

DRAINAGE SERVICES DEPARTMENT CONTRACT NO. DC/2011/06

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING YUEN RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

THE NINTH QUARTERLY
EM&A SUMMARY REPORT FOR DRAINAGE
WORKS UNDER EP-277/2007/A
(JUNE 2014 – AUGUST 2014)

PREPARED FOR SANG HING CIVIL CONSTRUCTORS CO., LTD.

Quality Index

| Date | Reference No. | Prepared By | Approval By | |
|----------------|-----------------------|-------------------------------------|------------------------------|--|
| 6 October 2014 | TCS00599/12/600/R0295 | 35 | T. W. Tam | |
| | | Ben Tam Environmental Consultant | Environmental Team Leader | |

| Version | Date | Description |
|---------|-------------------|--|
| 0 | 23 September 2014 | First submission. |
| 1 | 6 October 2014 | Amended against IEC's comments on 3 Oct 2014 |

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.



Ref.: DSDBPRNDEM00_0_0315L.14

9 October 2014

By Post and Fax (2959 6079)

Action-United Environmental Services & Consulting Unit A, 20/F,
Gold King Industrial Building,
New Territories, Hong Kong

Attention: Mr. TW Tam

Dear Sir,

Re: Contract No. DC/2011/06

Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Ninth Quarterly EM&A Summary Report for Drainage Works under EP-277/2007/A (June 2014 – August 2014)

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 6 October 2014 received through E-mail on 6 October 2014 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission.

Should you have any queries, please do not hesitate to contact the undersigned or our Ms. Cherry Mak at 3465 2807.

Yours sincerely,

Roger Leung

Independent Environmental Checker

hopy.

c.c.

DSD

Mr. Eric Cheng

by fax: 2827 8700

SHCCCL

Mr. Raymond W.M. Yau

by fax: 2403 11<u>6</u>2

Q:\Projects\DSDBPRNDEM00\02 Project Management\02 Corr\DSDBPRNDEM00_0_0315L.14.doc



EXECUTIVE SUMMARY

REPORTING OF THE CONTRACT

- ES01. In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai. This is the ninth quarterly EM&A summary report for Drainage Works under EP-277/2007/A, covering the construction period of the Works from 1 June 2014 to 31 August 2014.
- ES02. The structure of this Report is as follows:

EXECUTIVE SUMMARY

- 1 Introduction
- 2 Requirements for Construction Impact monitoring
- 3 Environmental monitoring Results
- 4 solid and liquid Waste Management
- 5 Complaints, Notification of Summons and Successful Prosecution
- 6 Conclusions and Recommendations

Annex

- Annex A Location plan for the Works
- Annex B Environmental Management Organization, Communication Lines and 24-Hour Hotline
- Annex C Construction Program
- Annex D Status of Environmental Licenses and Permits
- Annex E Environmental Monitoring Locations
- Annex F Graphical Plots of the Trends of Monitored Parameters
- Annex G Monthly Summary of Waste Flow Table

BREACH OF ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

ES03. No exceedances of environmental quality performance limits for air quality and construction noise were recorded. However, a total of 26 water quality exceedances occurred in this reporting period, and NOEs were issued to relevant parties. Based on the investigation and consider that the exceedances should not be due to the Project works. Therefore, nor remedial actions were required.

COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES04. No environmental complaints, notifications of summons and successful prosecutions were registered during the quarter.

CONCLUSIONS

- ES05. The EM&A results for the Reporting Period confirmed that the monitoring work was effective and was generating data with the necessary statistical power to categorically identify or confirm the absence of impact attributable to the works.
- ES06. Neither breaches of environmental quality performance limits nor written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.

RECOMMENDATIONS

- ES07. The Contractor is reminded to fully comply with all the environmental requirements stipulated in the environmental regulations, guidelines and Particular Specifications under the Contract, in particular construction suppression measures during dusty construction activities under dry and windy conditions and water quality mitigation measures during rainy conditions.
- ES08. In addition, attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.



1 INTRODUCTION

BASIC PROJECT INFORMATION

- 1.01 Sang Hing Civil Contractors Company Limited has been awarded by DSD since 31 March 2012 Contract No. DC/2011/06 Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District (hereafter "the Contract"). The Contract comprises:
 - 1) Drainage Works in North District to be implemented under Environmental Permit No. EP-277/2007/A (hereinafter "Drainage Works under EP-277/2007/A or "the Works");
 - 2) Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan; and
 - 3) Drainage Works in North District, a non-designated project of drainage works at Ma Wat Wai.
- 1.02 Location plan for the Works is shown in *Annex A*, whereas environmental management organization and communication lines, including contacts of key personnel under the Contract are shown in *Annex B*.
- 1.03 The Works has been commenced since 21 May 2012 upon completion of the site clearance and preparation activities after commencement of the Contract since 31 April 2012.
- 1.04 Action-United Environmental Services and Consulting (hereinafter "AUES") has been commissioned by the Contractor as the Environmental Team (hereinafter "the ET") to implement the environmental monitoring and audit (hereinafter "EM&A") under the Contract.
- 1.05 In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai.
- 1.06 This is the ninth quarterly EM&A summary report (herein after "this Report") for Drainage Works under EP-277/2007/A, covering the construction period from 1 June 2014 to 31 August 2014 (hereinafter "the Reporting Period").

WORK UNDERTAKEN DURING THE QUARTER

1.07 Construction program is presented in *Annex C*, whereas construction activities undertaken during the Reporting Period are summarized in the following *Table 1-1*.

Table 1-1 Major Construction Activities of the Works during the Reporting Period

| Major Cons | Major Construction Activities during the Reporting Period at Portion E (Man Uk Pin) | | | |
|-------------|---|--|--|--|
| | Establishment of Transplanted Tree T1107 | | | |
| | Liaise with lot owner for the access | | | |
| June 2014 | Construction of Gabion Block at the upstream | | | |
| Julic 2014 | Construction of Box Culvert | | | |
| | Installation of temporary noise barrier | | | |
| | Underground Utilities Detection | | | |
| | Establishment of Transplanted Tree T1107 | | | |
| | Liaise with lot owner for the access | | | |
| Inter 2014 | Construction of Gabion Block at the upstream | | | |
| July 2014 | Construction of Box Culvert | | | |
| | Installation of temporary noise barrier | | | |
| | Underground Utilities Detection | | | |
| | Establishment of Transplanted Tree T1107 | | | |
| August 2014 | Liaise with lot owner for the access | | | |
| August 2014 | Construction of Gabion Block at the upstream | | | |
| | Construction of Box Culvert | | | |



| Installation of temporary noise barrier |
|---|
| Underground Utilities Detection |

ENVIRONMENTAL MITIGATION MEASURES AND ENVIRONMENTAL IMPLEMENTATION STATUS

- Environmental mitigation measures to minimize potential environmental impacts arising from the construction of the project have been recommended the Final EIA and summarized in the stand-alone EM&A Manual. They can be found in the *First Monthly EM&A Report for Drainage Works under EP-277/2007/A* (ref. TCS00599/12/600/R0017v4, dated 16 July 2012).
- 1.09 Implementation status of environmental protection and pollution control/mitigation measures, as recommended in the Final EIA and summarized in the updated implementation schedule is detailed in the following *Section 3 to 5* of this Report, whereas status of environmental licenses and permit is summarized in the *Annex D*.

2 REQUIREMENTS FOR CONSTRUCTION IMPACT MONITORING

MONITORING PARAMETERS

2.01 The monitoring parameters to be monitored are summarized in *Table 2-1*.

Table 2-1 Summary of Environmental Monitoring Parameters

| Aspect | Parameters | | | |
|-----------------------|---|--------------------------------------|--|--|
| Air Quality | 1-Hour Total Suspended Particulate (hereinafter '1-Hr TSP'); and 24-Hour Total Suspended Particulate (hereinafter '24-Hr TSP'). | | | |
| Construction Noise | A-weighted equivalent continuous sound pressure level (30min) (hereinafter 'Leq(30min)' during the normal working hours; and A-weighted equivalent continuous sound pressure level (5min) (hereinafter 'Leq(5min)' for construction work during the restricted hours. | | | |
| Water | • In Situ Measurement: Temperature, Dissolved Oxygen, Dissolved Oxygen Saturation, pH value, Water Depth & Turbidity | | | |
| Quality | Laboratory Analysis | Suspended Solids (hereinafter 'SS'), | | |
| Ecology | The stream conditions monitoring (in-situ measurements of DO, pH and turbidity; laboratory testing of SS); Riparian vegetation along the banks of channel monitoring; General site audit to ensure the existing natural stream channel is protected; and Reported the sediment condition during the construction phase | | | |

2.02 As there was neither riparian vegetation along the banks of channel nor existing natural stream channel within the construction site under the Works, no ecology monitoring is required.

MONITORING LOCATIONS

Monitoring Locations Designated in the EM&A Manual

2.03 The sensitive receiver designated in the EM&A Manual, namely MUP05-2, which is the closest to the construction site, is selected as monitoring location for air quality namely MUP-A1 and construction noise namely MUP-N1 respectively. They are shown in *Annex E* and summarized in *Table 2-2* below.

Table 2-2 Designated Monitoring Locations

| Issue | Channel | Sensitive Receiver | Location ID | Detailed Address | |
|-------|---------|-----------------------|----------------|--|--|
| Air | MUP05 | MUP05-2 | MUP-A1 | A village house at Man Uk Pin | |
| Noise | MUP05 | MUP05-2 | MUP-N1 | Same village house at Man Uk Pin as MUP-A1 | |



Additional Monitoring Locations

2.04 Additional monitoring locations for construction noise and water quality are also shown in *Annex E* and summarized in *Table 2-3* below.

Table 2-3 Summary of Additional Environmental Monitoring Locations

| Issue | Channel | Sensitive Receiver | Location ID | Detailed Address | |
|------------------|------------|-----------------------|----------------------|---|--|
| Noise | MUP05 | MUP05-2 | MUP-Nx Village house | | |
| | | - | MUP-Wx1 | Additional Up-Stream Control Station: (Prior to and after connection of stream diversion) | |
| Water Quality | MUP05 | 1 | MUP-Wx2 | Additional Impact Monitoring Station: (Prior to connection of stream diversion) | |
| | - MIIP-Wy3 | | MUP-Wx3 | Additional Impact Monitoring Station: (After connection of stream diversion) | |

ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

2.05 The environmental quality performance limits, i.e. Action/Limit Levels, for air quality and construction noise are summarized in *Table 2-4* and *Table 2-5* respectively.

Table 2-4 Action and Limit Levels for Air Quality

| Monitoring Station | Action Level (μg /m³) | | Limit Level (μg/m³) | |
|----------------------|-----------------------|-------------|---------------------|-------------|
| Withintoring Station | 1-Hour TSP | 24-Hour TSP | 1-Hour TSP | 24-Hour TSP |
| MUP-A1 | 307 | 156 | 500 | 260 |

Table 2-5 Action and Limit Levels for Construction Noise (dB(A))

| Time Period | Action Level | Limit Level | |
|------------------------------------|---|-------------|--|
| 0700-1900 hours on normal weekdays | When one documented complaint is received | 75 dB(A) | |

2.06 Environmental quality criteria for additional water quality monitoring are presented in *Table 2-6* below.

Table 2-6 Action and Limit Levels for Water Quality

| Water Parameter | Action Level | Limit Level |
|-----------------------------------|---|--|
| Dissolved Oxygen (DO) | 4.42 mg/L | 4.37 mg/L |
| Turbidity & Suspended Solids (SS) | 120% of the Levels of Up- Stream Control Station | 130% of the Levels of Up-Stream Control Station |

3 ENVIRONMENTAL MONITORING RESULTS

- 3.01 Graphical plots of the trends of monitored parameters over the past 4 months, including the last month of the previous quarter and the Reporting Period, are presented in *Annex F*.
- Weather conditions extracted from Hong Kong Observatory have been used in interpretation of this Report. They can be found in corresponding Monthly EM&A Reports.
- 3.03 A total of one (1) Action Level exceedances and ten (25) Limit Level exceedances for water quality monitoring were recorded during the reporting period. Moreover, NOEs were issued in this reporting period. Based on the investigation and consider that the exceedances should not be due to the Project works.



EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

3.04 No exceedances of environmental quality performance limits were registered and found related to the Project during the Reporting Period. However, a total of 26 Action and Limit Level exceedances on water quality were occurred, Notice Of Exceedances of the environmental quality performance limits (hereinafter "NOE") were issued and nor the associated remediation actions were required during the Reporting Period.

CONCLUSIONS

- 3.05 The EM&A results confirmed that the monitoring work was effective and generating data with necessary statistical power to categorically identify the absence of impact attributable to the works.
- 3.06 Monitoring results recorded no exceedances of the environmental quality performance limits during the Reporting Period, indicating no adverse environmental impacts were generated from construction activities during the Reporting Period. No remediation actions were required.

4 SOLID AND LIQUID WASTE MANAGEMENT

4.01 The quantity of solid and liquid waste for disposal or reuse is summarized in Monthly Summary of Waste Flow Table in *Annex G*.

5 COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

No written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period. They are summarized in *Table 5-1*.

Table 5-1 Summary of Complaints, Notification of Summons and Successful Prosecutions

| | Frequency of Occurrence | | | |
|--------------------------------|---|---------------------------------|--|--|
| Environmental Issue | From the project commencement to last reporting month | This reporting Period | | |
| | December 2012 – May 2014 | June 2014 to August 2014 | | |
| Complaints | 0 | 0 | | |
| Nature of Complaints | Not Applicable | Not Applicable | | |
| Notification of Summons | 0 | 0 | | |
| Nature of Summons | Not Applicable | Not Applicable | | |
| Successful Prosecutions | 0 | 0 | | |
| Nature of Prosecutions | Not Applicable | Not Applicable | | |

5.02 Project proponents' contacts and hotline telephone number for the public to make enquiries can be found in *Annex B*.

6 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

6.01 Neither breaches of environmental quality performance limits nor written/verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.



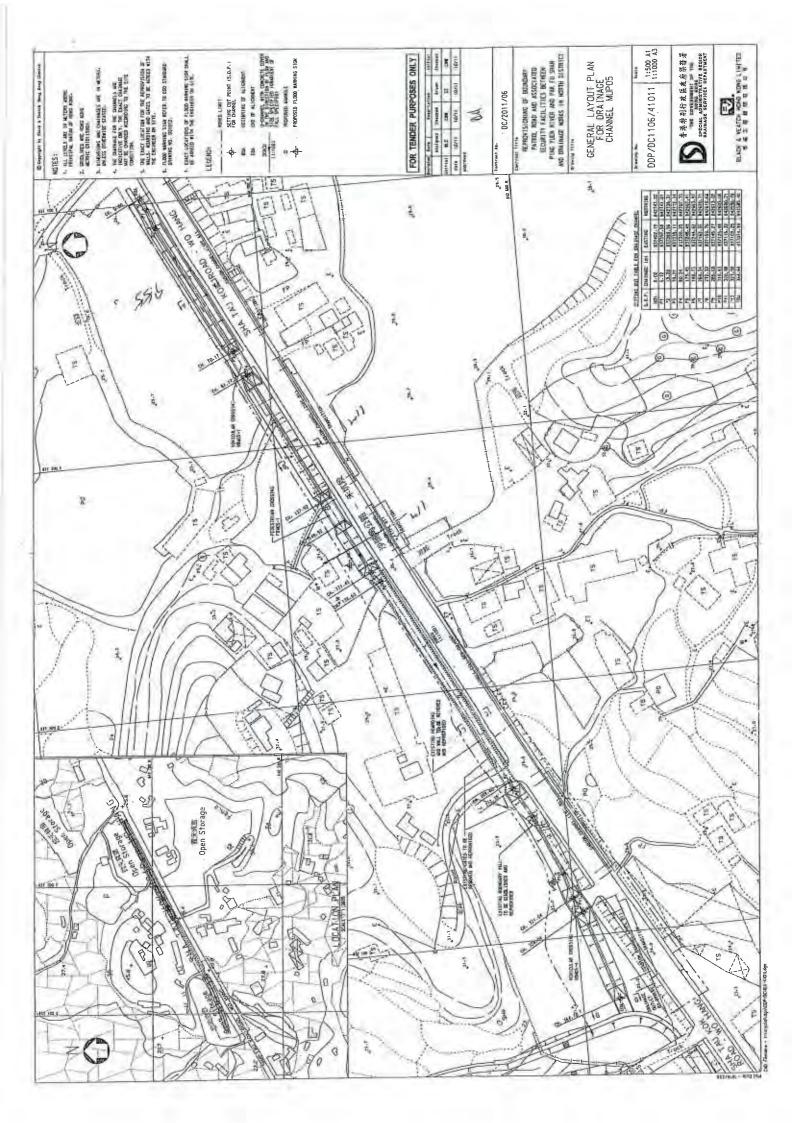
RECOMMENDATIONS

- 6.02 The Contractor is reminded to fully comply with all the required environmental mitigation measures, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions and water quality mitigation measures during rainy conditions. In addition, attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.
- 6.03 During the rainy season, muddy water and other water quality pollutants via site surface water runoff get into public areas should be avoided. Mitigation measures for water quality should be properly implemented to avoid adverse water quality impacts on the receiving water bodies.
- 6.04 Moreover, attention is drawn to implementation of the construction noise mitigation measures during noisy construction works. The temporary noise barrier should be modified in compliance with the Environment Permit and contract specific requirement.



ANNEX A

LOCATION PLAN FOR THE WORKS





ANNEX B

Environmental Management organization and Communication Lines AND 24-Hour Hotline

Contract No. DC/2011/06 – Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District Updated EM&A Manual for Advanced Works under EP-430/2011

---- Line of Communication Key EPD (EIAO Authority) Environmental Team EM&A Organisation Chart Project Proponent Drainage Services Department Engineer Repreaentative Contractor(s) Independent Environmental Checker



Contact Details of Key Personnel

| Organization | Project Role | Name of Key Staff | Tel No. | Fax No. |
|--------------|--------------------------------------|-----------------------|-----------|-----------|
| DSD | Project Proponent / Employer | Mr. Eric Y. M. Cheng | 2594-7341 | 2827-8700 |
| Environ | Independent Environmental Checker | Mr. Roger W. K. Leung | 3465 2888 | 3465 2899 |
| SHCC | Project Manager | Mr. Raymond Yau | 2403 1165 | 2403 1165 |
| SHCC | Site Agent | Mr. Elvin Lam | 2640 9286 | 2640 9286 |
| AUES | Environmental Team Leader | Mr. T. W. Tam | 2959-6059 | 2959-6079 |
| AUES | Environmental Consultant | Miss Nicola Hon | 2959-6059 | 2959-6079 |
| AUES | Environmental Team Supervisor | Mr. Ben Tam | 2959-6059 | 2959-6079 |

24-Hour Hotline Telephone Number for the Public to Make Enquiries

| 24-Hour Hotline: 6770 3827 | 1 |
|--------------------------------|---|
| Contact Person: Mr. Mocha Mok | |

Legends:

DSD (Project Proponent / Engineer) – Drainage Services Department SHCC (Main Contractor) –Sang Hing Civil Constructors Co., Ltd

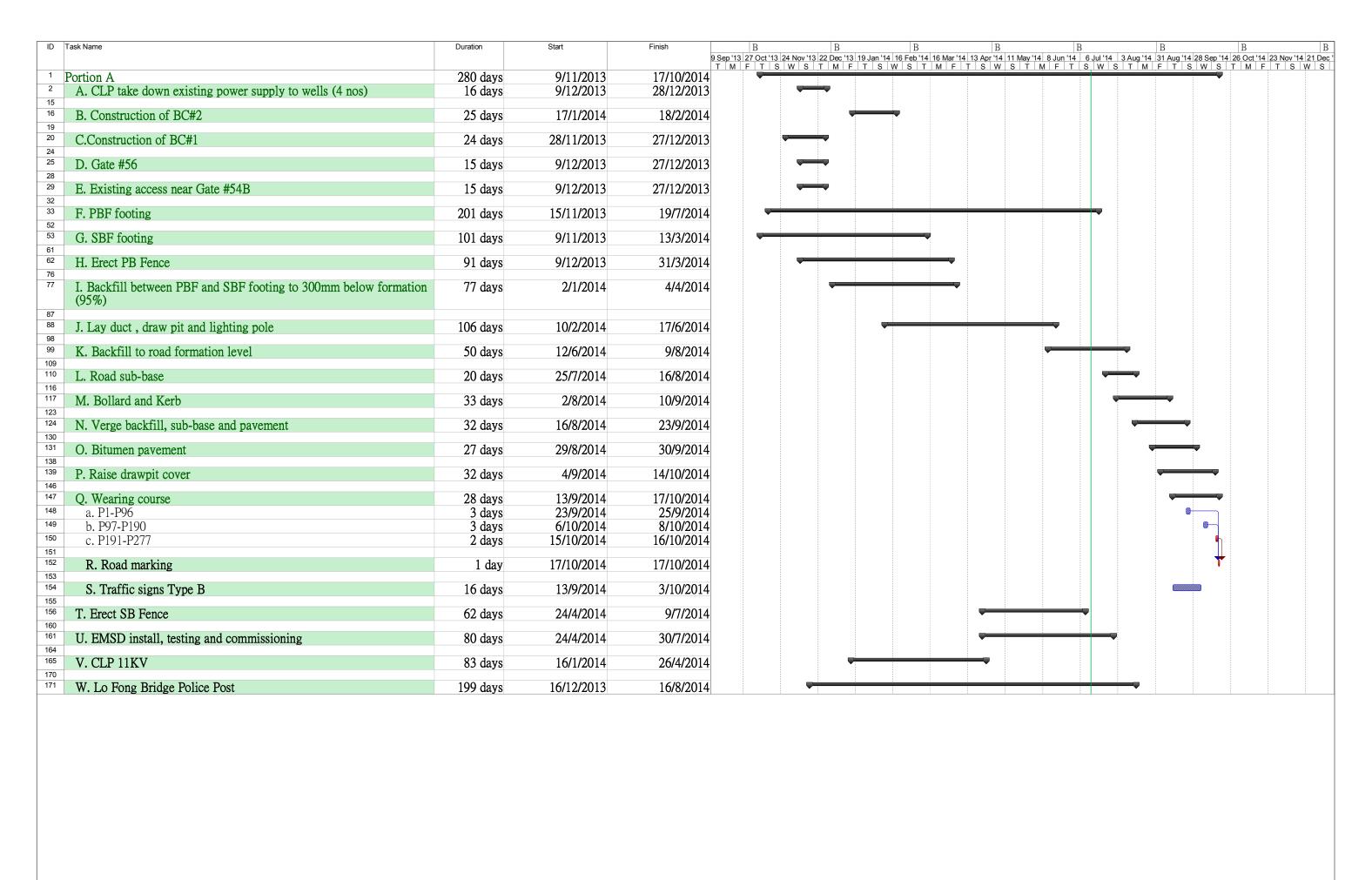
Environ (IEC) – Environ Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting



ANNEX C

CONSTRUCTION PROGRAM



Project No: DC/2011/06
Programme: Portion A Date: 1-7-2014

Project Summary

Duration-only

Manual Summary

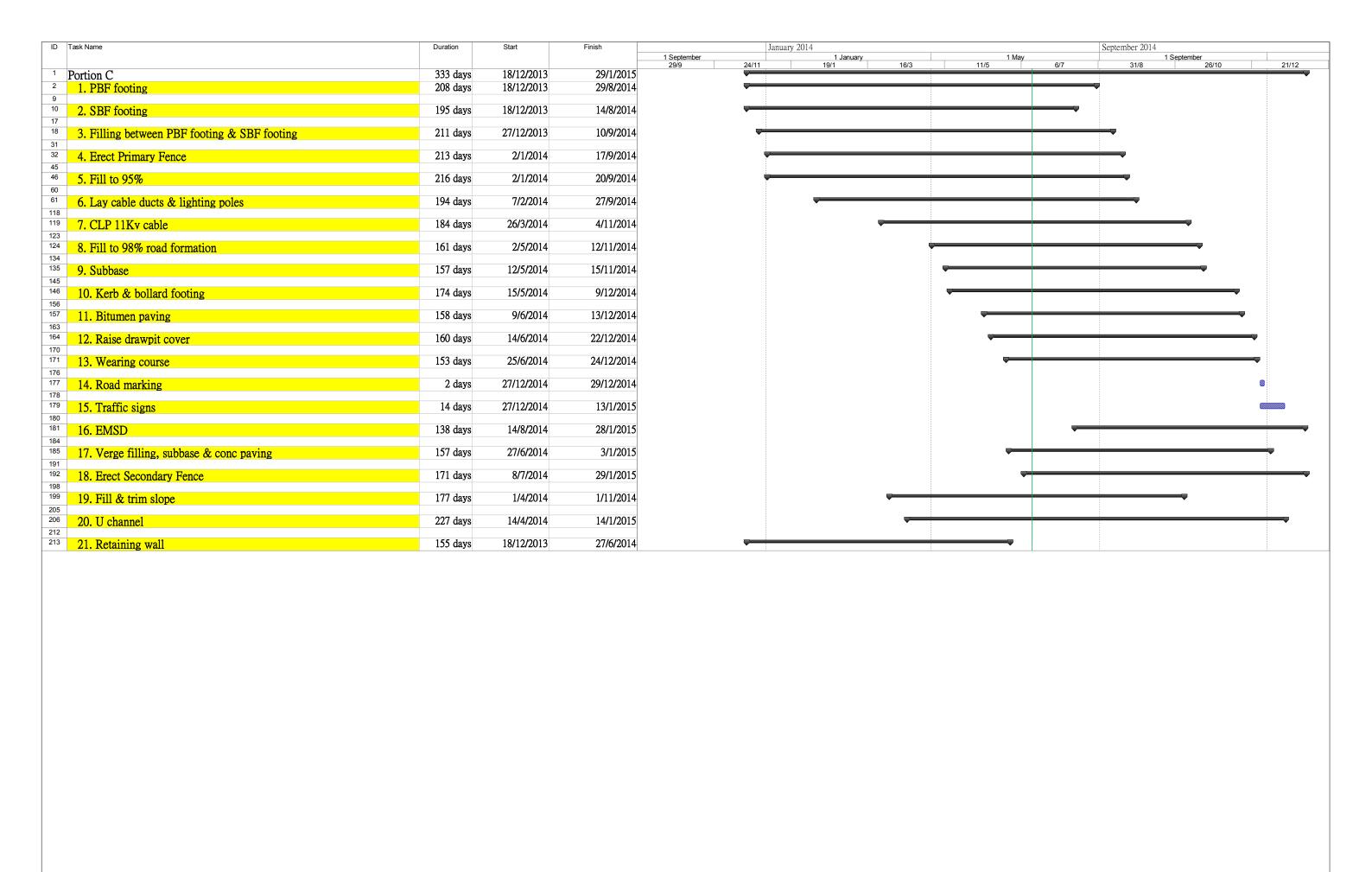
Critical

Progress

Progress

Progress

Amount of the control o



Project No: DC/2011/06
Programme: Portion C
Date: 1-07-2014

progress

Split

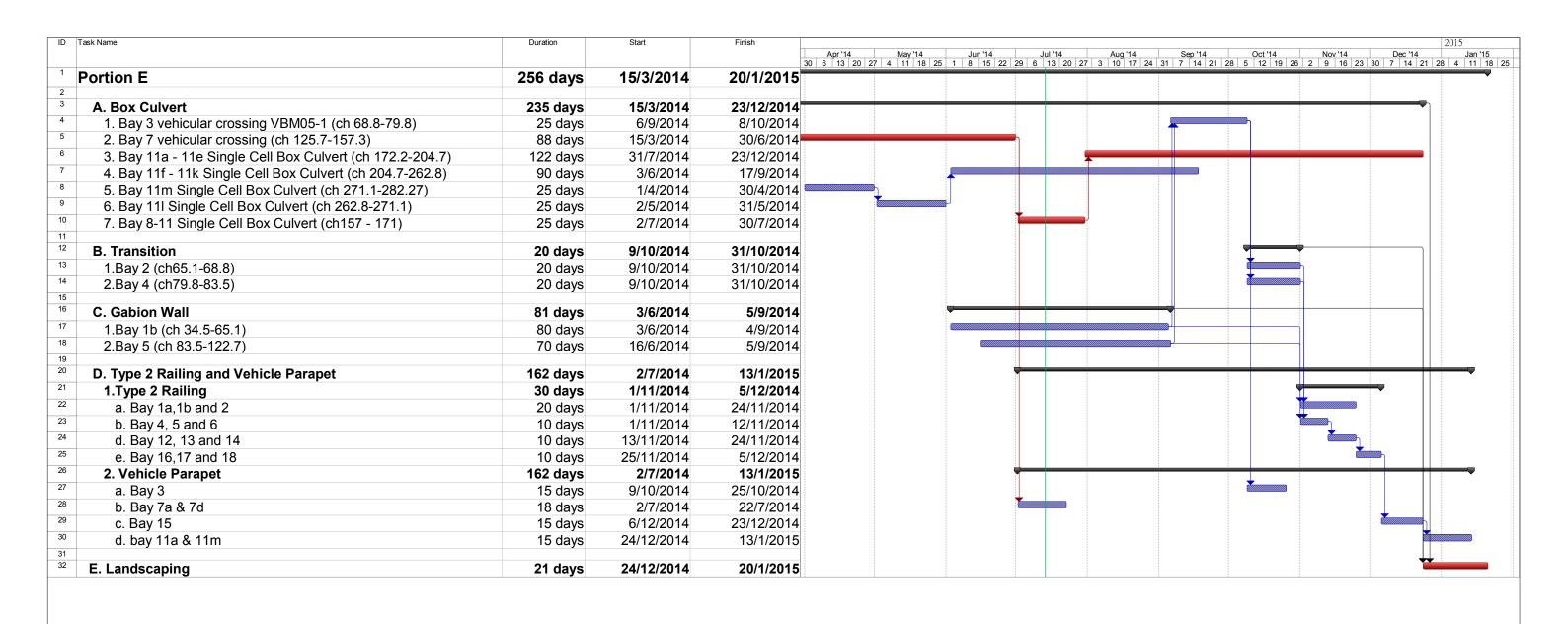
Summary

Project Summary

Proj

| Task Name | Duration | Start | Finish ptember 11 Novem | January 2014 mber 1 January | 21 February 11 16/2 9/3 30/3 20/4 | May 2014 April 1 June | September 20 21 July 11 Sept | tember 1 November | January 201 21 December |
|---|--------------------|------------|-------------------------|------------------------------|--------------------------------------|-----------------------|------------------------------|--------------------|-------------------------|
| Portion D | 299 days | 3/3/2014 | 2/3/2015 | 15/12 5/1 26/1 | 10/2 9/3 30/3 20/4 | 11/5 1/6 22/6 | 13// 3/8 24/8 14/9 | 5/10 26/10 16/11 7 | 712 28/12 18/1 |
| 1. Possession of Site | 1 day | 3/3/2014 | 3/3/2014 | | <u>_</u> | | | | |
| | | 3/3/2014 | 10/3/2014 | | | | | | |
| 2. Setting out | 7 days | | | | | | | | |
| 3. Site clearance | 14 days | 11/3/2014 | 26/3/2014 | | | | | | |
| 4. Road diversion | 97 days | 28/7/2014 | 20/11/2014 | | | | ▼ | - | |
| A. Construction | 5 days | 28/7/2014 | 1/8/2014 | | | | ₽ | | |
| B. Diversion | 1 day | 2/8/2014 | 2/8/2014 | | | | | | |
| C. Reinstate existing road | 2 days | 25/10/2014 | 27/10/2014 | | | | | | |
| D Removal of temporary road diversion | 1 day | 28/10/2014 | 28/10/2014 | | | | | 1 | |
| E. Reinstatement of private land | 20 days | 29/10/2014 | 20/11/2014 | | | | | | |
| 5. Existing monumental archway | 236 days | 4/3/2014 | 12/12/2014 | | 1 | | | - | , |
| A. Survey | 25 days | 4/3/2014 | 1/4/2014 | | | | | | |
| B. Removal | 35 days | 2/4/2014 | 15/5/2014 | | | | | | |
| C. Reinstatement | 30 days | 8/11/2014 | 12/12/2014 | | | | | | |
| 6. Utilities | 241 days | 27/3/2014 | 14/1/2015 | | - | | | | - |
| A. Public lighting | 121 days | 27/3/2014 | 20/8/2014 | | + | | | | |
| Locate existing cable alignment at outlet | 5 days | 27/3/2014 | 1/4/2014 | | • | | | | |
| 2) Lay duct and draw pit between inlet and existing | 15 days | 2/4/2014 | 19/4/2014 | | | | | | |
| road at downstream | 2 40.40 | 2/8/2014 | 5/8/2014 | | | | | | |
| 3) Lay duct under existing road | 3 days | | | | | | 1 | | |
| 4) Extend existing cable duct at outlet | 5 days | 4/8/2014 | 8/8/2014 | | | | | | |
| 5) Cable laying and erect new pole by others | 30 days | 16/7/2014 | 19/8/2014 | | | | | | |
| 6) Take down existing lighting pole by others | 1 day | 20/8/2014 | 20/8/2014 | | | | | | |
| B. Construct new telephone pit at inlet | 3 days | 17/12/2014 | 19/12/2014 | | | | | | |
| C. WSD | 241 days | 27/3/2014 | 14/1/2015 | | | | | | • |
| 1) That pit to locate existing 0/0 water pipeline | 5 days | 27/3/2014 | 1/4/2014 | | | | | | |
| 2) Confirm alignment of new pipe by WSD | 21 days | 2/4/2014 | 26/4/2014 | | | | | | |
| 3) Lay new pipe | 28 days | 24/11/2014 | 27/12/2014 | | | | | 1 | |
| 4) Connect by WSD | 14 days | 29/12/2014 | 14/1/2015 | | | | | | |
| 7. Outlet aproli | 213 days | 11/3/2014 | 22/11/2014 | | | | | | |
| A. Confirm alignment of outlet | 2 days | 11/3/2014 | 12/3/2014 22/11/2014 | | • | | | | |
| B. Construct outlet | 30 days | 20/10/2014 | 22/11/2014 | | | | | | |
| 8. Box culvert | 79 days | 16/7/2014 | 18/10/2014 | | | | 7 | | |
| A. Bay 11 (CH 48.193-53.443) with ex. Lighting poje | 21 days | 3/9/2014 | 27/9/2014 | | | | | | |
| B. Bay 12 (CH 53.443-58.693) | 21 days | 9/8/2014 | 2/9/2014 | | | | | | |
| C. Bay 13 (58.693-62.868) | 21 days | 16/7/2014 | 8/8/2014 | | | | | | |
| D. Bay 19 (84.083-89.723) | 21 days | 4/8/2014 | 27/8/2014 | | | | | | |
| E. Bay 20 (89.723-95.423) | 21 days | 28/8/2014 | 22/9/2014 | | | | | | |
| F. Bay 21 (95.423-99.441) | 21 days | 23/9/2014 | 18/10/2014 | | | | | | |
| 9. Rectangular channel | 227 days | 21/4/2014 | 21/1/2015 | | - | | | | |
| | 227 days | 17/12/2014 | 5/1/2015 | | · | | | | |
| A. Bay 2 (CH 7-12.244) with ex. Lighting pole B. Bay 3 (CH 12.244-17.293) | 14 days 14 days | 6/1/2015 | 21/1/2015 | | | | | | |
| C. Bay 4 (CH 17.293-22.443) | 14 days | 22/12/2014 | 9/1/2015 | | | | | | |
| D. Bay 5 (CH 22.443.6-27.593) | 14 days | 5/12/2014 | 20/12/2014 | | | | | | |
| D. Bay 5 (CH 22.443.6-27.593) E. Bay 7 (CH 27.593-32.743) | 14 days | 19/11/2014 | 4/12/2014 | | | | | Ţ | |
| F. Bay 8 (CH 32.743-37.893) | 14 days | 3/11/2014 | 18/11/2014 | | | | | | |
| G. Bay 9 (CH 37.893-43.043) | - | 17/10/2014 | 1/11/2014 | | | | | * | |
| , | 14 days | 29/9/2014 | | | | | | _ | |
| H. Bay 10 (CH 43.043-48.193) | 14 days | | 16/10/2014 | | | | J | | |
| I. Bay 14 (CH 58.693-62.868) | 14 days | 28/6/2014 | 15/7/2014 | | | | | | |
| ect No: DC/2011/06 progress Split | Summary | Project | Summary Duration-only | Manua | al Summary | Critical | Critical Split | Progress | |
| 1-07-2014 | | | | | | | | | |
| | - | | Page 1 | | | · | | · | |

| ID Task Name | Duration | Start | Finish | | | January 2014 | | | May | 2014 | | | | Septe | ember 2014 | | | Januar | y 2015 |
|--|----------|------------|------------|---|------------------------|-----------------------|-------|---------------------|-------------------|------|--------------------|------|----------------|-------|-----------------------|----------|-------------------------|---------|----------|
| | | | | | 11 November 24/11 15/1 | 1 January 2 5/1 26 | 21 Fe | ebruary 9/3 30/3 | 11 Apri 3 20/4 | | 1 June 1/6 22/6 | 13/7 | 21 July 3/8 | | 11 Septeml 14/9 5/ | 1 Novem | | 21 Dece | |
| J. Bay 15 (CH 62.868-67.043) | 14 days | 12/6/2014 | 27/6/2014 | | 2011 101 | | | 0.0 | 20/. | | | 1011 | 0.0 | 20 | | | | | |
| ⁵⁷ K. Bay 16 (CH 67.043-72.743) | 14 days | 26/5/2014 | 11/6/2014 | | | | | | | | | | | | | | | | |
| L. Bay 17 (CH 72.743-78.443) | 14 days | 9/5/2014 | 24/5/2014 | | | | | | | ا ل | | | | | | | | | |
| ⁵⁹ M. Bay 18 (CH 78.443-84.083) | 14 days | 21/4/2014 | 8/5/2014 | | | | | | | | | | | | | | | | |
| 60 61 10 Intaka angan Bay 1 (CH 0.7) | | | | | | | | | | | | | | | | <u> </u> | | | |
| 10. Ilitake aproli Bay 1 (Cn 0-7) | 20 days | 24/11/2014 | 16/12/2014 | | | | | | | | | | | | | | | | |
| 62 63 11. U-channel | 59 days | 5/12/2014 | 14/2/2015 | | | | | | | | | | | | | | - | | |
| 11. O-Chamilei | | | | | | | | | | | | | | | | | | | |
| A. Day 14 - Day 10 | 21 days | 22/1/2015 | 14/2/2015 | 1 | | | | | | | | | | | | | $\downarrow \downarrow$ | | |
| ⁶⁵ B. Bay 2 - Bay 10 | 21 days | 5/12/2014 | 31/12/2014 | | | | | | | | | | | | | | : | | |
| 66 67 12 Karb | 40 days | 5/12/2014 | 2/2/204 | | | | | | | | | | | | | | | | |
| IZ. Neib | 48 days | | 2/2/2015 | 1 | | | | | | | | | | | | | I | | ₩ |
| ⁶⁸ A. Bay 14 - Bay 18 | 10 days | 22/1/2015 | 2/2/2015 | | | | | | | | | | | | | | Ш | | |
| ⁶⁹ B. Bay 2 - Bay 10 | 10 days | 5/12/2014 | 16/12/2014 | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | | | |
| ⁷¹ 13. Type 2 railing | 45 days | 17/12/2014 | 10/2/2015 | | | | | | | | | | | | | | | | |
| ⁷² A. Bay 14 - Bay 18 | 7 days | 3/2/2015 | 10/2/2015 | | | | | | | | | | | | | | | | |
| ⁷³ B. Bay 2 - Bay 10 | 7 days | 17/12/2014 | 24/12/2014 | | | | | | | | | | | | | | Ě | | |
| 74 | | 40101004.5 | 0.0.00.1 | | | | | | | | | | | | | | | | |
| ⁷⁵ 14. Landscaping | 10 days | 16/2/2015 | 2/3/2015 | | | | | | | | | | | | | | | | |





ANNEX D

SUMMARY OF STATUS OF ENVIRONMENTAL LICENSES AND PERMIT

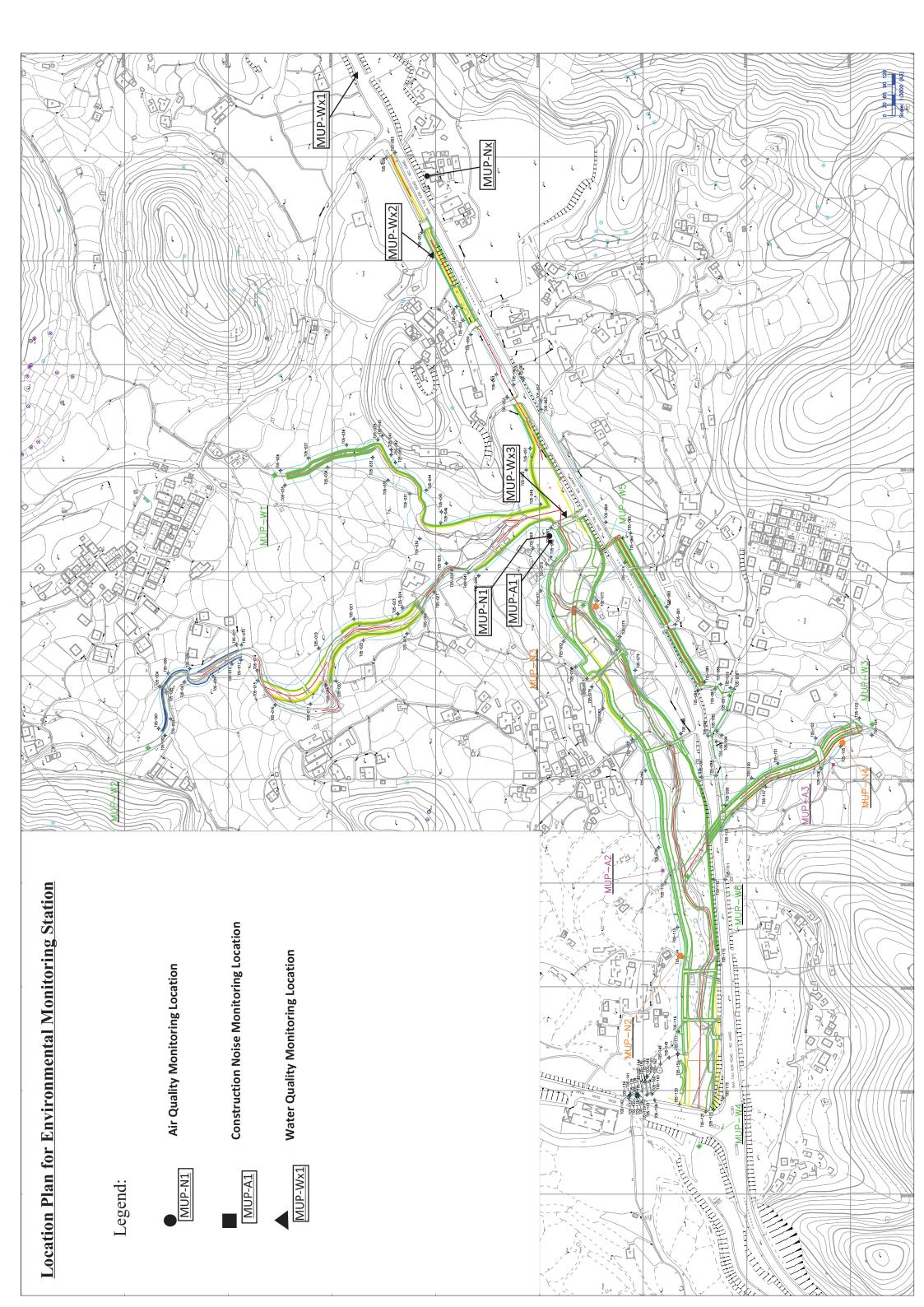


| Permit Type | Licenses / Permit No. | Date of Issuance by EPD | Expiry Date | Concerned Location | Status |
|---|--------------------------|-------------------------------|----------------|---|---------------------------|
| Environmental Permit | EP-277/2007 | 09 Jul 2007 | N.A | Man Uk Pin | EP-277/2007/A to |
| Environmental Permit | EP-277/2007/A | 01 Dec 2009 | N.A | Maii Ok Piii | supersede EP- 277/2007 |
| Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (APCO) (Construction Dust) Regulation | N.A. | N.A. | N.A. | Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River) | Valid |
| Account for Disposal of Construction Waste | 7015003 | 07 May 2012 | N.A. | Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River) | Valid |
| Application for Wastewater Discharge License under Water Pollution Control Ordinance (WPCO) | W5/11363/1 | 29 August 2012 | 31 Aug 2017 | Man Uk Pin | Valid |
| Register as a Chemical Waste Producer under Waste Disposal Ordinance | 5123-642- S3565-03 | 3 October 2012 | N.A | Contract Area (Lin Ma Hang, Man Uk Pin, Ma Wat Wai and Ping Yuen River) | Valid |



ANNEX E

ENVIRONMENTAL MONITORING LOCATIONS



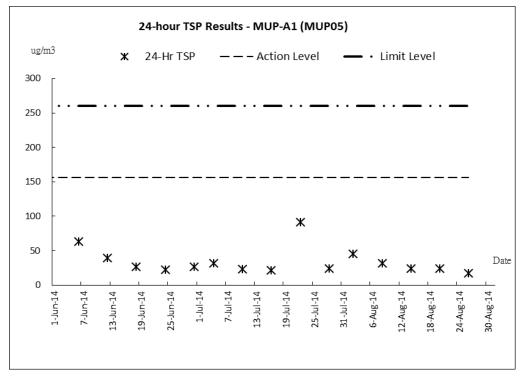


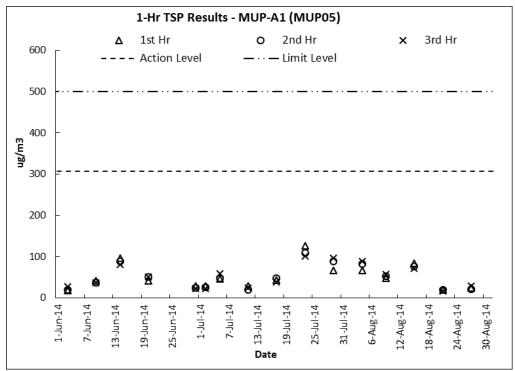
ANNEX F

GRAPHICAL PLOTS OF THE TRENDS OF MONITORED PARAMETERS



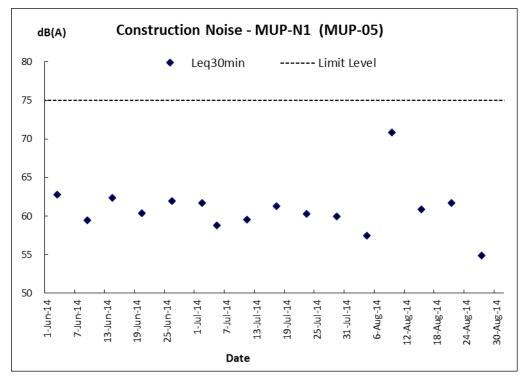
Air Quality

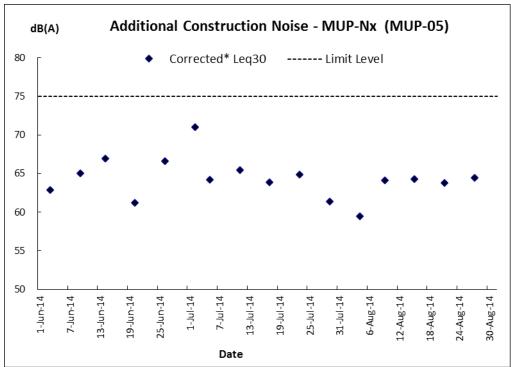






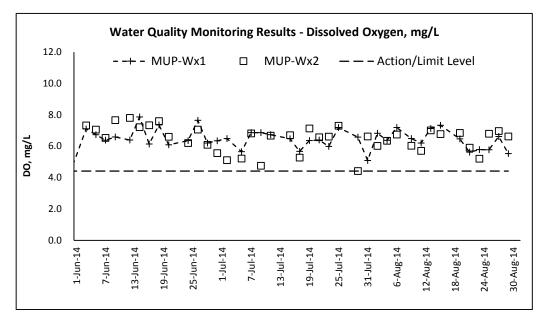
Construction Noise

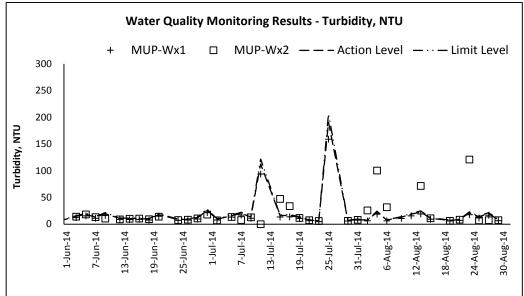






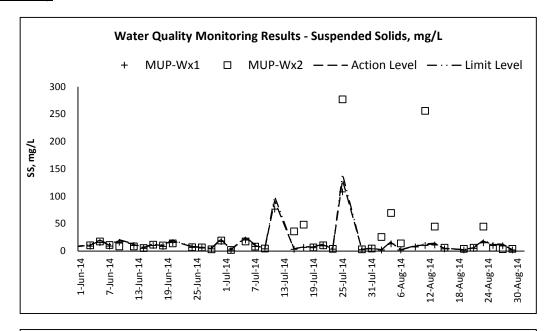
Water Quality

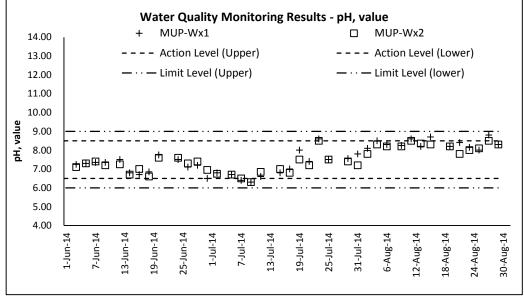






Water Quality







ANNEX G

MONTHLY SUMMARY OF WASTE FLOW TABLE

Monthly Summary Waste Flow Table

Name of Department: DSD Contract No.: <u>DC/2011/06</u>

Monthly Summary Waste Flow Table for 2014

| | A | ctual Quantities of | f Inert C&D Mate | erials Generated M | onthly | | | Actual Quantities of | Non C&D Was | tes Generated Mon | hly |
|--------|--------------------------|---|---------------------------|-----------------------------|----------------------------|--------------------------|-------------|----------------------------|--------------------------|-------------------|--------------------------------|
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste | Others, e.g. general refuse |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| Jan-14 | 14.248 | 0.000 | 0.000 | 14.248 | 0.000 | 0.568 | 0.244 | 0.003 | 0.000 | 0.000 | 0.000 |
| Feb-14 | 12.912 | 0.000 | 0.000 | 12.912 | 0.000 | 0.656 | 0.103 | 0.002 | 0.000 | 0.000 | 0.005 |
| Mar-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.744 | 0.200 | 0.005 | 0.000 | 0.04 | 0.065 |
| Apr-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.352 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 |
| May-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.240 | 0.000 | 0.000 | 0.000 | 0.000 | 0.175 |
| Jun-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 |
| Jul-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.072 | 0.000 | 0.000 | 0.030 |
| Aug-14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.066 | 0.000 | 0.000 | 0.045 |
| Sep-14 | | | | | | | | | | | |
| Oct-14 | | | | | | | | | | | |
| Nov-14 | | | | | | | | | | | |
| Dec-14 | | | | | | | | | | | _ |
| Total | 27.160 | 0.000 | 0.000 | 27.160 | 0.000 | 2.560 | 0.550 | 0.148 | 0.000 | 0.040 | 0.400 |

Notes:

⁽¹⁾ Note Used.

⁽²⁾ The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites.

⁽³⁾ Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

⁽⁴⁾ The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring.

Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jun-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|--|-------------------------------------|-----------------------------|---------|
| 1 | Transition formwork & falsework | Temperary formwork & falsework design | 10 | 9 | |
| | (Portion A,B,E) | | | | |
| 2 | Transition formwork & falsework | Temperary formwork & falsework design | 25 | 18 | |
| | (Portion A,B,C) | | | | |
| 3 | Transition formwork & falsework | Temperary formwork & falsework design | 52 | 40 | |
| | (Portion A.B.C.E) | | | | |
| 4 | Transition formwork & falsework | Temperary formwork & falsework design | 77 | 72 | |
| | (Portion A,B,C,E) | | | | |
| 5 | Transition formwork & falsework | Temperary formwork & falsework design | 102 | 86 | |
| | (Portion A,B,C,E) | | | | |
| 6 | Transition formwork & falsework | Temperary formwork & falsework design | 115 | 103 | |
| | (Portion A,B,C,E) | | | | |
| 7 | Transition formwork & falsework | Temperary formwork & falsework design | 121 | 112 | |
| | (Portion A.B.C.E) | _ | | | |
| 8 | Transition formwork & falsework | Temperary formwork & falsework design | 145 | 139 | |
| | (Portion A,B,C,E) | | | | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jun-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 9 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 154 | 151 | |
| 10 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 156 | 155 | |
| 11 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 157 | 156 | |
| 12 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 13 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 14 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 171 | 166 | |
| 15 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 178 | 173 | |
| 16 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 191 | 186 | |

Notes

for ease of updating.

(b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one

Contract No.: DC/2011/06

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jun-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|--|-------------------------------------|-----------------------------|---------|
| 17 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 200 | 194 | |
| 18 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 205 | 201 | |
| 19 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 215 | 212 | |
| 20 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 225 | 222 | |
| 21 | Transition formwork & falsework (Portion A,B,C,D,E) | Temperary formwork & falsework design | 226 | 223 | |
| | | | | | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jul-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 1 | Transition formwork & falsework (Portion A,B,E) | Temperary formwork & falsework design | 10 | 9 | |
| 2 | Transition formwork & falsework (Portion A,B,C) | Temperary formwork & falsework design | 25 | 18 | |
| 3 | Transition formwork & falsework (Portion A.B.C.E) | Temperary formwork & falsework design | 52 | 40 | |
| 4 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 77 | 72 | |
| 5 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 102 | 86 | |
| 6 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 115 | 103 | |
| 7 | Transition formwork & falsework (Portion A.B.C.E) | Temperary formwork & falsework design | 121 | 112 | |
| 8 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 145 | 139 | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

Contract No.: DC/2011/06

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jul-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 9 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 154 | 151 | |
| 10 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 156 | 155 | |
| 11 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 157 | 156 | |
| 12 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 13 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 14 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 171 | 166 | |
| 15 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 178 | 173 | |
| 16 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 191 | 186 | |

Notes

for ease of updating.

(b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one

Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Jul-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 17 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 200 | 194 | |
| 18 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 205 | 201 | |
| 19 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 215 | 212 | |
| 20 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 225 | 222 | |
| 21 | Transition formwork & falsework (Portion A,B,C,D,E) | Temperary formwork & falsework design | 226 | 223 | |
| | | | | | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

Contract No.: <u>DC/2011/06</u>

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Aug-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|--|-------------------------------------|-----------------------------|---------|
| 1 | Transition formwork & falsework | Temperary formwork & falsework design | 10 | 9 | |
| | (Portion A,B,E) | | | | |
| 2 | Transition formwork & falsework | Temperary formwork & falsework design | 25 | 18 | |
| | (Portion A,B,C) | | | | |
| 3 | Transition formwork & falsework | Temperary formwork & falsework design | 52 | 40 | |
| | (Portion A.B.C.E) | | | | |
| 4 | Transition formwork & falsework | Temperary formwork & falsework design | 77 | 72 | |
| | (Portion A,B,C,E) | | | | |
| 5 | Transition formwork & falsework | Temperary formwork & falsework design | 102 | 86 | |
| | (Portion A,B,C,E) | | | | |
| 6 | Transition formwork & falsework | Temperary formwork & falsework design | 115 | 103 | |
| | (Portion A,B,C,E) | | | | |
| 7 | Transition formwork & falsework | Temperary formwork & falsework design | 121 | 112 | |
| | (Portion A.B.C.E) | _ | | | |
| 8 | Transition formwork & falsework | Temperary formwork & falsework design | 145 | 139 | |
| | (Portion A,B,C,E) | | | | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

Contract No.: DC/2011/06

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Aug-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 9 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 154 | 151 | |
| 10 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 156 | 155 | |
| 11 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 157 | 156 | |
| 12 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 13 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 160 | 157 | |
| 14 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 171 | 166 | |
| 15 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 178 | 173 | |
| 16 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 191 | 186 | |

Notes

for ease of updating.

(b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one

Contract No.: DC/2011/06

Contract Title: Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District

Report Period: Aug-14

| Item No | Description of Works Process or Activity [see note (a) below] | Justifications for Using Timber in Temporary Construction Works | Est. Quantities of Timber Used (m³) | Actual Quantities used (m³) | Remarks |
|---------|---|---|-------------------------------------|-----------------------------|---------|
| 17 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 200 | 194 | |
| 18 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 205 | 201 | |
| 19 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 215 | 212 | |
| 20 | Transition formwork & falsework (Portion A,B,C,E) | Temperary formwork & falsework design | 225 | 222 | |
| 21 | Transition formwork & falsework (Portion A,B,C,D,E) | Temperary formwork & falsework design | 226 | 223 | |
| 22 | Transition formwork & falsework (Portion A,B,C,D,E) | Temperary formwork & falsework design | 230 | 229 | |
| | | | | | |

Notes

⁽a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

⁽b) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring