



**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 EIGHTH QUARTERLY
EM&A SUMMARY REPORT FOR DRAINAGE
WORKS UNDER EP-277/2007/A
(MARCH 2014 – MAY 2014)**

**PREPARED FOR
SANG HING CIVIL CONSTRUCTORS CO., LTD.**

Quality Index

Date	Reference No.	Prepared By	Approval By
25 June 2014	TCS00599/12/600/R0250	 Ben Tam Environmental Consultant	 T. W. Tam Environmental Team Leader

Version	Date	Description
0	18 June 2014	First submission.
1	25 June 2014	Amended against the IEC's comments on 25 June 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_0277L.14

25 June 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
Eighth Quarterly EM&A Summary Report for Drainage Works under EP-
277/2007/A (March 2014 – May 2014)**

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 25 June 2014 received through E-mail on 25 June 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

c.c.	DSD	Mr. Eric Cheng	by fax: 2827 8700
	SHCCCL	Mr. Raymond W.M. Yau	by fax: 2403 1162

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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 eighth quarterly EM&A summary report for Drainage Works under EP-277/2007/A, covering the construction period of the Works from 1 March 2014 to 31 May 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. Two (2) NOEs on water quality were issued in this reporting period. Based on the investigation and consider that the exceedance should not be due to the Project works. Therefore, neither NOE 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 – Re-provisioning 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) Re-provisioning 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 eighth quarterly EM&A summary report (herein after “this Report”) for Drainage Works under EP-277/2007/A, covering the construction period from 1 March 2014 to 31 May 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 Construction Activities during the Reporting Period at Portion E (Man Uk Pin)	
March 2014	<ul style="list-style-type: none"> • Establishment of Transplanted Tree T1107 • Plugging the abandoned watermain by WSD • Liaise with lot owner for the access • Construction of Gabion Block at the upstream • Construction of Box Culvert • Installation of temporary noise barrier • Underground Utilities Detection
April 2014	<ul style="list-style-type: none"> • Establishment of Transplanted Tree T1107 • Liaise with lot owner for the access • Construction of Gabion Block at the upstream • Construction of Box Culvert • Installation of temporary noise barrier • Underground Utilities Detection
May 2014	<ul style="list-style-type: none"> • Pruning and establishment of Transplanted Tree T1107. • Underground utilities detection. • Construction of box culvert and transition.

	<ul style="list-style-type: none"> • Construction of gabion channel. • Installation of temporary noise barrier
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ENVIRONMENTAL MITIGATION MEASURES AND ENVIRONMENTAL IMPLEMENTATION STATUS

1.08 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	<ul style="list-style-type: none"> • 1-Hour Total Suspended Particulate (hereinafter ‘1-Hr TSP’); and • 24-Hour Total Suspended Particulate (hereinafter ‘24-Hr TSP’). 	
Construction Noise	<ul style="list-style-type: none"> • 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 Quality	In Situ Measurement:	Temperature, Dissolved Oxygen, Dissolved Oxygen Saturation, pH value, Water Depth & Turbidity
	Laboratory Analysis	Suspended Solids (hereinafter ‘SS’),
Ecology	<ul style="list-style-type: none"> • 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
Water Quality	MUP05	-	MUP-Wx1	Additional Up-Stream Control Station: (Prior to and after connection of stream diversion)
		-	MUP-Wx2	Additional Impact Monitoring Station: (Prior to connection of stream diversion)
		-	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 ($\mu\text{g}/\text{m}^3$)		Limit Level ($\mu\text{g}/\text{m}^3$)	
	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*.

3.02 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 (10) Limit Level exceedances for water quality monitoring were recorded during the reporting period. Due to the exceedances were insignificant, it is considered as not due to the project. Moreover, two (2) NOEs were issued in this reporting period. Based on the investigation and consider that the exceedance 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. A total of two (2) 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

- 5.01 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

Environmental Issue	Frequency of Occurrence	
	From the project commencement to last reporting month	This reporting Period
	December 2012 – February 2014	March 2014 to May 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

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NOTES:

1. ALL LEVELS ARE IN METRIC UNITS. PROPOSED, UNLESS OTHERWISE SPECIFIED.
2. UNLESS OTHERWISE SPECIFIED, ALL CHANNELS ARE TO BE CONSTRUCTED TO THE DESIGN FLOOD CONDITION.
3. DIMENSIONS AND CHANNELS ARE TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
4. THE CHANNELS FOR THE CHANNELS ARE TO BE CONSTRUCTED TO THE DESIGN FLOOD CONDITION UNLESS OTHERWISE SPECIFIED.
5. THE EXISTING LOCATION FOR THE RECONSTRUCTION OF WALLS, WEIRING AND GATES TO BE AGREED WITH THE ENGINEER IN CHARGE.
6. FLOOD MARKING SIGN BOARDS TO BE STANDARD DRAWING NO. 200/202.
7. EXISTING LOCATION OF FLOOD MARKING SIGN SHALL BE AGREED WITH THE ENGINEER IN CHARGE.

LEGEND:

- POINTS (LIMIT)**
- SETTING OUT POINT (S.O.P.) FOR CHANNEL
 - ALIGNMENT OF ALIGNMENT
 - LINE OF ALIGNMENT
 - PROPOSED SIGN BOARD
 - PROPOSED FLOOD MARKING SIGN
- PROPOSED CHANNEL**
- PROPOSED CHANNEL
 - PROPOSED CHANNEL
 - PROPOSED CHANNEL
 - PROPOSED CHANNEL
 - PROPOSED CHANNEL

FOR TENDER PURPOSES ONLY

Particulars	Unit	Quantity	Rate	Amount
PROPOSED CHANNEL	m	1000	100	100000
PROPOSED CHANNEL	m	2000	200	400000
PROPOSED CHANNEL	m	3000	300	900000
PROPOSED CHANNEL	m	4000	400	1600000
PROPOSED CHANNEL	m	5000	500	2500000
PROPOSED CHANNEL	m	6000	600	3600000
PROPOSED CHANNEL	m	7000	700	4900000
PROPOSED CHANNEL	m	8000	800	6400000
PROPOSED CHANNEL	m	9000	900	8100000
PROPOSED CHANNEL	m	10000	1000	10000000

Contract No. DC/2011/06

RECONSTRUCTION OF BOUNDARY FENCED ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING TIEN RIVER AND PING FU SHUI AND DRAINAGE WORKS IN NORTH DISTRICT

GENERAL LAYOUT PLAN FOR DRAINAGE CHANNEL MUP05

Scale: 1:500 A1, 1:1000 A3



香港特別行政區政府排水署
DRAINAGE SERVICES DEPARTMENT



EXISTING AND PROPOSED ELEVATION DATA

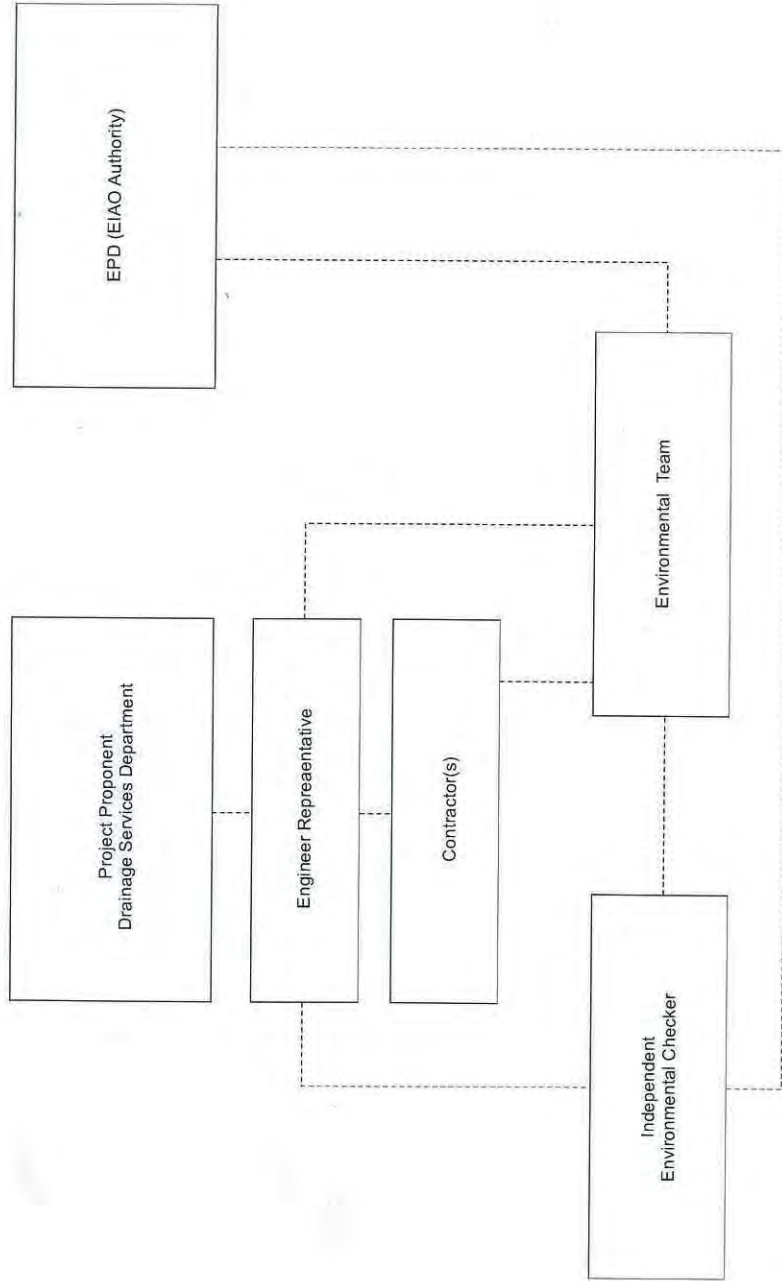
S.O.P.	CHANNEL	LINE	EXISTING	PROPOSED
101	1	1	1.00	1.00
102	1	2	1.50	1.50
103	1	3	2.00	2.00
104	1	4	2.50	2.50
105	1	5	3.00	3.00
106	1	6	3.50	3.50
107	1	7	4.00	4.00
108	1	8	4.50	4.50
109	1	9	5.00	5.00
110	1	10	5.50	5.50
111	1	11	6.00	6.00
112	1	12	6.50	6.50
113	1	13	7.00	7.00
114	1	14	7.50	7.50
115	1	15	8.00	8.00
116	1	16	8.50	8.50
117	1	17	9.00	9.00
118	1	18	9.50	9.50
119	1	19	10.00	10.00
120	1	20	10.50	10.50
121	1	21	11.00	11.00
122	1	22	11.50	11.50
123	1	23	12.00	12.00
124	1	24	12.50	12.50
125	1	25	13.00	13.00
126	1	26	13.50	13.50
127	1	27	14.00	14.00
128	1	28	14.50	14.50
129	1	29	15.00	15.00
130	1	30	15.50	15.50
131	1	31	16.00	16.00
132	1	32	16.50	16.50
133	1	33	17.00	17.00
134	1	34	17.50	17.50
135	1	35	18.00	18.00
136	1	36	18.50	18.50
137	1	37	19.00	19.00
138	1	38	19.50	19.50
139	1	39	20.00	20.00
140	1	40	20.50	20.50
141	1	41	21.00	21.00
142	1	42	21.50	21.50
143	1	43	22.00	22.00
144	1	44	22.50	22.50
145	1	45	23.00	23.00
146	1	46	23.50	23.50
147	1	47	24.00	24.00
148	1	48	24.50	24.50
149	1	49	25.00	25.00
150	1	50	25.50	25.50
151	1	51	26.00	26.00
152	1	52	26.50	26.50
153	1	53	27.00	27.00
154	1	54	27.50	27.50
155	1	55	28.00	28.00
156	1	56	28.50	28.50
157	1	57	29.00	29.00
158	1	58	29.50	29.50
159	1	59	30.00	30.00
160	1	60	30.50	30.50
161	1	61	31.00	31.00
162	1	62	31.50	31.50
163	1	63	32.00	32.00
164	1	64	32.50	32.50
165	1	65	33.00	33.00
166	1	66	33.50	33.50
167	1	67	34.00	34.00
168	1	68	34.50	34.50
169	1	69	35.00	35.00
170	1	70	35.50	35.50
171	1	71	36.00	36.00
172	1	72	36.50	36.50
173	1	73	37.00	37.00
174	1	74	37.50	37.50
175	1	75	38.00	38.00
176	1	76	38.50	38.50
177	1	77	39.00	39.00
178	1	78	39.50	39.50
179	1	79	40.00	40.00
180	1	80	40.50	40.50
181	1	81	41.00	41.00
182	1	82	41.50	41.50
183	1	83	42.00	42.00
184	1	84	42.50	42.50
185	1	85	43.00	43.00
186	1	86	43.50	43.50
187	1	87	44.00	44.00
188	1	88	44.50	44.50
189	1	89	45.00	45.00
190	1	90	45.50	45.50
191	1	91	46.00	46.00
192	1	92	46.50	46.50
193	1	93	47.00	47.00
194	1	94	47.50	47.50
195	1	95	48.00	48.00
196	1	96	48.50	48.50
197	1	97	49.00	49.00
198	1	98	49.50	49.50
199	1	99	50.00	50.00
200	1	100	50.50	50.50



Small vertical text at the bottom right corner of the page.

ANNEX B

***ENVIRONMENTAL MANAGEMENT ORGANIZATION AND
COMMUNICATION LINES
AND
24-HOUR HOTLINE***



Key
- - - - - Line of Communication

EM&A Organisation Chart

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
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

ID	Task Name	Duration	Start	Finish	B							B							
					16 Feb '14		16 Mar '14			13 Apr '14		11 May '14			8 Jun '14		B		
					S	T	M	F	T	S	W	S	T	M	F	T	S	T	S
1	Portion A	254 days	9/11/2013	15/9/2014															
2	A. CLP take down existing power supply to wells (4 nos)	16 days	9/12/2013	28/12/2013															
3	a. naer P87 (#9)	16 days	9/12/2013	28/12/2013															
4	1. site visit	15 days	9/12/2013	27/12/2013															
5	2. take down	1 day	28/12/2013	28/12/2013															
6	b. near P179 (#6)	15 days	9/12/2013	27/12/2013															
7	1. site visit	14 days	9/12/2013	24/12/2013															
8	2. take down	1 day	27/12/2013	27/12/2013															
9	c. near P193 (#5)	16 days	9/12/2013	28/12/2013															
10	1. site visit	15 days	9/12/2013	27/12/2013															
11	2. take down	1 day	28/12/2013	28/12/2013															
12	d. near P228 (#7)	15 days	9/12/2013	27/12/2013															
13	1. site visit	14 days	9/12/2013	24/12/2013															
14	2. take down	1 day	27/12/2013	27/12/2013															
15																			
16	B. Construction of BC#2	25 days	17/1/2014	18/2/2014															
17	a. handover BC#2 by others	1 day	17/1/2014	17/1/2014															
18	b. Construction of BC#2	24 days	18/1/2014	18/2/2014															
19																			
20	C. Construction of BC#1	24 days	28/11/2013	27/12/2013															
21	a. outlet	6 days	28/11/2013	4/12/2013															
22	b. inlet	13 days	2/12/2013	16/12/2013															
23	c. backfill	8 days	17/12/2013	27/12/2013															
24																			
25	D. Gate #56	15 days	9/12/2013	27/12/2013															
26	a. Discussion with HKP to close Gate #56	14 days	9/12/2013	24/12/2013															
27	b. Close Gate # 56	1 day	27/12/2013	27/12/2013															
28																			
29	E. Existing access near Gate #54B	15 days	9/12/2013	27/12/2013															
30	a. Discussion with HKP to close existing access near Gate #54B	14 days	9/12/2013	24/12/2013															
31	b. Close existing access near Gate #54B	1 day	27/12/2013	27/12/2013															
32																			
33	F. PBF footing	93 days	15/11/2013	10/3/2014															
34	a. P82-P86 (affected by Gate 56)	43 days	28/12/2013	20/2/2014															
35	b. P87-P89 (affected by ex. Well)	33 days	30/12/2013	10/2/2014															
36	c. P93-P96	40 days	3/12/2013	21/1/2014															
37	d. P106-P108	30 days	27/11/2013	3/1/2014															
38	e. P109-P114	28 days	4/1/2014	8/2/2014															
39	f. P115-P123 (affected by BC#1)	30 days	28/12/2013	5/2/2014															
40	g. P124- P126	30 days	27/11/2013	3/1/2014															
41	h. P176-P178	30 days	15/11/2013	19/12/2013															
42	i. P179-P181 (affected by ex. Well)	16 days	28/12/2013	16/1/2014															
43	j. P182-P191	20 days	16/12/2013	10/1/2014															
44	k. P192-P193 (affected by ex. Well)	16 days	30/12/2013	17/1/2014															
45	l. P194-P200	20 days	30/12/2013	22/1/2014															
46	m. P201	30 days	22/11/2013	28/12/2013															
47	n. P202-P206 (affected by Gate 54B)	20 days	28/12/2013	21/1/2014															
48	o. P217-P227 (affected by BC#2)	17 days	19/2/2014	10/3/2014															
49	p. P228 and P229 (affected by temporary diversion)	16 days	19/2/2014	8/3/2014															
50	q. P97	13 days	22/1/2014	8/2/2014															
51																			
52	G. SBF footing	101 days	9/11/2013	13/3/2014															
53	a. S79-S83 (affected by Gate 56)	20 days	28/12/2013	21/1/2014															
54	b. S114-S120 (affected by BC#1)	33 days	28/12/2013	8/2/2014															
55	c. S121-S125	40 days	27/11/2013	15/1/2014															
56	d. S186-S190	16 days	27/11/2013	14/12/2013															
57	e. S196	30 days	9/11/2013	13/12/2013															
58	f. S209-S212 (affected by Gate 54B)	33 days	28/12/2013	8/2/2014															
59	g. S225-S237 (affected by BC#2)	20 days	19/2/2014	13/3/2014															

ID	Task Name	Duration	Start	Finish	B							B								
					16 Feb '14	T	M	16 Mar '14	F	T	13 Apr '14	W	S	11 May '14	T	M	8 Jun '14	F	T	
60																				
61	H. Erect PB Fence	91 days	9/12/2013	31/3/2014																
62	a. P1-P3	15 days	2/1/2014	18/1/2014																
63	b. P21-P27	20 days	28/1/2014	22/2/2014																
64	c. P28-P32	15 days	10/12/2013	28/12/2013																
65	d. P82-P89	20 days	21/2/2014	15/3/2014																
66	e. P90-p97	15 days	10/2/2014	26/2/2014																
67	f. P106-P126	20 days	10/2/2014	4/3/2014																
68	g. P127-P135	15 days	9/12/2013	27/12/2013																
69	h. P149-P151	15 days	10/1/2014	27/1/2014																
70	i. P173-P178	15 days	20/12/2013	9/1/2014																
71	j. P179-P206	28 days	20/2/2014	24/3/2014																
72	k. P217-P229	18 days	11/3/2014	31/3/2014																
73	l. P248-P253	15 days	10/1/2014	27/1/2014																
74	m. P264- P268	10 days	28/12/2013	9/1/2014																
75																				
76	I. Backfill between PBF and SBF footing to 300mm below formation (95%)	77 days	2/1/2014	4/4/2014																
77	a. P1-P40	5 days	2/1/2014	7/1/2014																
78	b. P41-P80	5 days	8/1/2014	13/1/2014																
79	c. P81-P89	3 days	17/3/2014	19/3/2014																
80	d. P90-97	3 days	27/2/2014	1/3/2014																
81	e. P98-P108	3 days	5/3/2014	7/3/2014																
82	f. P109-P178	10 days	5/3/2014	15/3/2014																
83	g. P179-P216	10 days	25/3/2014	4/4/2014																
84	h. P217-P263	4 days	1/4/2014	4/4/2014																
85	i. P264-P277	5 days	10/1/2014	15/1/2014																
86																				
87	J. Lay duct , draw pit and lighting pole	106 days	10/2/2014	17/6/2014																
88	a. P1-P40 (priority P6, P15 and P29)	31 days	10/2/2014	17/3/2014																
89	b. P41-P80 (priority P60)	31 days	18/3/2014	23/4/2014																
90	c. P81-P89 (priority P83)	7 days	11/4/2014	18/4/2014																
91	d. P90-97 (priority P96)	6 days	3/4/2014	10/4/2014																
92	e. P98-P108 (priority P106)	8 days	19/4/2014	28/4/2014																
93	f. P109-P178 (priority P117, P130, P154, P175 and P178)	40 days	29/4/2014	17/6/2014																
94	g. P179-P216 (priority P198 and P208)	20 days	28/4/2014	22/5/2014																
95	h. P217-P263 (priority P220, P238, P251 and P261)	28 days	28/4/2014	31/5/2014																
96	i. P264-P277	11 days	28/4/2014	12/5/2014																
97																				
98	K. Backfill to road formation level	83 days	18/3/2014	26/6/2014																
99	a. P1-P40	5 days	18/3/2014	22/3/2014																
100	b. P41-P80	5 days	24/4/2014	29/4/2014																
101	c. P81-P89	3 days	19/4/2014	22/4/2014																
102	d. P90-97	3 days	11/4/2014	14/4/2014																
103	e. P98-P108	4 days	29/4/2014	3/5/2014																
104	f. P109-P178	8 days	18/6/2014	26/6/2014																
105	g. P179-P216	6 days	23/5/2014	29/5/2014																
106	h. P217-P263	6 days	3/6/2014	9/6/2014																
107	i. P264-P277	5 days	13/5/2014	17/5/2014																
108																				
109	L. Road sub-base	52 days	30/4/2014	3/7/2014																
110	a. P1-P80	10 days	30/4/2014	13/5/2014																
111	b. P81-P108	4 days	5/5/2014	9/5/2014																
112	c. P109-P178	5 days	27/6/2014	3/7/2014																
113	d. P179-P229	4 days	10/6/2014	13/6/2014																
114	e. P230-P277	6 days	10/6/2014	16/6/2014																
115																				
116	M. Bollard and Kerb	77 days	10/5/2014	9/8/2014																
117	a. P1-P80	43 days	14/5/2014	4/7/2014																
118	b. P81-P108	26 days	10/5/2014	10/6/2014																

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 Date: 1-4-2014

progress Summary Duration-only Critical Progress
 Split Project Summary Manual Summary Critical Split

ID	Task Name	Duration	Start	Finish	B							B						
					16 Feb '14		16 Mar '14			13 Apr '14		11 May '14			8 Jun '14		B	
					S	T	M	F	T	S	W	S	T	M	F	T		
119	c. P109-P178	32 days	4/7/2014	9/8/2014														
120	d. P179-P229	24 days	14/6/2014	12/7/2014														
121	e. P230-P277	44 days	17/6/2014	7/8/2014														
122																		
123	N. Verge backfill, sub-base and pavement	49 days	17/7/2014	12/9/2014														
124	a. P1-P80	16 days	17/7/2014	4/8/2014														
125	b. P81-P108	6 days	15/8/2014	21/8/2014														
126	c. P109-P178	14 days	21/8/2014	5/9/2014														
127	d. P179-P229	15 days	26/8/2014	12/9/2014														
128	e. P230-P277	10 days	30/8/2014	11/9/2014														
129																		
130	O. Bitumen pavement	48 days	5/7/2014	29/8/2014														
131	a. P1-P49	5 days	5/7/2014	10/7/2014														
132	b. P50-P96	5 days	11/7/2014	16/7/2014														
133	c. P97-P143	4 days	11/8/2014	14/8/2014														
134	d. P144-191	5 days	15/8/2014	20/8/2014														
135	e. P192-238	4 days	21/8/2014	25/8/2014														
136	f. P239-P277	4 days	26/8/2014	29/8/2014														
137																		
138	P. Raise drawpit cover	53 days	11/7/2014	11/9/2014														
139	a. P1-P49	10 days	11/7/2014	22/7/2014														
140	b. P50-P96	10 days	17/7/2014	28/7/2014														
141	c. P97-P143	10 days	15/8/2014	26/8/2014														
142	d. P144-191	10 days	21/8/2014	1/9/2014														
143	e. P192-238	10 days	26/8/2014	5/9/2014														
144	f. P239-P277	10 days	30/8/2014	11/9/2014														
145																		
146	Q. Wearing course	39 days	31/7/2014	15/9/2014														
147	a. P1-P96	3 days	21/8/2014	23/8/2014														
148	b. P97-P190	3 days	2/9/2014	4/9/2014														
149	c. P191-P277	2 days	12/9/2014	13/9/2014														
150																		
151	R. Road marking	1 day	15/9/2014	15/9/2014														
152																		
153	S. Traffic signs Type B	16 days	31/7/2014	18/8/2014														
154																		
155	T. Erect SB Fence	62 days	24/4/2014	9/7/2014														
156	a. P1-P96	19 days	24/4/2014	17/5/2014														
157	b. P97-P190	18 days	18/6/2014	9/7/2014														
158	c. P191-P277	9 days	3/6/2014	12/6/2014														
159																		
160	U. EMSD install, testing and commissioning	113 days	17/3/2014	31/7/2014														
161	a. P1-P137	100 days	17/3/2014	16/7/2014														
162	b. 138-P206	100 days	1/4/2014	31/7/2014														
163																		
164	V. CLP 11KV	83 days	16/1/2014	26/4/2014														
165	a. P1-P80 (ch0-ch580)	18 days	16/1/2014	8/2/2014														
166	b. P81-P137 (ch580-ch1000)	12 days	20/3/2014	2/4/2014														
167	c. P138-P203 (ch1000-ch1500)	18 days	7/4/2014	26/4/2014														
168	e. P204-P277 (ch1500-ch2048)	18 days	7/4/2014	26/4/2014														
169																		
170	W. Lo Fong Bridge Police Post	159 days	16/12/2013	30/6/2014														
171	a. Concrete to wall and roof slab	12 days	16/12/2013	31/12/2013														
172	b. Curing	8 days	2/1/2014	10/1/2014														
173	c. Remove formwork and falsework	3 days	11/1/2014	14/1/2014														
174	d. Parapet wall and plinth	6 days	15/1/2014	21/1/2014														
175	e. Submission and approval of windows and door shop drawing	30 days	15/1/2014	21/2/2014														
176	f. Fabricate windows and doors	30 days	22/2/2014	28/3/2014														
177	g. Install windows, louvre and main door	5 days	29/3/2014	3/4/2014														

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progress Summary Duration-only Critical Progress
 Split Project Summary Manual Summary Critical Split

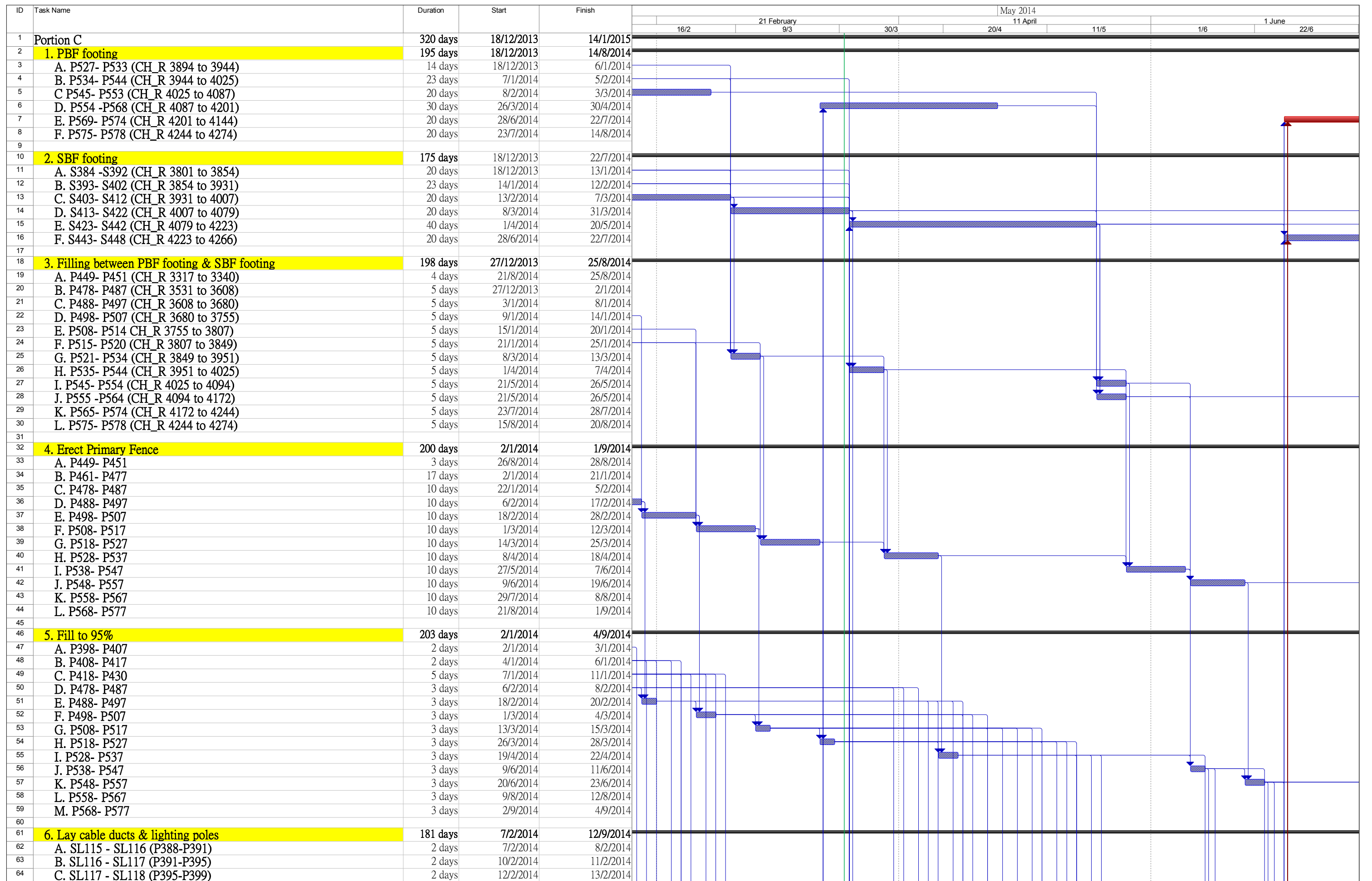
ID	Task Name	Duration	Start	Finish	B							B						
					16 Feb '14		16 Mar '14			13 Apr '14		11 May '14			8 Jun '14		B	
					S	T	M	F	T	S	W	S	T	M	F	T		
178	h. Submission and approval of folding door	30 days	15/1/2014	21/2/2014														
179	i. Install folding door	5 days	24/6/2014	28/6/2014														
180	j. Partition walls	7 days	15/1/2014	22/1/2014														
181	k. Internal finishing	21 days	4/4/2014	29/4/2014														
182	l. External finishing	25 days	30/4/2014	30/5/2014														
183	m. Waterproofing	48 days	22/1/2014	21/3/2014														
184	n. Solar panel, water tank and Air-conditioner	30 days	22/3/2014	26/4/2014														
185	o. Cat ladder	5 days	31/5/2014	6/6/2014														
186	p. E&M and plumbing works	30 days	30/4/2014	6/6/2014														
187	q. False ceiling and miscellaneous items	10 days	7/6/2014	18/6/2014														
188	r. Remove external scaffolding	3 days	7/6/2014	10/6/2014														
189	s. Outdoor U/G drainage	10 days	11/6/2014	21/6/2014														
190	t. Lay telephone ducts and draw pits (from ch700 to Post)	30 days	3/4/2014	10/5/2014														
191	u. Footpath around Post	7 days	23/6/2014	30/6/2014														
192	v. Railing	30 days	22/1/2014	28/2/2014														
193	w. Fabrication of folding door	100 days	22/2/2014	23/6/2014														

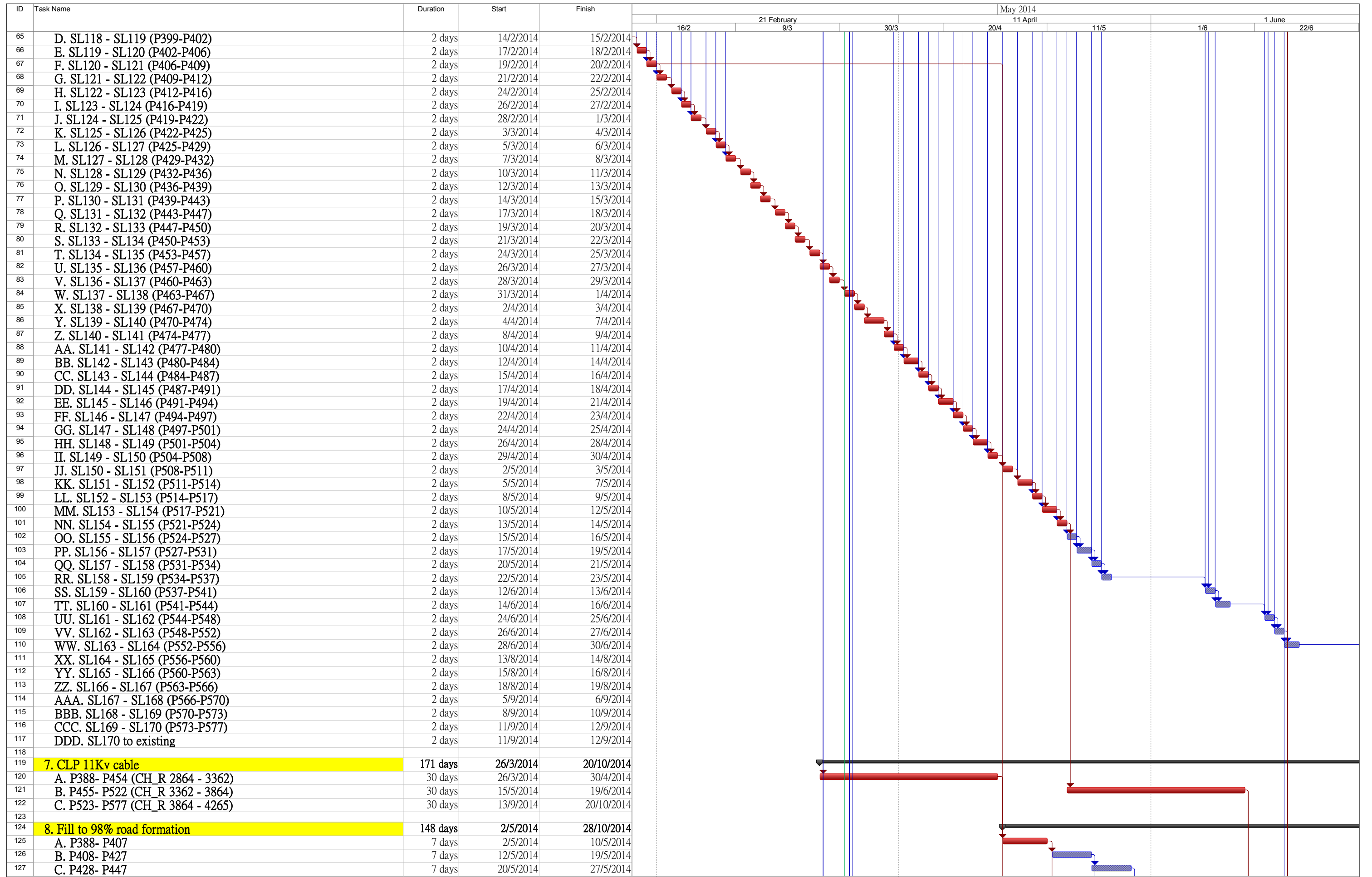
ID	Task Name	Duration	Start	Finish	May 2014											
					16/2	21 February 9/3	30/3	20/4	11 April	11/5	1/6	1 June	22/6			
1	Portion B	84 days	27/11/2013	11/3/2014	[Gantt bar from 27/11/2013 to 11/3/2014]											
2	A EMSD	27 days	27/11/2013	30/12/2013	[Gantt bar from 27/11/2013 to 30/12/2013]											
3																
4	B. Temporary fence at bay P386	1 day	24/1/2014	24/1/2014	[Gantt bar from 24/1/2014 to 24/1/2014]											
5																
6	C. Take down existing security fence	2 days	27/1/2014	28/1/2014	[Gantt bar from 27/1/2014 to 28/1/2014]											
7																
8	D. Ducting, drawpit and lighting pole	3 days	27/1/2014	29/1/2014	[Gantt bar from 27/1/2014 to 29/1/2014]											
9	1. SL83-SL84	1 day	27/1/2014	27/1/2014	[Gantt bar from 27/1/2014 to 27/1/2014]											
10	2. SL84-SL85	1 day	27/1/2014	27/1/2014	[Gantt bar from 27/1/2014 to 27/1/2014]											
11	3. SL85-SL86	1 day	28/1/2014	28/1/2014	[Gantt bar from 28/1/2014 to 28/1/2014]											
12	4. SL95-SL96	1 day	28/1/2014	28/1/2014	[Gantt bar from 28/1/2014 to 28/1/2014]											
13	5. SL96-SL97	1 day	29/1/2014	29/1/2014	[Gantt bar from 29/1/2014 to 29/1/2014]											
14	6. SL97-SL98	1 day	29/1/2014	29/1/2014	[Gantt bar from 29/1/2014 to 29/1/2014]											
15																
16	E. Fill to road formation level	30 days	31/12/2013	7/2/2014	[Gantt bar from 31/12/2013 to 7/2/2014]											
17	1. P280 - P292	3 days	29/1/2014	4/2/2014	[Gantt bar from 29/1/2014 to 4/2/2014]											
18	2. P293 - P305	5 days	27/1/2014	4/2/2014	[Gantt bar from 27/1/2014 to 4/2/2014]											
19	3. P306 - P318	5 days	27/1/2014	4/2/2014	[Gantt bar from 27/1/2014 to 4/2/2014]											
20	4. P319 - P331	5 days	30/1/2014	7/2/2014	[Gantt bar from 30/1/2014 to 7/2/2014]											
21	5. P332 - P344	5 days	31/12/2013	6/1/2014	[Gantt bar from 31/12/2013 to 6/1/2014]											
22	6. P345 - P357	5 days	31/12/2013	6/1/2014	[Gantt bar from 31/12/2013 to 6/1/2014]											
23	7. P358 - P370	5 days	31/12/2013	6/1/2014	[Gantt bar from 31/12/2013 to 6/1/2014]											
24	8. P371 - P384	5 days	31/12/2013	6/1/2014	[Gantt bar from 31/12/2013 to 6/1/2014]											
25	9. P385 - P387	3 days	3/1/2014	6/1/2014	[Gantt bar from 3/1/2014 to 6/1/2014]											
26																
27	F. Road subbase and bollard footing	12 days	29/1/2014	14/2/2014	[Gantt bar from 29/1/2014 to 14/2/2014]											
28	1. P280 - P299	3 days	5/2/2014	7/2/2014	[Gantt bar from 5/2/2014 to 7/2/2014]											
29	2. P300 - P319	3 days	8/2/2014	11/2/2014	[Gantt bar from 8/2/2014 to 11/2/2014]											
30	3. P320 - P339	3 days	12/2/2014	14/2/2014	[Gantt bar from 12/2/2014 to 14/2/2014]											
31	4. P340 - P359	3 days	29/1/2014	4/2/2014	[Gantt bar from 29/1/2014 to 4/2/2014]											
32	5. P360 - P384	3 days	29/1/2014	4/2/2014	[Gantt bar from 29/1/2014 to 4/2/2014]											
33	6. P385 - P387	1 day	29/1/2014	29/1/2014	[Gantt bar from 29/1/2014 to 29/1/2014]											
34																
35	G. Kerb	15 days	7/2/2014	24/2/2014	[Gantt bar from 7/2/2014 to 24/2/2014]											
36	1. P280 - P299	8 days	7/2/2014	15/2/2014	[Gantt bar from 7/2/2014 to 15/2/2014]											
37	2. P300 - P319	8 days	12/2/2014	20/2/2014	[Gantt bar from 12/2/2014 to 20/2/2014]											
38	3. P320 - P339	8 days	15/2/2014	24/2/2014	[Gantt bar from 15/2/2014 to 24/2/2014]											
39	4. P340 - P359	8 days	10/2/2014	18/2/2014	[Gantt bar from 10/2/2014 to 18/2/2014]											
40	5. P360 - P379	8 days	7/2/2014	15/2/2014	[Gantt bar from 7/2/2014 to 15/2/2014]											
41	6. P380 - P387	7 days	12/2/2014	19/2/2014	[Gantt bar from 12/2/2014 to 19/2/2014]											
42																
43	H. Bitumen pavement	10 days	21/2/2014	4/3/2014	[Gantt bar from 21/2/2014 to 4/3/2014]											
44	1. P280 - P316	4 days	21/2/2014	25/2/2014	[Gantt bar from 21/2/2014 to 25/2/2014]											
45	2. P317 -P352	4 days	26/2/2014	1/3/2014	[Gantt bar from 26/2/2014 to 1/3/2014]											
46	3. P353 - P387	2 days	3/3/2014	4/3/2014	[Gantt bar from 3/3/2014 to 4/3/2014]											
47																
48	I. Raise draw pit cover	10 days	26/2/2014	8/3/2014	[Gantt bar from 26/2/2014 to 8/3/2014]											
49	1. P280 - P316	4 days	26/2/2014	1/3/2014	[Gantt bar from 26/2/2014 to 1/3/2014]											
50	2. P317 -P352	4 days	3/3/2014	6/3/2014	[Gantt bar from 3/3/2014 to 6/3/2014]											
51	3. P353 - P387	4 days	5/3/2014	8/3/2014	[Gantt bar from 5/3/2014 to 8/3/2014]											
52																
53	J. Wearing course	3 days	7/3/2014	10/3/2014	[Gantt bar from 7/3/2014 to 10/3/2014]											
54																
55	K. U channel	12 days	17/2/2014	1/3/2014	[Gantt bar from 17/2/2014 to 1/3/2014]											
56	1. P280 - P299	5 days	17/2/2014	21/2/2014	[Gantt bar from 17/2/2014 to 21/2/2014]											
57	2. P300 - P319	5 days	21/2/2014	26/2/2014	[Gantt bar from 21/2/2014 to 26/2/2014]											
58	3. P320 - P339	5 days	25/2/2014	1/3/2014	[Gantt bar from 25/2/2014 to 1/3/2014]											
59	4. P340 - P359	5 days	19/2/2014	24/2/2014	[Gantt bar from 19/2/2014 to 24/2/2014]											
60	5. P360 - P369	3 days	17/2/2014	19/2/2014	[Gantt bar from 17/2/2014 to 19/2/2014]											
61																
62	L. Fill verge and subbase	8 days	26/2/2014	6/3/2014	[Gantt bar from 26/2/2014 to 6/3/2014]											
63	1. P280 - P316	2 days	26/2/2014	27/2/2014	[Gantt bar from 26/2/2014 to 27/2/2014]											
64	2. P317 -P352	2 days	3/3/2014	4/3/2014	[Gantt bar from 3/3/2014 to 4/3/2014]											
65	3. P353 - P387	2 days	5/3/2014	6/3/2014	[Gantt bar from 5/3/2014 to 6/3/2014]											

Project No: DC/2011/06
 Programme: Portion B
 Date: 1-4-2014

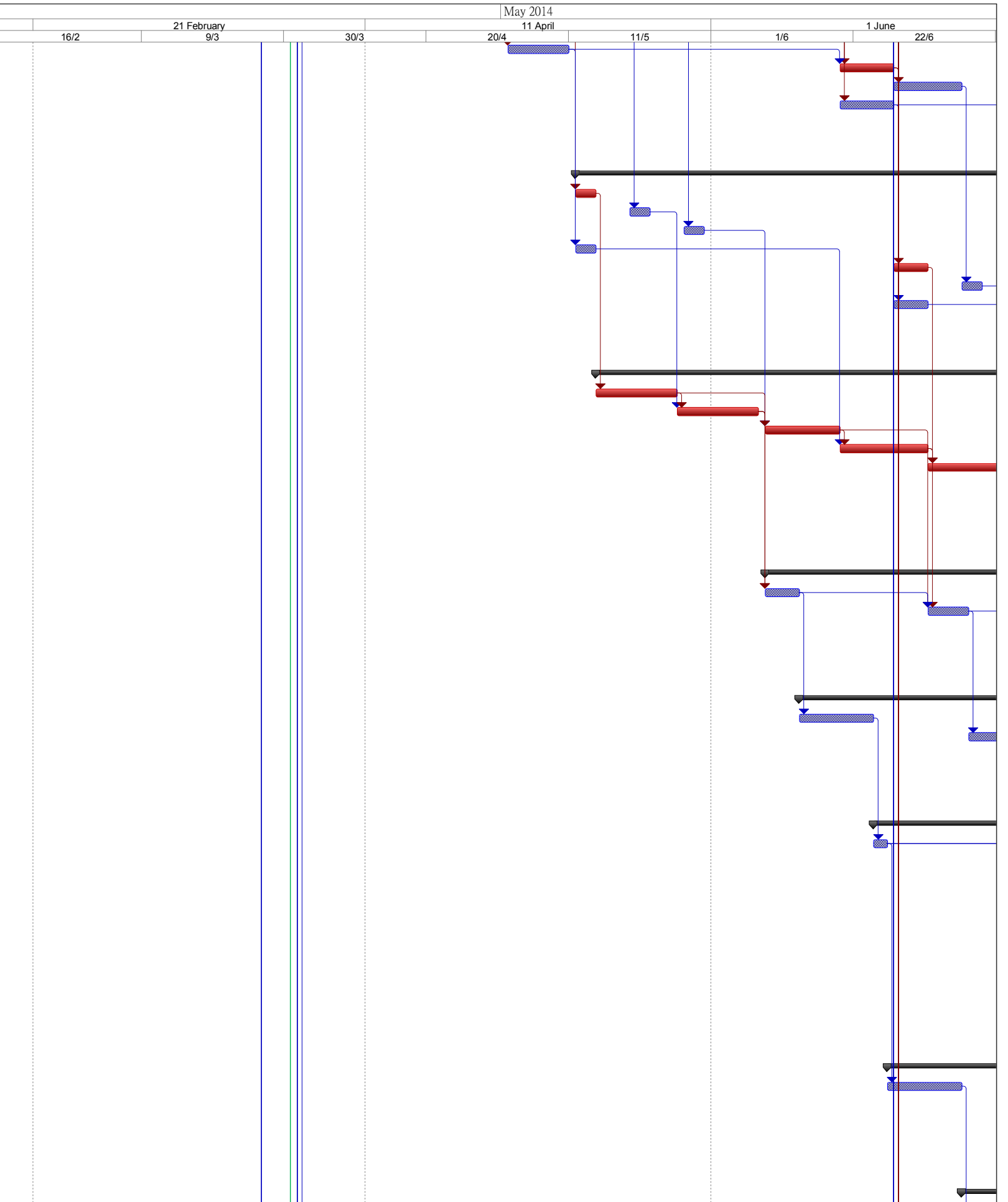
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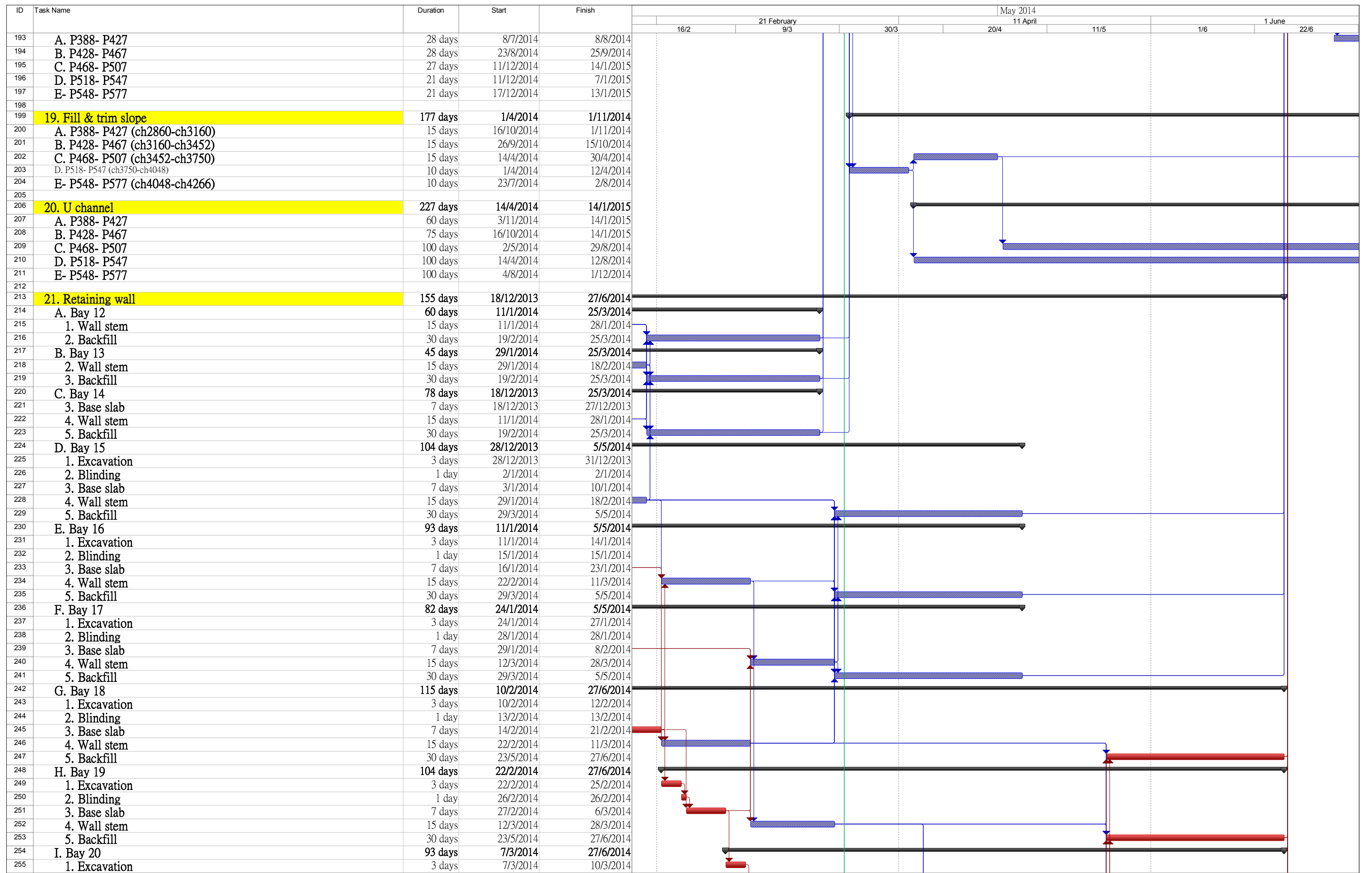
ID	Task Name	Duration	Start	Finish	May 2014																	
					16/2	21 February 9/3	30/3	20/4	11 April	11/5	1/6	1 June	22/6									
66																						
67	M. Concrete pavement	9 days	28/2/2014	10/3/2014																		
68	1. P280 - P316	3 days	28/2/2014	3/3/2014																		
69	2. P317 -P352	3 days	5/3/2014	7/3/2014																		
70	3. P353 - P387	3 days	7/3/2014	10/3/2014																		
71																						
72	N. Trim side slope	6 days	4/3/2014	10/3/2014																		
73	1. P280 - P299	3 days	4/3/2014	6/3/2014																		
74	2. P300 - P319	3 days	7/3/2014	10/3/2014																		
75	3. P320 - P339	3 days	5/3/2014	7/3/2014																		
76	4. P340 - P359	3 days	5/3/2014	7/3/2014																		
77	5. P360 - P369	2 days	8/3/2014	10/3/2014																		
78																						
79	O. Erect secondary fence	63 days	16/12/2013	5/3/2014																		
80	1. S255 - S258	5 days	16/12/2013	20/12/2013																		
81	2. S238 - S254	12 days	20/2/2014	5/3/2014																		
82																						
83	P. Temporary diversion 3 (PortionA & Portion B connection)	63 days	20/12/2013	10/3/2014																		
84	a. Relocate temp security fence connect from ex fence to completed fence	7 days	20/12/2013	30/12/2013																		
85	b. form temp access to divert traffic from Portion B to ex.patrol road	2 days	8/3/2014	10/3/2014																		
86																						
87	Q. Road marking	1 day	11/3/2014	11/3/2014																		
88																						
89	R. Signal cutover by EMSD	6 days	20/1/2014	25/1/2014																		
90	a. First Fibre cutover	2 days	20/1/2014	21/1/2014																		
91	b. Second Fibre cutover	4 days	22/1/2014	25/1/2014																		

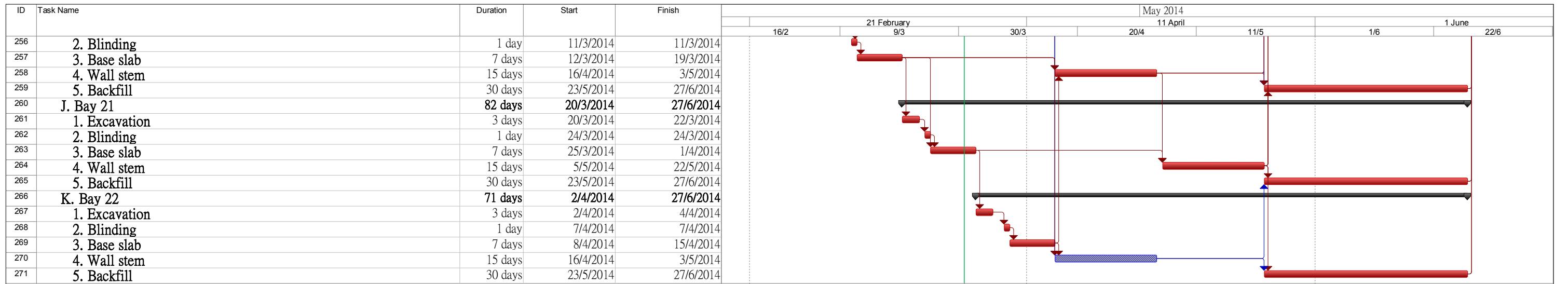




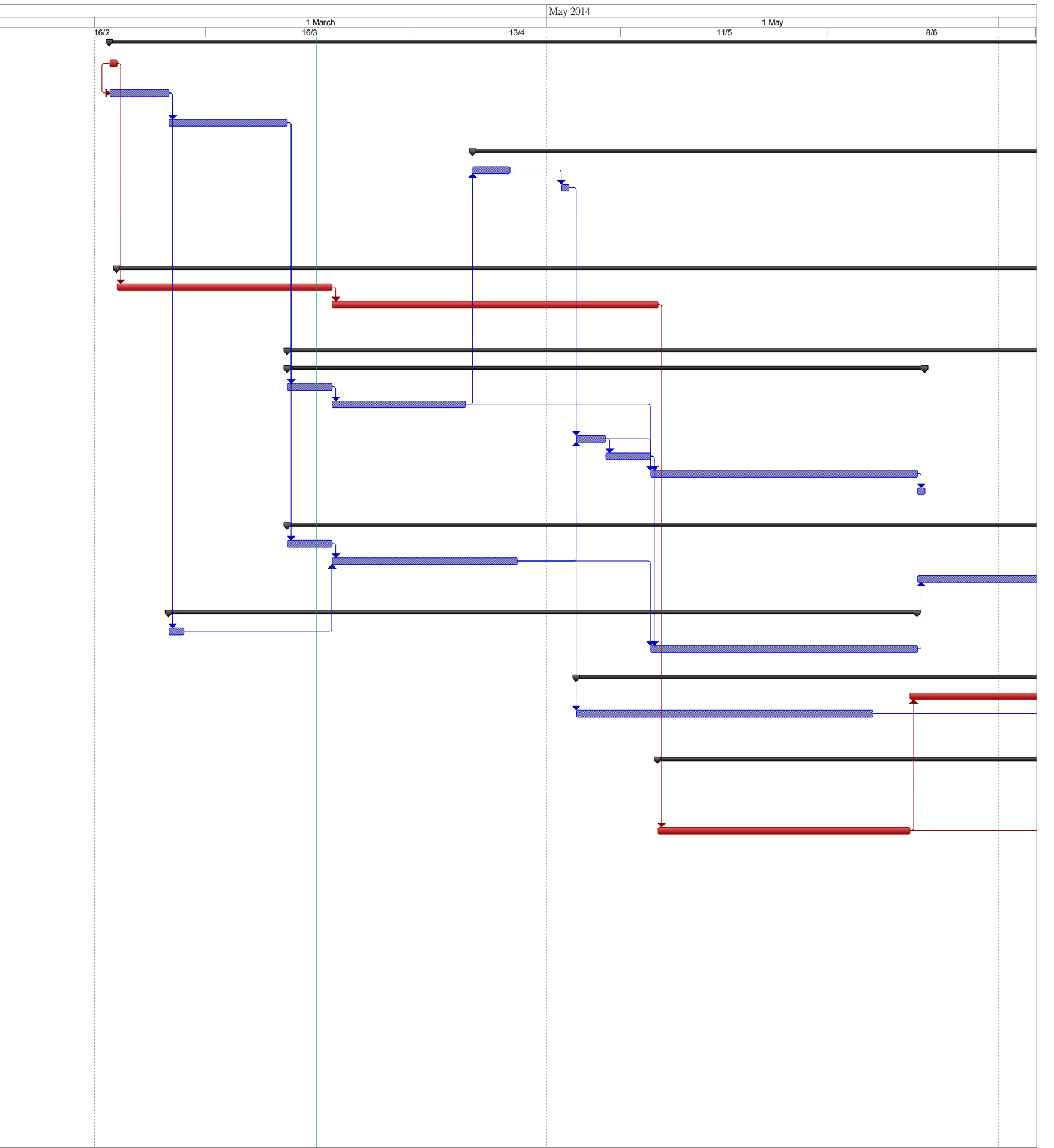
ID	Task Name	Duration	Start	Finish
128	D. P448- P467	7 days	2/5/2014	10/5/2014
129	E. P468- P487	7 days	20/6/2014	27/6/2014
130	F. P488- P507	7 days	28/6/2014	7/7/2014
131	G. P508- P527	7 days	20/6/2014	27/6/2014
132	H. P528- P547	7 days	21/10/2014	28/10/2014
133	I. P548- P577	5 days	21/10/2014	25/10/2014
134				
135	9. Subbase	144 days	12/5/2014	31/10/2014
136	A. P388- P407	3 days	12/5/2014	14/5/2014
137	B. P408- P427	3 days	20/5/2014	22/5/2014
138	C. P428- P447	3 days	28/5/2014	30/5/2014
139	D. P448- P467	3 days	12/5/2014	14/5/2014
140	E. P468- P487	3 days	28/6/2014	2/7/2014
141	F. P488- P507	3 days	8/7/2014	10/7/2014
142	G. P508- P527	3 days	28/6/2014	2/7/2014
143	H. P528- P547	3 days	29/10/2014	31/10/2014
144	I. P548- P577	4 days	27/10/2014	30/10/2014
145				
146	10. Kerb & bollard footing	161 days	15/5/2014	24/11/2014
147	A. P388- P407	10 days	15/5/2014	26/5/2014
148	B. P408- P427	10 days	27/5/2014	7/6/2014
149	C. P428- P447	10 days	9/6/2014	19/6/2014
150	D. P448- P467	10 days	20/6/2014	2/7/2014
151	E. P468- P487	10 days	3/7/2014	14/7/2014
152	F. P488- P507	10 days	15/7/2014	25/7/2014
153	G. P508- P527	10 days	26/7/2014	6/8/2014
154	H. P528- P547	10 days	1/11/2014	12/11/2014
155	I. P548- P577	10 days	13/11/2014	24/11/2014
156				
157	11. Bitumen paving	145 days	9/6/2014	28/11/2014
158	A. P388- P427	5 days	9/6/2014	13/6/2014
159	B. P428- P467	5 days	3/7/2014	8/7/2014
160	C. P468- P507	5 days	26/7/2014	31/7/2014
161	D. P508- P547	5 days	13/11/2014	18/11/2014
162	E- P548- P577	4 days	25/11/2014	28/11/2014
163				
164	12. Raise drawpit cover	147 days	14/6/2014	6/12/2014
165	A. P388- P427	9 days	14/6/2014	24/6/2014
166	B. P428- P467	9 days	9/7/2014	18/7/2014
167	C. P468- P507	9 days	1/8/2014	11/8/2014
168	D. P508- P547	9 days	19/11/2014	28/11/2014
169	E- P548- P577	7 days	29/11/2014	6/12/2014
170				
171	13. Wearing course	140 days	25/6/2014	9/12/2014
172	A. P388- P427	2 days	25/6/2014	26/6/2014
173	B. P428- P487	2 days	12/8/2014	13/8/2014
174	C. P488- P547	2 days	29/11/2014	1/12/2014
175	D. P548- P577	2 days	8/12/2014	9/12/2014
176				
177	14. Road marking	2 days	10/12/2014	11/12/2014
178				
179	15. Traffic signs	14 days	10/12/2014	27/12/2014
180				
181	16. EMSD	125 days	14/8/2014	13/1/2015
182	A. P388- P483	102 days	14/8/2014	13/12/2014
183	B. P484- P577	100 days	13/9/2014	13/1/2015
184				
185	17. Verge filling, subbase & conc paving	144 days	27/6/2014	16/12/2014
186	A. P388- P427	8 days	27/6/2014	7/7/2014
187	B. P428- P467	8 days	14/8/2014	22/8/2014
188	C. P468- P507	8 days	2/12/2014	10/12/2014
189	D. P508- P547	8 days	2/12/2014	10/12/2014
190	E- P548- P577	6 days	10/12/2014	16/12/2014
191				
192	18. Erect Secondary Fence	158 days	8/7/2014	14/1/2015

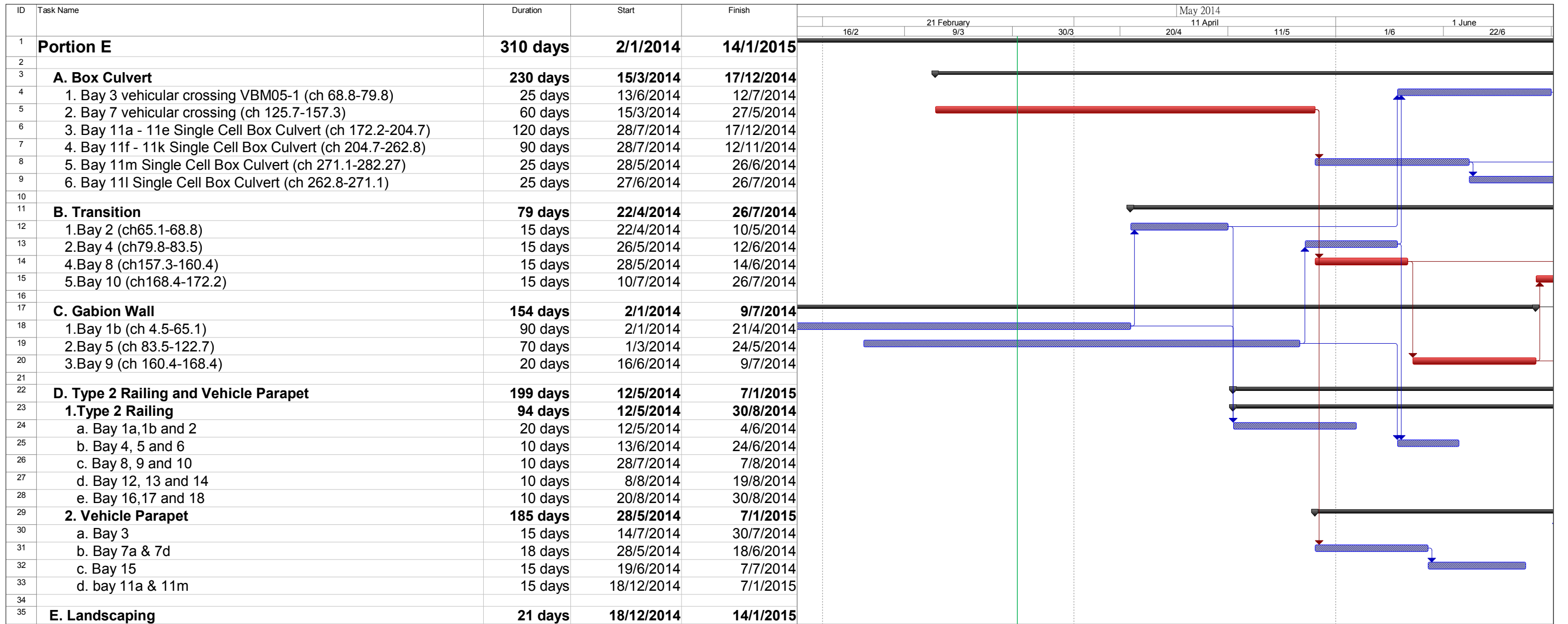






ID	Task Name	Duration	Start	Finish
1	Portion D	302 days	3/3/2014	5/3/2015
2	1. Possession of Site	1 day	3/3/2014	3/3/2014
3				
4	2. Setting out	7 days	3/3/2014	10/3/2014
5				
6	3. Site clearance	14 days	11/3/2014	26/3/2014
7				
8	4. Road diversion	142 days	21/4/2014	10/10/2014
9	A. Construction	5 days	21/4/2014	25/4/2014
10	B. Diversion	1 day	3/5/2014	3/5/2014
11	C. Reinstate existing road	2 days	24/9/2014	25/9/2014
12	D Removal of temporary road diversion	1 day	26/9/2014	26/9/2014
13	E. Reinstatement of private land	10 days	27/9/2014	10/10/2014
14				
15	5. Existing monumental archway	204 days	4/3/2014	5/11/2014
16	A. Survey	25 days	4/3/2014	1/4/2014
17	B. Removal	35 days	2/4/2014	15/5/2014
18	C. Reinstatement	60 days	25/8/2014	5/11/2014
19				
20	6. Utilities	281 days	27/3/2014	5/3/2015
21	A. Public lighting	70 days	27/3/2014	20/6/2014
22	1) Locate existing cable alignment at outlet	5 days	27/3/2014	1/4/2014
23	2) Lay duct and draw pit between inlet and existing road at downstream	15 days	2/4/2014	19/4/2014
24	3) Lay duct under existing road	3 days	5/5/2014	8/5/2014
25	4) Extend existing cable duct at outlet	5 days	9/5/2014	14/5/2014
26	5) Cable laying and erect new pole by others	30 days	15/5/2014	19/6/2014
27	6) Take down existing lighting pole by others	1 day	20/6/2014	20/6/2014
28	B. Construct new telephone pit at inlet	3 days	3/3/2015	5/3/2015
29	C. WSD	111 days	27/3/2014	8/8/2014
30	1) Trial pit to locate existing U/G water pipeline	5 days	27/3/2014	1/4/2014
31	2) Confirm alignment of new pipe by WSD	21 days	2/4/2014	26/4/2014
32	3) Lay new pipe	28 days	20/6/2014	23/7/2014
33	4) Connect by WSD	14 days	24/7/2014	8/8/2014
34	7. Outlet apron	83 days	11/3/2014	19/6/2014
35	A. Confirm alignment of outlet	2 days	11/3/2014	12/3/2014
36	B. Construct outlet	30 days	15/5/2014	19/6/2014
37				
38	8. Box culvert	113 days	5/5/2014	17/9/2014
39	A. Bay 6 (CH 49.18-55.78) with ex. Lighting poje	28 days	19/6/2014	22/7/2014
40	B. Bay 10 (CH 89.89-101.09)	33 days	5/5/2014	13/6/2014
41	C. Bay 11 (101.09-104.04)	33 days	9/8/2014	17/9/2014
42				
43	9. Rectangular channel	224 days	16/5/2014	10/2/2015
44	A. Bay 2 (CH 7-18.2) with ex. Lighting pole	28 days	9/1/2015	10/2/2015
45	B. Bay 3 (CH 18.2-29.4)	28 days	4/12/2014	8/1/2015
46	C. Bay 4 (CH 29.4-40.6)	28 days	1/11/2014	3/12/2014
47	D. Bay 5 (CH 40.6-49.18)	28 days	16/5/2014	18/6/2014
48	E. Bay 7 (CH 55.78-69.98)	28 days	23/7/2014	23/8/2014
49	F. Bay 8 (CH 69.98-81.18)	28 days	25/8/2014	26/9/2014
50	G. Bay 9 (CH 81.18-89.89)	28 days	27/9/2014	31/10/2014
51				
52	10. Intake apron Bay 1 (CH 0-7)	14 days	11/2/2015	2/3/2015
53				
54	11. U-channel	91 days	1/11/2014	18/2/2015
55	A. Bay 2 - Bay 5	7 days	11/2/2015	18/2/2015
56	B. Bay 7 - Bay 9	7 days	1/11/2014	8/11/2014
57				
58	12. Kerb	89 days	1/11/2014	16/2/2015
59	A. Bay 2 - Bay 5	5 days	11/2/2015	16/2/2015
60	B. Bay 7 - Bay 9	5 days	1/11/2014	6/11/2014
61				
62	13. Type 2 railing	91 days	7/11/2014	27/2/2015
63	A. Bay 2 - Bay 5	7 days	17/2/2015	27/2/2015
64	B. Bay 7 - Bay 9	7 days	7/11/2014	14/11/2014
65				
66	14. Landscaping	7 days	23/2/2015	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 supersede EP-277/2007
	EP-277/2007/A	01 Dec 2009			
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

Location Plan for Environmental Monitoring Station

Legend:



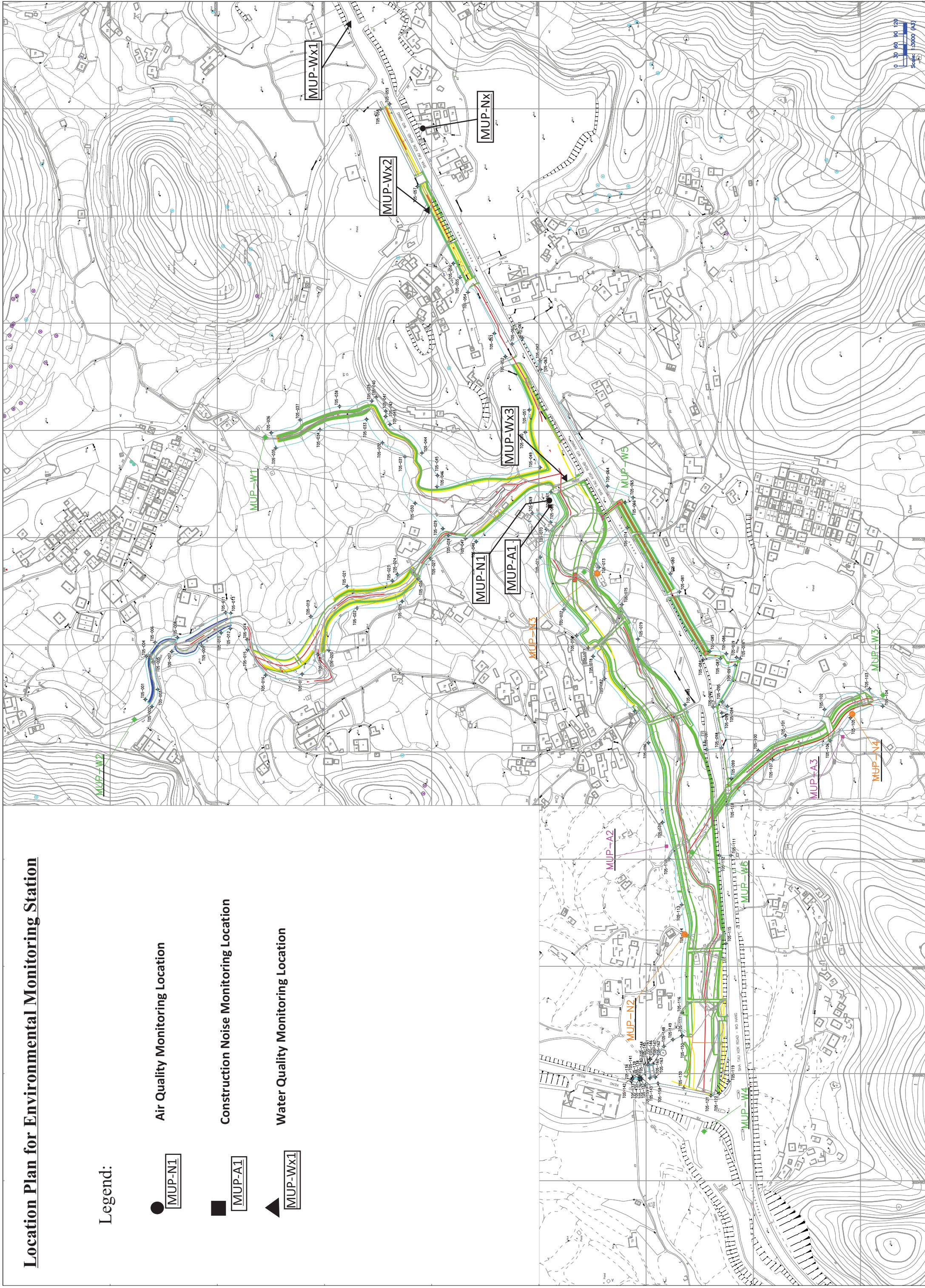
Air Quality Monitoring Location



Construction Noise Monitoring Location



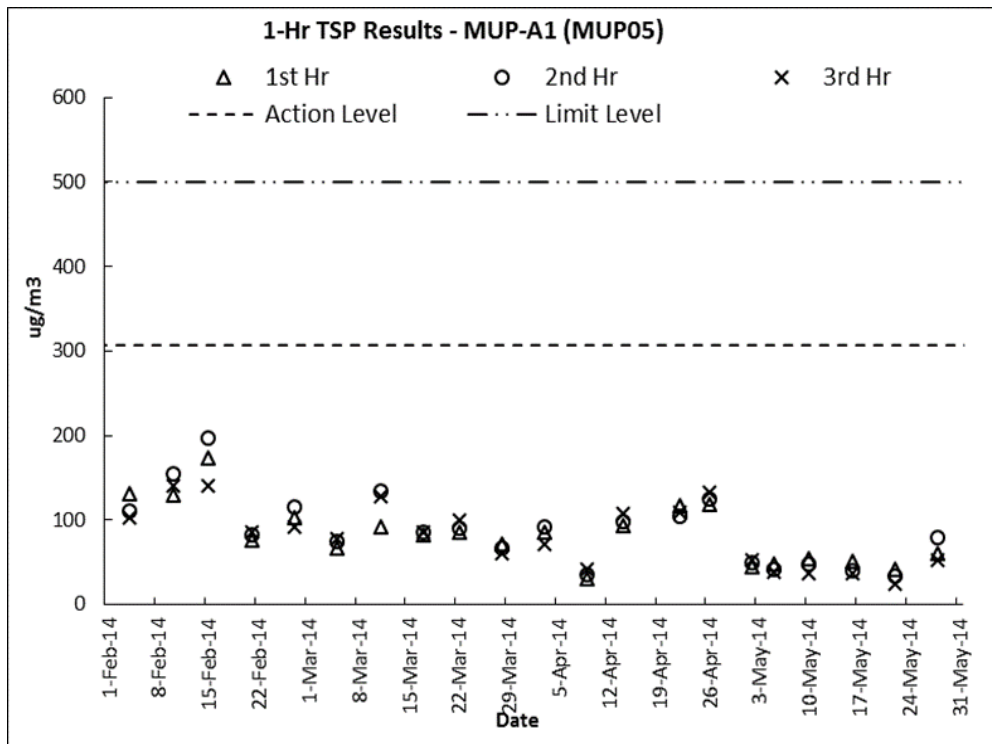
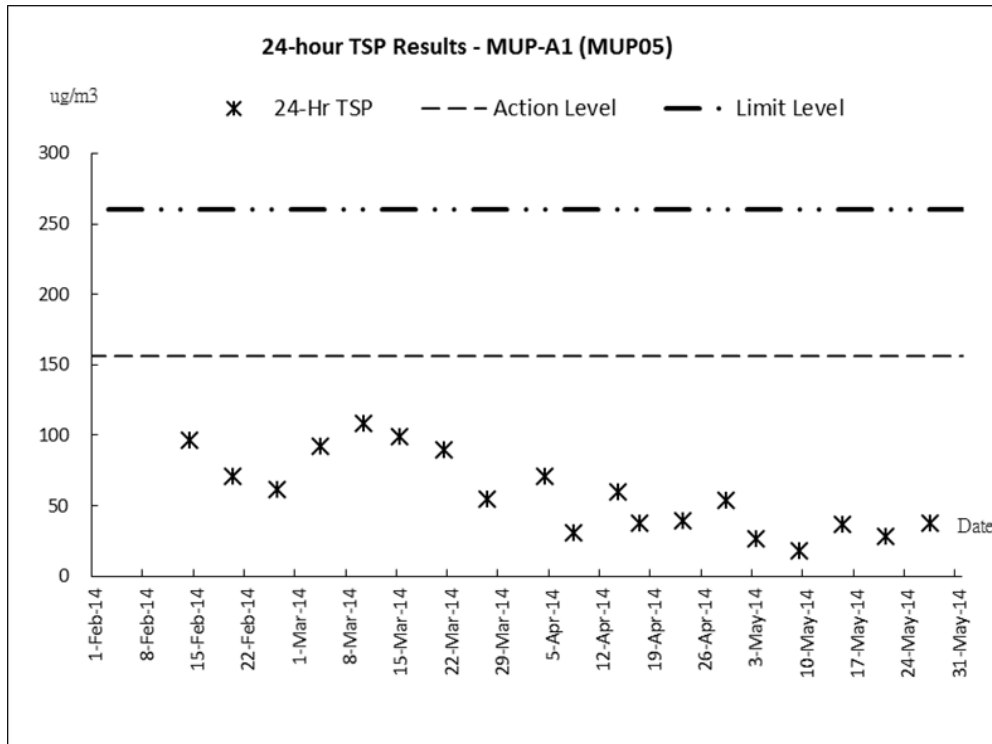
Water Quality Monitoring Location



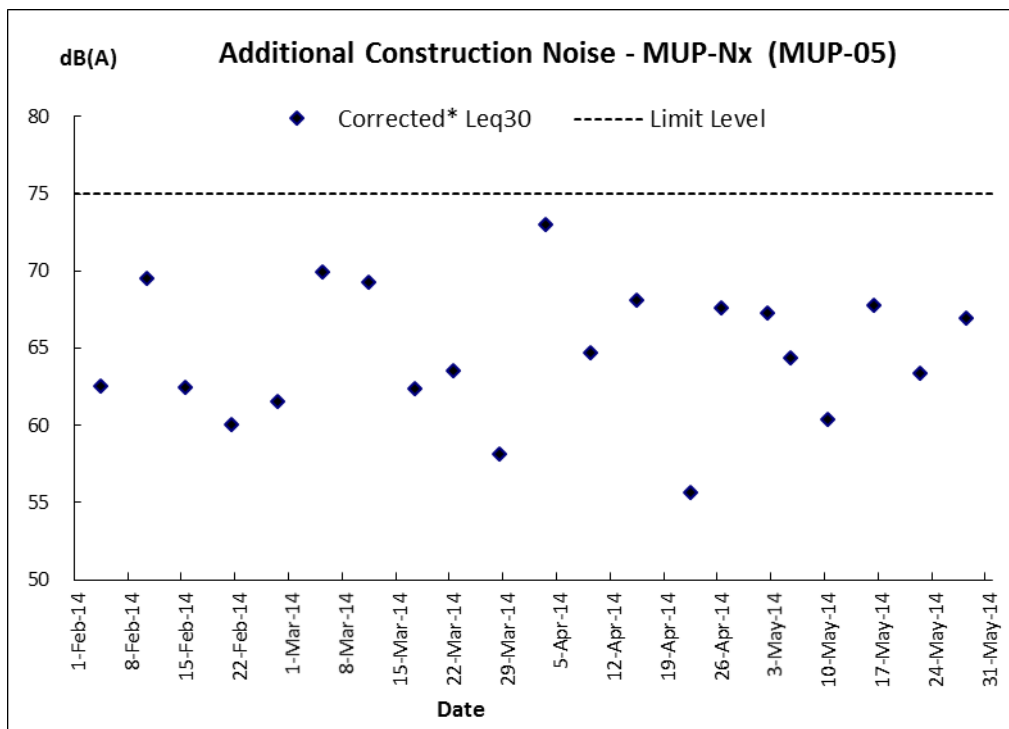
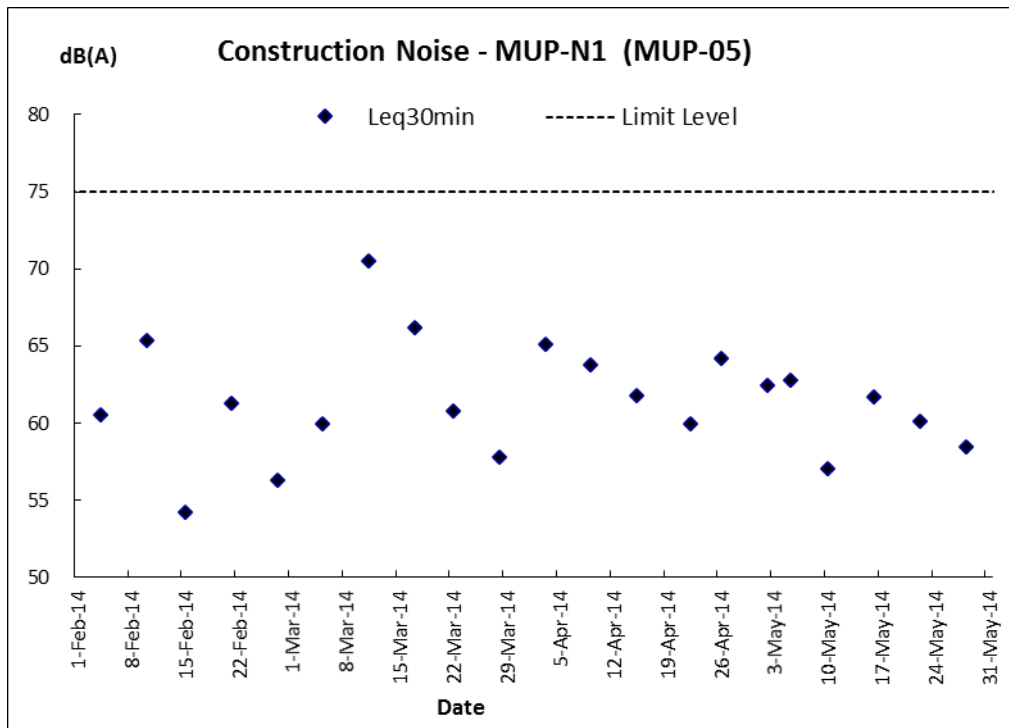
ANNEX F

GRAPHICAL PLOTS OF THE TRENDS OF MONITORED PARAMETERS

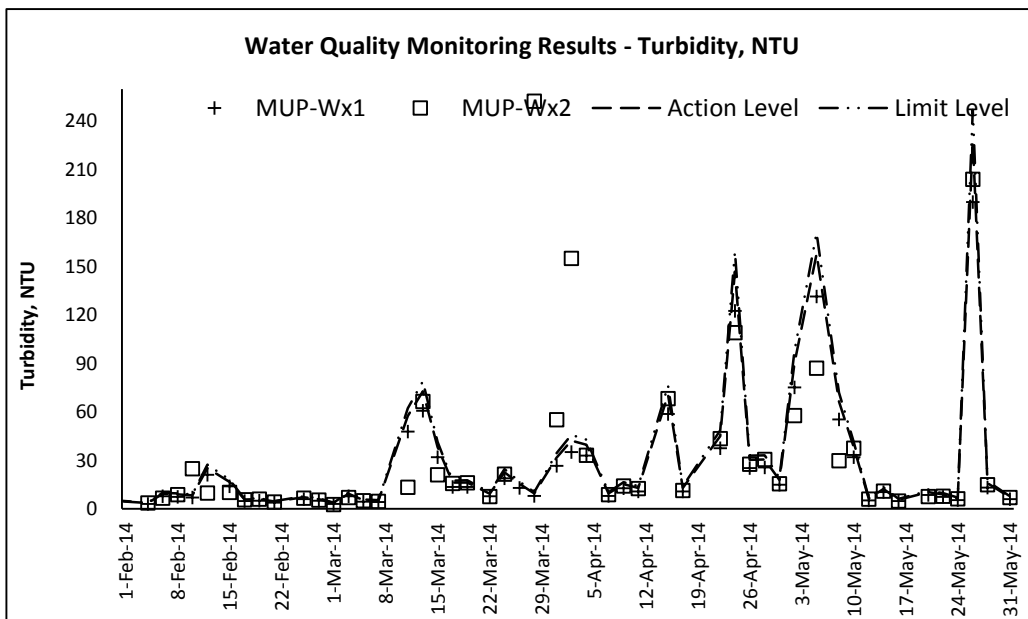
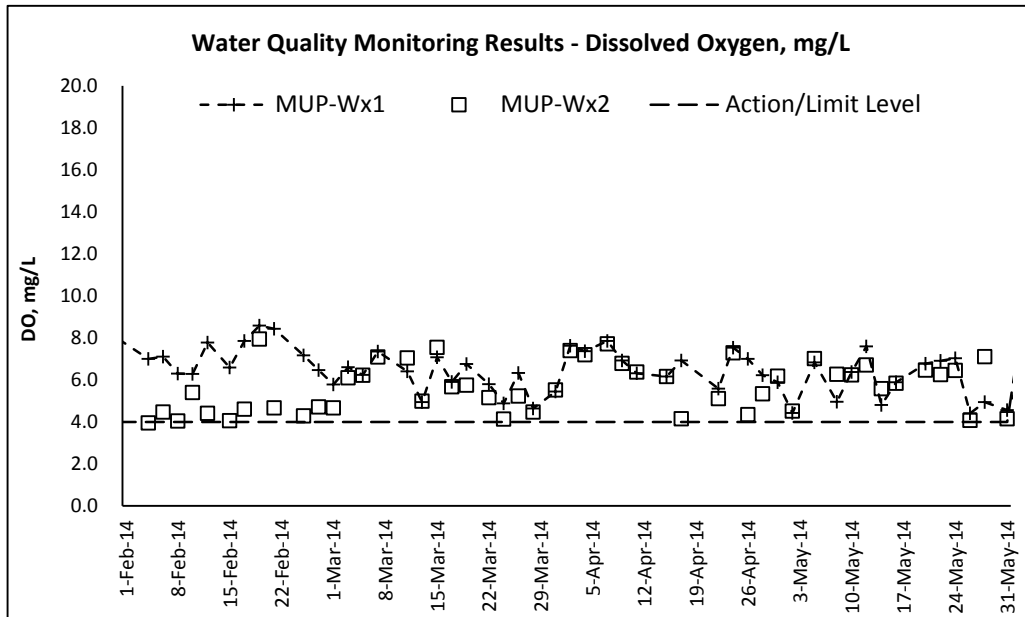
Air Quality



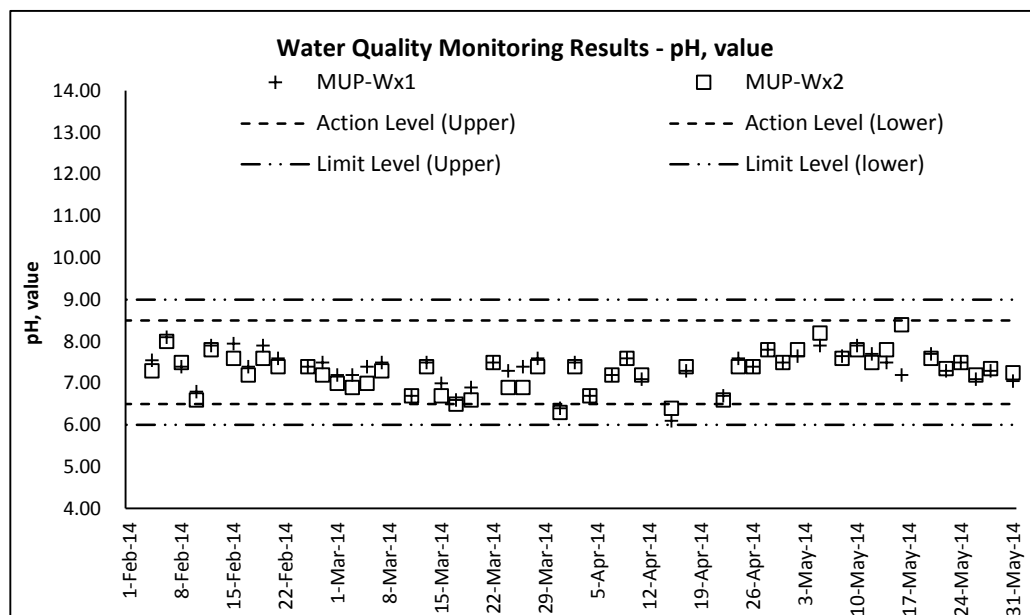
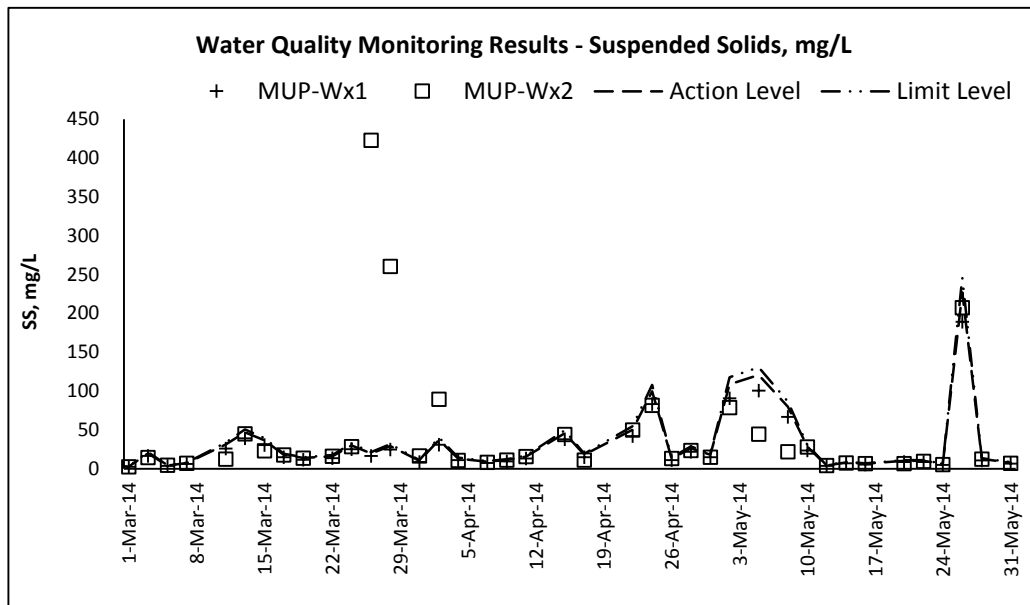
Construction Noise



Water Quality



Water Quality



ANNEX G

MONTHLY SUMMARY OF WASTE FLOW TABLE

Monthly Summary Waste Flow Table

Name of Department: DSD

Contract No.: DC/2011/06

Monthly Summary Waste Flow Table for 2014

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non C&D Wastes Generated Monthly				
	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	0.000	0.000	0.000	14.248	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb-14	0.000	0.000	0.000	12.912	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Mar-14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.04	0.065
Apr-14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
May-14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.175
Jun-14											
Jul-14											
Aug-14											
Sep-14											
Oct-14											
Nov-14											
Dec-14											
Total	0.000	0.000	0.000	27.160	0.000	0.000	0.000	0.000	0.000	0.040	0.275

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.

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Mar-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 (m ³)	Actual Quantities used (m ³)	Remarks
1	Transition formwork & falsework (Portion A,B,E)	Temporary formwork & falsework design	10	9	
2	Transition formwork & falsework (Portion A,B,C)	Temporary formwork & falsework design	25	18	
3	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	52	40	
4	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	77	72	
5	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	102	86	
6	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	115	103	
7	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	121	112	
8	Transition formwork & falsework (Portion A,B,C,E)	Temporary 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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Mar-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 (m ³)	Actual Quantities used (m ³)	Remarks
9	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	154	151	
10	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	156	155	
11	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	157	156	
12	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
13	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
14	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	171	166	
15	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	178	173	
16	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	191	186	

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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Mar-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 (m ³)	Actual Quantities used (m ³)	Remarks
17	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	200	194	
18	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	205	201	
19	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	215	212	
20	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	225	222	

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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Apr-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 (m ³)	Actual Quantities used (m ³)	Remarks
1	Transition formwork & falsework (Portion A,B,E)	Temporary formwork & falsework design	10	9	
2	Transition formwork & falsework (Portion A,B,C)	Temporary formwork & falsework design	25	18	
3	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	52	40	
4	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	77	72	
5	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	102	86	
6	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	115	103	
7	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	121	112	
8	Transition formwork & falsework (Portion A,B,C,E)	Temporary 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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Apr-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 (m ³)	Actual Quantities used (m ³)	Remarks
9	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	154	151	
10	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	156	155	
11	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	157	156	
12	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
13	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
14	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	171	166	
15	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	178	173	
16	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	191	186	

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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: Apr-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 (m ³)	Actual Quantities used (m ³)	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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: May-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 (m ³)	Actual Quantities used (m ³)	Remarks
1	Transition formwork & falsework (Portion A,B,E)	Temporary formwork & falsework design	10	9	
2	Transition formwork & falsework (Portion A,B,C)	Temporary formwork & falsework design	25	18	
3	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	52	40	
4	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	77	72	
5	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	102	86	
6	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	115	103	
7	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	121	112	
8	Transition formwork & falsework (Portion A,B,C,E)	Temporary 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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: May-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 (m ³)	Actual Quantities used (m ³)	Remarks
9	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	154	151	
10	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	156	155	
11	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	157	156	
12	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
13	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	160	157	
14	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	171	166	
15	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	178	173	
16	Transition formwork & falsework (Portion A,B,C,E)	Temporary formwork & falsework design	191	186	

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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

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: May-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 (m ³)	Actual Quantities used (m ³)	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