	1955m ³	1955m ³	0	0.192 tonnes	0	0.192 tonnes	0	0
January 2011	117m ³	117m ³	0	0.040 tonnes	0	0.040 tonnes	0	0
February 2011	581m ³	581m ³	0	0.045 tonnes	0	0.045 tonnes	0	0
March 2011	927m ³	927m ³	0	0.047 tonnes	0	0.047 tonnes	0	0
April 2011	467m ³	467m ³	0	0.050 tonnes	0	0.050 tonnes	0	0
Total	4083.9m³	4047m³	36.9m³	2.374 tonnes	0	2.374 tonnes	20kg	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 (Rev. No. 15)

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 (15)

ID	任務名稱	Duration	Start	Finish	2010				2011				2012		2013	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1072	Install Stone Facing	14 days	2/6/2011	1/8/6/2011												
1073	Reinstatement of river bed	3 days	2/9/2011	2/2/6/2011												
1074	Variant Order No. 178	37 days	2/6/2011	5/8/2011												
1075	Temp. Haul Rd/Diversion	7 days	2/6/2011	3/6/6/2011												
1076	Excavation	14 days	2/7/2011	1/8/7/2011												
1077	Formwork	7 days	1/9/7/2011	2/6/7/2011												
1078	Rc-BAR	7 days	2/7/2011	3/8/2011												
1079	Concrete	2 days	4/8/2011	5/8/2011												
1080	Programme of Upper Tai Po River	1747 days?	2/8/9/2007	31/10/2012												
1082	Wet Season of 2010	184 days	1/4/2010	1/10/2010												
1083	Wet Season of 2011	183 days	1/4/2011	1/11/2011												
1084	Wet Season of 2012	184 days	1/9/2012	31/10/2012												
1085	Works Suspended Due to Villager's Rall	42 days?	7/11/2010	18/12/2010												
1086	Ch 230-350	1615 days?	2/8/9/2007	24/5/2012												
1087	Gabion Wall (Ch 230-275 RHS) TG17/G1A	40 days	2/8/1/2011	9/9/2011												
1088	Excavation and Formation	20 days	2/8/1/2011	16/2/2011												
1089	Gabion Wall Construction (Ch 235-275 LHS)	14 days	17/2/2011	2/3/2011												
1090	Backfilling	6 days	3/3/2011	9/3/2011												
1091	Reinforcing Wall (Ch 275-330 RHS) TR1 (replaced by AD1)	220 days?	3/3/2011	25/11/2011												
1092	Excavation and Formation	12 days	3/3/2011	16/3/2011												
1093	Laying Concrete block and gabion units (Ch275-320 RHS)	12 days	17/3/2011	30/3/2011												
1094	Backfilling	6 days	31/3/2011	7/4/2011												
1095	Excavation and Formation	7 days	12/11/2011	19/11/2011												
1096	Laying Concrete block and gabion units (Ch330-330 RHS)	4 days	21/11/2011	24/11/2011												
1097	Backfilling	1 day?	25/11/2011	25/11/2011												
1098	Drainage & Footpath (Ch 275-320 RHS)	21 days	31/0/2011	27/10/2011												
1099	Construction of drainage & footpath	21 days	31/0/2011	27/10/2011												
1100	Gabion Wall (Ch 315-330 LHS) TG2A	16 days	10/2/2012	28/2/2012												
1101	Excavation and Formation	7 days	10/2/2012	17/2/2012												
1102	Gabion Wall Construction (Ch 315-330 LHS)	7 days	18/2/2012	25/2/2012												
1103	Backfilling	2 days	27/2/2012	28/2/2012												
1104	Maintenance Staircase (Ch 315 LHS)	4 days	6/2/2012	9/2/2012												
1105	Formwork and concreting	4 days	6/2/2012	9/2/2012												
1106	Drainage & Footpath (Ch 307-330 LHS)	14 days	27/2/2012	13/3/2012												
1107	Construction of drainage & footpath	14 days	27/2/2012	13/3/2012												
1108																
1109	Temp Utility and Pedestrian Diversion at Ch230	171 days	2/9/8/2011	24/3/2012												
1110	Temp UU diversion near Ch230	39 days	2/9/8/2011	15/10/2011												
1111	Temp Pedestrian diversion	119 days	1/11/2011	24/3/2012												
1112																
1113																
1114	Demolition of Interim Footbridge at Ch230	7 days	12/11/2011	19/11/2011												
1115	Demolition of Interim Footbridge	7 days	12/11/2011	19/11/2011												
1116																
1117	Gabion Wall (Ch 230-257 LHS) TG2/TG2A/TGCB	1615 days?	2/8/9/2007	24/5/2012												
1118	Excavation and Formation	14 days	21/11/2011	6/12/2011												
1119	Gabion Wall Construction (Ch 230-257 LHS)	7 days	7/12/2011	14/12/2011												
1120	Backfilling	3 days	15/12/2011	17/12/2011												
1121	Maintenance Staircase (Ch 242 LHS)	4 days	19/12/2011	22/12/2011												
1122	Formwork and concreting	4 days	19/12/2011	22/12/2011												
1123	Gabion Wall (Ch 257-270 LHS) TG4	11 days	23/12/2011	7/1/2012												
1124	Excavation and Formation	5 days	23/12/2011	30/12/2011												
1125	Gabion Wall Construction (Ch 257-270 LHS)	3 days	31/12/2011	4/1/2012												
1126	Backfilling	3 days	5/1/2012	7/1/2012												
1127	Retaining Wall (Ch 275-315 LHS) TR1 (replaced by AD1)	46 days	9/1/2012	5/3/2012												
1128	Excavation and Formation	21 days	9/1/2012	4/2/2012												
1129	Laying Concrete block and gabion units	18 days	6/2/2012	25/2/2012												
1130	Backfilling	7 days	27/2/2012	5/3/2012												
	Drainage & Footpath (Ch 200-307 LHS)	60 days	19/12/2011	3/3/2012												

Revised Master Prog Rev 15
日期: 27/3/2011

任務進度: [Progress Bar] 里程碑: [Milestone Bar] 摘要: [Summary Bar] 上綱型里程碑: [Gantt Chart]

外部任務: [External Task Bar] 專案摘要: [Project Summary Bar] 摘要詳情: [Summary Detail Bar]

第 19 頁

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 (15)

ID	任務名稱	Duration	Start	Finish	2010				2011				2012				2013	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
1131	Construction of drainage & footpath (Ch 200-307 LHS)	60 days	19/12/2011	3/3/2012														
1132	Step 2 (Ch 236)	8 days	15/12/2011	23/12/2011														
1133	Construction of Step 2 (Ch 236)	8 days	15/12/2011	23/12/2011														
1134	Cascade (Ch 275)	8 days	27/12/2012	6/3/2012														
1135	Construction of Cascade (Ch 275)	8 days	27/12/2012	6/3/2012														
1136	Step 3 (Ch 307)	8 days	7/3/2012	15/3/2012														
1137	Construction of Step 3 (Ch 307)	8 days	7/3/2012	15/3/2012														
1138	River Bed formation (Ch 230-330)	20 days	16/3/2012	12/4/2012														
1139	Piling Grade 500 ice Stone	20 days	16/3/2012	12/4/2012														
1140	Lighting at CH 250-320	45 days	5/3/2012	2/5/2012														
1141	Construction of Downpipes / Downings	21 days	5/3/2012	28/3/2012														
1142	Public Lighting Installation (CE2318)	12 days	29/3/2012	16/4/2012														
1143	Public Lighting Installation (CE2317)	12 days	29/3/2012	16/4/2012														
1144	T&C	6 days	17/4/2012	23/4/2012														
1145	Removal of existing lighting (VA1311-21)	6 days	24/4/2012	2/5/2012														
1146																		
1147	Footbridge TB04 (Ch 330)	113 days	21/11/2011	11/4/2012														
1148	Construction of Abutment A (LHS)	22 days	18/2/2012	14/3/2012														
1149	Excavation and Blinding	5 days	18/2/2012	23/2/2012														
1150	Formwork and rebar fixing for base slab	5 days	24/2/2012	29/2/2012														
1151	Concreting of base slab	1 day	1/3/2012	1/3/2012														
1152	Stripping off formwork	3 days	2/3/2012	5/3/2012														
1153	Rebar fixing and shuttering formwork for column	5 days	6/3/2012	10/3/2012														
1154	Concreting of column	1 day	12/3/2012	12/3/2012														
1155	Stripping off formwork	2 days	13/3/2012	14/3/2012														
1156	Construction of Abutment B (RHS)	23 days	21/11/2011	16/12/2011														
1157	Excavation and Blinding	5 days	21/11/2011	25/11/2011														
1158	Formwork and rebar fixing for base slab	5 days	26/11/2011	1/12/2011														
1159	Concreting of base slab	1 day	2/12/2011	2/12/2011														
1160	Stripping off formwork	3 days	3/12/2011	6/12/2011														
1161	Rebar fixing and shuttering formwork for column	5 days	7/12/2011	12/12/2011														
1162	Concreting of base slab	1 day	13/12/2011	13/12/2011														
1163	Stripping off formwork	3 days	14/12/2011	16/12/2011														
1164	Construction of decking	27 days	7/3/2012	11/4/2012														
1165	Formwork and rebar fixing for decking	10 days	7/3/2012	17/3/2012														
1166	Concreting	1 day	19/3/2012	19/3/2012														
1167	Stripping off formwork	14 days	20/3/2012	5/4/2012														
1168	Railing installation	2 days	10/4/2012	11/4/2012														
1169	Demolition of Bridge TB-A	1 day	31/3/2012	31/3/2012														
1170	Demolition works	1 day	31/3/2012	31/3/2012														
1171	Lighting at Footbridge TB04	11 days	19/3/2012	30/3/2012														
1172	Construction of Downpipes / Downings	7 days	19/3/2012	26/3/2012														
1173	Public Lighting Installation (CE2315)	3 days	27/3/2012	29/3/2012														
1174	Public Lighting Installation (CE2316)	3 days	27/3/2012	29/3/2012														
1175	T&C	1 day	30/3/2012	30/3/2012														
1176	Construction of Gabion Wall at TB-A	5 days	2/4/2012	11/4/2012														
1177	Excavation and Formation	2 days	2/4/2012	3/4/2012														
1178	Gabion Wall Construction (Ch 239-257 LHS)	2 days	5/4/2012	10/4/2012														
1179	Backfilling	1 day	11/4/2012	11/4/2012														
1180																		
1181	Footbridge TB05 (Ch 350)	129 days	21/11/2011	2/5/2012														
1182	Construction of Abutment A (LHS)	21 days	24/2/2012	19/3/2012														
1183	Excavation and Blinding	5 days	24/2/2012	29/2/2012														
1184	Formwork and rebar fixing for base slab	4 days	1/3/2012	5/3/2012														
1185	Concreting of base slab	1 day	6/3/2012	6/3/2012														
1186	Stripping off formwork	3 days	7/3/2012	9/3/2012														
1187	Rebar fixing and shuttering formwork for column	4 days	10/3/2012	14/3/2012														
1188	Concreting of column	1 day	15/3/2012	15/3/2012														
1189	Stripping off formwork	3 days	16/3/2012	19/3/2012														

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					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
1190	Construction of Abutment B (RHS)	19 days	21/11/2011	12/12/2011															
1191	Excavation and Blinding	5 days	21/11/2011	25/11/2011															
1192	Formwork and rebar fixing for base slab	2 days	25/11/2011	28/11/2011															
1193	Concrete of base slab	1 day	29/11/2011	29/11/2011															
1194	Stripping of formwork	3 days	30/11/2011	2/12/2011															
1195	Rebar fixing and shuttering formwork for column	4 days	31/12/2011	7/1/2012															
1196	Concrete of column	1 day	8/1/2012	8/1/2012															
1197	Stripping of formwork	3 days	9/1/2012	12/1/2012															
1198	Construction of decking	25 days	25/1/2012	2/2/2012															
1199	Formwork and rebar fixing for decking	8 days	25/1/2012	10/4/2012															
1200	Concrete	1 day	11/4/2012	11/4/2012															
1201	Stripping of formwork	14 days	12/4/2012	27/4/2012															
1202	Rebar installation	2 days	30/4/2012	2/5/2012															
1203	Demolition of Bridge TB-B	1 day	2/5/2012	2/5/2012															
1204	Demolition works	1 day	2/5/2012	2/5/2012															
1205	Lighting at Footbridge TB05	10 days	11/4/2012	21/4/2012															
1206	Construction of Downpipes / Drainings	6 days	11/4/2012	17/4/2012															
1207	Public lighting Installation (CE213)	3 days	18/4/2012	20/4/2012															
1208	Public lighting installation (CE214)	3 days	18/4/2012	20/4/2012															
1209	T&C	1 day	21/4/2012	21/4/2012															
1210	Construction of Gabion Wall at TB-B	5 days	24/4/2012	30/4/2012															
1211	Excavation and Formation	2 days	24/4/2012	25/4/2012															
1212	Gabion Wall Construction (Ch 230-257 LHS)	2 days	25/4/2012	27/4/2012															
1213	Backfilling	1 day	30/4/2012	30/4/2012															
1214																			
1215																			
1216	Gabion Wall (Ch 335-345 LHS) T&C/T&C2A	16 days	20/3/2012	11/4/2012															
1217	Excavation and Formation	6 days	20/3/2012	25/3/2012															
1218	Gabion Wall Construction (Ch 335-345 LHS)	6 days	27/3/2012	2/4/2012															
1219	Backfilling	4 days	3/4/2012	11/4/2012															
1220	Drainage & Footpath (Ch 335-345 LHS)	12 days	12/4/2012	25/4/2012															
1221	Construction of drainage & footpath	12 days	12/4/2012	25/4/2012															
1222	Gabion Wall (Ch 330-345 RHS) T&C2	14 days	13/12/2011	30/12/2011															
1223	Excavation and Formation	4 days	13/12/2011	16/12/2011															
1224	Gabion Wall Construction (Ch 330-345 RHS)	6 days	17/12/2011	23/12/2011															
1225	Backfilling	4 days	24/12/2011	30/12/2011															
1226	Drainage & Footpath (Ch 330-340 RHS)	12 days	31/12/2011	1/1/2012															
1227	Construction of drainage & footpath	12 days	31/12/2011	1/1/2012															
1228																			
1229	River Bed formation (Ch 330-350)	8 days	30/4/2012	9/5/2012															
1230	Piling Grade 500 Ice Stone	8 days	30/4/2012	9/5/2012															
1231																			
1232	Step 4 (Ch 350)	8 days	20/3/2012	28/3/2012															
1233	Excavation and Blinding	4 days	20/3/2012	23/3/2012															
1234	Formwork and rebar fixing for base slab	2 days	24/3/2012	26/3/2012															
1235	Concrete of base slab	1 day	27/3/2012	27/3/2012															
1236	Stripping of formwork	1 day	28/3/2012	28/3/2012															
1237																			
1238	Ch 45-230	1615 days*	25/9/2007	24/5/2012															
1239	Footbridge TB02 (Ch 150)	452 days	21/10/2010	5/3/2012															
1240	Construction of Abutment A (LHS)	23 days	21/10/2010	24/10/2010															
1241	Excavation and Blinding	6 days	21/10/2010	7/10/2010															
1242	Formwork and rebar fixing for base slab	5 days	8/10/2010	12/10/2010															
1243	Concrete of base slab	1 day	13/10/2010	13/10/2010															
1244	Stripping of formwork	3 days	14/10/2010	16/10/2010															
1245	Rebar fixing and shuttering formwork for column	5 days	17/10/2010	21/10/2010															
1246	Concrete of column	1 day	22/10/2010	22/10/2010															
1247	Stripping of formwork	2 days	23/10/2010	24/10/2010															
1248	Construction of decking	35 days	23/3/2011	4/5/2011															

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1308	Public lighting Installation (CE231)	6 days	7/2/2012	13/2/2012								
1309	Public lighting Installation (CE232)	6 days	14/2/2012	20/2/2012								
1310	T&C	1 day	21/2/2012	21/2/2012								
1311	Removal of existing lighting (VA1309-21)	2 days	22/2/2012	23/2/2012								
1312	Step 1 (Ch 178)	13 days	28/2/2007	10/10/2007								
1313	Excavation and Blinding	7 days	28/2/2007	4/10/2007								
1314	Formwork and rebar fixing for base slab	4 days	5/10/2007	8/10/2007								
1315	Formwork and rebar fixing for base slab	4 days	5/10/2007	8/10/2007								
1316	Stripping of formwork	1 day	9/10/2007	9/10/2007								
1317	Construction of Gabion Wall (Ch 180-180)	1 day	10/10/2007	10/10/2007								
1318	Removal of existing lighting (VA1309-21)	6 days	11/10/2007	16/10/2007								
1319	Placing Grade 500 Ice Stone	6 days	11/10/2007	16/10/2007								
1320	Gabion Wall (Ch 178-210 RHS) TG1/TG1A	34 days	16/12/2011	31/1/2012								
1321	Excavation and formwork	20 days	16/12/2011	11/1/2012								
1322	Construction of Gabion Wall (Ch 178-210 RHS)	10 days	12/1/2012	26/1/2012								
1323	Backfilling	4 days	27/1/2012	31/1/2012								
1324	Gabion Wall (Ch 210-222 RHS) TG1	14 days	27/1/2012	11/2/2012								
1325	Excavation and formwork	4 days	27/1/2012	31/1/2012								
1326	Construction of Gabion Wall (Ch 210-225 RHS)	6 days	1/2/2012	7/2/2012								
1327	Backfilling	4 days	8/2/2012	11/2/2012								
1328	Lighting CH 175-250	21 days	5/3/2012	26/3/2012								
1329	Construction of Drawpit / Ditches	12 days	5/3/2012	17/3/2012								
1330	Public lighting Installation (CE2319)	6 days	19/3/2012	24/3/2012								
1331	Public lighting Installation (CE2320)	6 days	19/3/2012	24/3/2012								
1332	Public lighting Installation (CE2322)	6 days	19/3/2012	24/3/2012								
1333	Public lighting Installation (CE2324)	6 days	19/3/2012	24/3/2012								
1334	T&C	1 day	26/3/2012	26/3/2012								
1335	Removal of existing lighting (VE2641-A)	2 days	27/3/2012	28/3/2012								
1336	Removal of existing lighting (VA1310-A1)	2 days	27/3/2012	28/3/2012								
1337	River Bed formation (Ch 180-230)	14 days	18/1/2012	6/2/2012								
1338	Placing Grade 500 Ice Stone	14 days	18/1/2012	6/2/2012								
1339	Ch -23-110	534 days	30/8/2010	8/5/2012								
1340	Retaining Wall at Access D (Boulder Trap)	41 days	18/2/2010	11/10/2010								
1341	Retaining Wall (RHS)	41 days	19/2/2010	11/10/2010								
1342	Excavation and blinding	6 days	19/2/2010	6/9/2010								
1343	Construction of Base Slab, Bay 2 and 4	8 days	7/9/2010	14/9/2010								
1344	Formwork and rebar fixing	4 days	7/9/2010	10/9/2010								
1345	Concrete	1 day	11/9/2010	11/9/2010								
1346	Stripping of formwork	3 days	12/9/2010	14/9/2010								
1347	Formwork and rebar fixing	8 days	15/9/2010	22/9/2010								
1348	Formwork and rebar fixing	4 days	15/9/2010	18/9/2010								
1349	Concrete	1 day	19/9/2010	19/9/2010								
1350	Stripping of formwork	3 days	20/9/2010	22/9/2010								
1351	Construction of Wall Stem, Bay 2 and 4	8 days	23/9/2010	30/9/2010								
1352	Formwork and rebar fixing	4 days	23/9/2010	26/9/2010								
1353	Concrete	1 day	27/9/2010	27/9/2010								
1354	Stripping of formwork	3 days	28/9/2010	30/9/2010								
1355	Construction of Wall Stem, Bay 1 and 3	11 days	1/10/2010	11/10/2010								
1356	Formwork and rebar fixing	4 days	1/10/2010	4/10/2010								
1357	Concrete	1 day	5/10/2010	5/10/2010								
1358	Stripping of formwork	3 days	6/10/2010	8/10/2010								
1359	Backfill the Retaining Wall	3 days	9/10/2010	11/10/2010								
1360	Filling Work at Boulder Trap (RHS of downstream)	6 days	30/8/2010	4/9/2010								
1361	Filling works	6 days	30/8/2010	4/9/2010								
1362	Dead't Wall (Ch 60-75) RHS	23 days	12/11/2011	8/12/2011								
1363	Excavation and Blinding	4 days	12/11/2011	16/11/2011								
1364	Formwork and rebar fixing of base slab	5 days	17/11/2011	22/11/2011								
1365	Concrete of base slab	1 day	23/11/2011	23/11/2011								

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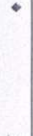








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1367	Stripping off formwork	1 day	24/11/2011	24/11/2011														
1368	Rebar fixing and shuttering formwork for column	5 days	25/11/2011	30/11/2011														
1369	Concreting	1 day	1/12/2011	1/12/2011														
1370	Stripping off formwork	1 day	2/12/2011	2/12/2011														
1371	Backfill	5 days	3/12/2011	8/12/2011														
1372	Box Culvert TB03 (Ch 45)	471 days	1/11/2010	8/5/2012														
1373	Construction of Base Slab	15 days	9/12/2011	28/12/2011														
1374	Excavation and Binding	6 days	9/12/2011	15/12/2011														
1375	Formwork and rebar fixing	5 days	16/12/2011	21/12/2011														
1376	Concreting	1 day	22/12/2011	22/12/2011														
1377	Stripping off formwork	3 days	23/12/2011	28/12/2011														
1378	Construction of Wall Stem and Top Slab	10 days	29/12/2011	10/1/2012														
1379	Formwork and rebar fixing	4 days	29/12/2011	3/1/2012														
1380	Concreting	1 day	4/1/2012	4/1/2012														
1381	Stripping off formwork	5 days	5/1/2012	10/1/2012														
1382	Retaining Wall at Access D (Boulder Trap)	41 days	1/11/2010	1/1/2012														
1383	Retaining Wall (LHS)	41 days	1/11/2010	1/1/2012														
1384	Excavation and binding	6 days	1/11/2010	6/11/2010														
1385	Construction of Base Slab, Bay 2	8 days	7/11/2010	14/11/2010														
1386	Formwork and rebar fixing	4 days	7/11/2010	10/11/2010														
1387	Concreting	1 day	11/11/2010	11/11/2010														
1388	Stripping off formwork	3 days	12/11/2010	14/11/2010														
1389	Construction of Base Slab, Bay 1	8 days	15/11/2010	22/11/2010														
1390	Formwork and rebar fixing	4 days	15/11/2010	18/11/2010														
1391	Concreting	1 day	19/11/2010	19/11/2010														
1392	Stripping off formwork	3 days	20/11/2010	22/11/2010														
1393	Construction of Wall Stem, Bay 2	8 days	23/11/2010	30/11/2010														
1394	Formwork and rebar fixing	4 days	23/11/2010	26/11/2010														
1395	Concreting	1 day	27/11/2010	27/11/2010														
1396	Stripping off formwork	3 days	28/11/2010	30/11/2010														
1397	Construction of Wall Stem, Bay 1	11 days	1/12/2010	11/12/2010														
1398	Formwork and rebar fixing	4 days	1/12/2010	4/12/2010														
1399	Concreting	1 day	5/12/2010	5/12/2010														
1400	Stripping off formwork	3 days	6/12/2010	8/12/2010														
1401	Backfill the Retaining Wall	3 days	9/12/2010	11/12/2010														
1402	Vehicle Access D	277 days	1/6/2011	8/5/2012														
1403	Road Kerb and formation	80 days	1/6/2011	3/9/2011														
1404	Pavement	30 days	14/3/2012	21/4/2012														
1405	Railing and street furniture	12 days	23/4/2012	8/5/2012														
1406	Lighting at Access D	193 days	1/8/2011	22/9/2012														
1407	Construction of Draw pits / Ductings	21 days	1/8/2011	24/8/2011														
1408	Public lighting installation (CE230)	3 days	14/3/2012	16/3/2012														
1409	Public lighting installation (CE230)	3 days	14/3/2012	16/3/2012														
1410	Public lighting installation (CE230)	3 days	14/3/2012	16/3/2012														
1411	T&C	1 day	17/3/2012	17/3/2012														
1412	Removal of existing lighting (VA1278-A1)	2 days	19/3/2012	20/3/2012														
1413	Removal of existing lighting (VA1279-A1)	2 days	21/3/2012	22/3/2012														
1414																		
1415	Ch 350-430	411 days	3/1/2011	11/5/2012														
1416	Retaining Wall (Ch 350-400 LHS) TRI (AD)	38 days	12/11/2011	28/12/2011														
1417	Excavation and Formation	20 days	12/11/2011	5/12/2011														
1418	Laying concrete blocks and gabion blocks	15 days	6/12/2011	22/12/2011														
1419	Backfilling	5 days	23/12/2011	28/12/2011														
1420	Retaining Wall (Ch 400-450 LHS) TRI (AD)	22 days	1/4/2011	30/4/2011														
1421	Excavation and Formation	12 days	1/4/2011	15/4/2011														
1422	Laying concrete blocks and gabion blocks	8 days	15/4/2011	28/4/2011														
1423	Backfilling	2 days	29/4/2011	30/4/2011														
1424	River Bed formation (Ch 350-400)	411 days	3/1/2011	11/5/2012														
1425	Piling (Grade 500 (ice Stone)	4 days	16/4/2011	20/4/2011														

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					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
1426	Footbridge TB06 (Ch 400)	144 days	12/11/2011	11/5/2012															
1427	Construction of Abutment A (LHS)	22 days	12/11/2011	7/12/2011															
1428	Excavation and Blinding	6 days	12/11/2011	18/11/2011															
1429	Formwork and rebar fixing of base slab	4 days	19/11/2011	23/11/2011															
1430	Concreting of base slab	1 day	24/11/2011	24/11/2011															
1431	Stripping off formwork	3 days	25/11/2011	28/11/2011															
1432	Rebar Fixing and shuttering formwork for column	4 days	29/11/2011	2/12/2011															
1433	Concreting	1 day	3/12/2011	3/12/2011															
1434	Stripping off formwork	3 days	5/12/2011	7/12/2011															
1435	Construction of decking	24 days	12/4/2012	11/5/2012															
1436	Formwork and rebar fixing for decking	7 days	12/4/2012	19/4/2012															
1437	Concreting	1 day	20/4/2012	20/4/2012															
1438	Stripping off formwork	14 days	21/4/2012	9/5/2012															
1439	Rebar installation	2 days	10/5/2012	11/5/2012															
1440	Lighting at Footbridge TB06	14 days	20/4/2012	8/5/2012															
1441	Construction of Driveways / Dracings	6 days	20/4/2012	26/4/2012															
1442	Public lighting Installation (CE2311)	3 days	27/4/2012	2/5/2012															
1443	Public lighting Installation (CE2310)	3 days	3/5/2012	5/5/2012															
1444	TRC	2 days	7/5/2012	8/5/2012															
1445	Demolition of Bridge TB-C	3 days	2/4/2012	5/4/2012															
1446	Pedestrian Diversion/Demolition works	3 days	2/4/2012	5/4/2012															
1447	Construction of Gabion Wall at TB-C	6 days	10/4/2012	16/4/2012															
1448	Excavation and Formation	3 days	10/4/2012	12/4/2012															
1449	Gabion Wall Construction (Ch 230-257 LHS)	2 days	13/4/2012	14/4/2012															
1450	Backfilling	1 day	16/4/2012	16/4/2012															
1451	Retaining Wall (Ch 400-450 RHS) TR1 (replaced by /)	30 days	3/1/2011	1/2/2011															
1452	Excavation and Formation	12 days	3/1/2011	14/1/2011															
1453	Laying concrete blocks and gabion blocks	12 days	15/1/2011	26/1/2011															
1454	Backfilling	6 days	27/1/2011	1/2/2011															
1455	Retaining Wall (Ch 400-450 LHS) TR1 (replaced by /)	30 days	23/12/2011	2/2/2012															
1456	Excavation and Formation	12 days	23/12/2011	9/1/2012															
1457	Laying concrete blocks and gabion blocks	12 days	10/1/2012	26/1/2012															
1458	Backfilling	6 days	27/1/2012	2/2/2012															
1459	Maintenance Staircase (Ch 420 LHS)	4 days	19/1/2012	26/1/2012															
1460	Formwork and concrete	4 days	19/1/2012	26/1/2012															
1461	Placing Bed formation (Ch 400-450)	5 days	21/4/2012	26/4/2012															
1462	Placing Grade 500 Ice Stone	5 days	21/4/2012	26/4/2012															
1463	Step 5 (Ch 410)	7 days	21/4/2012	30/4/2012															
1464	Excavation and Blinding	3 days	21/4/2012	24/4/2012															
1465	Formwork and rebar fixing for base slab	2 days	25/4/2012	26/4/2012															
1466	Concreting of base slab	1 day	27/4/2012	27/4/2012															
1467	Stripping off formwork	1 day	30/4/2012	30/4/2012															
1472	Box Culvert TB01 (Ch 450)	40 days	10/5/2011	29/4/2011															
1473	Construction of Base Slab	21 days	10/5/2011	2/6/2011															
1474	Excavation and Blinding	6 days	10/5/2011	16/5/2011															
1475	Formwork and rebar fixing	8 days	17/5/2011	25/5/2011															
1476	Concreting	2 days	26/5/2011	28/5/2011															
1477	Stripping off formwork	5 days	29/5/2011	2/4/2011															
1478	Construction of Wall Stem and Top Slab	19 days	4/4/2011	29/4/2011															
1479	Formwork and rebar fixing	4 days	4/4/2011	8/4/2011															
1480	Concreting	1 day	9/4/2011	9/4/2011															
1481	Stripping off formwork	14 days	11/4/2011	29/4/2011															
1482	Drainage & Footpath (Ch350-450) LHS & RHS	42 days	3/1/2012	23/2/2012															
1483	Drainage & Footpath (Ch350-450) LHS & RHS	42 days	3/1/2012	23/2/2012															

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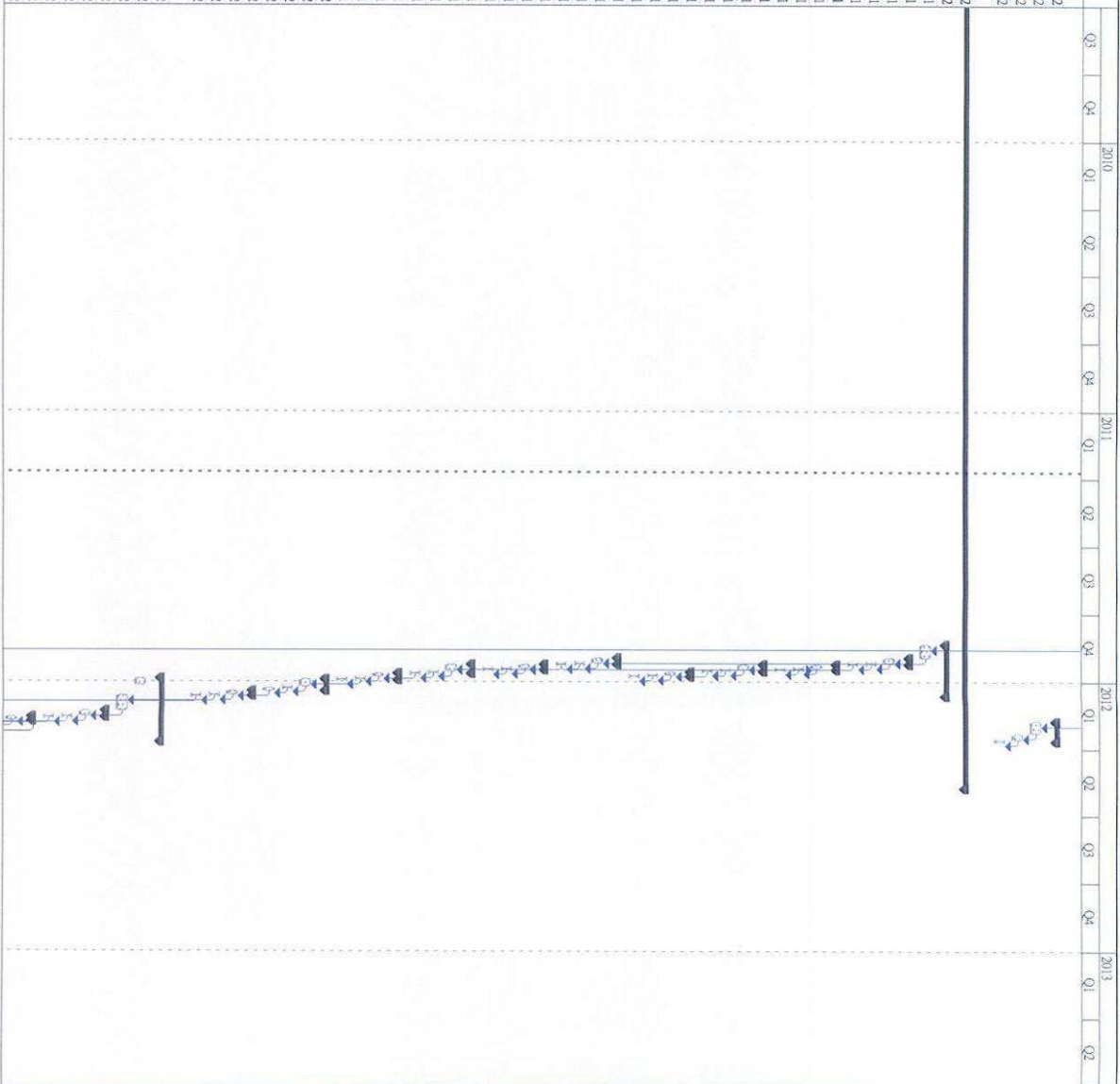
任務進度:

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

Contract No. DC/2007/06

Revised Master Programme Rev (15)

ID	任務名稱	Duration	Start	Finish	2010				2011				2012				2013	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
1485																		
1486	Lighting at CH 350-380	23 days	24/2/2012	21/3/2012														
1487	Construction of Downpits / Ductings	14 days	24/2/2012	10/3/2012														
1488	Public Lighting Installation (CE2312)	7 days	12/3/2012	19/3/2012														
1489	T&C	2 days	20/3/2012	21/3/2012														
1490																		
1491		1615 days?	28/9/2007	24/5/2012														
1492	Retaining Wall (ch 450-500) TR2 (RHS)	57 days	12/11/2011	20/1/2012														
1493	Excavation and Formation	15 days	12/11/2011	29/11/2011														
1494	Base Slab Construction Bay 1 (RHS)	8 days	30/11/2011	8/12/2011														
1495	Formwork and rebar fixing	6 days	30/11/2011	6/12/2011														
1496	Concreting	1 day	7/12/2011	7/12/2011														
1497	Stripping off formwork	1 day	8/12/2011	8/12/2011														
1498	Wall Stem Construction Bay 1 (RHS)	6 days	9/12/2011	15/12/2011														
1499	Formwork and rebar fixing	4 days	9/12/2011	13/12/2011														
1500	Concreting	1 day	14/12/2011	14/12/2011														
1501	Stripping off formwork	1 day	15/12/2011	15/12/2011														
1502	Base Slab Construction Bay 2 (RHS)	8 days	9/12/2011	17/12/2011														
1503	Formwork and rebar fixing	6 days	9/12/2011	15/12/2011														
1504	Concreting	1 day	16/12/2011	16/12/2011														
1505	Stripping off formwork	1 day	17/12/2011	17/12/2011														
1506	Wall Stem Construction Bay 2 (RHS)	6 days	19/12/2011	24/12/2011														
1507	Formwork and rebar fixing	4 days	19/12/2011	22/12/2011														
1508	Concreting	1 day	23/12/2011	23/12/2011														
1509	Stripping off formwork	1 day	24/12/2011	24/12/2011														
1510	Base Slab Construction Bay 3 (RHS)	8 days	30/11/2011	8/12/2011														
1511	Formwork and rebar fixing	6 days	30/11/2011	6/12/2011														
1512	Concreting	1 day	7/12/2011	7/12/2011														
1513	Stripping off formwork	1 day	8/12/2011	8/12/2011														
1514	Wall Stem Construction Bay 3 (RHS)	6 days	9/12/2011	15/12/2011														
1515	Formwork and rebar fixing	4 days	9/12/2011	13/12/2011														
1516	Concreting	1 day	14/12/2011	14/12/2011														
1517	Stripping off formwork	1 day	15/12/2011	15/12/2011														
1518	Base Slab Construction Bay 4 (incl. Step 6(RHS))	10 days	9/12/2011	20/12/2011														
1519	Formwork and rebar fixing	8 days	9/12/2011	17/12/2011														
1520	Concreting	1 day	19/12/2011	19/12/2011														
1521	Stripping off formwork	1 day	20/12/2011	20/12/2011														
1522	Wall Stem Construction Bay 4 (RHS)	6 days	21/12/2011	29/12/2011														
1523	Formwork and rebar fixing	4 days	21/12/2011	24/12/2011														
1524	Concreting	1 day	28/12/2011	28/12/2011														
1525	Stripping off formwork	1 day	29/12/2011	29/12/2011														
1526	Base Slab Construction Bay 5 (incl. Step 6) (RHS)	13 days	29/12/2011	13/1/2012														
1527	Formwork and rebar fixing	8 days	29/12/2011	7/1/2012														
1528	Concreting	1 day	9/1/2012	9/1/2012														
1529	Stripping off formwork	4 days	10/1/2012	13/1/2012														
1530	Wall Stem Construction Bay 5 (RHS)	6 days	14/1/2012	20/1/2012														
1531	Formwork and rebar fixing	4 days	14/1/2012	18/1/2012														
1532	Concreting	1 day	19/1/2012	19/1/2012														
1533	Stripping off formwork	1 day	20/1/2012	20/1/2012														
1534																		
1535	Retaining Wall (ch 450-500) TR2 (LHS)	70 days	28/12/2011	22/3/2012														
1536	Demolition of House 2, Sha Po Tsai	7 days	28/12/2011	5/1/2012														
1537	Excavation and Formation	15 days	20/1/2012	18/2/2012														
1538	Base Slab Construction Bay 1 (LHS)	8 days	10/2/2012	18/2/2012														
1539	Formwork and rebar fixing	6 days	10/2/2012	16/2/2012														
1540	Concreting	1 day	17/2/2012	17/2/2012														
1541	Stripping off formwork	1 day	18/2/2012	18/2/2012														
1542	Wall Stem Construction Bay 1 (LHS)	5 days	18/2/2012	23/2/2012														
1543	Formwork and rebar fixing	4 days	18/2/2012	22/2/2012														



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					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q1	Q2	
1544	Concreting	1 day	20/2/2012	20/2/2012															
1545	Stripping off formwork	1 day	23/2/2012	23/2/2012															
1546	Base Slab Construction Bay 2 (LHS)	8 days	18/2/2012	27/2/2012															
1547	Formwork and rebar fixing	6 days	18/2/2012	24/2/2012															
1548	Concreting	1 day	25/2/2012	25/2/2012															
1549	Stripping off formwork	1 day	27/2/2012	27/2/2012															
1550	Wall Stem Construction Bay 2 (LHS)	6 days	28/2/2012	5/3/2012															
1551	Formwork and rebar fixing	4 days	28/2/2012	2/3/2012															
1552	Concreting	1 day	3/3/2012	3/3/2012															
1553	Stripping off formwork	1 day	5/3/2012	5/3/2012															
1554	Base Slab Construction Bay 3 (LHS)	8 days	24/2/2012	3/3/2012															
1555	Formwork and rebar fixing	6 days	24/2/2012	1/3/2012															
1556	Concreting	1 day	2/3/2012	2/3/2012															
1557	Stripping off formwork	1 day	3/3/2012	3/3/2012															
1558	Wall Stem Construction Bay 3 (LHS)	6 days	5/3/2012	10/3/2012															
1559	Formwork and rebar fixing	4 days	5/3/2012	8/3/2012															
1560	Concreting	1 day	9/3/2012	9/3/2012															
1561	Stripping off formwork	1 day	10/3/2012	10/3/2012															
1562	Base Slab Construction Bay 4 (incl. Step 6)(LHS)	10 days	18/2/2012	29/2/2012															
1563	Formwork and rebar fixing	8 days	18/2/2012	27/2/2012															
1564	Concreting	1 day	28/2/2012	28/2/2012															
1565	Stripping off formwork	1 day	29/2/2012	29/2/2012															
1566	Wall Stem Construction Bay 4 (RHS)	6 days	1/3/2012	7/3/2012															
1567	Formwork and rebar fixing	4 days	1/3/2012	5/3/2012															
1568	Concreting	1 day	6/3/2012	6/3/2012															
1569	Stripping off formwork	1 day	7/3/2012	7/3/2012															
1570	Base Slab Construction Bay 5 (incl. Step 6) (RHS)	13 days	8/3/2012	22/3/2012															
1571	Formwork and rebar fixing	8 days	8/3/2012	16/3/2012															
1572	Concreting	1 day	17/3/2012	17/3/2012															
1573	Stripping off formwork	4 days	19/3/2012	22/3/2012															
1574	Drainage & Footpath (CA 450-490 RHS)	1396 days	28/9/2007	2/5/2012															
1575	Construction of drainage & footpath	1 day	2/5/2012	2/5/2012															
1576	Retaining Wall (CA 500-530) TR3 (RHS)	34 days	28/9/2007	28/9/2011															
1578	Excavation and Formation	12 days	16/3/2011	29/3/2011															
1579	Base Slab Construction Bay 1 (incl. Step 7) (RHS)	8 days	30/3/2011	8/4/2011															
1581	Formwork and rebar fixing	6 days	30/3/2011	6/4/2011															
1582	Concreting	1 day	7/4/2011	7/4/2011															
1583	Stripping off formwork	1 day	8/4/2011	8/4/2011															
1584	Wall Stem Construction Bay 1 (RHS)	6 days	9/4/2011	15/4/2011															
1585	Formwork and rebar fixing	4 days	9/4/2011	13/4/2011															
1586	Concreting	1 day	14/4/2011	14/4/2011															
1587	Stripping off formwork	1 day	15/4/2011	15/4/2011															
1588	Base Slab Construction Bay 2 (incl. Step 7)(RHS)	8 days	9/4/2011	18/4/2011															
1589	Formwork and rebar fixing	6 days	9/4/2011	15/4/2011															
1590	Concreting	1 day	16/4/2011	16/4/2011															
1591	Stripping off formwork	1 day	18/4/2011	18/4/2011															
1592	Wall Stem Construction Bay 2 (RHS)	6 days	19/4/2011	28/4/2011															
1593	Formwork and rebar fixing	4 days	19/4/2011	26/4/2011															
1594	Concreting	1 day	27/4/2011	27/4/2011															
1595	Stripping off formwork	1 day	28/4/2011	28/4/2011															
1596	Cascades (CA 500 LHS)	12 days	21/1/2012	7/2/2012															
1597	Excavation	4 days	21/1/2012	28/1/2012															
1598	Formwork and rebar fixing	6 days	30/1/2012	4/2/2012															
1599	Concreting	1 day	6/2/2012	6/2/2012															
1600	Stripping off formwork	1 day	7/2/2012	7/2/2012															

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ID	任務名稱	Duration	Start	Finish	2010			2011			2012			2013		
					Q3	Q4	2010	Q1	Q2	Q3	Q4	2011	Q1	Q2	Q3	Q4
1603																
1604	Retaining Wall (Ch 500-540) TR3 (LHS)	34 days	7/22/2012	16/3/2012												
1605	Excavation and Formation	6 days	7/22/2012	13/2/2012												
1606	Base Slab Construction Bay 1 (incl. Step 7)(LHS)	8 days	14/2/2012	22/2/2012												
1607	Formwork and rebar fixing	6 days	14/2/2012	20/2/2012												
1608	Concreting	1 day	21/2/2012	21/2/2012												
1609	Stripping off formwork	1 day	22/2/2012	22/2/2012												
1610	Wall Stem Construction Bay 1 (LHS)	6 days	23/2/2012	29/2/2012												
1611	Formwork and rebar fixing	4 days	23/2/2012	27/2/2012												
1612	Concreting	1 day	28/2/2012	28/2/2012												
1613	Stripping off formwork	1 day	29/2/2012	29/2/2012												
1614	Base Slab Construction Bay 2 (incl. Step 7)(LHS)	8 days	1/3/2012	9/3/2012												
1615	Formwork and rebar fixing	6 days	1/3/2012	7/3/2012												
1616	Concreting	1 day	8/3/2012	8/3/2012												
1617	Stripping off formwork	1 day	9/3/2012	9/3/2012												
1618	Wall Stem Construction Bay 2 (LHS)	6 days	10/3/2012	16/3/2012												
1619	Formwork and rebar fixing	4 days	10/3/2012	14/3/2012												
1620	Concreting	1 day	15/3/2012	15/3/2012												
1621	Stripping off formwork	1 day	16/3/2012	16/3/2012												
1622																
1623	Drainage & Footpath (Ch 490-525 RHS)	14 days	29/4/2011	16/5/2011												
1624	Construction of drainage & footpath	14 days	29/4/2011	16/5/2011												
1625																
1626	Footbridge TB07 (Ch 525)	102 days	12/11/2011	16/3/2012												
1627	Temporary Pedestrian Division	3 days	12/11/2011	15/11/2011												
1628	Temporary Pedestrian Division (at grade)	3 days	12/11/2011	15/11/2011												
1629	Demolition of existing Footbridge TB-D (Ch 525)	3 days	16/11/2011	18/11/2011												
1630	Demolition works	3 days	16/11/2011	18/11/2011												
1631	Construction of Abutment A	28 days	14/2/2012	16/3/2012												
1632	Excavation and Blinding	12 days	14/2/2012	27/2/2012												
1633	Formwork and rebar fixing for base slab	4 days	28/2/2012	2/3/2012												
1634	Concreting of base slab	1 day	3/3/2012	3/3/2012												
1635	Stripping off formwork	3 days	5/3/2012	7/3/2012												
1636	Rebar fixing and shoring formwork for column	4 days	8/3/2012	12/3/2012												
1637	Concreting	1 day	13/3/2012	13/3/2012												
1638	Stripping off formwork	3 days	14/3/2012	16/3/2012												
1639	Construction of Abutment B	28 days	19/11/2011	21/2/2012												
1640	Excavation and Blinding	12 days	19/11/2011	21/2/2012												
1641	Formwork and rebar fixing for base slab	4 days	31/2/2011	7/3/2012												
1642	Concreting of base slab	1 day	8/3/2011	8/3/2011												
1643	Stripping off formwork	3 days	9/3/2011	12/3/2011												
1644	Rebar fixing and shoring formwork for column	4 days	13/3/2011	16/3/2011												
1645	Concreting	1 day	17/3/2011	17/3/2011												
1646	Stripping off formwork	3 days	19/3/2011	21/3/2011												
1647																
1648	Footbridge TB07 (Ch 525)	44 days	14/3/2012	10/5/2012												
1649	Construction of decking	29 days	14/3/2012	20/4/2012												
1650	Formwork and rebar fixing for decking	12 days	14/3/2012	27/3/2012												
1651	Concreting	1 day	28/3/2012	28/3/2012												
1652	Stripping off formwork	14 days	29/3/2012	18/4/2012												
1653	Railing installation	2 days	19/4/2012	20/4/2012												
1654	Footbridge TB07 Lighting	15 days	21/4/2012	10/5/2012												
1655	Construction of Drawings / Ducting	7 days	21/4/2012	30/4/2012												
1656	Public lighting installation (CE3238)	6 days	2/5/2012	8/5/2012												
1657	Public lighting installation (CE3239)	6 days	2/5/2012	8/5/2012												
1658	T&C	2 days	9/5/2012	10/5/2012												
1659																
1660	Ch 525-615	471 days	15/10/2010	16/4/2012												
1661	Retaining Wall (Ch 535-546) TR4 (RHS)	26 days	30/3/2011	3/5/2011												

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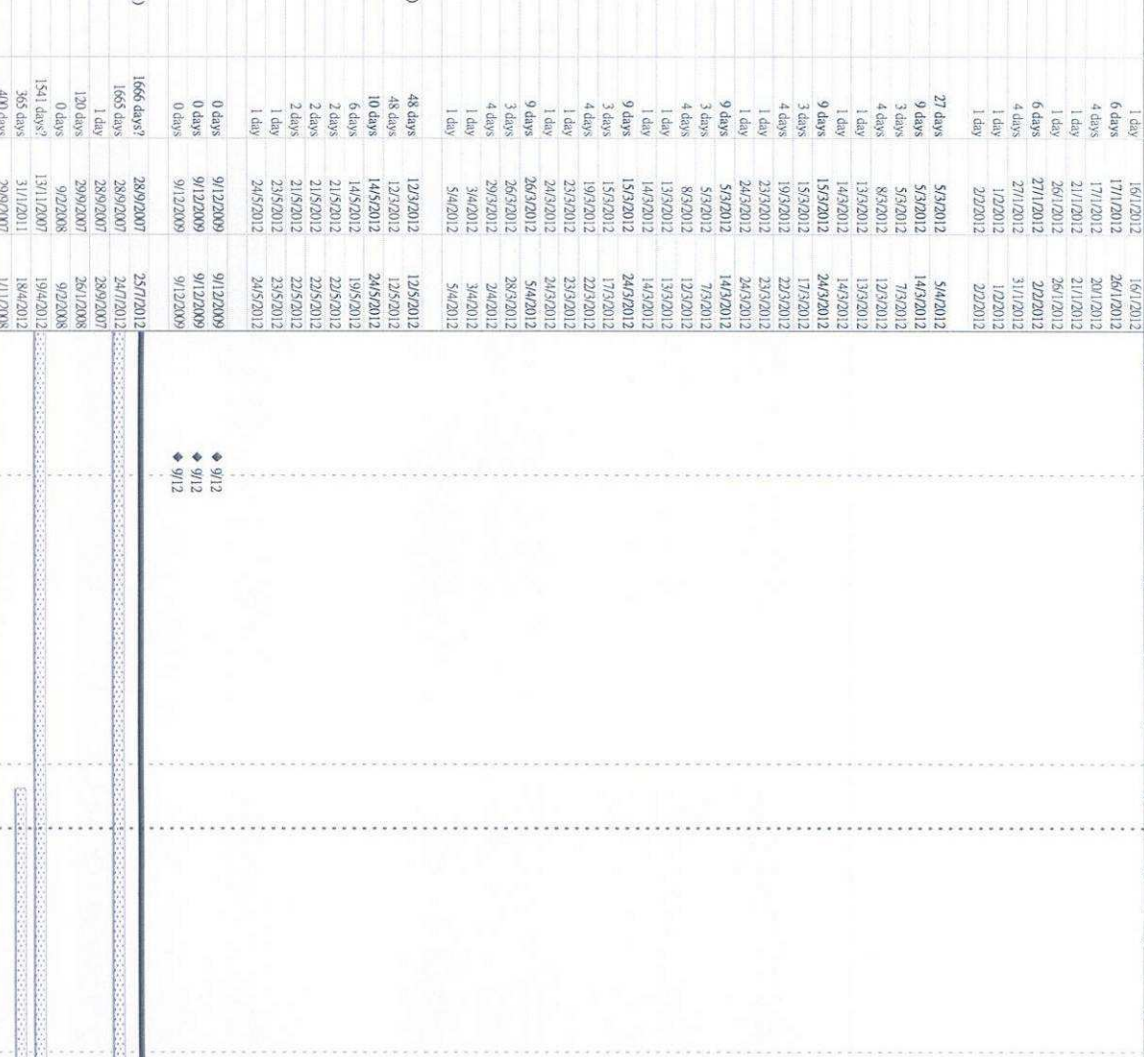
ID	任務名稱	Duration	Start	Finish	2010			2011			2012			2013		
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1721	Stripping off formwork Wall Stem Construction TR5A Bay 2 LHS	1 day 6 days	19/12/2011	19/12/2011												
1722	Formwork and rebar fixing	4 days	20/12/2011	28/12/2011												
1723	Concreting	1 day	24/12/2011	24/12/2011												
1724	Stripping off formwork Base Slab Construction TR5A Bay 3 LHS	8 days	29/11/2011	7/12/2011												
1725	Formwork and rebar fixing	6 days	29/11/2011	5/12/2011												
1726	Concreting	1 day	6/12/2011	6/12/2011												
1727	Stripping off formwork Wall Stem Construction TR5A Bay 3 LHS	6 days	7/12/2011	7/12/2011												
1728	Formwork and rebar fixing	4 days	8/12/2011	14/12/2011												
1729	Concreting	1 day	14/12/2011	14/12/2011												
1730	Stripping off formwork Formwork and rebar fixing	6 days	13/12/2011	13/12/2011												
1731	Concreting	1 day	14/12/2011	14/12/2011												
1732	Stripping off formwork Box Culvert TR202 (Ch 580)	30 days ²	22/2012	7/5/2012												
1733	River diversion, Excavation and Blinding Construction of Base Slab	1 day ² 8 days	2/2/2012	2/2/2012												
1734	Formwork and rebar fixing	6 days	3/2/2012	11/2/2012												
1735	Concreting	1 day	10/2/2012	10/2/2012												
1736	Stripping off formwork Construction of Wall Stem and Top Slab	21 days	13/2/2012	7/3/2012												
1737	Formwork and rebar fixing	6 days	13/2/2012	18/2/2012												
1738	Concreting	1 day	20/2/2012	20/2/2012												
1739	Stripping off formwork Retaining Wall TR5A & TR6 CH585-595 LHS	39 days	10/2/2012	26/3/2012												
1740	River/road Road Diversion (to TR3 and TR5 RHS) Excavation and Blinding	7 days	14/2/2012	21/2/2012												
1741	Base Slab Construction TR6 Bay 1 LHS	10 days	22/2/2012	3/3/2012												
1742	Formwork and rebar fixing	8 days	22/2/2012	1/3/2012												
1743	Concreting	1 day	2/3/2012	2/3/2012												
1744	Stripping off formwork Wall Stem Construction TR6 Bay 1 LHS	6 days	3/3/2012	3/3/2012												
1745	Formwork and rebar fixing	4 days	5/3/2012	8/3/2012												
1746	Concreting	1 day	9/3/2012	9/3/2012												
1747	Stripping off formwork Base Slab Construction TR5A Bay 4 LHS	8 days	10/3/2012	12/3/2012												
1748	Formwork and rebar fixing	6 days	3/3/2012	9/3/2012												
1749	Concreting	1 day	10/3/2012	10/3/2012												
1750	Stripping off formwork Wall Stem Construction TR5A Bay 4 LHS	6 days	13/3/2012	19/3/2012												
1751	Formwork and rebar fixing	4 days	13/3/2012	16/3/2012												
1752	Concreting	1 day	17/3/2012	17/3/2012												
1753	Stripping off formwork Base Slab Construction TR5A Bay 5 LHS	8 days	10/3/2012	19/3/2012												
1754	Formwork and rebar fixing	6 days	10/3/2012	16/3/2012												
1755	Concreting	1 day	17/3/2012	17/3/2012												
1756	Stripping off formwork Wall Stem Construction TR5A Bay 5 LHS	6 days	13/3/2012	19/3/2012												
1757	Formwork and rebar fixing	4 days	13/3/2012	16/3/2012												
1758	Concreting	1 day	17/3/2012	17/3/2012												
1759	Stripping off formwork Base Slab Construction TR5A Bay 5 LHS	8 days	10/3/2012	19/3/2012												
1760	Formwork and rebar fixing	6 days	10/3/2012	16/3/2012												
1761	Concreting	1 day	17/3/2012	17/3/2012												
1762	Stripping off formwork Wall Stem Construction TR5A Bay 5 LHS	6 days	13/3/2012	19/3/2012												
1763	Formwork and rebar fixing	4 days	13/3/2012	16/3/2012												
1764	Concreting	1 day	17/3/2012	17/3/2012												
1765	Stripping off formwork Base Slab Construction TR5A Bay 5 LHS	8 days	10/3/2012	19/3/2012												
1766	Formwork and rebar fixing	6 days	10/3/2012	16/3/2012												
1767	Concreting	1 day	17/3/2012	17/3/2012												
1768	Stripping off formwork Wall Stem Construction TR5A Bay 5 LHS	6 days	13/3/2012	19/3/2012												
1769	Formwork and rebar fixing	4 days	13/3/2012	16/3/2012												
1770	Concreting	1 day	17/3/2012	17/3/2012												
1771	Stripping off formwork Retaining Wall (Ch 595-615) TR3 (Bay 3)	37 days	15/12/2011	22/2/2012												
1772	Formwork and rebar fixing	13 days	15/12/2011	31/12/2011												
1773	Concreting	12 days	3/1/2012	16/1/2012												
1774	Formwork and rebar fixing	10 days	3/1/2012	13/1/2012												
1775	Concreting	1 day	14/1/2012	14/1/2012												

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ID	任務名稱	Duration	Start	Finish	2010				2011				2012				2013	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q1	Q2
1780	Stripping off formwork	1 day	16/12/2012	16/12/2012														
1781	Wall Stem Construction TR3 Bay 3 RHS	6 days	17/12/2012	26/12/2012														
1782	Formwork and rebar fixing	4 days	17/12/2012	20/12/2012														
1783	Concreting	1 day	21/12/2012	21/12/2012														
1784	Stripping off formwork	1 day	26/12/2012	26/12/2012														
1785	Wall Stem Construction TR3 Bay 3 LHS	6 days	27/12/2012	2/2/2012														
1786	Formwork and rebar fixing	4 days	27/12/2012	31/12/2012														
1787	Concreting	1 day	1/2/2012	1/2/2012														
1788	Stripping off formwork	1 day	2/2/2012	2/2/2012														
1789																		
1790	Concrete Slab (C15/6 - C15/6)	27 days	5/3/2012	5/4/2012														
1791	Bay 1	9 days	5/3/2012	14/3/2012														
1792	Excavation/Blinding	3 days	5/3/2012	7/3/2012														
1793	Formwork and rebar fixing	4 days	8/3/2012	12/3/2012														
1794	Concreting	1 day	13/3/2012	13/3/2012														
1795	Stripping off formwork	1 day	14/3/2012	14/3/2012														
1796	Bay 2	9 days	15/3/2012	24/3/2012														
1797	Excavation/Blinding	3 days	15/3/2012	17/3/2012														
1798	Formwork and rebar fixing	4 days	19/3/2012	22/3/2012														
1799	Concreting	1 day	23/3/2012	23/3/2012														
1800	Stripping off formwork	1 day	24/3/2012	24/3/2012														
1801	Bay 3	9 days	5/3/2012	14/3/2012														
1802	Excavation/Blinding	3 days	5/3/2012	7/3/2012														
1803	Formwork and rebar fixing	4 days	8/3/2012	12/3/2012														
1804	Concreting	1 day	13/3/2012	13/3/2012														
1805	Stripping off formwork	1 day	14/3/2012	14/3/2012														
1806	Bay 4	9 days	15/3/2012	24/3/2012														
1807	Excavation/Blinding	3 days	15/3/2012	17/3/2012														
1808	Formwork and rebar fixing	4 days	19/3/2012	22/3/2012														
1809	Concreting	1 day	23/3/2012	23/3/2012														
1810	Stripping off formwork	1 day	24/3/2012	24/3/2012														
1811	Bay 5	9 days	26/3/2012	5/4/2012														
1812	Excavation/Blinding	3 days	26/3/2012	28/3/2012														
1813	Formwork and rebar fixing	4 days	29/3/2012	2/4/2012														
1814	Concreting	1 day	3/4/2012	3/4/2012														
1815	Stripping off formwork	1 day	5/4/2012	5/4/2012														
1816																		
1817	Drainage and Footpath (C15/25-615 LHS & RHS)	48 days	12/9/2012	12/9/2012														
1818	Construction of footpath & drainage works	48 days	12/9/2012	12/9/2012														
1819	Lighting at CH 590-610	10 days	14/9/2012	24/9/2012														
1820	Construction of Drawings / Discharge	6 days	14/9/2012	19/9/2012														
1821	Public lighting Installation (CE2325)	2 days	21/9/2012	22/9/2012														
1822	Public lighting Installation (CE2326)	2 days	21/9/2012	22/9/2012														
1823	Public lighting Installation (CE2327)	2 days	21/9/2012	22/9/2012														
1824	T&C	1 day	23/9/2012	23/9/2012														
1825	Removal of existing lighting (CE1600-B2)	1 day	24/9/2012	24/9/2012														
1826																		
1827	Section 4 - Box Culvert at Ping Loag	0 days	9/11/2009	9/11/2009														
1828	Section 4 - Box Culvert (Area A)	0 days	9/11/2009	9/11/2009														
1829	Completion of Work at Section 4	0 days	9/11/2009	9/11/2009														
1830																		
1831	Section 5 - Landscape Establishment Works (Portion B, C, D, E, F, G, H & I)	1666 days?	28/9/2007	25/7/2012														
1832	Section 5 Landscape Works	1665 days	28/9/2007	24/7/2012														
1833	Commencement of Works	1 day	28/9/2007	28/9/2007														
1834	Material Submission	120 days	29/9/2007	26/1/2008														
1835	Submission Approval	0 days	9/2/2008	9/2/2008														
1836	Landscape Hardworks	1541 days?	13/11/2007	19/4/2012														
1837	Landscape Softworks	365 days	31/11/2011	18/4/2012														
1838	Submission of Tree Survey	400 days	29/9/2007	1/11/2008														



◆ 9/12
◆ 9/12
◆ 9/12

任務進度 里程碑 摘要 上週型任務 上週型進度 分割 外部任務 專案摘要 摘要詳細 期限

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 (15)

ID	任務名稱	Duration	Start	Finish	Q3	Q4	2010	Q1	Q2	Q3	Q4	2011	Q1	Q2	Q3	Q4	2012	Q1	Q2	2013	Q1	Q2	
1839	Preservation and Protection of Preserved Trees	1265 days	2/11/2008	25/7/2012																			
1840	Landscape Establishment Works	1265 days	2/11/2008	25/7/2012																			
1841	Completion of Works	0 days	25/7/2012	25/7/2012																			
1842																							
1843	Section 6 - Landscape Establishment Works (Portion J, K & M)	1666 days?	28/9/2007	25/7/2012																			
1844	Section 6 Landscape Works	1665 days	28/9/2007	24/7/2012																			
1845	Commencement of Works	1 day	28/9/2007	28/9/2007																			
1846	Material Submission	120 days	28/9/2007	26/1/2008																			
1847	Submission Approval	0 days	9/2/2008	9/2/2008																			
1848	Landscape Hardworks	1161 days?	27/11/2008	19/4/2012																			
1849	Landscape Softworks	365 days	1/2/2011	19/4/2012																			
1850	Submission of Tree Survey	400 days	28/9/2007	1/1/2008																			
1851	Preservation and Protection of Preserved Trees	1265 days	2/11/2008	25/7/2012																			
1852	Landscape Establishment Works	1265 days	2/11/2008	25/7/2012																			
1853	Completion of Works	0 days	25/7/2012	25/7/2012																			
1854																							
1855	Section 7 - Landscape Establishment Works (Portion L, N & P)	1666 days?	28/9/2007	25/7/2012																			
1856	Section 7 Landscape Works	1665 days	28/9/2007	24/7/2012																			
1857	Commencement of Works	1 day	28/9/2007	28/9/2007																			
1858	Material Submission	120 days	28/9/2007	26/1/2008																			
1859	Submission Approval	0 days	9/2/2008	9/2/2008																			
1860	Landscape Hardworks	1176 days?	12/11/2008	19/4/2012																			
1861	Landscape Softworks	365 days	1/2/2011	19/4/2012																			
1862	Submission of Tree Survey	400 days	28/9/2007	1/1/2008																			
1863	Preservation and Protection of Preserved Trees	1265 days	2/11/2008	25/7/2012																			
1864	Landscape Establishment Works	1265 days	2/11/2008	25/7/2012																			
1865	Completion of Works	0 days	25/7/2012	25/7/2012																			
1866																							
1867	Section 8 - All Remaining Work at All Portions	1301 days?	28/9/2007	3/5/2011																			
1868	Commencement of Works	1 day	28/9/2007	28/9/2007																			
1869	All remaining Works at all Area	1300 days	28/9/2007	3/5/2011																			
1870	Completion of Works	0 days	3/5/2011	3/5/2011																			
1871		1 day?	28/9/2007	28/9/2007																			

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 日期: 22/3/2011

任務進度:

里程碑摘要:

上圖型任務:

上圖型里程碑:

分割:

外部任務專案摘要:

摘要詳細:

期限: