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Report No.: 0394/13/ED/0322A

Quarterly EM&A Report

February 2016 - April 2016

Client : China International Water & Electric Corporation

Project: Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel – CV/2013/04

Report No.: 0394/13/ED/0322A

Project Proponent:

Civil Engineering & Development Department
101 Princess Margaret Road,
Homantin,
Kowloon, Hong Kong.

Prepared by: Ben Wong

Reviewed by: Cyrus Lai

Certified by: ____________________
Colin Yung
Environmental Team Leader for
MateriaLab Consultants Limited

RAMBOLL ENVIRON

Ref.: CEDDWKTBEM00_0_0254L.16

10 June 2016
By Post and Fax (2419 6218)

Mott MacDonald Hong Kong Ltd.
20/F, AIA Kowloon Tower,
Landmark East,
100 How Ming Street,
Kwun Tong, Kowloon

Attention: Ir Chau T C, Felix, Engineer's Representative

Dear Ir Chau,

Re: Agreement No. CE 63/2008 (CE)
Dredging Works in Kwai Tsing Container Basin and its Approach Channel – Investigation, Design and Construction)

Contract No. CV/2013/04
Dredging Works in Kwai Tsing Container Basin and its Approach Channel
Verification of Quarterly EM&A Report for February to April 2016

Reference is made to the Environmental Team's submission of the Quarterly Environmental Monitoring & Audit Report for February to April 2016 (ET's Report. No. 0394/13/ED/0322A) received by e-mail on 10 June 2016.

We write to verify the captioned report in accordance with Section 12.4 iii of EM&A Manual (AEIAR-156/2010).

Thank you very much for your kind attention and please do not hesitate to contact our Mr Andy Wong or the undersigned should you have any queries.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited

Y H Hui
Independent Environmental Checker

Cc:	MMHK	Mr. C M Howley	2827 1823 (by fax)
	MateriaLab	Mr. Colin Yung	2450 6138 (by fax)
	CIWE	Mr. K.O. Leung and Mr. Lam Wai-hung	2419 6028 (by fax)

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EXECUTIVE SUMMARY

i. This is the Eighth Quarterly Environmental Monitoring Audit (EM&A) Report – February 2016 – April 2016 for Contract No. CV/2013/04 – Dredging Works in Kwai Tsing and its Approach Channel (CE63/2008 – Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel). The dredging works commenced on 23 April 2014. This report presents the environmental monitoring and audit works conducted from 23 Januay 2016 to 22 April 2016.

ii. Construction Activities for the Reporting Period
During this reporting period, the principal work activities included:

February 2016	March 2016	April 2016
• Dredging at Portion A / Zone 1B, Zone 2A1, 2B1, 2B2, Zone 2C2, Zone 3A, 3B and Zone 4B in EP • Dredging at Portion B / Zone 6A, 6B and Zone 8 in EP • Dredging at Portion C / Zone 9, Zone 10, Zone 11 and Zone 12 in EP	• Dredging at Portion A / Zone 1A, 1B, Zone 2A1, 2A2, Zone 2B2, Zone 2C1, 2C2, Zone 3A, Zone 4A and 4B in EP • Dredging at Portion B / Zone 5A, 5B, Zone 6A, 6C, 6D, Zone 7 and Zone 8 in EP • Dredging at Portion C / Zone 9 and Zone 10 in EP	• Dredging at Portion A / Zone 1A, 1B, Zone 2B1, Zone 2C1, Zone 3A, 3B and Zone 4A in EP • Dredging at Portion B / Zone 5B, Zone 6C, 6D and Zone 8 in EP • Dredging at Portion C / Zone 10 in EP

Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known highspot and hard materials

iii. Water Quality Monitoring
Routine impact water quality monitoring at 22 designated monitoring stations namely C1, C2, C3, G1, G2, G3, G4, G5, G6, SR1, SR2, SR3, SR4, SR5, SR6, SR7, SR8, SR9, SR10, SR11, SR12 and SR13 were conducted during the reporting period. Exceedances of NH3-N (in-situ & lab), TIN (in-situ & lab) and Suspended Solids were recorded at various monitoring stations, detail of exceedance are summarized in **Table I and II**. However, investigation indicated these exceedances were not related to the Project works.

Table I Summary of Water Quality Exceedances – Routine Impact Monitoring (In-situ)

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR1	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR2	Action	0	0	0	0	0	0	4	5	0	0	-	-	4	5
	Limit	0	0	0	0	0	0	3	2	0	0	-	-	3	2
SR3	Action	0	0	0	0	0	0	3	2	0	0	-	-	3	2
	Limit	0	0	0	0	0	0	3	5	0	0	-	-	3	5
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	3	2	3	2
	Limit	0	0	0	0	0	0	-	-	-	-	14	16	14	16
SR6	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR7	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0

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Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR8	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR9	Action	0	0	0	0	0	0	-	-	-	-	7	7	7	7
	Limit	0	0	0	0	0	0	-	-	-	-	16	15	16	15
SR10	Action	0	0	0	0	0	0	-	-	-	-	8	5	8	5
	Limit	0	0	0	0	0	0	-	-	-	-	5	5	5	5
SR11	Action	0	0	0	0	0	0	-	-	-	-	5	5	5	5
	Limit	0	0	0	0	0	0	-	-	-	-	5	5	5	5
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	7	7	0	0	23	20	57	
	Limit	0	0	0	0	0	0	6	7	0	0	40	41	94	

Table II Summary of Water Quality Exceedances – Routine Impact Monitoring (Laboratory Analysis)

Station	Exceedance Level	Suspended Solids		BOD_5		*E. coli*		NH_3-N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR1	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	1	0	0	0	0	0	0	0	0	0	0	-	-	1	1
SR2	Action	0	0	-	-	-	-	4	5	0	0	-	-	-	-	4	5
	Limit	0	0	-	-	-	-	3	2	0	0	-	-	-	-	3	2
SR3	Action	0	0	-	-	-	-	3	2	0	0	-	-	-	-	3	2
	Limit	0	0	-	-	-	-	3	5	0	0	-	-	-	-	3	5
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	3	0	0	0	0	0	0	0	0	0	0	-	-	0	3
SR5	Action	0	0	-	-	-	-	-	-	-	-	-	-	3	2	3	2
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	14	16	14	16
SR6	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR7	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR8	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR9	Action	1	0	-	-	-	-	-	-	-	-	-	-	7	7	8	7
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	16	15	16	15
SR10	Action	0	0	-	-	-	-	-	-	-	-	-	-	8	5	8	5
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	5	5	5	5
SR11	Action	0	0	-	-	-	-	-	-	-	-	-	-	5	6	5	6
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	5	5	5	5
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	2	0	0	0	0	0	0	0	0	0	0	-	-	1	2
SR13	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
Total	Action	1	0	0	0	0	0	7	7	0	0	0	0	23	20	58	
	Limit	2	6	0	0	0	0	6	7	0	0	0	0	40	41	102	

Among the 22 monitoring stations, supplementary 24-hr water quality monitoring was also conducted at 7 of the stations, which are SR4, SR5, SR9, SR10, SR11, SR12 and SR13. No exceedance was recorded in the reporting month. Number of exceedances recorded in the reporting month at each impact station is summarized in **Table III**.

Table III Summary of the Exceedances Recorded in Reporting Quarter – 24-hr Monitoring

Station	Exceedance Level	Turbidity	DO	NH_3-N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR9	Action	0	0	-	0
	Limit	0	0	-	0
SR10	Action	0	0	-	0
	Limit	0	0	-	0
SR11	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

iii. Waste Management

iv. There was marine sediment, Type 1 (Open Sea Disposal) disposed to East Sha Chau CMP or South Cheung Chau Spoil Disposal Area or South of Brothers CMP1 or CMP2 and Type 2 sediment (Confined Marine Disposal) disposed to East Sha Chau CMP or South of Brothers CMP1 or CMP2. No inert or non-inert C&D material related to dredging works and a small amount of general refuse were disposed off site in the reporting period.

v. Non-Compliance, Complaints, Notifications of Summons and Successful Prosecutions
No complaint, notification of prosecutions or summons was received in the reporting period.

vi. Site Inspections and Audit
The Environmental Team conducted 13 site inspections in the reporting period. During the site inspections, wooden chips, sediment residues and sand residues were observed at the deck of the dredger 161. Contractor was reminded to keep the site area clean, including the drainage area in Portion F. Also, Contractor was reminded to store chemical containers properly.

According to Contractor, no archaeological deposit was found during reporting period.

vii. Compliance with Specific EP conditions
Implementation of contractor's mitigation for dredging work and the associated dredging records were checked. It was concluded that the dredging is conducted orderly in compliance with the EP requirements on site mitigation measures in general.

viii. Construction Activities for the Coming Reporting Period
During the coming reporting period, the principal work activities include:

- Dredging at Portion A / Zone 1A, 1B, Zone 2B1, Zone 2C1, Zone 3A, 3B and Zone 4A in EP
- Dredging at Portion B / Zone 5B, Zone 6C, 6D and Zone 8 in EP
- Dredging at Portion C / Zone 10 in EP

Future Key Issues include:

- Regular inspection on silt curtain deployment
- Regular inspection on silt screen deployment
- Implementation of EM&A Programme
- Maintain dredging below allowable dredging rate in EP.
- Cleaning of excess material from the decks and exposed fittings of barges and dredgers before the vessel is moved.
- Barge loading shall be monitored to ensure material is not lost during transportation.
- Conditions in dumping permit shall be followed strictly.

1. INTRODUCTION

1.1 Background

1.1.1 The Project objective is to dredge approximately 4.0 million cubic metres of sediment from the seabed of Kwai Tsing Container Basin, as well as portions of Northern Fairway and Western Fairway, to provide sufficient depth of container basin and approach channel to Kwai Tsing Container Terminal (KTCT) for the safe navigation of Ultra Large Container Ships (ULCS).

1.1.2 The environmental monitoring and audit works of this Project is governed by Environmental Permit (EP) No. EP-426/2011/A, EM&A Manual (AEIAR-156/2010) and EM&A TIN (EPD Letter Ref: (34) in Ax(1) to EP2/N3/C/57Pt.7)).

1.1.3 The project proponent was the Civil Engineering & Development Department, HKSAR (CEDD). The Project General Layout is shown in **Figure 1**.

1.1.4 Mott MacDonald Hong Kong Ltd. (MMHK) was commissioned by CEDD as the Engineer for the Project. Ramboll Environ Hong Kong Limited (REHK) was employed as the Independent Environmental Checker (IEC) in the Project.

1.1.5 China International Water & Electric Corporation Limited (CIWE) was appointed as the main contractor for the dredging works.

1.1.6 MateriaLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Project.

1.1.7 The construction phase of the Project under the EP was commenced on 23 April 2014.The impact EM&A programme of the Project commenced on 23 April 2014.

1.2 Purpose of the Report

1.2.1 This Eighth Quarterly EM&A Report is prepared by MCL. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in 23 January 2015 to 22 April 2016.

1.3 Structure of the Report

1.3.1 The structure of this report is as follows:

Section 1: Introduction, including background, purpose and structure of the report

Section 2: Basic Project Information – summaries background and scope of the Contract, site description, project organization and contract details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3: Routine Impact Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: 24-hr Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: Environmental Site Inspection – summaries the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Non-Compliance, Complaints, notifications of summons and Prosecution – summaries any environmental complaints, environmental summons and successful prosecutions within the reporting period.

Section 8: Conclusions and Recommendation

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2. BASIC PROJECT INFORMATION

2.1 Project Organizations

2.1.1 The Project Organization structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 2.1**.

Table 2-1 Key Personnel Contact of the Contract

Party	Position	Name	Telephone	Fax
Engineer's Representative (MMHK)	Senior Resident Engineer	Ir. Felix Chau	2419 6008	2419 6218
Independent Environmental Checker (REHK)	Independent Environmental Checker	Mr. YH Hui	3465 2888	3465 2899
Contractor (CIWE)	Site Agent	Mr. KO Leung	2419 6008	2419 6218
	Environmental Officer	Mr. WH Lam	2419 6008	2419 6218
Environmental Team (MCL)	Environmental Team Leader	Mr. Colin Yung	3565 4114	3565 4160

2.2 Construction Programme and Synopsis of Work

2.2.1 The construction phase of the Project under the EP commenced on 23 April 2014.

2.2.2 The construction programme of the Project is shown in **Appendix B**.

2.2.3 The environmental mitigation measures implementation schedule is presented in **Appendix F**.

2.3 Works undertaken during the quarter

During the reporting period, according to the Contractor, the principal work activities include:

February 2016	March 2016	April 2016
• Dredging at Portion A / Zone 1B, Zone 2A1, 2B1, 2B2, Zone 2C2, Zone 3A, 3B and Zone 4B in EP • Dredging at Portion B / Zone 6A, 6B and Zone 8 in EP • Dredging at Portion C / Zone 9, Zone 10, Zone 11 and Zone 12 in EP	• Dredging at Portion A / Zone 1A, 1B, Zone 2A1, 2A2, Zone 2B2, Zone 2C1, 2C2, Zone 3A, Zone 4A and 4B in EP • Dredging at Portion B / Zone 5A, 5B, Zone 6A, 6C, 6D, Zone 7 and Zone 8 in EP • Dredging at Portion C / Zone 9 and Zone 10 in EP	• Dredging at Portion A / Zone 1A, 1B, Zone 2B1, Zone 2C1, Zone 3A, 3B and Zone 4A in EP • Dredging at Portion B / Zone 5B, Zone 6C, 6D and Zone 8 in EP • Dredging at Portion C / Zone 10 in EP

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Daily dredging quantity in the reporting period is provided in **Table 2.2**.

Table 2-2 Detail Dredging Quantity

Date	Dredged Quantity (in-situ, m^3)				
	Portion A			Portion B	Portion C
	Zone (Maximum Allowable Daily Dredged Rate)			Max Allowable Daily Dredged Rate=4000	
1/23/2016	2B2: 846 (950)	0	0	0	1500
1/24/2016	2B2: 423 (950)	2C2: 846 (1100)	0	423	1000
1/25/2016	0	0	0	0	1000
1/26/2016	2B2: 846 (950)	2C2: 423 (1100)	0	0	1500
1/27/2016	2C2: 846 (1100)	0	0	400	2000
1/28/2016	2C2: 412 (1100)	4B: 1235 (1600)	0	0	1500
1/29/2016	2B2: 400 (950)	2C2: 423 (1100)	0	0	1500
1/30/2016	3B: 1269 (1600)	0	0	0	500
1/31/2016	2B2: 815 (950)	4B: 408 (1600)	0	0	500
2/1/2016	2C2: 962 (1100)	0	0	962	2000
2/2/2016	1B: 1100 (1100)	0	0	538	1500
2/3/2016	1B: 846 (1100)	3B: 423 (1600)	0	0	2000
2/4/2016	0	0	0	0	2000
2/5/2016	0	0	0	0	2000
2/6/2016	0	0	0	0	0
2/7/2016	0	0	0	0	0
2/8/2016	0	0	0	0	0
2/9/2016	0	0	0	0	0
2/10/2016	0	0	0	0	0
2/11/2016	0	0	0	0	2000
2/12/2016	3A: 423 (1600)	0	0	423	500
2/13/2016	2C2: 500 (1100)	0	0	1000	0
2/14/2016	1B: 846 (1100)	4B: 423 (1600)	0	423	0
2/15/2016	0	0	0	0	3231
2/16/2016	0	0	0	1077	1346
2/17/2016	1B: 423 (1100)	2C2: 846 (1100)	0	0	1615
2/18/2016	2B2: 950 (950)	0	0	973	0
2/19/2016	2A1: 750 (750)	0	0	1065	538
2/20/2016	3B: 938 (1600)	0	0	938	538
2/21/2016	2B1: 400 (400)	2C2: 408 (1100)	3B: 815 (1600)	0	1077
2/22/2016	3B: 400 (1600)	0	0	0	0

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Date	Dredged Quantity (in-situ, m^3)				
	Portion A			Portion B	Portion C
	Zone (Maximum Allowable Daily Dredged Rate)			Max Allowable Daily Dredged Rate=4000	
2/23/2016	2C2: 1085 (1100)	0	0	0	0
2/24/2016	0	0	0	0	0
2/25/2016	2A2: 646 (650)	0	0	2154	0
2/26/2016	1B: 935 (1100)	0	0	0	1403
2/27/2016	2C2: 423 (1100)	0	0	2154	0
2/28/2016	4A: 846 (1600)	0	0	0	1077
2/29/2016	1B: 481 (1100)	0	0	0	481
3/1/2016	1A: 900 (900)	0	0	0	485
3/2/2016	1A: 481 (900)	2A1: 738 (750)	0	0	481
3/3/2016	4A: 1008 (1600)	0	0	1008	0
3/4/2016	1A: 481 (900)	3A: 538 (1600)	0	0	481
3/5/2016	1A: 500 (900)	0	0	500	500
3/6/2016	2A2: 323 (650)	4A: 481 (1600)	0	0	481
3/7/2016	1A: 423 (900)	2C1: 423 (850)	0	0	0
3/8/2016	1B: 481 (1100)	3A: 423 (1600)	0	481	0
3/9/2016	2A1: 423 (750)	0	0	0	0
3/10/2016	2C1: 423 (850)	4A: 423 (1600)	0	0	0
3/11/2016	1B: 846 (1100)	0	0	0	0
3/12/2016	3A: 892 (1600)	0	0	985	0
3/13/2016	0	0	0	1762	0
3/14/2016	3A: 449 (1600)	4B: 897 (1600)	0	0	0
3/15/2016	1A: 846 (900)	3A: 423 (1600)	0	0	0
3/16/2016	1A: 480 (900)	1B: 480 (1100)	2C1: 850 (850)	960	0
3/17/2016	1B: 500 (1100)	0	0	2077	0
3/18/2016	0	0	0	1615	0
3/19/2016	0	0	0	0	538
3/20/2016	2B2: 481 (950)	4A: 481 (1600)	0	0	1077
3/21/2016	1B: 385 (1100)	0	0	0	0
3/22/2016	1A: 423 (900)	0	0	0	0

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Date	Dredged Quantity (in-situ, m^3)				
	Portion A			Portion B	Portion C
	Zone (Maximum Allowable Daily Dredged Rate)			Max Allowable Daily Dredged Rate=4000	
3/23/2016	1A: 900 (900)	0	0	0	1515
3/24/2016	1B: 846 (1100)	0	0	0	0
3/25/2016	0	0	0	0	0
3/26/2016	0	0	0	0	0
3/27/2016	0	0	0	0	0
3/28/2016	0	0	0	438	0
3/29/2016	0	0	0	0	0
3/30/2016	0	0	0	0	0
3/31/2016	0	0	0	2154	0
4/1/2016	0	0	0	0	0
4/2/2016	0	0	0	0	0
4/3/2016	0	0	0	0	0
4/4/2016	0	0	0	0	0
4/5/2016	1A: 715 (900)	0	0	715	0
4/6/2016	2C1: 1077 (1550)	0	0	0	0
4/7/2016	1A: 538 (900)	1B: 538 (2050)	0	0	0
4/8/2016	1A: 892 (900)	1B: 538 (2050)	0	0	0
4/9/2016	1A: 900 (900)	0	0	531	0
4/10/2016	2C1: 1550 (1550)	0	0	527	0
4/11/2016	1A: 508 (900)	2C1: 508 (1550)	0	508	0
4/12/2016	1A: 892 (900)	0	0	0	0
4/13/2016	3A: 446 (3440)	0	0	0	0
4/14/2016	0	0	0	0	0
4/15/2016	0	0	0	0	2154
4/16/2016	2B1: 423 (800)	0	0	0	0
4/17/2016	0	0	0	0	1615
4/18/2016	1A: 900 (900)	3A: 536 (3440)	0	1072	0
4/19/2016	3B: 1077 (3440)	0	0	2154	0
4/20/2016	0	0	0	2692	0
4/21/2016	1A: 492 (900)	4A: 1031 (3440)	0	538	0
4/22/2016	1A: 446 (900)	0	0	0	2692

3. EM&A REQUIREMENTS – ROUTINE IMPACT MONITORING

3.1 Monitoring Parameters

3.1.1 The monitoring parameters and frequency for both in-situ measurement and laboratory analysis are summarised in **Table 3.1**. Parameters for each monitoring station are specified in **Table 3.2**.

Table 3-1 **Monitoring Parameters and Frequency**

Parameters	Monitoring Frequency
In-situ Measurement Turbidity (in NTU), pH, Dissolved Oxygen (in mg/L and %), Temperature (in °C), Salinity (in ppt), [1]Ammonia-N (in mg/L-N and UIA); [2]TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L) Laboratory Analysis [1]Ammonia-N (in mg/L-N and UIA), Suspended Solids (SS), [2]BOD_5, [2]*E.coli*, [2]Synthetic Detergent; [2]TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L)	3 days per week, at mid-flood and mid-ebb tides (except detergent which shall be taken one day per month, at mid-flood and mid-ebb) 36 hours interval was allowed between subsequent sets of measurement.

Notes:
1. Ammonia measurements and samples were taken at SR1, SR2, SR3, SR4, SR12, C1, C2, C3 only;
   UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH_3-N, temperature, pH and salinity; Laboratory determined unionized ammonia was calculated from analysed NH_3-N from water samples and in-situ measurement of temperature, pH and salinity;
2. Total Inorganic Nitrogen (TIN) measurements and samples were taken at SR5, SR9, SR10, SR11, G1, G2, G3, G4, G5, G6 only;
3. BOD_5, *E.coli* and Synthetic Detergent samples were taken at SR1, SR4, SR12, C1, C2, C3 only.

Table 3-2 **Water Quality Monitoring Parameters**

ID	In-situ Measurement							Laboratory Analysis					
	pH	Temperature	Salinity	Turbidity	Dissolved Oxygen / Dissolved Oxygen%	NH_3-N / UIA	TIN (NH_3-N, NO_2 & NO_3)	Suspended Solids	BOD_5	*E. coli*	NH_3-N / UIA	Synthetic Detergent	TIN (NH_3-N, NO_2 & NO_3)
SR1	O	O	O	O	O	O		O	O	O	O	O	
SR2	O	O	O	O	O	O		O			O		
SR3	O	O	O	O	O	O		O			O		
SR4	O	O	O	O	O	O		O	O	O	O	O	
SR5	O	O	O	O	O		O	O					O
SR6	O	O	O	O	O			O					
SR7	O	O	O	O	O			O					
SR8	O	O	O	O	O			O					
SR9	O	O	O	O	O		O	O					O
SR10	O	O	O	O	O		O	O					O
SR11	O	O	O	O	O		O	O					O
SR12	O	O	O	O	O	O		O	O	O	O	O	
SR13	O	O	O	O	O			O					
G1	O	O	O	O	O		O	O					O
G2	O	O	O	O	O		O	O					O
G3	O	O	O	O	O		O	O					O
G4	O	O	O	O	O		O	O					O
G5	O	O	O	O	O		O	O					O
G6	O	O	O	O	O		O	O					O
C1	O	O	O	O	O	O		O	O	O	O	O	
C2	O	O	O	O	O	O		O	O	O	O	O	
C3	O	O	O	O	O	O		O	O	O	O	O	

Note:

1. UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH_3-N, temperature, pH and salinity; laboratory determined unionized ammonia was calculated from analysed NH_3-N from water samples taken and in-situ measurement of temperature, pH and salinity.

3.2 Monitoring Locations

3.2.1 Impact water quality monitoring was conducted at 22 locations, including 13 sensitive receivers (SR1-13), 6 gradient stations (G1-6) and 3 control stations (C1-3). The locations of the stations are also shown in **Figure 3**.

3.2.2 Revisions on monitoring locations were proposed in previous submission (MateriaLab Report No. Ref: 0394/13/ED/0103 – WATER QUALITY MONITORING LOCATION) and were agreed among AFCD, EMSD, WSD and EPD.

3.3 Results and Observations

3.3.1 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting quarter. Impact water quality monitoring results graphical presentations are provided in **Appendix D**.

3.3.2 During the reporting period, some adverse weather conditions, including Strong Monsoon Signal, Thunderstorm Warning signals and Rainstorm Warnings were reported. Heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity, that the propeller wash from vessels could lead to potential disturbance of seabed sediment and affect the water quality.

3.3.3 Exceedances were recorded for NH3-N (in-situ & lab), TIN (in-situ & lab) and Suspended Solids. Number of exceedances recorded in the reporting quarter at each impact station is summarized in **Table 3-5 and 3-6**.

Table 3-3 Summary of Water Quality Exceedance (In-situ Measurement)

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR1	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR2	Action	0	0	0	0	0	0	4	5	0	0	-	-	4	5
	Limit	0	0	0	0	0	0	3	2	0	0	-	-	3	2
SR3	Action	0	0	0	0	0	0	3	2	0	0	-	-	3	2
	Limit	0	0	0	0	0	0	3	5	0	0	-	-	3	5
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	3	2	3	2
	Limit	0	0	0	0	0	0	-	-	-	-	14	16	14	16
SR6	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR7	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR8	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
SR9	Action	0	0	0	0	0	0	-	-	-	-	7	7	7	7
	Limit	0	0	0	0	0	0	-	-	-	-	16	15	16	15
SR10	Action	0	0	0	0	0	0	-	-	-	-	8	5	8	5
	Limit	0	0	0	0	0	0	-	-	-	-	5	5	5	5
SR11	Action	0	0	0	0	0	0	-	-	-	-	5	6	5	6
	Limit	0	0	0	0	0	0	-	-	-	-	5	5	5	5
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	7	7	0	0	23	20	57	
	Limit	0	0	0	0	0	0	6	7	0	0	40	41	94	

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Table 3-4 Summary of Water Quality Exceedance (Laboratory Analysis)

Station	Exceedance Level	Suspended Solids		BOD_5		*E. coli*		NH_3-N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR1	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	1	0	0	0	0	0	0	0	0	0	0	-	-	1	1
SR2	Action	0	0	-	-	-	-	4	5	0	0	-	-	-	-	4	5
	Limit	0	0	-	-	-	-	3	2	0	0	-	-	-	-	3	2
SR3	Action	0	0	-	-	-	-	3	2	0	0	-	-	-	-	3	2
	Limit	0	0	-	-	-	-	3	5	0	0	-	-	-	-	3	5
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	3	0	0	0	0	0	0	0	0	0	0	-	-	0	3
SR5	Action	0	0	-	-	-	-	-	-	-	-	-	-	3	2	3	2
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	14	16	14	16
SR6	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR7	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR8	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SR9	Action	1	0	-	-	-	-	-	-	-	-	-	-	7	7	8	7
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	16	15	16	15
SR10	Action	0	0	-	-	-	-	-	-	-	-	-	-	8	5	8	5
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	5	5	5	5
SR11	Action	0	0	-	-	-	-	-	-	-	-	-	-	5	6	5	6
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	5	5	5	5
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	2	0	0	0	0	0	0	0	0	0	0	-	-	1	2
SR13	Action	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0
Total	Action	1	0	0	0	0	0	7	7	0	0	0	0	23	20	58	
	Limit	2	6	0	0	0	0	6	7	0	0	0	0	40	41	102	

3.3.4 During the reporting period, 14 AL and 13 LL exceedances for NH3-N (in-situ), 43 AL and 81 LL exceedances for TIN (in-situ), 1 AL and 8 LL exceedances for Total Suspended Solids, 14 AL and 13 LL exceedances for NH3-N (lab) and 43 AL and 81 LL exceedances for TIN (lab) were recorded.

3.3.5 According to the investigations, the exceedances were considered caused by influences in the vicinity of the station or changes in ambient conditions and not related to the Project.

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4. EM&A REQUIREMENTS – 24-HR WATER QUALITY MONITORING

4.1 Monitoring Parameters

4.1.1 Dissolved oxygen, temperature and turbidity are recorded every 5 minutes, 24 hours a day 7 days a week during dredging works.

4.1.2 In-situ NH_3-N at WSD Flushing Water Intake is measured every 20 minutes, 24 hours a day 7 days a week during works.

4.1.3 The water quality parameters measured at particular locations are shown in **Table 4.1**.

Table 4-1 24-hr Water Quality Monitoring Parameters

ID	Description	Parameters				
		Temperature	Turbidity	DO (mg/L)	DO%	NH_3-N
SR4	Tsuen Wan, WSD Flushing Water Intake	O	O	O	O	O
SR5	Ma Wan, Fish Culture Zone	O	O	O	O	
SR9	Cheung Sha Wan, Fish Culture Zone	O	O	O	O	
SR10	Lo Tik Wan, Fish Culture Zone	O	O	O	O	
SR11	Sok Kwu Wan, Fish Culture Zone	O	O	O	O	
SR12	Tsing Yi, WSD Flushing Water Intake	O	O	O	O	O
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	O	O	O	O	

4.2 Monitoring Locations

4.2.1 As shown in Table 4.1, the 24 hours water quality monitoring works are performed at SR4, SR5, SR9, SR10, SR11, SR12 and SR13.

4.2.2 Revisions on monitoring locations were proposed in previous submission (MateriaLab Report No. Ref: 0394/13/ED/0103 – WATER QUALITY MONITORING LOCATION) and were agreed among AFCD, EMSD, WSD and EPD.

4.3 Results and Observations

4.3.1 24-hr water quality monitoring was conducted at all designated monitoring stations in the reporting quarter. Monitoring result graphical presentations are provided in **Appendix E**.

4.3.2 During the reporting period, some adverse weather conditions, including Strong Monsoon Signal, Thunderstorm Warning signals and Rainstorm Warnings were reported. Heavy marine traffic (not associated with the Project) was also commonly observed nearby the Project site and its vicinity, that the propeller wash from vessels could lead to potential disturbance of seabed sediment and affect the water quality. The above conditions may affect monitoring results. Furthermore, the fish culturing or other activities occurring on the fish rack may cause adverse impact on the receiving water.

4.3.3 Number of exceedances recorded in the reporting period at each impact station is summarized in Table 4.2.

Table 4-2 Summary of Water Quality Exceedance (24-hr Monitoring)

Station	Exceedance Level	Turbidity	DO	NH_3-N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR9	Action	0	0	-	0
	Limit	0	0	-	0
SR10	Action	0	0	-	0
	Limit	0	0	-	0
SR11	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

4.3.4 No exceedance was recorded in the reporting quarter.

5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

5.1 Site Inspections

5.1.1 The Environmental Team conducted 13 site inspections in the reporting period.

5.1.2 The Environmental Team conducted 13 site inspections in the reporting period. During the site inspections, wooden chips, sediment residues and sand residues were observed at the deck of the dredger 161. Contractor was reminded to keep the site area clean, including the drainage area in Portion F. Also, Contractor was reminded to store chemical containers properly.

5.1.3 According to Contractor, no archaeological deposit was found during reporting period.

5.2 Implementation Status of Environmental Mitigation Measures

5.2.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix F**. Most of the necessary mitigation measures were implemented properly.

5.2.2 The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimizing environmental impacts. The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage. The Contractor should be reminded to keep the mitigation measures implemented effectively, especially the installation and maintenance of silt screen and silt curtain, and to maintain good condition of hopper barge and grab dredger to ensure their intended effects are fully achieved.

5.3 Summary of Action taken

5.3.1 The exceedances recorded were considered not related to the Project, follow-up actions are not required.

5.4 Advice on the Solid and Liquid Waste Management Status

5.4.1 According to the Contractor, $30m^3$ general refuse were generated and disposed of in the reporting period. Summary of waste flow table is detailed in **Appendix G**.

5.4.2 There was marine sediment, Type 1 (Open Sea Disposal) disposed to East Sha Chau CMP or South Cheung Chau Spoil Disposal Area or South of Brothers CMP1 or CMP2 and Type 2 sediment (Confined Marine Disposal) disposed to East Sha Chau CMP or South of Brothers CMP1 or CMP2. The details can be referred to the **Table 5-1.**

Table 5-1 Waste Quantities of Dredging Works

Month	Marine Sediment Type	Quantity Generated from 23 January 2016 to 22 February 2016 (m^3)	Cumulative-to-22 February 2016 (m^3)	Disposal / Dumping Ground
February 2016	Type 1 – Open Sea Disposal	47980	1548550	East Sha Chau CMP or South Cheung Chau Spoil Disposal Area or South of Brothers CMP1 or CMP2
	Type 2 – Confined Marine Disposal	30300	524620	South of Brothers CMP1 or CMP2
	Type 3 – Special Treatment / Disposal	0	0	NA
March 2016	Type 1 – Open Sea Disposal	34550	1583100	East Sha Chau CMP or South Cheung Chau Spoil Disposal Area or South of Brothers CMP1 or CMP2
	Type 2 – Confined Marine Disposal	20070	544690	South of Brothers CMP1 or CMP2
	Type 3 – Special Treatment / Disposal	0	0	NA
April 2016	Type 1 – Open Sea Disposal	31040	1614140	East Sha Chau CMP or South Cheung Chau Spoil Disposal Area or South of Brothers CMP1 or CMP2
	Type 2 – Confined Marine Disposal	14540	559230	East Sha Chau CMP
	Type 3 – Special Treatment / Disposal	0	0	NA

5.5 Review of Action and Limit Level

5.5.1 Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015. The Action and Limit Level is given in **Appendix C**.

5.6 Quarterly Review of Constructional Impacts on Water Quality

5.6.1 The construction impact on water quality was assessed by comparing the quarterly mean values with the relevant ambient or baseline mean values. Results showed that the quarterly mean values of TIN (in-situ) at cluster 1 stations and cluster 2 stations (at mid flood), Ammonia (in-situ and lab) and TSS at all clusters of monitoring stations were below the 1.3 x baseline value. Cluster stations with higher quarterly impact data are statistically compared to 1.3 x baseline levels or other relevant levels to assess the constructional impacts.

5.6.2 Quarterly mean of cluster 2 station of TIN (in-situ) (at mid ebb) is compared to their 1.3 x baseline data. Result shows the quarterly mean of cluster 2 TIN (in-situ) (at mid ebb) is not significantly different from the 1.3 x baseline level ($p \geq 0.05$), indicating that the project impact is not significant.

5.6.3 Quarterly means of cluster 1 station and cluster 2 stations of TIN (Lab) are compared to their 1.3 x baseline data respectively. Result shows the quarterly mean of cluster 1 TIN (lab) (at mid flood) is not significantly different from the 1.3 x baseline level ($p \geq 0.05$), indicating that the project impact is not significant. Data from flood tide are compared for cluster 1 while data from ebb tide are compared for cluster 2 as according to their relative position to the Project (data analysed for relative tide where clustered monitoring stations situate at downstream position and may be subject to project impact, reference made to Figure 3.). For cluster 2, at ebb tide, results show the quarterly mean of cluster 2 TIN (Lab) (at ebb tide) are significantly greater than their 1.3 x baseline level ($p < 0.05$). As TIN is not detected at Control stations, quarterly mean of impact station is further compared to the quarterly mean of gradient stations (G1 is the most upstream location at the gradient station among all impact stations at ebb tide, thus is used to compare to cluster 2 stations). Result shows that the gradient station G1 is significantly higher than the impact stations (SR9, SR10 & SR11), indicating the background TIN level is high and project impact is not significant. The summary of key statistical analysis is provided in Table 5.2. Details of key statistical analysis results are provided in **Appendix H**.

5.6.4 As 24-hr monitoring is to supplement the routine WQM activities (EM&A Manual Section 2.1.10) and there is no baseline value and/or control / gradient value for a meaningful statistical analysis. Thus no statistical analysis was done for 24-hr monitoring. Also, statistical analysis was not performed for some parameters without exceendances (DO (S&M), DO (B), Turbidity, UIA for both in-situ and lab results, *E.coli*, BOD_5 and Synthetic Detergent) in the reporting quarter.

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Table 5-2 Comparison of Quarterly Mean to Baseline Mean

		Ammonia (In-situ)						TIN (In-situ)					
		Baseline	Baseline x 1.3	Average	Feb 2016 - Apr 2016	Average	Larger than Baseline x 1.3	Baseline	Baseline x 1.3	Average	Feb 2016 - Apr 2016	Average	Larger than Baseline x 1.3
Control (Flood)	C1	0.23	0.30	NA	3.49	NA	no	NA	NA	NA	NA	NA	NA
	C2	0.07	0.09		3.21		yes						
	C3	0.06	0.08		1.78		yes						
Control (Ebb)	C1	0.22	0.29	NA	3.47	NA	no	NA	NA	NA	NA	NA	NA
	C2	0.06	0.08		3.17		yes						
	C3	0.07	0.09		1.74		yes						
Gradient (Flood)	G1	NA	NA	NA	NA	NA	NA	0.42	0.55	NA	0.46	NA	yes
	G2							0.44	0.57		0.42		no
	G3							0.42	0.55		0.35		no
	G4	NA	NA	NA	NA	NA	NA	0.56	0.73		0.47		no
	G5							0.26	0.34		0.33		yes
	G6							0.20	0.26		0.27		yes
Gradient (Ebb)	G1	NA	NA	NA	NA	NA	NA	0.40	0.52	NA	0.45	NA	yes
	G2							0.38	0.49		0.40		yes
	G3							0.36	0.46		0.35		no
	G4	NA	NA	NA	NA	NA	NA	0.53	0.69		0.48		no
	G5							0.21	0.27		0.33		yes
	G6							0.21	0.27		0.27		yes
Cluster 1 (Flood)	SR1	0.24	0.31	0.32	0.13	0.13	no	NA	NA	0.51	NA	0.43	no
	SR2	0.22	0.29		0.13			NA	NA		NA		
	SR3	0.24	0.31		0.13			NA	NA		NA		
	SR4	0.26	0.34		0.13			NA	NA		NA		
	SR5	NA	NA		NA			0.39	0.51		0.43		
	SR12	0.28	0.36		0.14			NA	NA		NA		
Cluster 1 (Ebb)	SR1	0.22	0.29	0.31	0.13	0.13	no	NA	NA	0.53	NA	0.43	no
	SR2	0.22	0.29		0.13			NA	NA		NA		
	SR3	0.22	0.29		0.13			NA	NA		NA		
	SR4	0.25	0.33		0.14			NA	NA		NA		
	SR5	NA	NA		NA			0.41	0.53		0.43		
	SR12	0.27	0.35		0.14			NA	NA		NA		
Cluster 2 (Flood)	SR6	NA	NA	NA	NA	NA	NA	NA	NA	0.27	NA	0.27	no
	SR7	NA	NA		NA			NA	NA		NA		
	SR8	NA	NA		NA			NA	NA		NA		
	SR9	NA	NA		NA			0.20	0.26		0.32		
	SR10	NA	NA		NA			0.22	0.29		0.24		
	SR11	NA	NA		NA			0.20	0.26		0.24		
Cluster 2 (Ebb)	SR6	NA	NA	NA	NA	NA	NA	NA	NA	0.27	NA	0.27	yes
	SR7	NA	NA		NA			NA	NA		NA		
	SR8	NA	NA		NA			NA	NA		NA		
	SR9	NA	NA		NA			0.20	0.26		0.32		
	SR10	NA	NA		NA			0.22	0.28		0.24		
	SR11	NA	NA		NA			0.20	0.26		0.24		
Cluster 3 (Flood)	SR13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cluster 3 (Ebb)	SR13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA: Not Applicable

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Report No.: 0394/13/ED/0322A

		TSS						Ammonia (Lab)						TIN (Lab)					
		Baseline	Baseline x 1.3	Average	Feb 2016 - Apr 2016	Average	Larger than Baseline x 1.3	Baseline	Baseline x 1.3	Average	Feb 2016 - Apr 2016	Average	Larger than Baseline x 1.3	Baseline	Baseline x 1.3	Average	Feb 2016 - Apr 2016	Average	Larger than Baseline x 1.3
Control (Flood)	C1	7	9		4		no	0.11	0.14		0.13		yes						
	C2	4	6	NA	4	NA	no	0.02	0.03	NA	0.12	NA	yes	NA	NA	NA	NA	NA	NA
	C3	4	5		3		no	0.02	0.03		0.09		yes						
Control (Ebb)	C1	6	7		5		no	0.10	0.13		0.13		yes						
	C2	5	7	NA	4	NA	no	0.02	0.03	NA	0.11	NA	yes	NA	NA	NA	NA	NA	NA
	C3	4	5		4		no	0.02	0.03		0.08		yes						
Gradient (Flood)	G1	7	10		4		no							0.30	0.39		0.46		yes
	G2	5	7	NA	4	NA	no	NA	NA	NA	NA	NA	NA	0.31	0.40		0.43		yes
	G3	6	8		4		no							0.30	0.39	NA	0.35	NA	yes
	G4	8	10		5		no							0.35	0.46		0.48		yes
	G5	6	8	NA	4	NA	no	NA	NA	NA	NA	NA	NA	0.15	0.20		0.34		yes
	G6	4	5		4		no							0.12	0.16		0.27		yes
Gradient (Ebb)	G1	5	7		5		no							0.28	0.36		0.46		yes
	G2	5	7	NA	3	NA	no	NA	NA	NA	NA	NA	NA	0.28	0.36		0.40		yes
	G3	5	7		4		no							0.24	0.31	NA	0.35	NA	yes
	G4	7	9		5		no							0.34	0.44		0.48		yes
	G5	5	7	NA	4	NA	no	NA	NA	NA	NA	NA	NA	0.13	0.17		0.34		yes
	G6	4	5		4		no							0.13	0.17		0.28		yes
Cluster 1 (Flood)	SR1	7	9		4			0.09	0.12		0.13			NA	NA		NA		
	SR2	5	7		4			0.12	0.16		0.13			NA	NA		NA		
	SR3	5	7	8.67	4	4.33	no	0.12	0.16	0.16	0.14	0.14	no	NA	NA	0.38	NA	0.44	yes
	SR4	7	9		5			0.13	0.17		0.14			NA	NA		NA		
	SR5	6	8		4			NA	NA		NA			0.29	0.38		0.44		
	SR12	9	12		5			0.15	0.20		0.14			NA	NA		NA		
Cluster 1 (Ebb)	SR1	7	9		4			0.11	0.14		0.13			NA	NA		NA		
	SR2	5	7		4			0.12	0.16		0.13			NA	NA		NA		
	SR3	5	6	7.33	4	4.17	no	0.12	0.16	0.17	0.13	0.13	no	NA	NA	0.36	NA	0.44	yes
	SR4	5	7		4			0.14	0.18		0.14			NA	NA		NA		
	SR5	5	6		4			NA	NA		NA			0.28	0.36		0.44		
	SR12	7	9		5			0.15	0.20		0.14			NA	NA		NA		
Cluster 2 (Flood)	SR6	5	6		4			NA	NA		NA			NA	NA		NA		
	SR7	6	8		3			NA	NA		NA			NA	NA		NA		
	SR8	4	5	6.17	4	3.50	no	NA	NA	NA	NA	NA	NA	NA	NA	0.16	NA	0.27	yes
	SR9	5	7		4			NA	NA		NA			0.11	0.14		0.33		
	SR10	5	7		3			NA	NA		NA			0.13	0.17		0.24		
	SR11	3	4		3			NA	NA		NA			0.12	0.16		0.24		
Cluster 2 (Ebb)	SR6	4	6		4			NA	NA		NA			NA	NA		NA		
	SR7	6	8		3			NA	NA		NA			NA	NA		NA		
	SR8	4	5	5.83	4	3.83	no	NA	NA	NA	NA	NA	NA	NA	NA	0.14	NA	0.27	yes
	SR9	4	6		4			NA	NA		NA			0.11	0.14		0.33		
	SR10	4	5		4			NA	NA		NA			0.11	0.14		0.25		
	SR11	4	5		4			NA	NA		NA			0.11	0.14		0.24		
Cluster 3 (Flood)	SR13	16	21	21.00	5	5.00	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cluster 3 (Ebb)	SR13	10	14	14.00	5	5.00	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA: Not Applicable

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Table 5-3 Summary of Statistical Analysis

Parameter	Cluster	Compared against	Results and Conclusions
TIN (In-situ)	Cluster 2	Quarterly Mean at Impact Stations (Ebb tide) against 1.3 x Baseline Level (Ebb tide)	Quarterly mean (Ebb tide) is not significantly different from 1.3 x Baseline mean (Ebb tide) ($p \geq 0.05$), indicating Project impact is not significant
TIN (Lab)	Cluster 1	Quarterly Mean at Impact Stations (Flood tide) against 1.3 x Baseline Level (Flood tide)	Quarterly mean (Flood tide) is not significantly different from 1.3 x Baseline mean (Flood tide) ($p \geq 0.05$), indicating Project impact is not significant
	Cluster 2	Quarterly Mean at Impact Stations (Ebb tide) against 1.3 x Baseline Level (Ebb tide) Quarterly Mean at Impact Stations (Ebb tide) against Upstream Gradient Station (Ebb tide)	Quarterly mean (Ebb tide) is significantly higher than 1.3 x Baseline mean (Ebb tide) ($p<0.05$). Impact Mean (Ebb tide) is significantly smaller than Upstream Gradient (G1) Mean (Ebb tide) ($p<0.05$), indicating background TIN level is high, and Project impact is not significant

5.6.5 Exceedance are considered to be due to change in ambient conditions or influences in the vicinity of the stations. Mitigation measures for dredging works were implemented in accordance with EP and EIA requirements.

6. NON-COMPLIANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

6.1.1 In this reporting period, no complaint, inspection notice, notification of summons or prosecution was received. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Tables 6.1, 6.2 and 6.3**.

Table 6-1 Environmental Complaints Log

Complaint Log No.	Date of Receipt	Received From and Received By	Nature of Complaint	Date Investigated	Outcome	Date of Reply
Nil	-	-	-	-	-	-

Table 6-2 Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Period	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Table 6-3 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Prosecutions This Period	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

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7. CONCLUSIONS

7.1.1 The dredging works was commenced on 23 April 2014. The EM&A programme was carried out in accordance with the EM&A Manual requirements. As per the EM&A Manual, water quality impact monitoring was conducted during the dredging works.

7.1.2 During the reporting period, exceedances were recorded for NH3-N (in-situ & lab), TIN (in-situ & lab) and Suspended Solids in the routine impact monitoring. Investigation found that the exceedances were not project related and were considered caused by influences in the vicinity of the stations or change in ambient conditions.

7.1.3 13 environmental site inspections were carried out weekly in the reporting period.

7.1.4 No environmental complaint was received and followed up by Environmental Team in the reporting period.

7.1.5 No notification of summons and prosecution was received in the reporting period.

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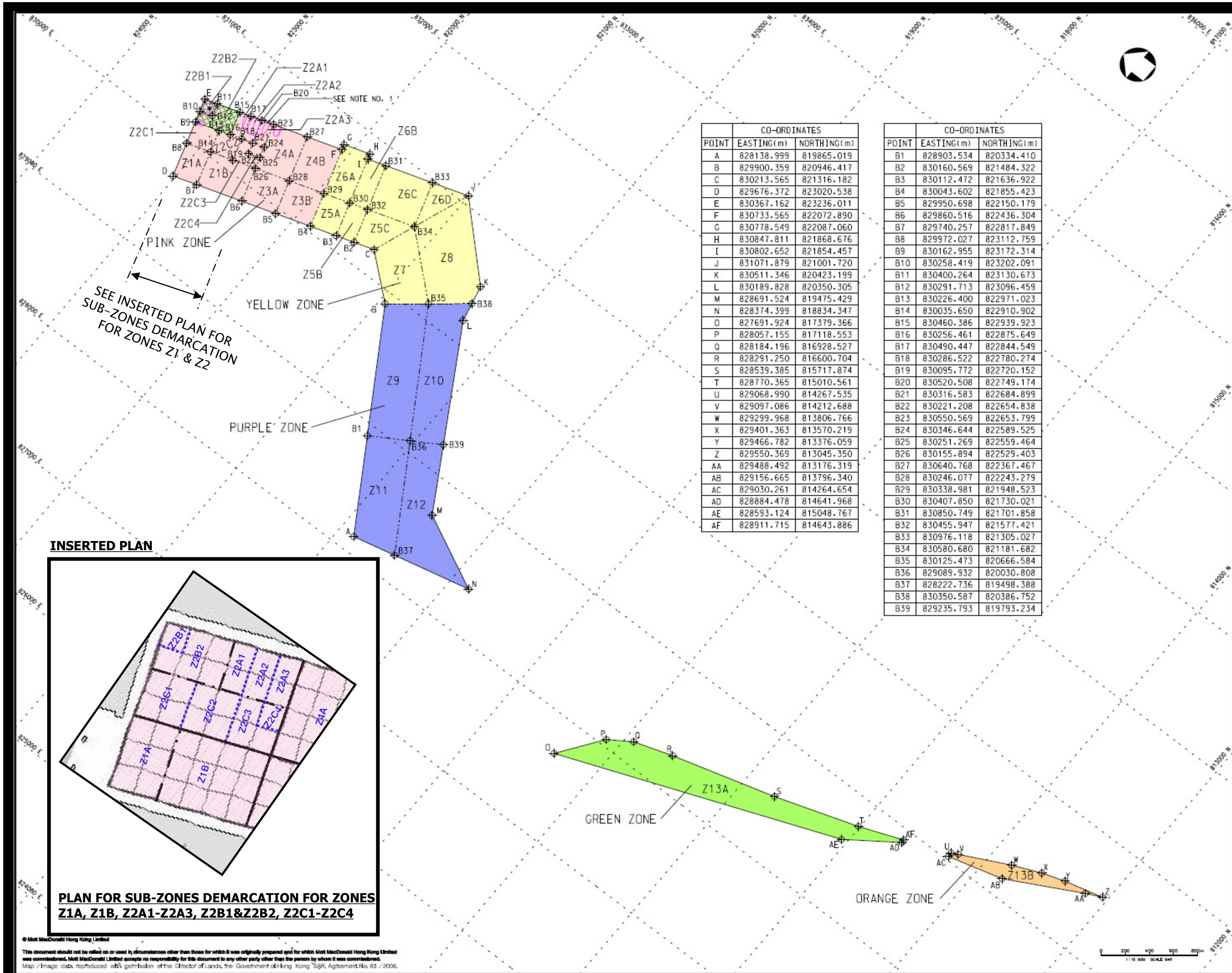
Figure 1

Project General Layout



	CO-ORDINATES	
POINT	EASTING(m)	NORTHING(m)
A	828138.999	819865.019
B	829900.359	820946.417
C	830213.565	821316.182
D	829676.372	823020.538
E	830367.162	823236.011
F	830733.565	822072.890
G	830778.549	822087.060
H	830847.811	821868.676
I	830802.652	821854.457
J	831071.879	821001.720
K	830511.346	820423.199
L	830189.828	820350.305
M	828691.524	819475.429
N	828374.399	818834.347
O	827691.924	817379.366
P	828057.155	817118.553
Q	828184.196	816928.527
R	828291.250	816600.704
S	828539.385	815717.874
T	828770.365	815010.561
U	829068.990	814267.535
V	829097.086	814212.688
W	829299.968	813806.766
X	829401.363	813570.219
Y	829466.782	813376.059
Z	829550.369	813045.350
AA	829488.492	813176.319
AB	829156.665	813796.340
AC	829030.261	814264.654
AD	828884.478	814641.968
AE	828593.124	815048.767
AF	828911.715	814643.886

	CO-ORDINATES	
POINT	EASTING(m)	NORTHING(m)
B1	828903.534	820334.410
B2	830160.569	821484.322
B3	830112.472	821636.922
B4	830043.602	821855.423
B5	829950.698	822150.179
B6	829860.516	822436.304
B7	829740.257	822817.849
B8	829972.027	823112.759
B9	830162.955	823172.314
B10	830258.419	823202.091
B11	830400.264	823130.673
B12	830291.713	823096.459
B13	830226.400	822971.023
B14	830035.650	822910.902
B15	830460.386	822939.923
B16	830256.461	822875.649
B17	830490.447	822844.549
B18	830286.522	822780.274
B19	830095.772	822720.152
B20	830520.508	822749.174
B21	830316.583	822684.899
B22	830221.208	822654.838
B23	830550.569	822653.799
B24	830346.644	822589.525
B25	830251.269	822559.464
B26	830155.894	822529.403
B27	830640.768	822367.467
B28	830246.077	822243.279
B29	830338.981	821948.523
B30	830407.850	821730.021
B31	830850.749	821701.858
B32	830455.947	821577.421
B33	830976.118	821305.027
B34	830580.680	821181.682
B35	830125.473	820666.584
B36	829089.932	820030.808
B37	828222.736	819498.388
B38	830350.587	820386.752
B39	829235.793	819793.234

Project Title: Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

Figure 2: Zones and Sub-zone of Dredging Plan Layout (Extracted from Figure 2 of Justification for the Proposed Demarcation of the Dredging Zones)

Environmental Permit No.:

EP-426/2011/A

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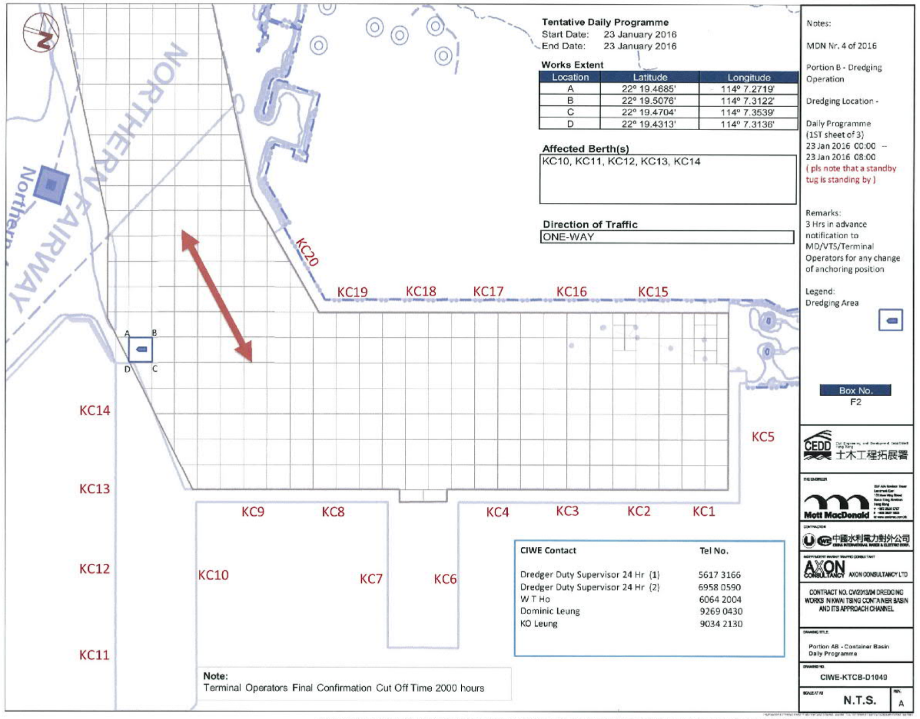
Figure 2

Dredging Work Location during the Reporting Period



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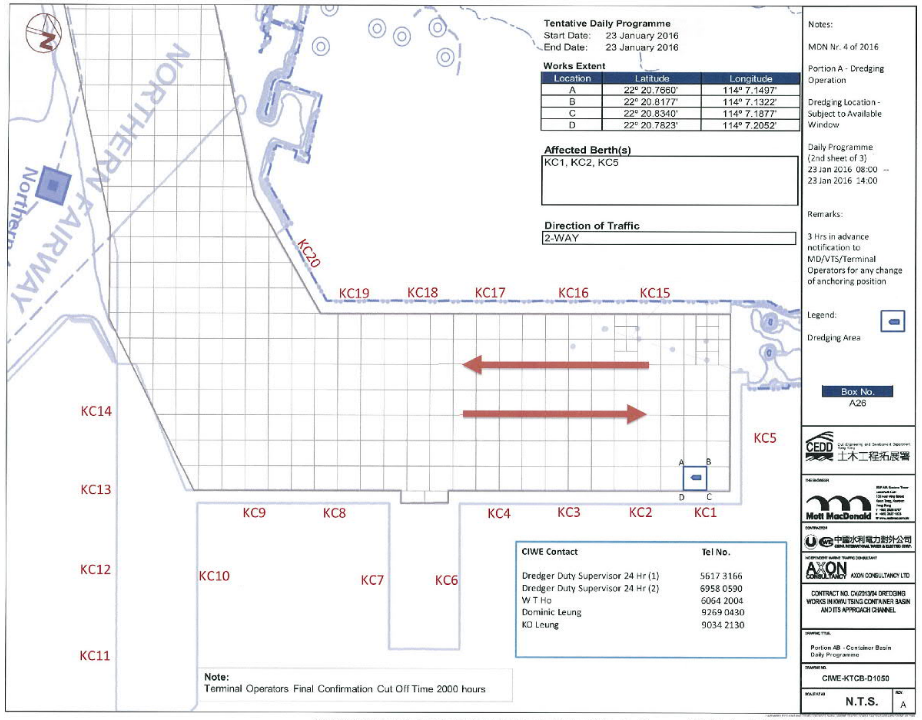

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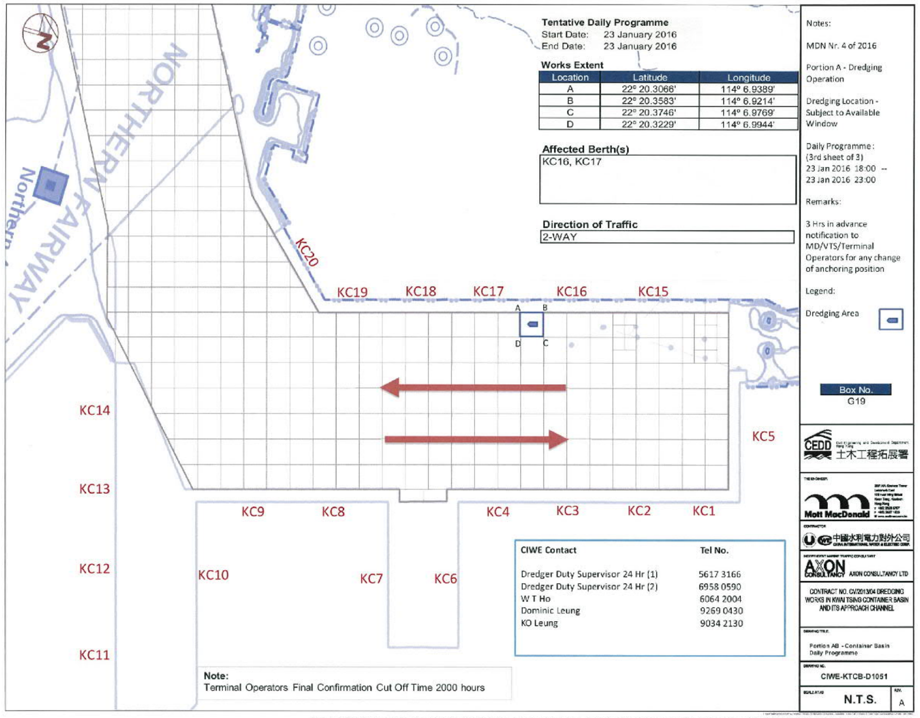

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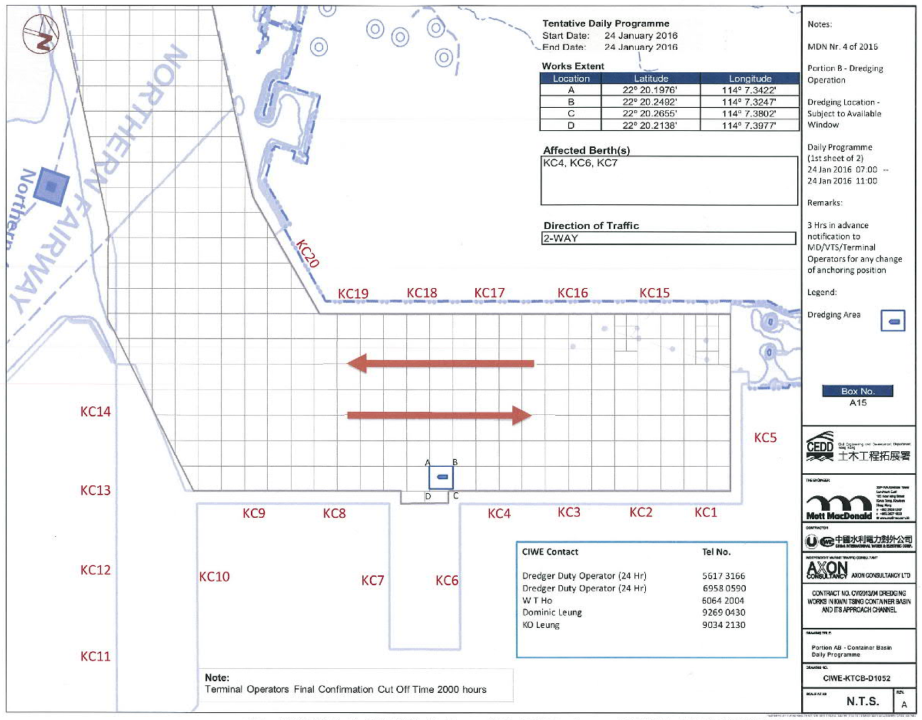

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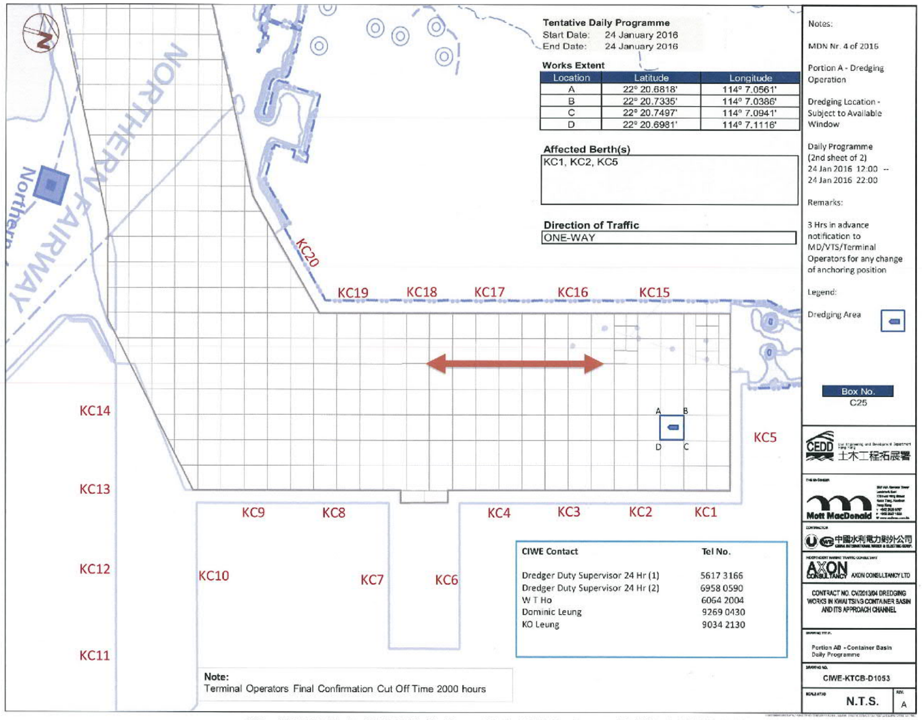

Location	Latitude	Longitude
A	22° 20.6818'	114° 7.0561'
B	22° 20.7335'	114° 7.0386'
C	22° 20.7497'	114° 7.0941'
D	22° 20.6981'	114° 7.1116'

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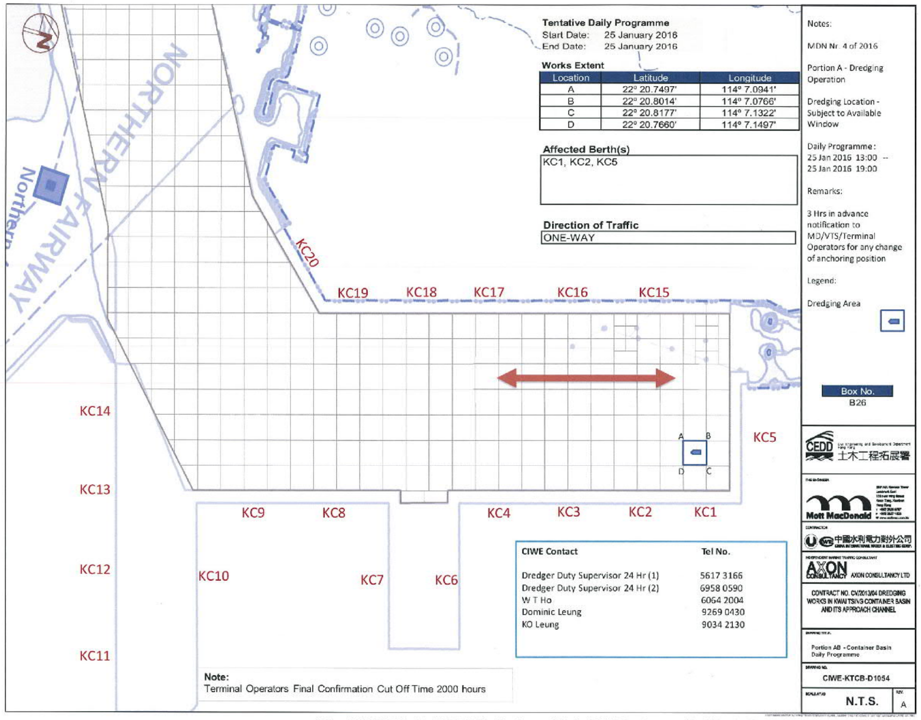

Location	Latitude	Longitude
A	22° 20.7497'	114° 7.0941'
B	22° 20.8014'	114° 7.0766'
C	22° 20.8177'	114° 7.1322'
D	22° 20.7660'	114° 7.1497'

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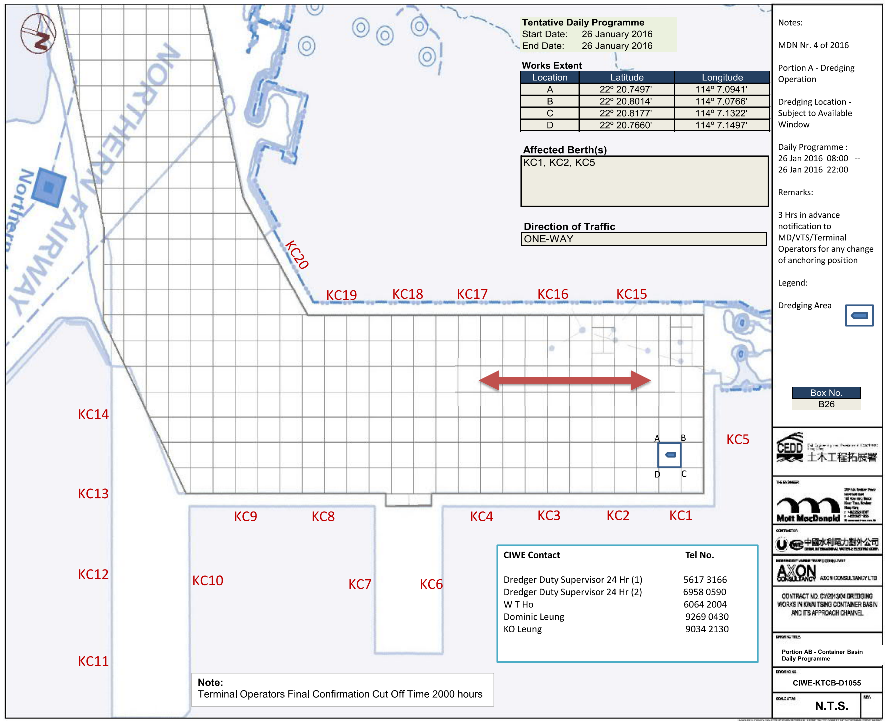

Location	Latitude	Longitude
A	22º 20.7497'	114º 7.0941'
B	22º 20.8014'	114º 7.0766'
C	22º 20.8177'	114º 7.1322'
D	22º 20.7660'	114º 7.1497'

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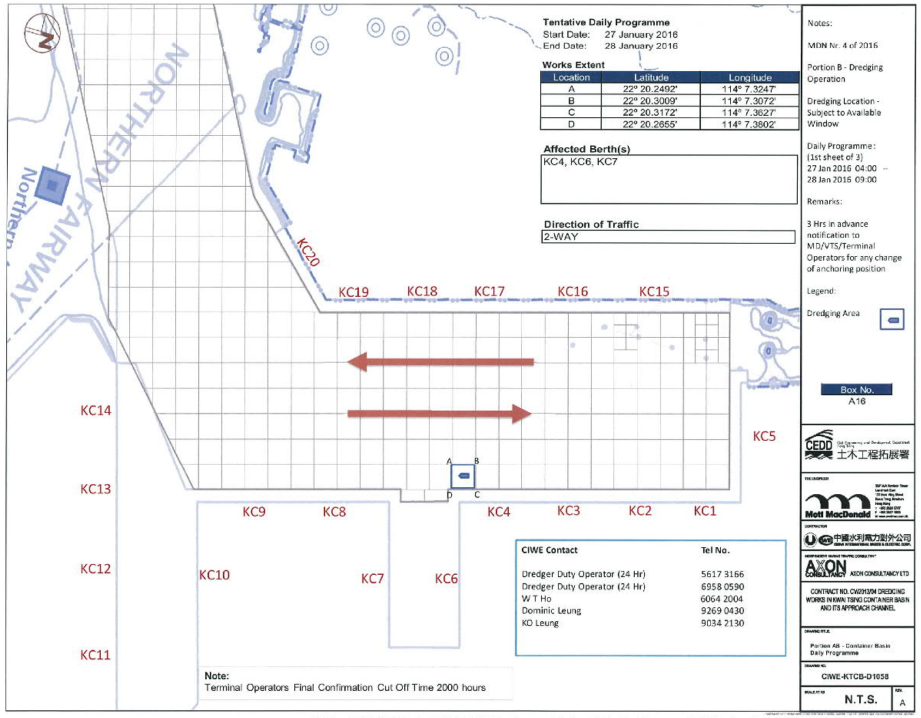

Location	Latitude	Longitude
A	22º 20.2492'	114º 7.3247'
B	22º 20.3009'	114º 7.3072'
C	22º 20.3172'	114º 7.3627'
D	22º 20.2655'	114º 7.3802'

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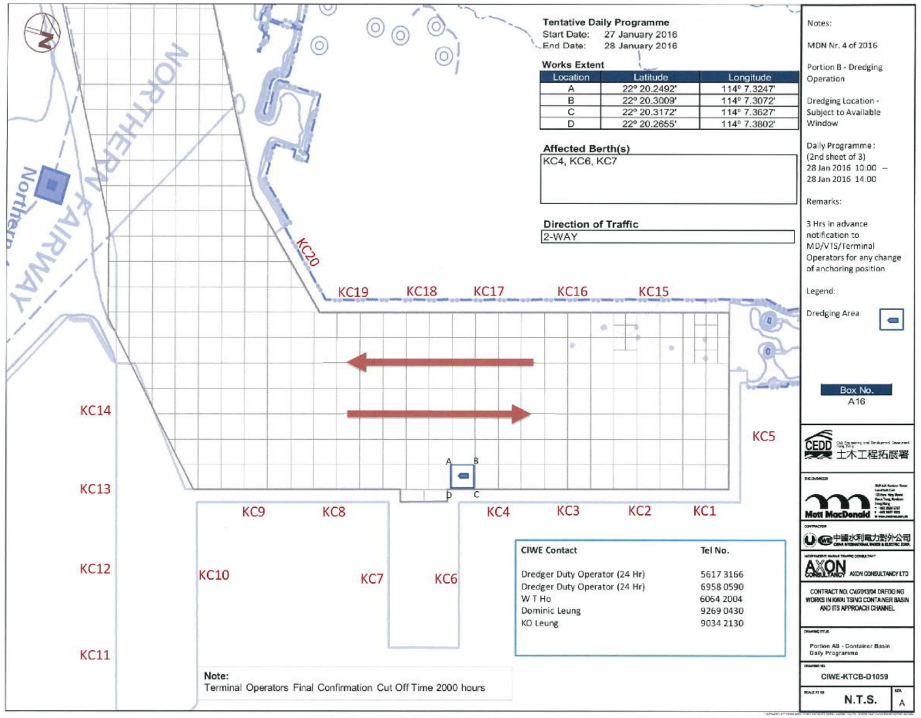

Tentative Daily Programme
Start Date: 27 January 2016
End Date: 28 January 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2492'	114° 7.3247'
B	22° 20.3009'	114° 7.3072'
C	22° 20.3172'	114° 7.3627'
D	22° 20.2655'	114° 7.3802'

Affected Berth(s)
KC4, KC6, KC7

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Operator (24 Hr)	5617 3166
Dredger Duty Operator (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (2nd sheet of 3) 28 Jan 2016 10:00 – 28 Jan 2016 14:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. A16

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Mott MacDonald
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AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1059
N.T.S.
A

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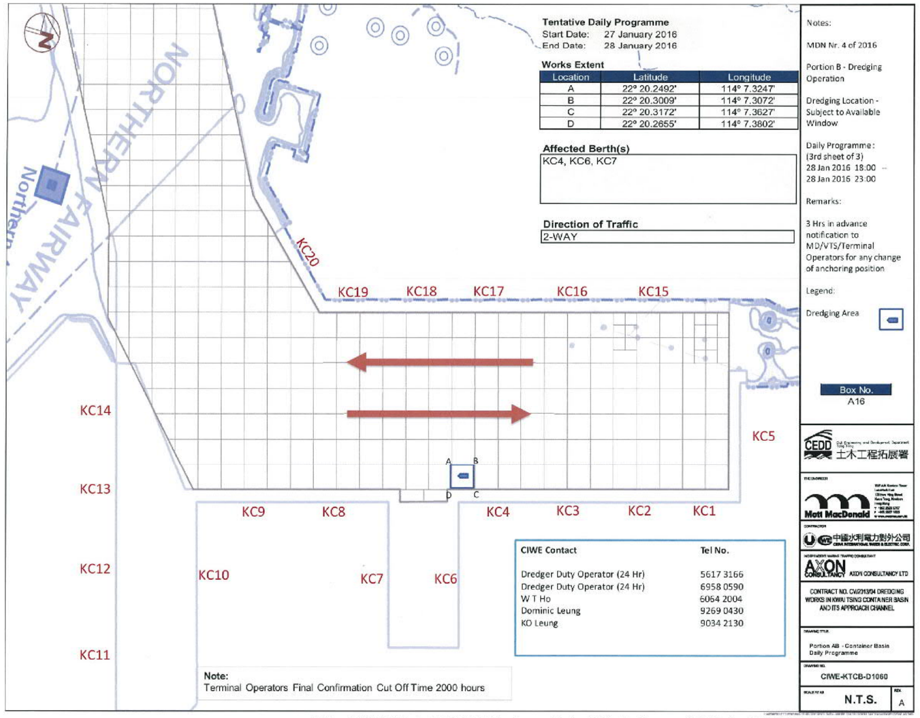

Tentative Daily Programme
Start Date: 27 January 2016
End Date: 28 January 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2492'	114° 7.3247'
B	22° 20.3009'	114° 7.3072'
C	22° 20.3172'	114° 7.3627'
D	22° 20.2655'	114° 7.3802'

Affected Berth(s)
KC4, KC6, KC7

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Operator (24 Hr)	5617 3166
Dredger Duty Operator (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (3rd sheet of 3) 28 Jan 2016 18:00 – 28 Jan 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. A16

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Mott MacDonald
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Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1060
N.T.S.
A

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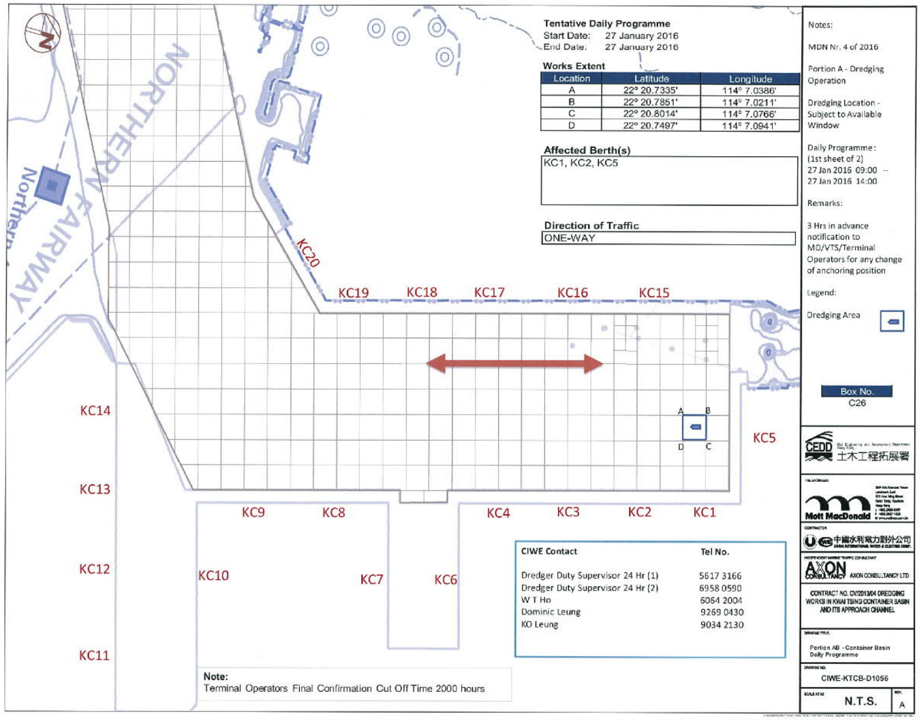

Tentative Daily Programme
Start Date: 27 January 2016
End Date: 27 January 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7335'	114° 7.0386'
B	22° 20.7851'	114° 7.0211'
C	22° 20.8014'	114° 7.0766'
D	22° 20.7497'	114° 7.0941'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (1st sheet of 2) 27 Jan 2016 09:00 – 27 Jan 2016 14:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. C26

CEDD Civil Engineering and Development Department 土木工程拓展署
Mott MacDonald
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1056
N.T.S.
A

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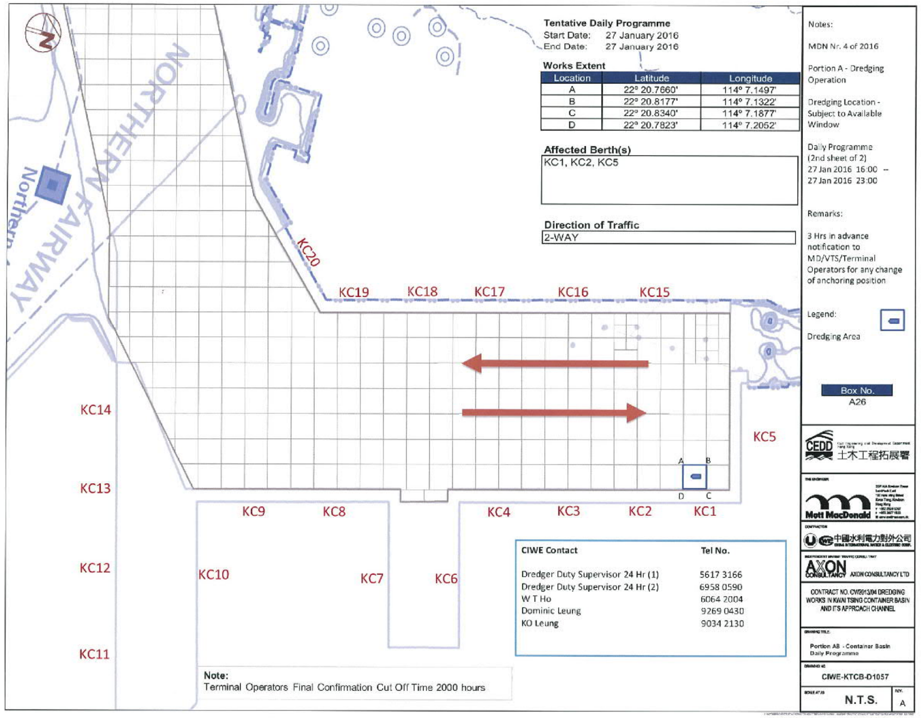

Tentative Daily Programme
Start Date: 27 January 2016
End Date: 27 January 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7660'	114° 7.1497'
B	22° 20.8177'	114° 7.1322'
C	22° 20.8340'	114° 7.1877'
D	22° 20.7823'	114° 7.2052'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 2) 27 Jan 2016 16:00 – 27 Jan 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. A26

CEDD Civil Engineering and Development Department 土木工程拓展署
Mott MacDonald
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1057
N.T.S.
A

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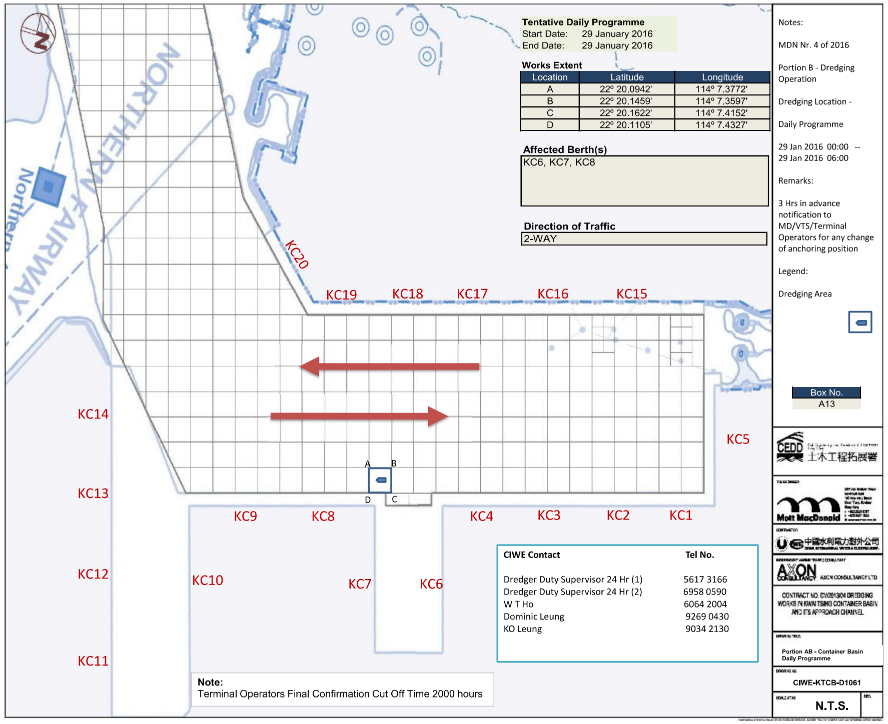

Tentative Daily Programme
Start Date: 29 January 2016
End Date: 29 January 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.0942'	114º 7.3772'
B	22º 20.1459'	114º 7.3597'
C	22º 20.1622'	114º 7.4152'
D	22º 20.1105'	114º 7.4327'

Affected Berth(s)
KC6, KC7, KC8

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location -

Daily Programme

29 Jan 2016 00:00 --
29 Jan 2016 06:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A13

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1061

N.T.S.

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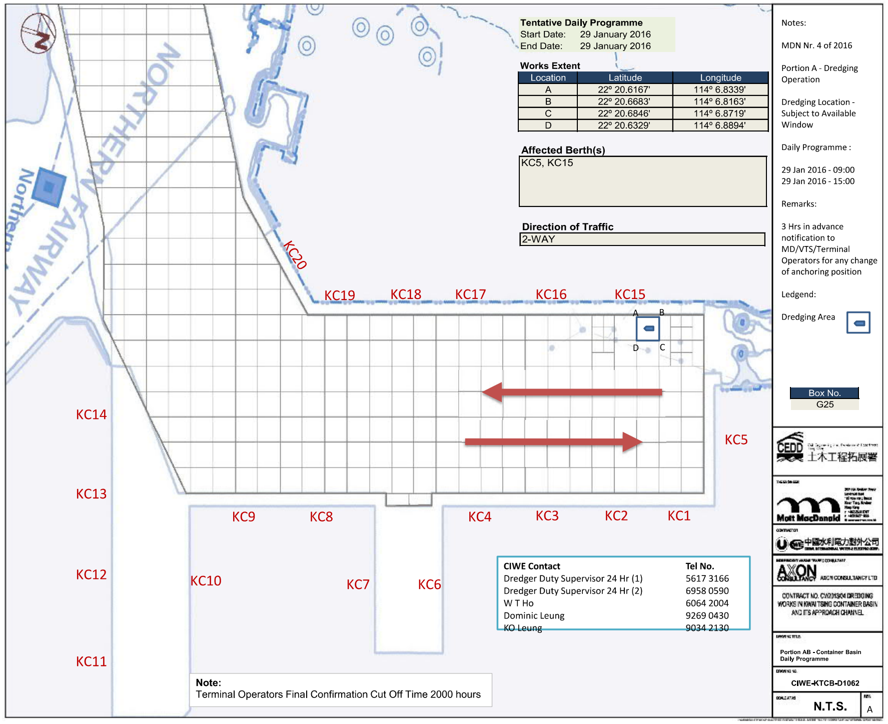

Tentative Daily Programme
Start Date: 29 January 2016
End Date: 29 January 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.6167'	114º 6.8339'
B	22º 20.6683'	114º 6.8163'
C	22º 20.6846'	114º 6.8719'
D	22º 20.6329'	114º 6.8894'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :

29 Jan 2016 - 09:00
29 Jan 2016 - 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Ledgend:

Dredging Area

Box No.
G25

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1062

N.T.S.

A

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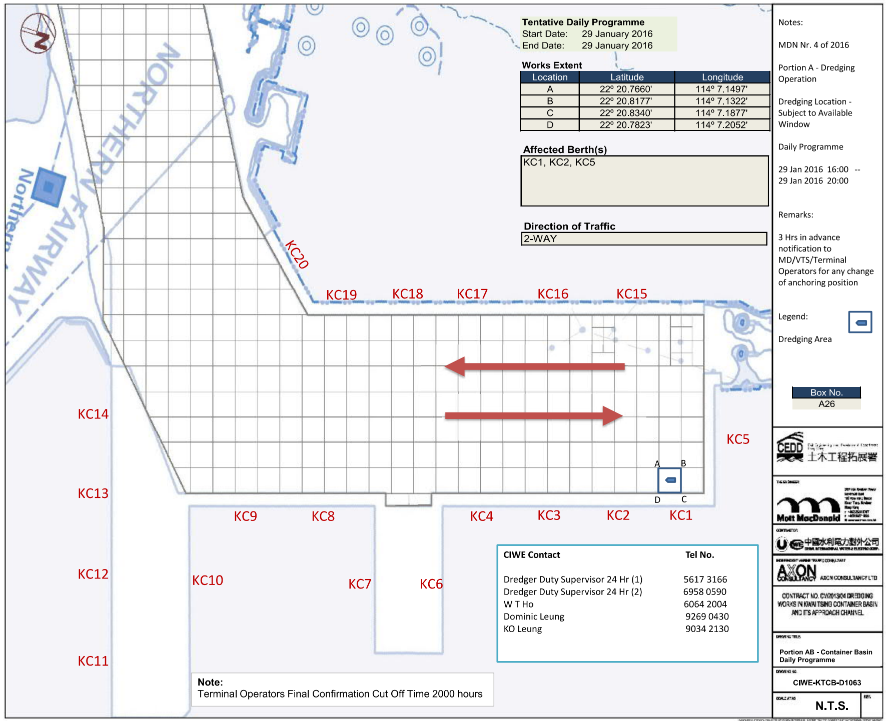

Tentative Daily Programme
Start Date: 29 January 2016
End Date: 29 January 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.7660'	114º 7.1497'
B	22º 20.8177'	114º 7.1322'
C	22º 20.8340'	114º 7.1877'
D	22º 20.7823'	114º 7.2052'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme

29 Jan 2016 16:00 --
29 Jan 2016 20:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A26

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1063

N.T.S.

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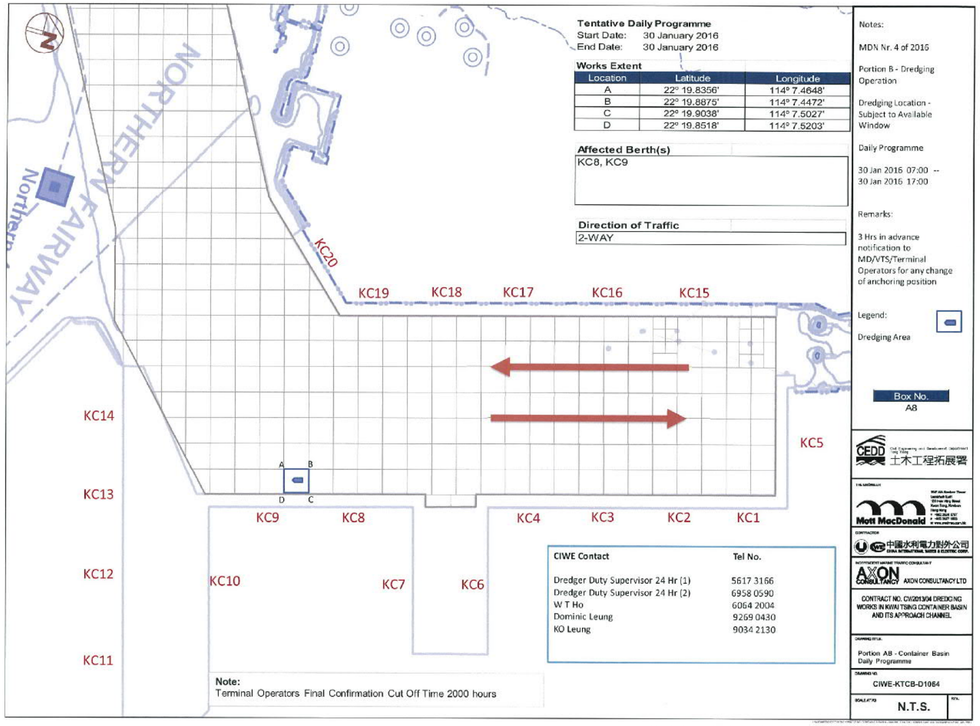


Tentative Daily Programme
Start Date: 30 January 2016
End Date: 30 January 2016

Works Extent

Location	Latitude	Longitude
A	22º 19.8356'	114º 7.4648'
B	22º 19.8875'	114º 7.4472'
C	22º 19.9038'	114º 7.5027'
D	22º 19.8518'	114º 7.5203'

Affected Berth(s)
KC8, KC9

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme

30 Jan 2016 07:00 --
30 Jan 2016 17:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A8

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

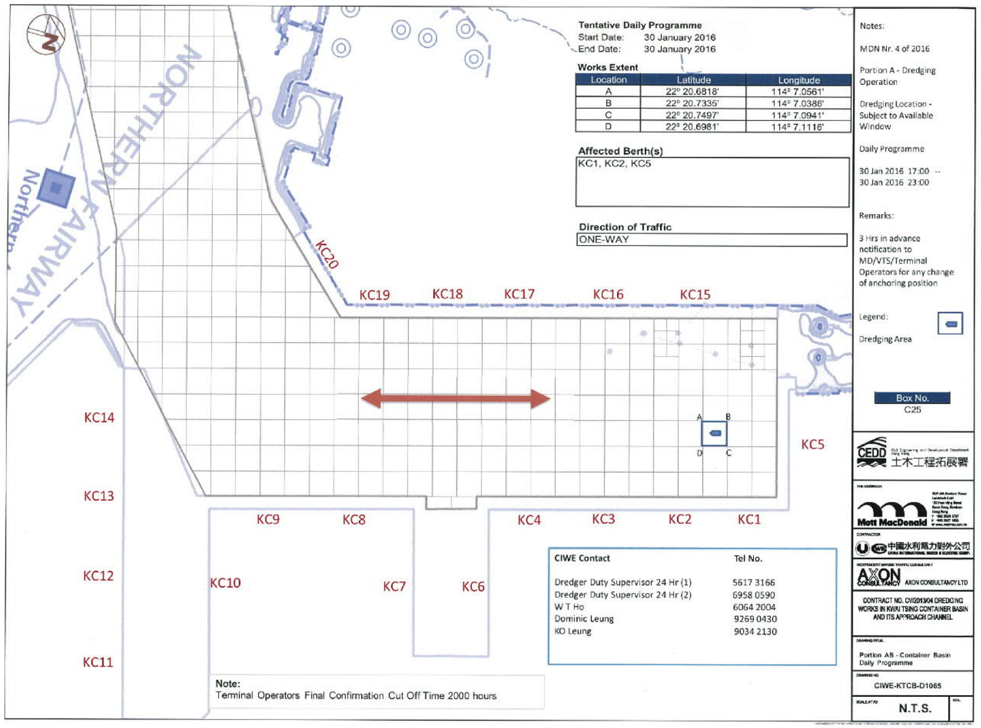
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

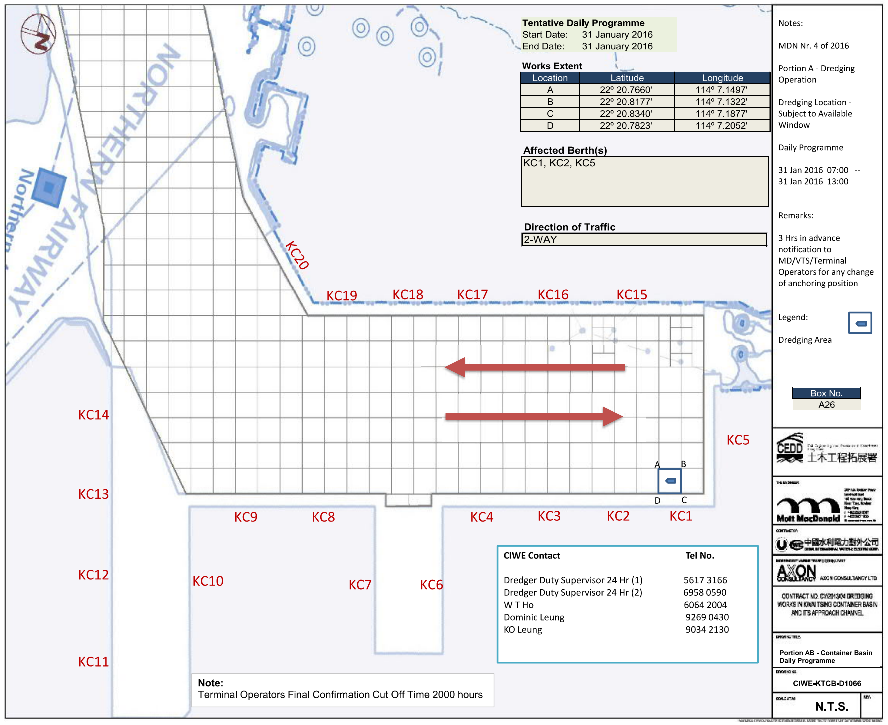
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1064

N.T.S.

\\CIWE\Users\Public\From Ho\[Portion AB 2016-01-29 D1064 for A8.xlsx]Main





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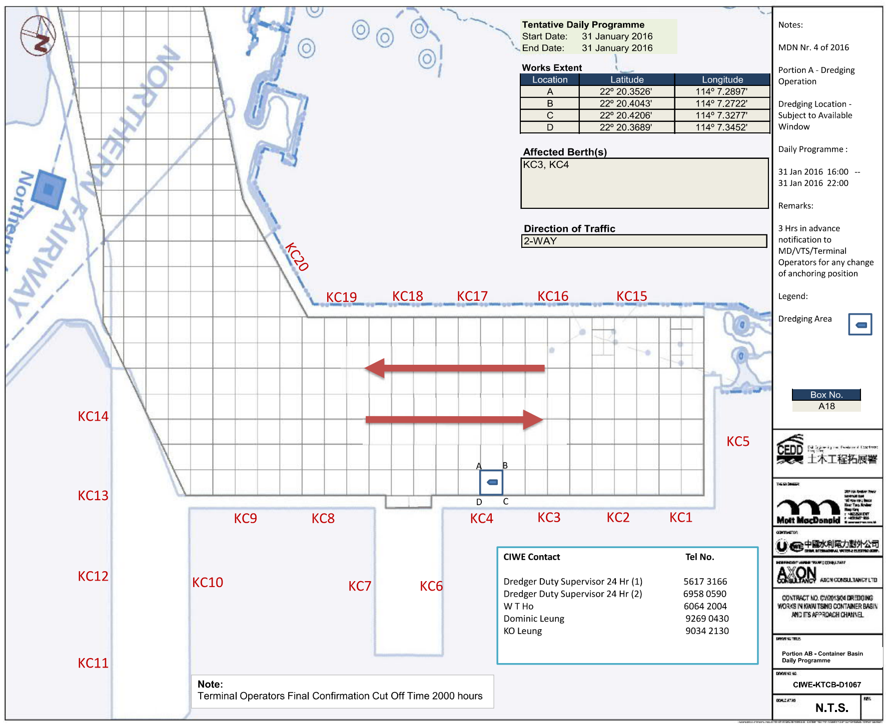

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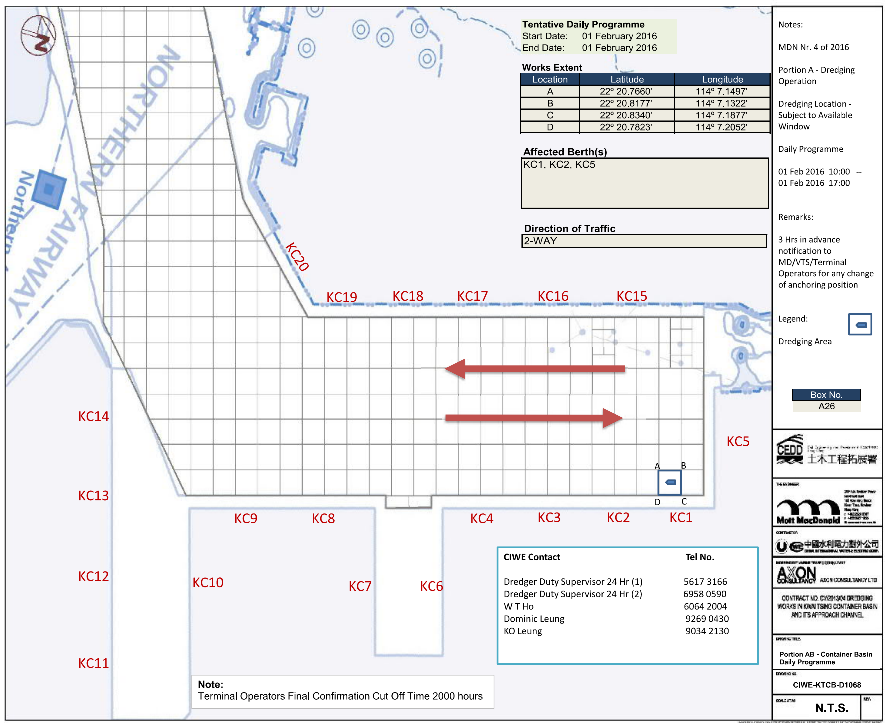

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Tentative Daily Programme
Start Date: 01 February 2016
End Date: 01 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.6167'	114º 6.8339'
B	22º 20.6683'	114º 6.8163'
C	22º 20.6846'	114º 6.8719'
D	22º 20.6329'	114º 6.8894'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :

01 Feb 2016 - 17:00
01 Feb 2016 - 23:00

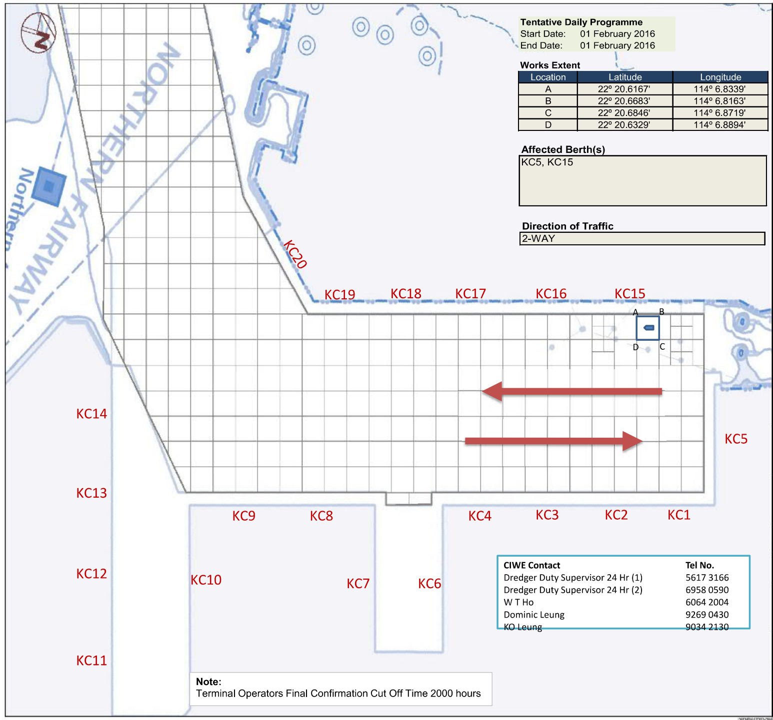
Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Ledgend:

Dredging Area

Box No.
G25



CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1069
N.T.S.

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Tentative Daily Programme
Start Date: 01 February 2016
End Date: 02 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 19.7839'	114º 7.4822'
B	22º 19.8356'	114º 7.4648'
C	22º 19.8518'	114º 7.5203'
D	22º 19.8002'	114º 7.5378'

Affected Berth(s)
KC9

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

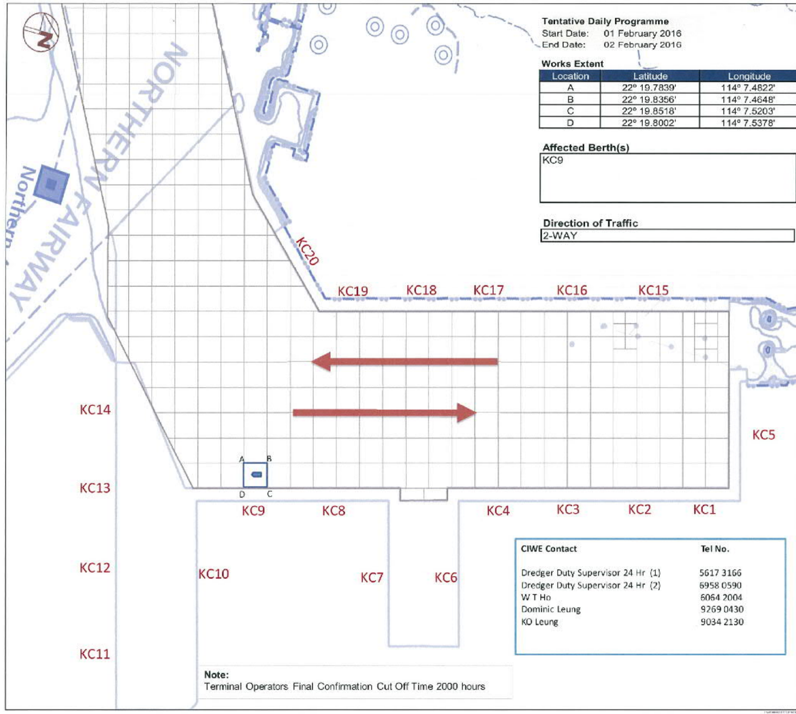
Dredging Location -

Daily Programme
(1st sheet of 4)
01 Feb 2016 18:00 --
02 Feb 2016 02:00

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
A7



CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1070
N.T.S.
A

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Tentative Daily Programme
Start Date: 01 February 2016
End Date: 02 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.6167'	114º 6.8339'
B	22º 20.6683'	114º 6.8163'
C	22º 20.6846'	114º 6.8719'
D	22º 20.6329'	114º 6.8894'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(2nd sheet of 4)
02 Feb 2016 - 07:00
02 Feb 2016 - 11:00

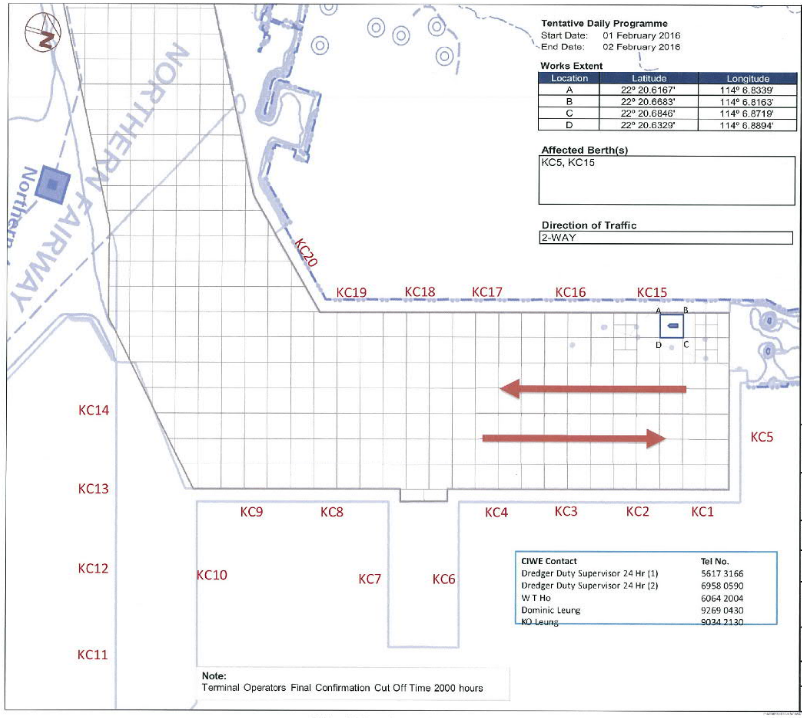
Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Ledgend:

Dredging Area

Box No.
G25



CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1071
N.T.S.

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Tentative Daily Programme
Start Date: 01 February 2016
End Date: 02 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.7660'	114º 7.1497'
B	22º 20.8177'	114º 7.1322'
C	22º 20.8340'	114º 7.1877'
D	22º 20.7823'	114º 7.2052'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd of sheet 4)
02 Feb 2016 13:30 --
02 Feb 2016 17:30

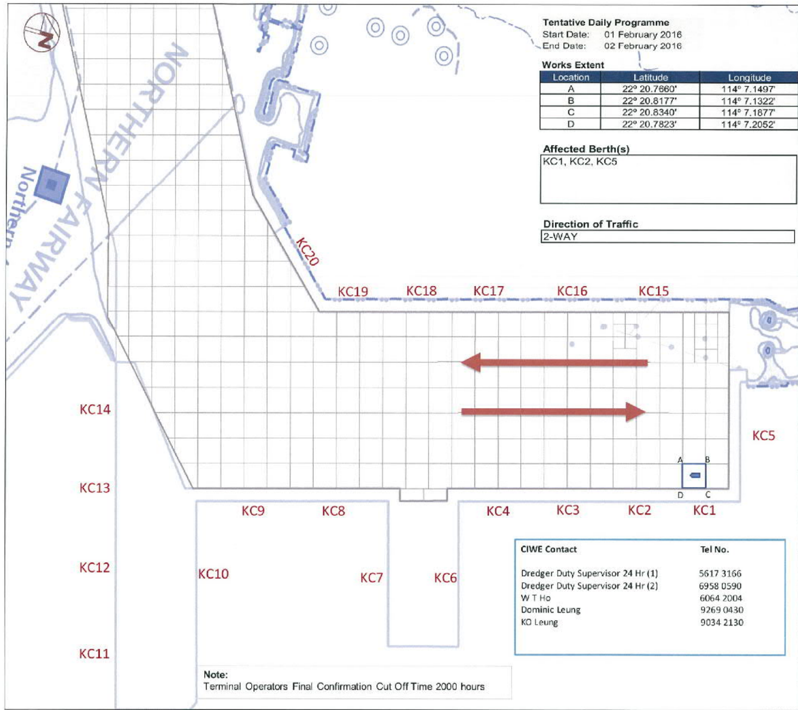
Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A26



CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1072
N.T.S.

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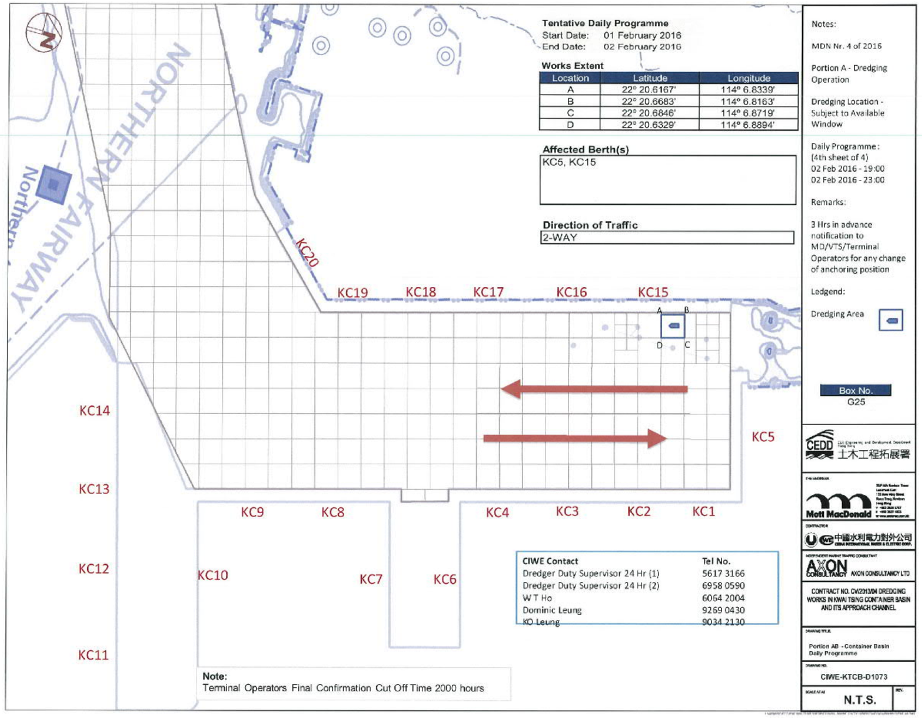

Tentative Daily Programme
Start Date: 01 February 2016
End Date: 02 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6167'	114° 6.8339'
B	22° 20.6683'	114° 6.8163'
C	22° 20.6846'	114° 6.8719'
D	22° 20.6329'	114° 6.8894'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (4th sheet of 4)
02 Feb 2016 - 19:00
02 Feb 2016 - 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Ledgend:
Dredging Area
Box No.
G25

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1073
N.T.S.

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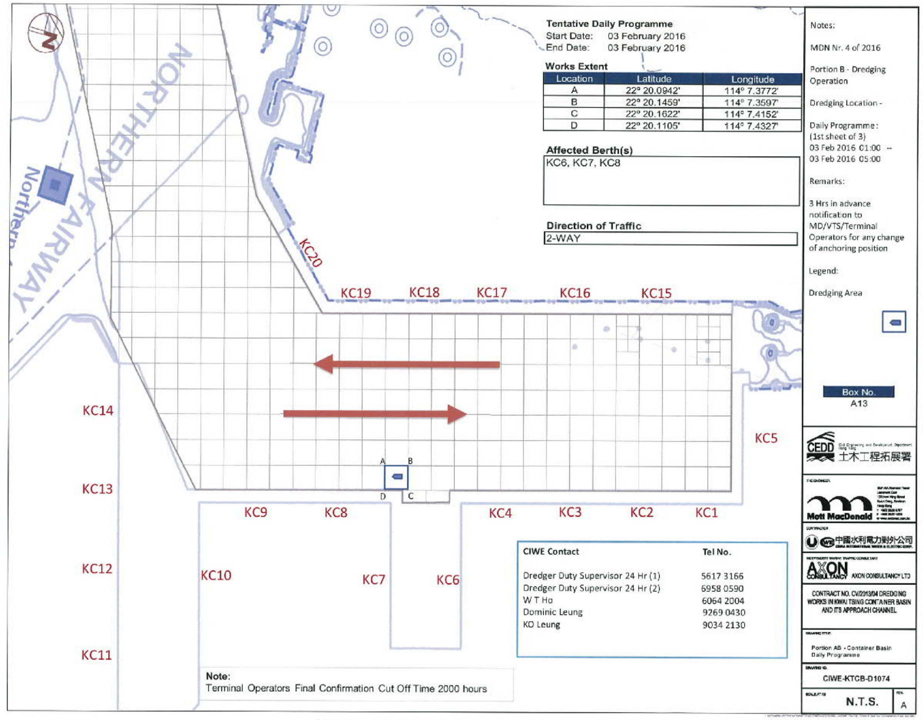

Tentative Daily Programme
Start Date: 03 February 2016
End Date: 03 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0942'	114° 7.3772'
B	22° 20.1459'	114° 7.3597'
C	22° 20.1622'	114° 7.4152'
D	22° 20.1105'	114° 7.4327'

Affected Berth(s)
KC6, KC7, KC8

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location -
Daily Programme: (1st sheet of 3)
03 Feb 2016 01:00 --
03 Feb 2016 05:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
A13

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1074
N.T.S.
A

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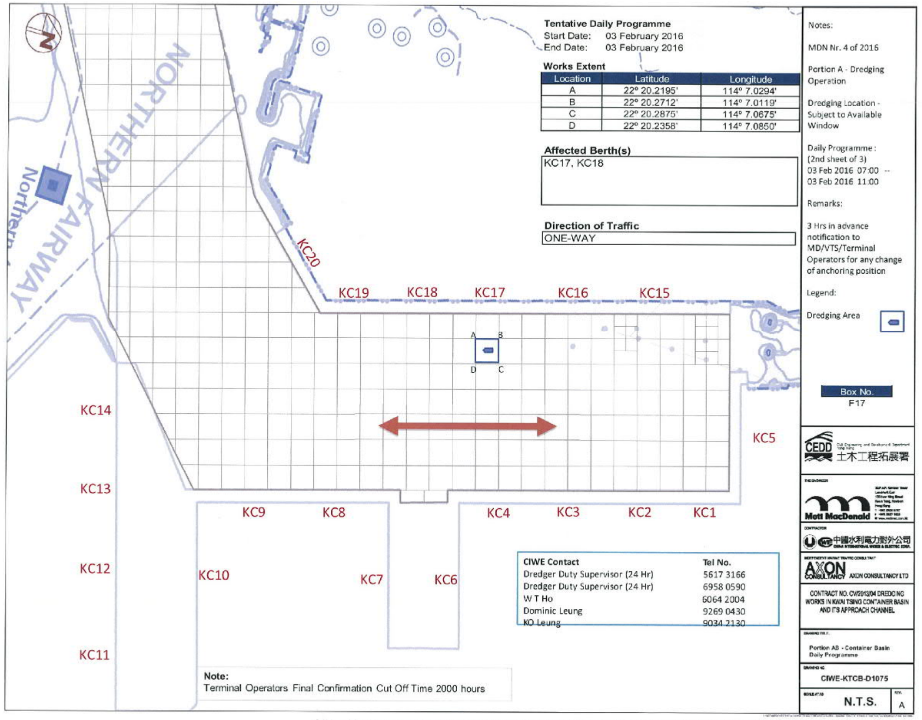


Tentative Daily Programme
Start Date: 03 February 2016
End Date: 03 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2195'	114° 7.0294'
B	22° 20.2712'	114° 7.0119'
C	22° 20.2875'	114° 7.0675'
D	22° 20.2358'	114° 7.0850'

Affected Berth(s)
KC17, KC18

Direction of Traffic
ONE-WAY

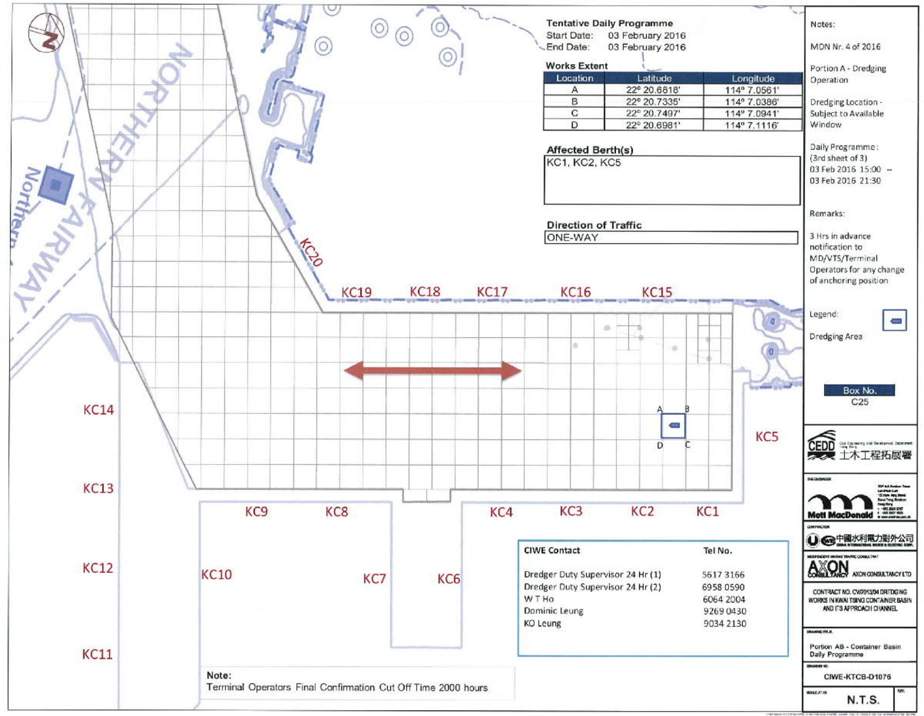
CIWE Contact	Tel No.
Dredger Duty Supervisor (24 Hr)	5617 3166
Dredger Duty Supervisor (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (2nd sheet of 3)
03 Feb 2016 07:00 --
03 Feb 2016 11:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
F17

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1075
N.T.S.
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-02 D1075 for F17.xlsx]Main



Tentative Daily Programme
Start Date: 03 February 2016
End Date: 03 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6818'	114° 7.0561'
B	22° 20.7335'	114° 7.0386'
C	22° 20.7497'	114° 7.0941'
D	22° 20.6981'	114° 7.1116'

Affected Berth(s)
KC1, KC2, KC5

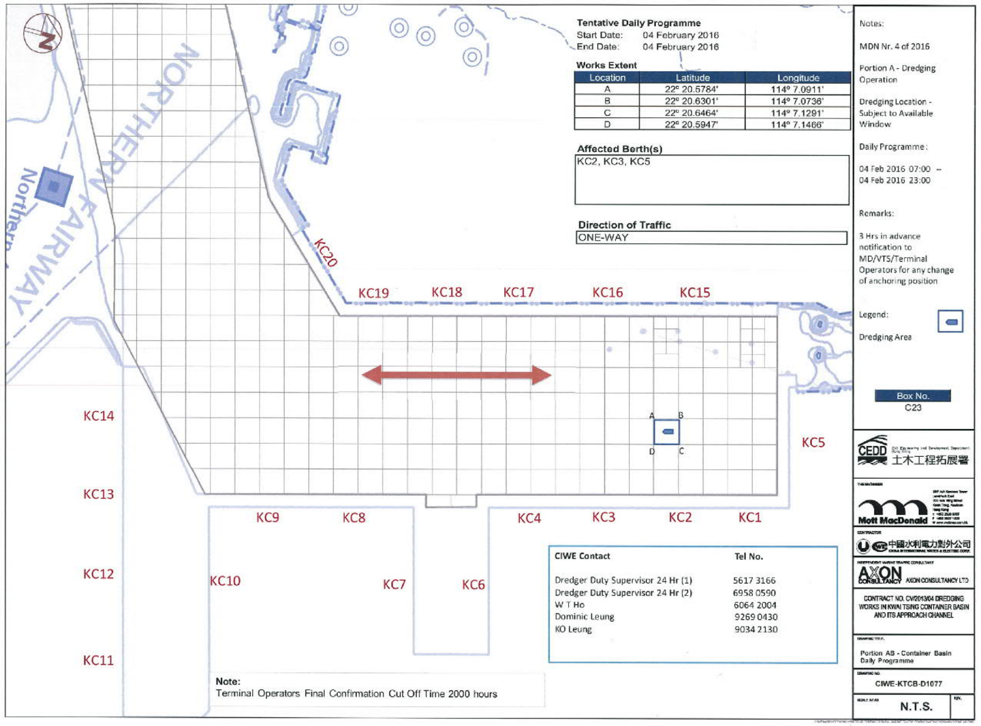
Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (3rd sheet of 3)
03 Feb 2016 15:00 --
03 Feb 2016 21:30
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
C25

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1076
N.T.S.



Tentative Daily Programme
Start Date: 04 February 2016
End Date: 04 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5784'	114° 7.0911'
B	22° 20.6301'	114° 7.0736'
C	22° 20.6464'	114° 7.1291'
D	22° 20.5947'	114° 7.1466'

Affected Berth(s)
KC2, KC3, KC5

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:

04 Feb 2016 07:00 --
04 Feb 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

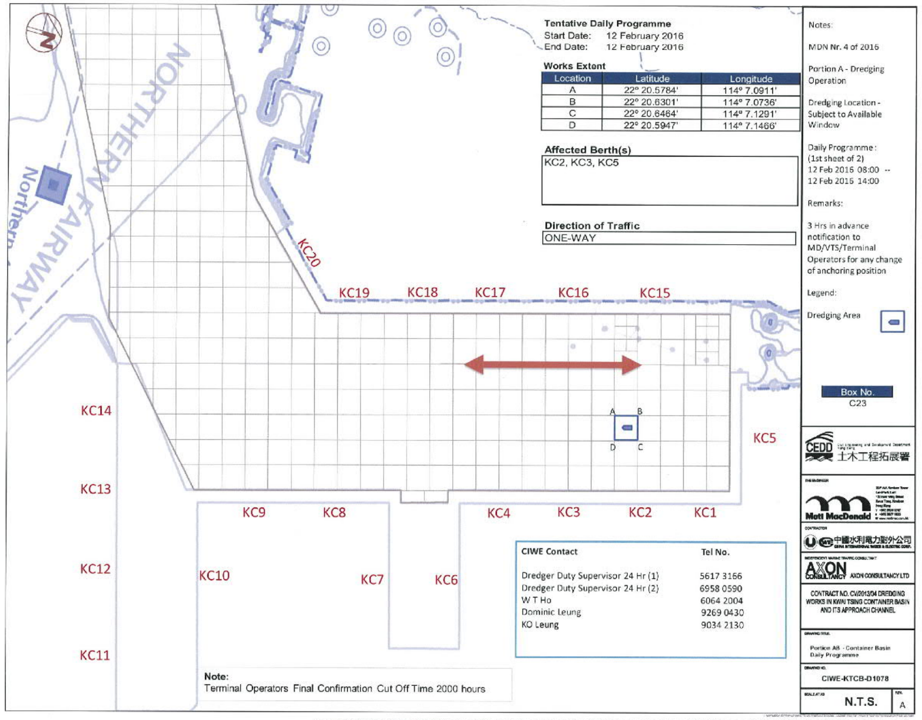
Legend:

Dredging Area

Box No.
C23

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours



Tentative Daily Programme
Start Date: 12 February 2016
End Date: 12 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5784'	114° 7.0911'
B	22° 20.6301'	114° 7.0736'
C	22° 20.6464'	114° 7.1291'
D	22° 20.5947'	114° 7.1466'

Affected Berth(s)
KC2, KC3, KC5

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 2)
12 Feb 2016 08:00 --
12 Feb 2016 14:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C23

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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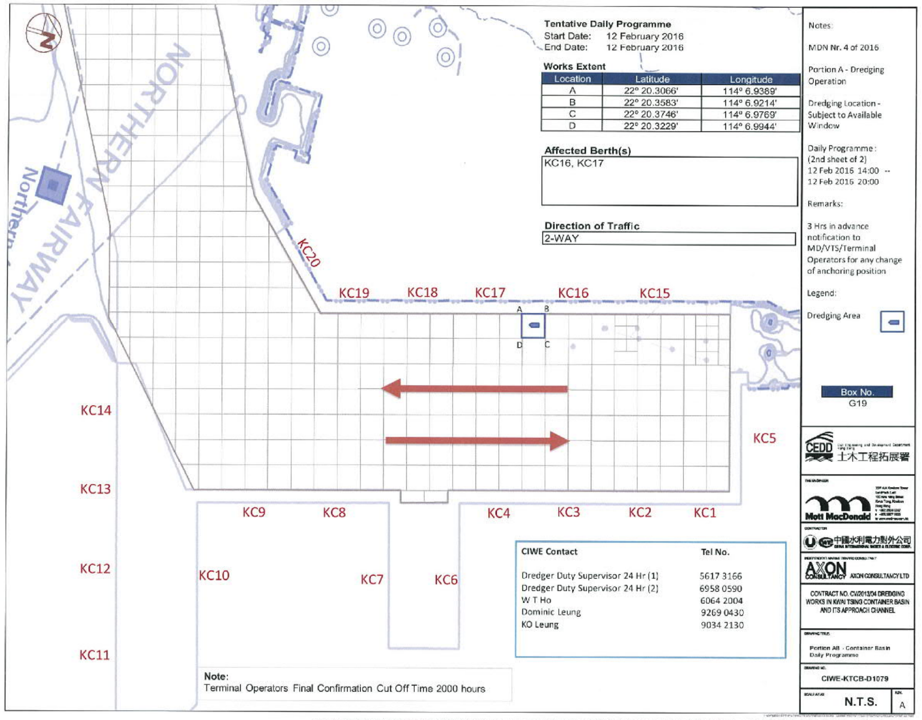

Tentative Daily Programme
Start Date: 12 February 2016
End Date: 12 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.3066'	114° 6.9389'
B	22° 20.3583'	114° 6.9214'
C	22° 20.3746'	114° 6.9769'
D	22° 20.3229'	114° 6.9944'

Affected Berth(s)
KC16, KC17

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 2)
12 Feb 2016 14:00 --
12 Feb 2016 20:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G19

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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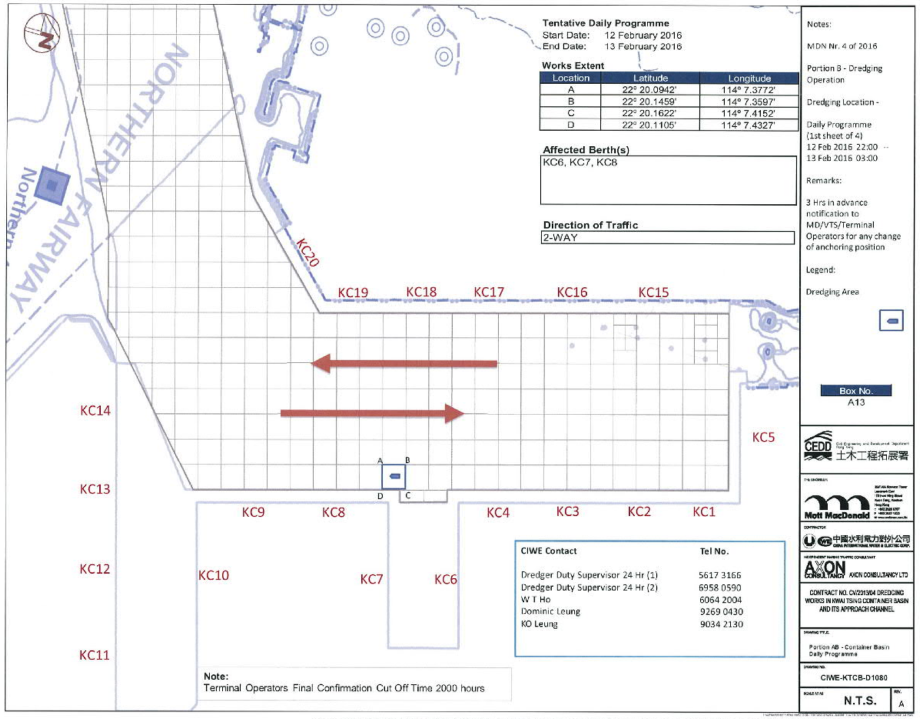

Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0942'	114° 7.3772'
B	22° 20.1459'	114° 7.3597'
C	22° 20.1622'	114° 7.4152'
D	22° 20.1105'	114° 7.4327'

Affected Berth(s)
KC6, KC7, KC8

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location -

Daily Programme
(1st sheet of 4)
12 Feb 2016 22:00 --
13 Feb 2016 03:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A13

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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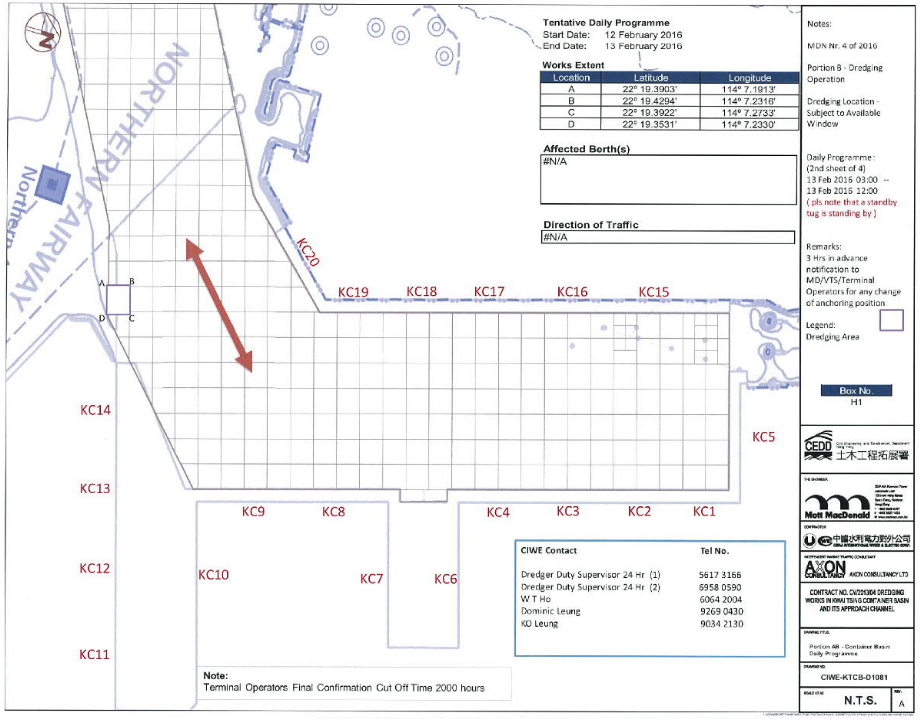

Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.3903'	114° 7.1913'
B	22° 19.4294'	114° 7.2316'
C	22° 19.3922'	114° 7.2733'
D	22° 19.3531'	114° 7.2330'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme:
(2nd sheet of 4)
13 Feb 2016 03:00 --
13 Feb 2016 12:00
(pls note that a standby tug is standing by)
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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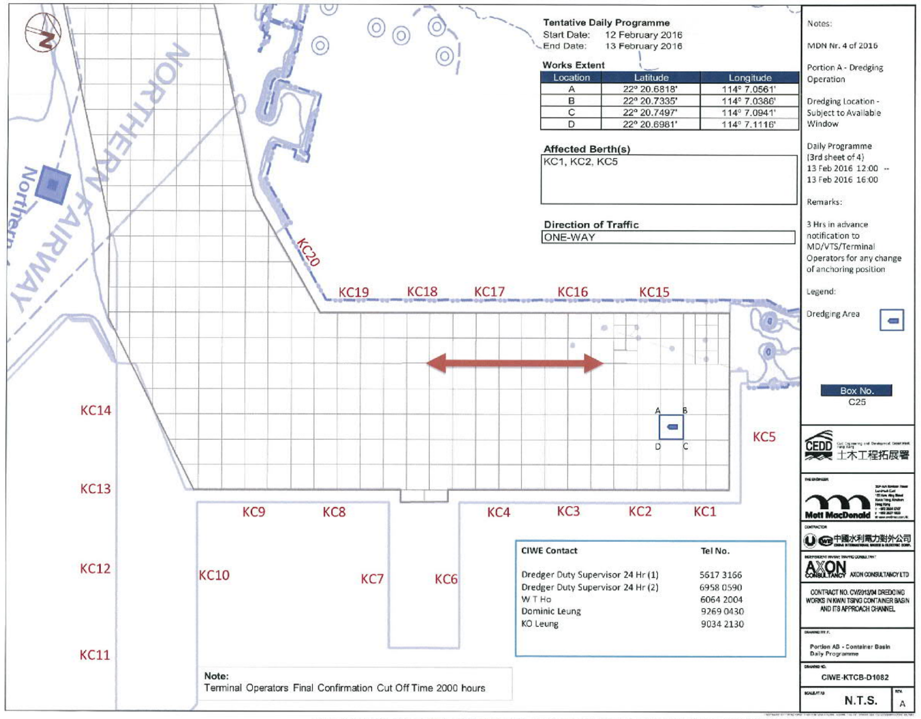

Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6818'	114° 7.0561'
B	22° 20.7335'	114° 7.0386'
C	22° 20.7497'	114° 7.0941'
D	22° 20.6981'	114° 7.1116'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme
(3rd sheet of 4)
13 Feb 2016 12:00 --
13 Feb 2016 16:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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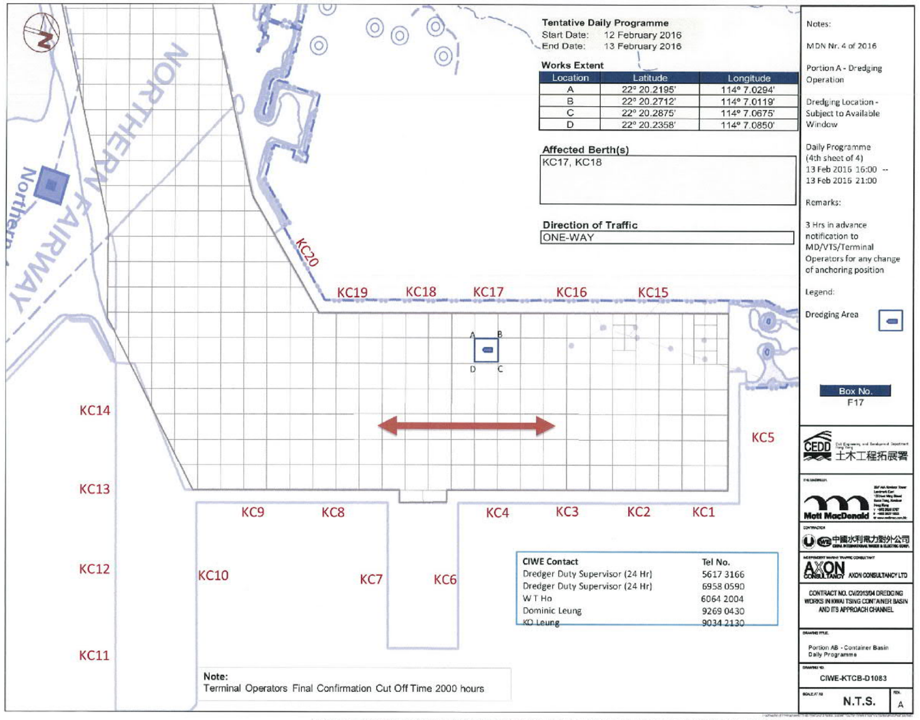

Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2195'	114° 7.0294'
B	22° 20.2712'	114° 7.0119'
C	22° 20.2875'	114° 7.0675'
D	22° 20.2358'	114° 7.0850'

Affected Berth(s)
KC17, KC18

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme
(4th sheet of 4)
13 Feb 2016 16:00 --
13 Feb 2016 21:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

CIWE Contact	Tel No.
Dredger Duty Supervisor (24 Hr)	5617 3166
Dredger Duty Supervisor (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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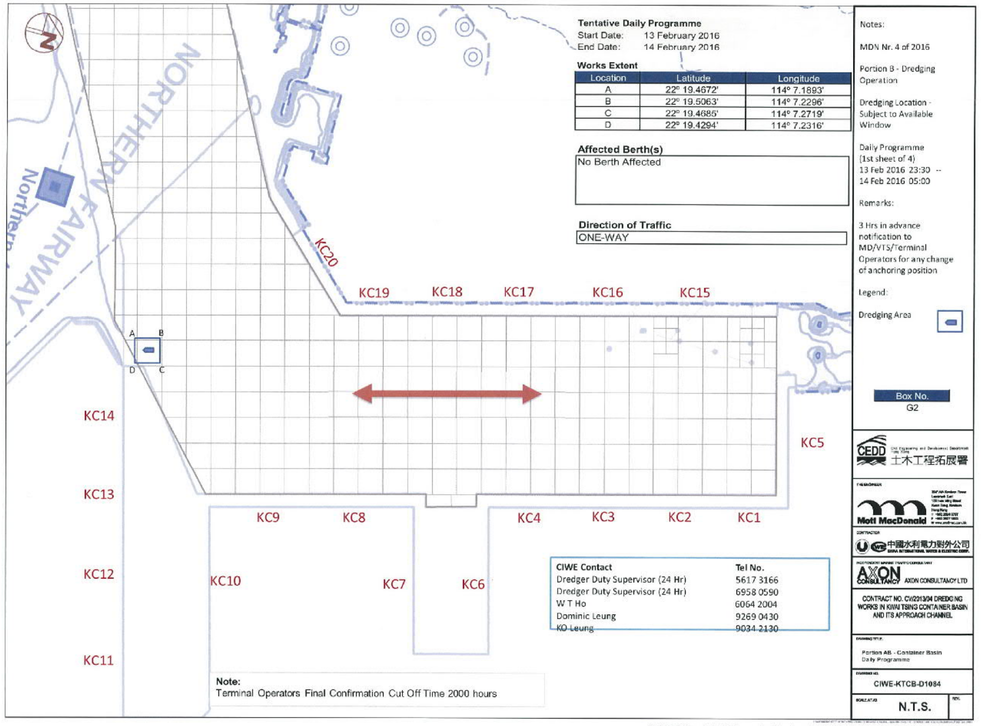


Tentative Daily Programme
Start Date: 13 February 2016
End Date: 14 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.4672'	114° 7.1893'
B	22° 19.5063'	114° 7.2296'
C	22° 19.4685'	114° 7.2719'
D	22° 19.4294'	114° 7.2316'

Affected Berth(s)
No Berth Affected

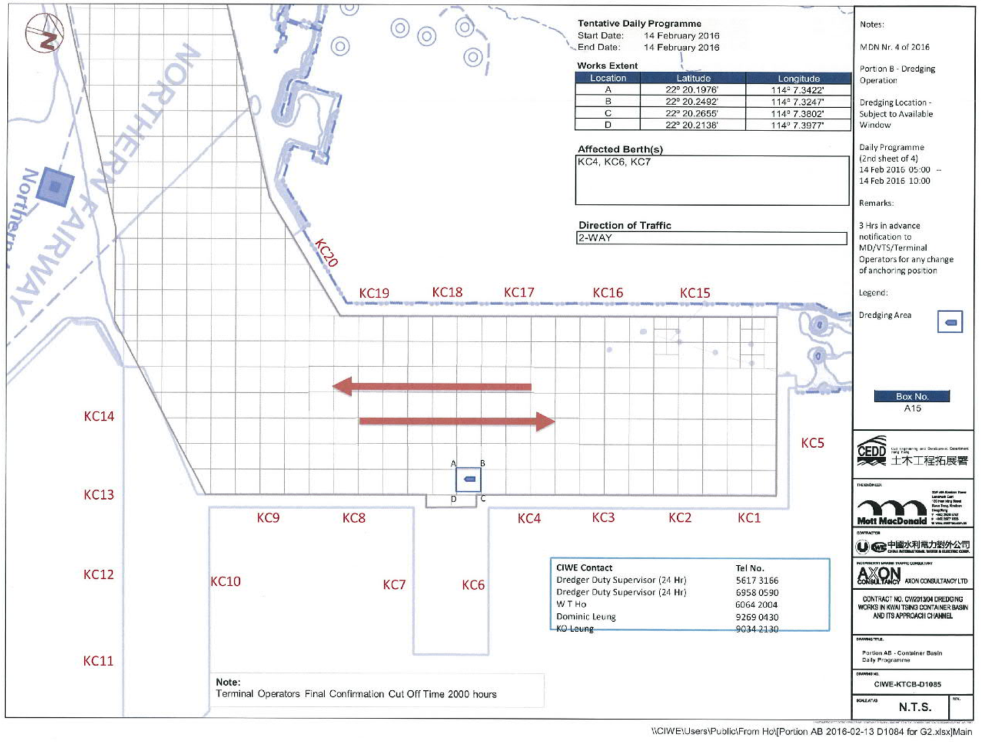
Direction of Traffic
ONE-WAY

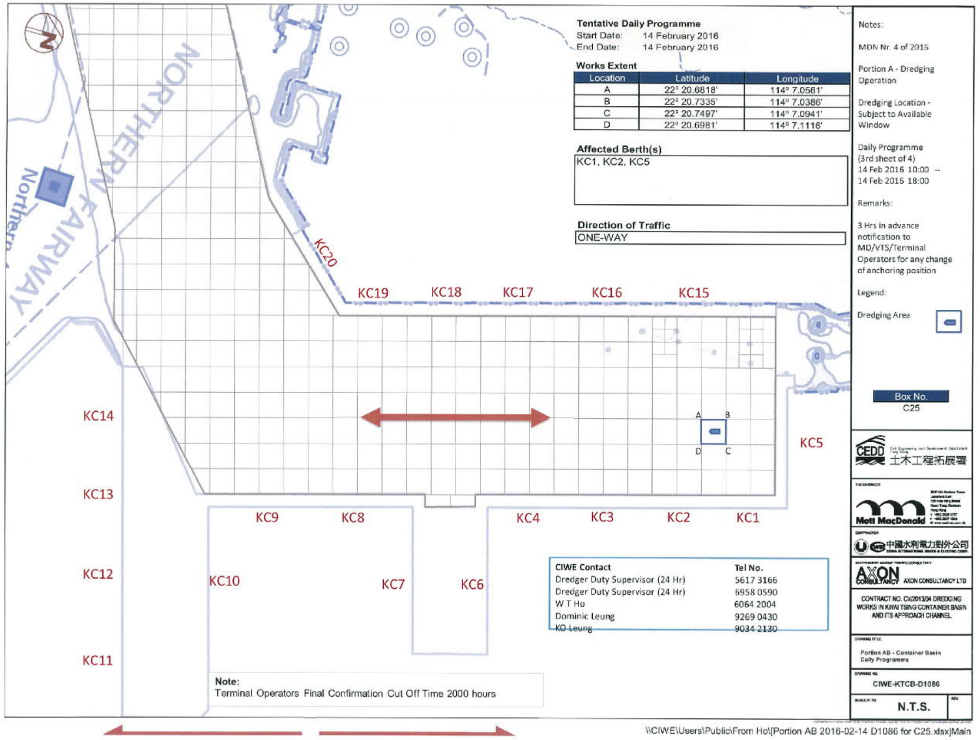
Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme
(1st sheet of 4)
13 Feb 2016 23:30 --
14 Feb 2016 05:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

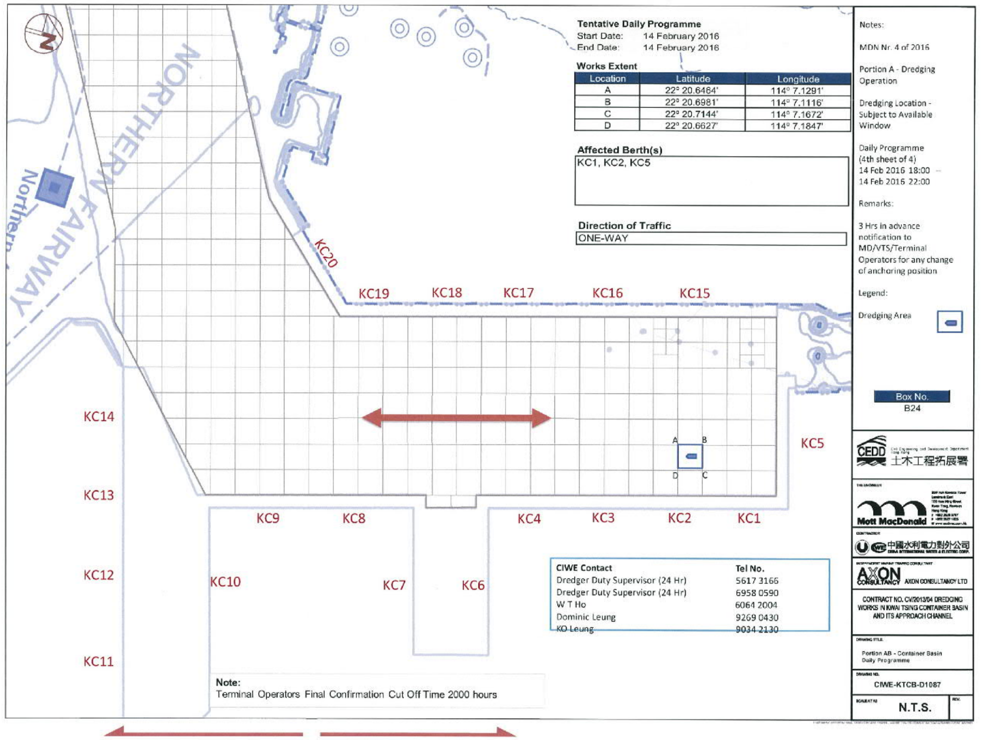
CIWE Contact	Tel No.
Dredger Duty Supervisor (24 Hr)	5617 3166
Dredger Duty Supervisor (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

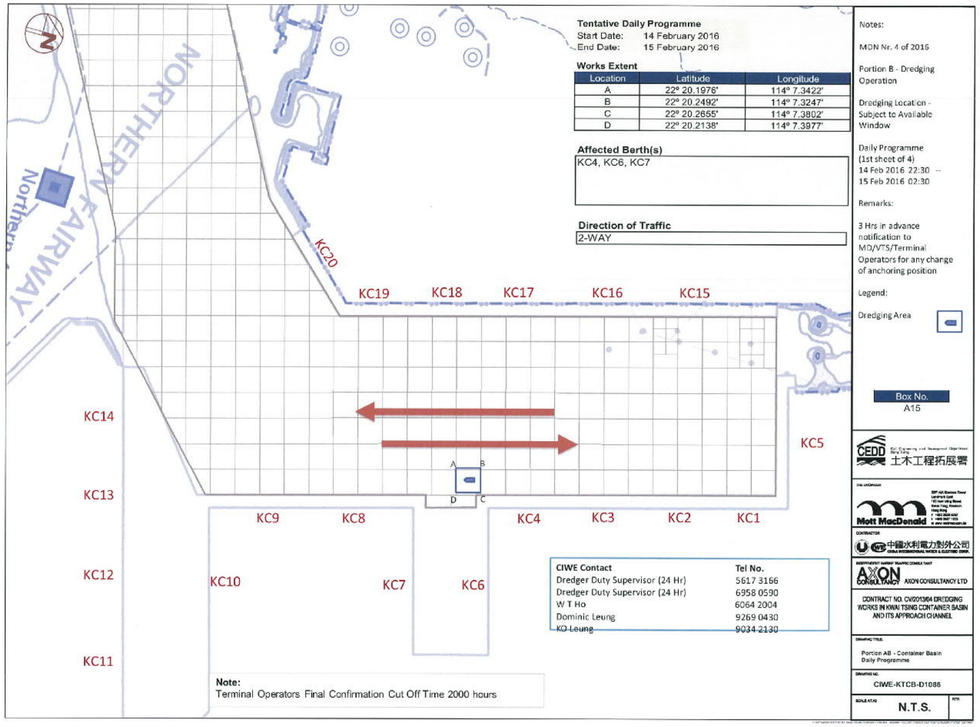
Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

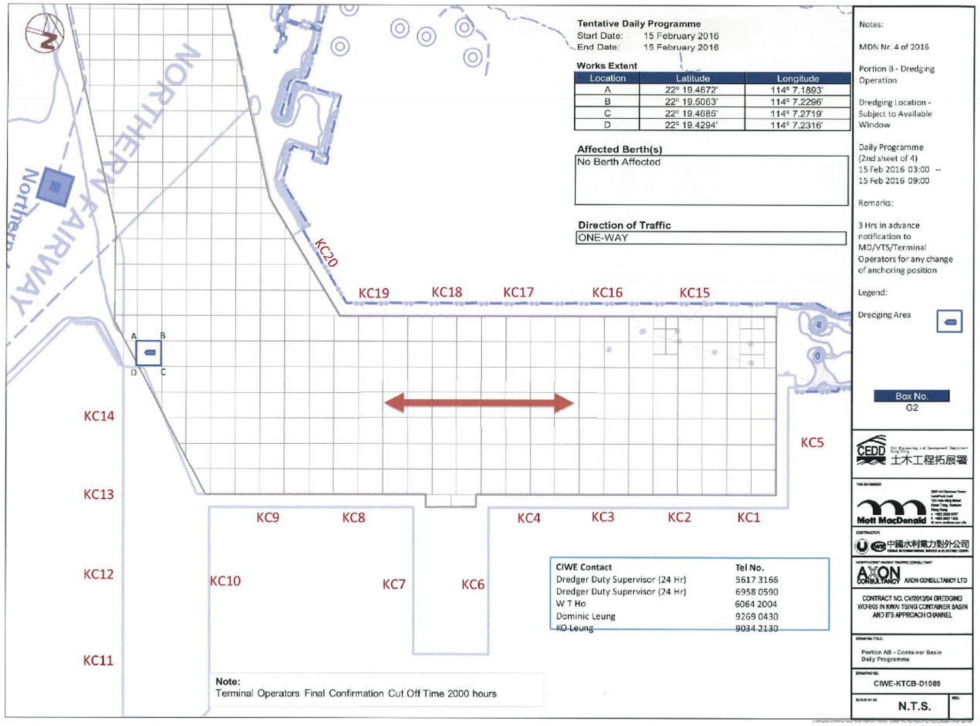
\\CIWE\Users\Public\From Ho\[Portion AB 2016-02-12 D1083 for F17.xlsx]Main

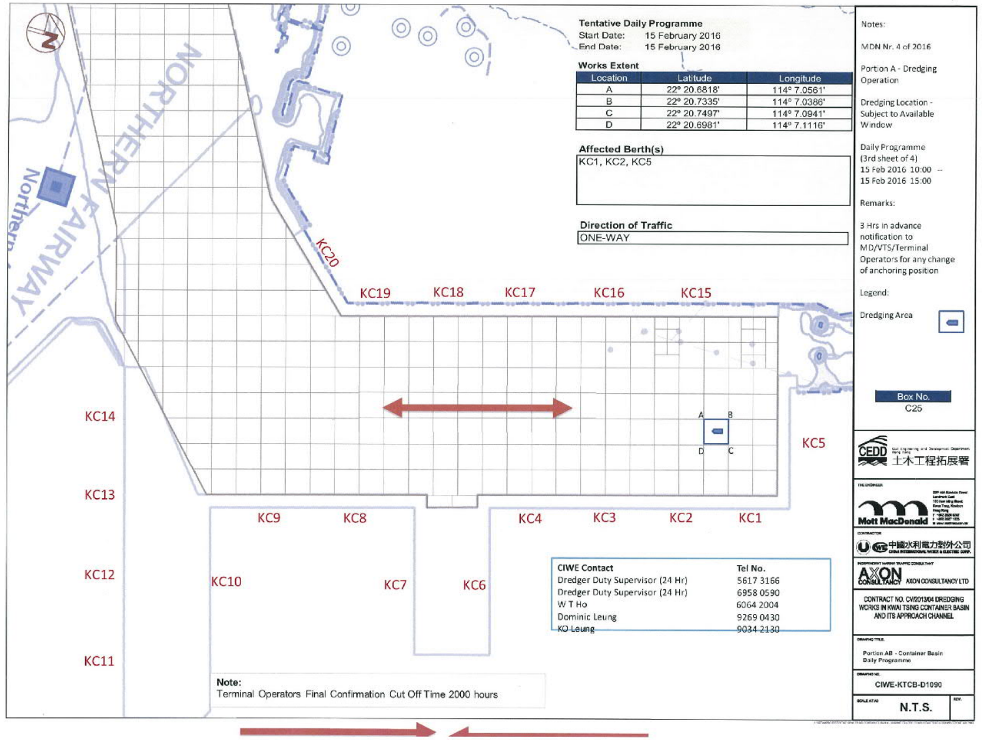

Tentative Daily Programme
Start Date: 14 February 2016
End Date: 14 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 20.1976' | 114° 7.3422'
B | 22° 20.2492' | 114° 7.3247'
C | 22° 20.2655' | 114° 7.3802'
D | 22° 20.2138' | 114° 7.3977'
Affected Berth(s)
KC4, KC6, KC7
Direction of Traffic
2-WAY
Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 4) 14 Feb 2016 05:00 -- 14 Feb 2016 10:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
A15
NORTHERN FAIRWAY
Northern
KC20
KC19
KC18
KC17
KC16
KC15
KC14
KC13
KC12
KC11
KC10
KC9
KC8
KC7
KC6
KC5
KC4
KC3
KC2
KC1
CIWE Contact | Tel No.
Dredger Duty Supervisor (24 Hr) | 5617 3166
Dredger Duty Supervisor (24 Hr) | 6958 0590
W T Ho | 6064 2004
Dominic Leung | 9269 0430
KO Leung | 9034 2130
Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1085
N.T.S.
\\CIWE\Users\Public\From Ho\[Portion AB 2016-02-13 D1084 for G2.xlsx]Main

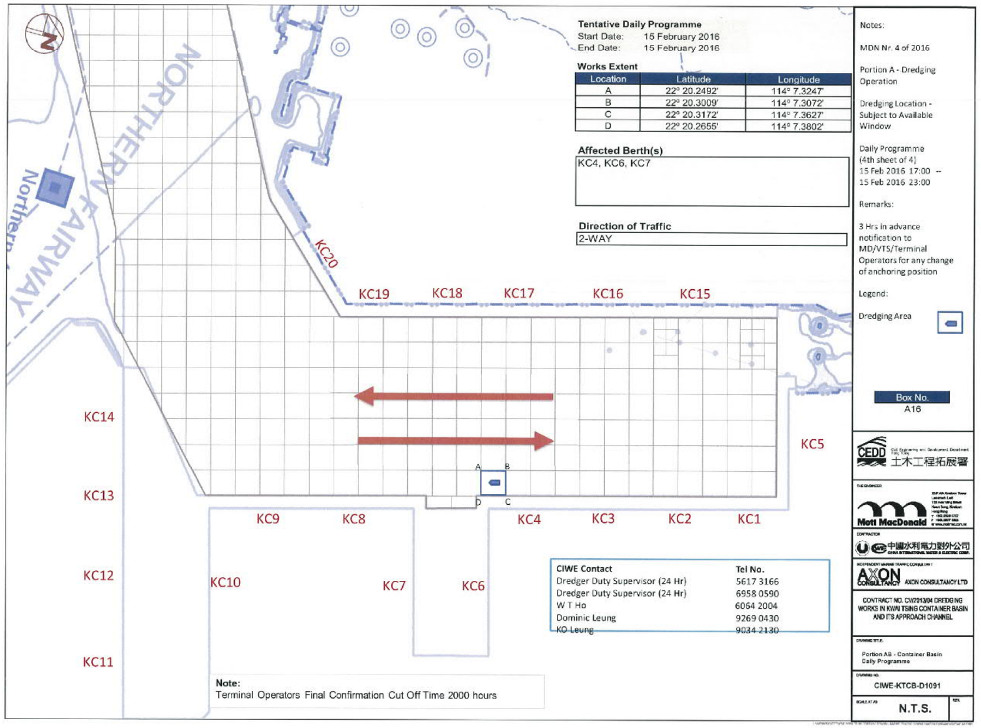

Tentative Daily Programme
Start Date: 14 February 2016
End Date: 14 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 20.6818' | 114° 7.0561'
B | 22° 20.7335' | 114° 7.0386'
C | 22° 20.7497' | 114° 7.0941'
D | 22° 20.6981' | 114° 7.1116'
Affected Berth(s)
KC1, KC2, KC5
Direction of Traffic
ONE-WAY
Notes:
MDN Nr. 4 of 2015
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 4) 14 Feb 2016 10:00 -- 14 Feb 2016 18:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
C25
NORTHERN FAIRWAY
Northern
KC20
KC19
KC18
KC17
KC16
KC15
KC14
KC13
KC12
KC11
KC10
KC9
KC8
KC7
KC6
KC5
KC4
KC3
KC2
KC1
CIWE Contact | Tel No.
Dredger Duty Supervisor (24 Hr) | 5617 3166
Dredger Duty Supervisor (24 Hr) | 6958 0590
W T Ho | 6064 2004
Dominic Leung | 9269 0430
KO Leung | 9034 2130
Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1086
N.T.S.
\\CIWE\Users\Public\From Ho\[Portion AB 2016-02-14 D1086 for C25.xlsx]Main

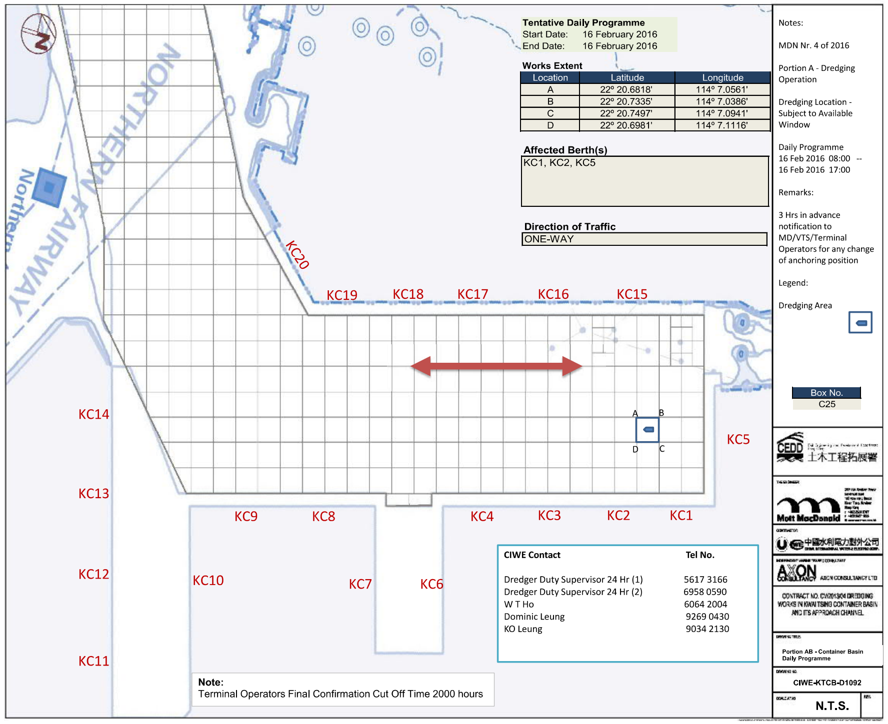

Tentative Daily Programme
Start Date: 14 February 2016
End Date: 14 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 20.6464' | 114° 7.1291'
B | 22° 20.6981' | 114° 7.1116'
C | 22° 20.7144' | 114° 7.1672'
D | 22° 20.6627' | 114° 7.1847'
Affected Berth(s)
KC1, KC2, KC5
Direction of Traffic
ONE-WAY
Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (4th sheet of 4) 14 Feb 2016 18:00 -- 14 Feb 2016 22:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
B24
NORTHERN FAIRWAY
Northern
KC20
KC19
KC18
KC17
KC16
KC15
KC14
KC13
KC12
KC11
KC10
KC9
KC8
KC7
KC6
KC5
KC4
KC3
KC2
KC1
CIWE Contact | Tel No.
Dredger Duty Supervisor (24 Hr) | 5617 3166
Dredger Duty Supervisor (24 Hr) | 6958 0590
W T Ho | 6064 2004
Dominic Leung | 9269 0430
KO Leung | 9034 2130
Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1087
N.T.S.


Tentative Daily Programme
Start Date: 14 February 2016
End Date: 15 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 20.1976' | 114° 7.3422'
B | 22° 20.2492' | 114° 7.3247'
C | 22° 20.2655' | 114° 7.3802'
D | 22° 20.2138' | 114° 7.3977'
Affected Berth(s)
KC4, KC6, KC7
Direction of Traffic
2-WAY
Notes:
MDN Nr. 4 of 2015
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (1st sheet of 4) 14 Feb 2016 22:30 -- 15 Feb 2016 02:30
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
A15
NORTHERN FAIRWAY
Northern
KC20
KC19
KC18
KC17
KC16
KC15
KC14
KC13
KC12
KC11
KC10
KC9
KC8
KC7
KC6
KC5
KC4
KC3
KC2
KC1
CIWE Contact | Tel No.
Dredger Duty Supervisor (24 Hr) | 5617 3166
Dredger Duty Supervisor (24 Hr) | 6958 0590
W T Ho | 6064 2004
Dominic Leung | 9269 0430
KO Leung | 9034 2130
Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1088
N.T.S.









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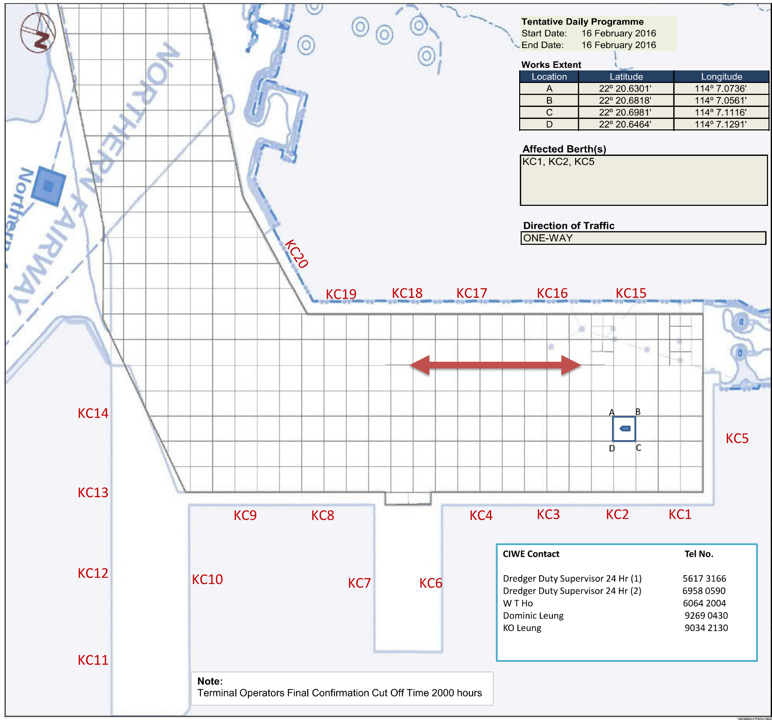


Tentative Daily Programme
Start Date: 16 February 2016
End Date: 16 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.6301'	114º 7.0736'
B	22º 20.6818'	114º 7.0561'
C	22º 20.6981'	114º 7.1116'
D	22º 20.6464'	114º 7.1291'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact — **Tel No.**

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
16 Feb 2016 18:00 --
16 Feb 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

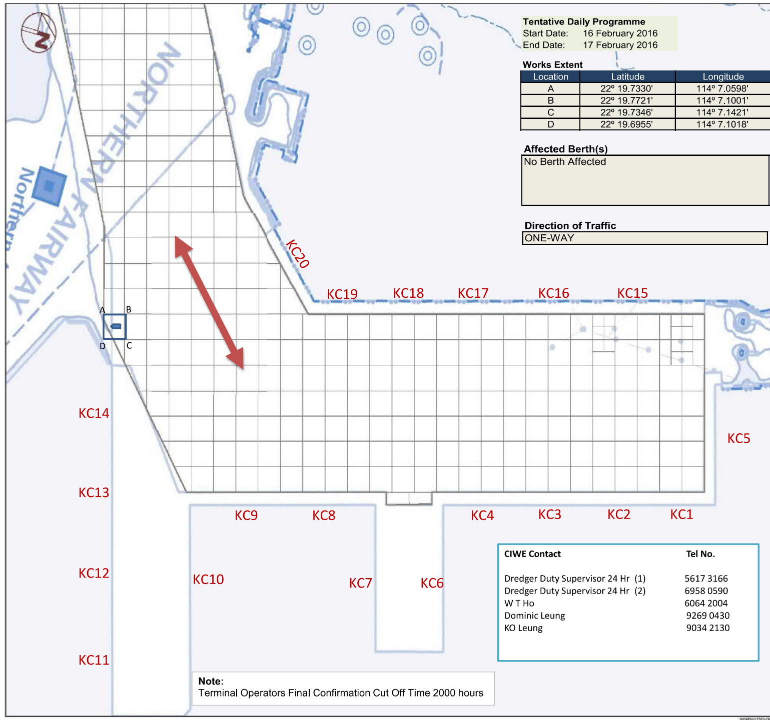
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1093

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-15 D1093 for C24.xlsx]Main



Tentative Daily Programme
Start Date: 16 February 2016
End Date: 17 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 19.7330'	114º 7.0598'
B	22º 19.7721'	114º 7.1001'
C	22º 19.7346'	114º 7.1421'
D	22º 19.6955'	114º 7.1018'

Affected Berth(s)
No Berth Affected

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window
(1st sheet of 3)
Daily Programme :
16 Feb 2016 23:00 --
17 Feb 2016 08:00
(pls note that a standby tug is standing by)

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
G1

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

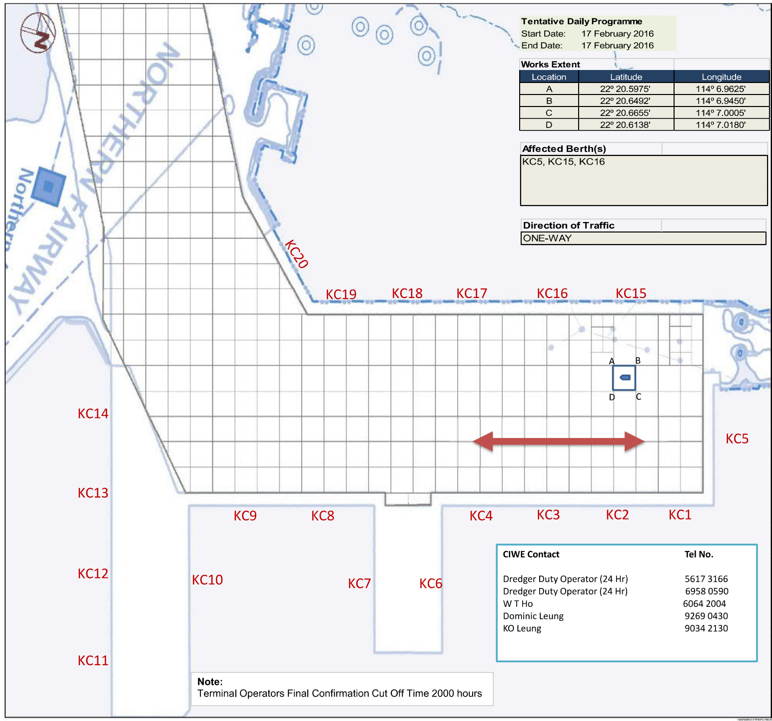
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1094

N.T.S.

A

C:\Users\CV201304\Desktop\新增資料夾\[Portion AB 2016-02-16 D1094 for G1.xlsx]Main



Tentative Daily Programme
Start Date: 17 February 2016
End Date: 17 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.5975'	114º 6.9625'
B	22º 20.6492'	114º 6.9450'
C	22º 20.6655'	114º 7.0005'
D	22º 20.6138'	114º 7.0180'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Operator (24 Hr)	5617 3166
Dredger Duty Operator (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window
(2nd sheet of 3)
Daily Programme
(1st sheet of 1)
17 July 2016 12:00 --
17 Feb 2016 16:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
E24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1095

N.T.S.

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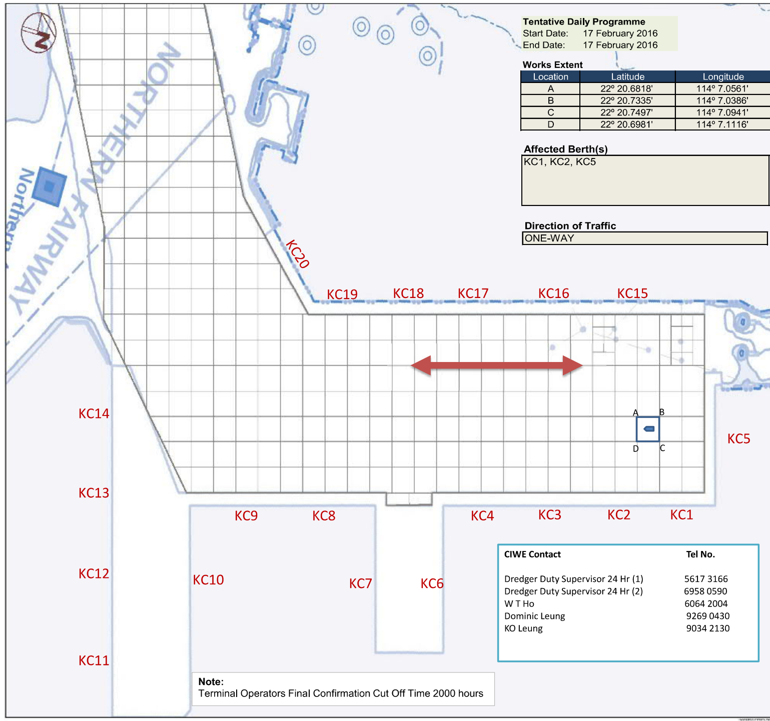


Tentative Daily Programme
Start Date: 17 February 2016
End Date: 17 February 2016

Works Extent

Location	Latitude	Longitude
A	22º 20.6818'	114º 7.0561'
B	22º 20.7335'	114º 7.0386'
C	22º 20.7497'	114º 7.0941'
D	22º 20.6981'	114º 7.1116'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window
(3rd sheet of 3)
Daily Programme

17 Feb 2016 16:00 --
17 Feb 2016 22:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C25

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

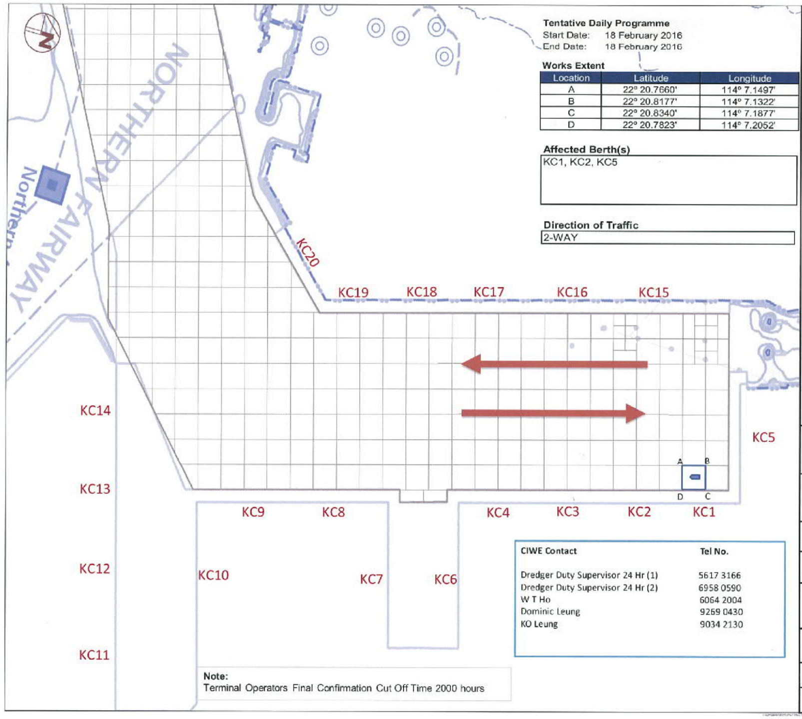
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1096

N.T.S.

C:\Users\CV201304\Desktop\新增資料夾\[Portion AB 2016-02-16 D1096 for C25.xlsx]Main



Tentative Daily Programme
Start Date: 18 February 2016
End Date: 18 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7660'	114° 7.1497'
B	22° 20.8177'	114° 7.1322'
C	22° 20.8340'	114° 7.1877'
D	22° 20.7823'	114° 7.2052'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st of sheet 2)
18 Feb 2016 08:30 --
18 Feb 2016 13:30

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A26

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

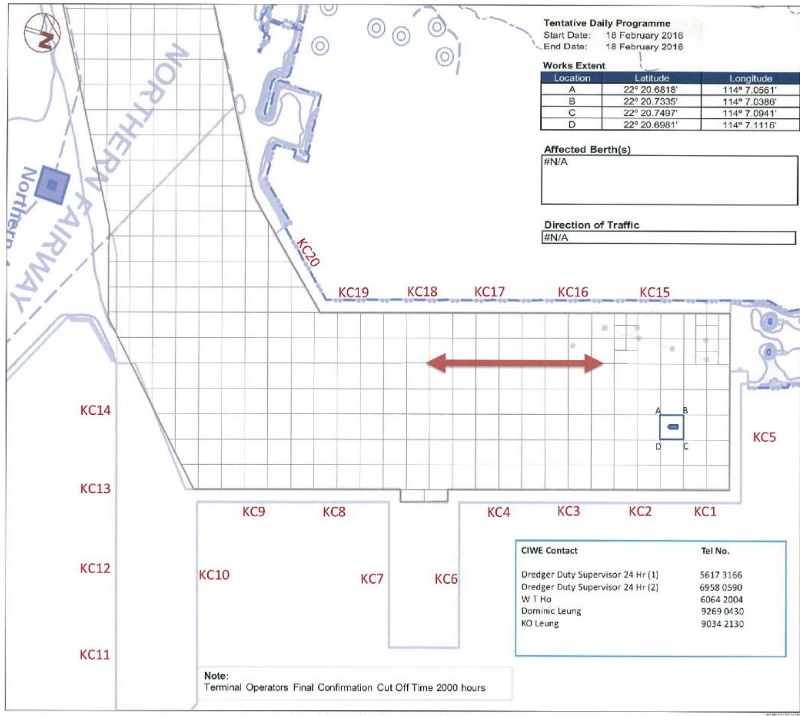
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1097

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-17 D1097 for A26.xlsx]Main



Tentative Daily Programme
Start Date: 18 February 2016
End Date: 18 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6818'	114° 7.0561'
B	22° 20.7335'	114° 7.0386'
C	22° 20.7497'	114° 7.0941'
D	22° 20.6981'	114° 7.1116'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 2)
18 Feb 2016 13:30 --
18 Feb 2016 18:30

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C25 to C24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1098

N.T.S.

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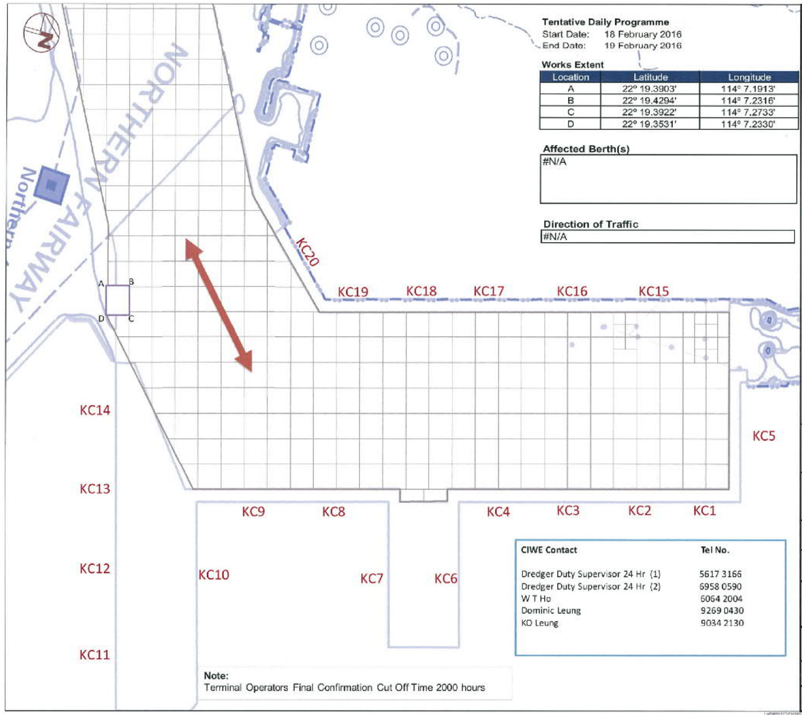

Tentative Daily Programme
Start Date: 18 February 2016
End Date: 19 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.3903'	114° 7.1913'
B	22° 19.4294'	114° 7.2316'
C	22° 19.3922'	114° 7.2733'
D	22° 19.3531'	114° 7.2330'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 3)
18 Feb 2016 20:30 --
19 Feb 2016 09:00
(pls note that a standby tug is standing by)

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
H1 to H2

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1099

N.T.S.

A

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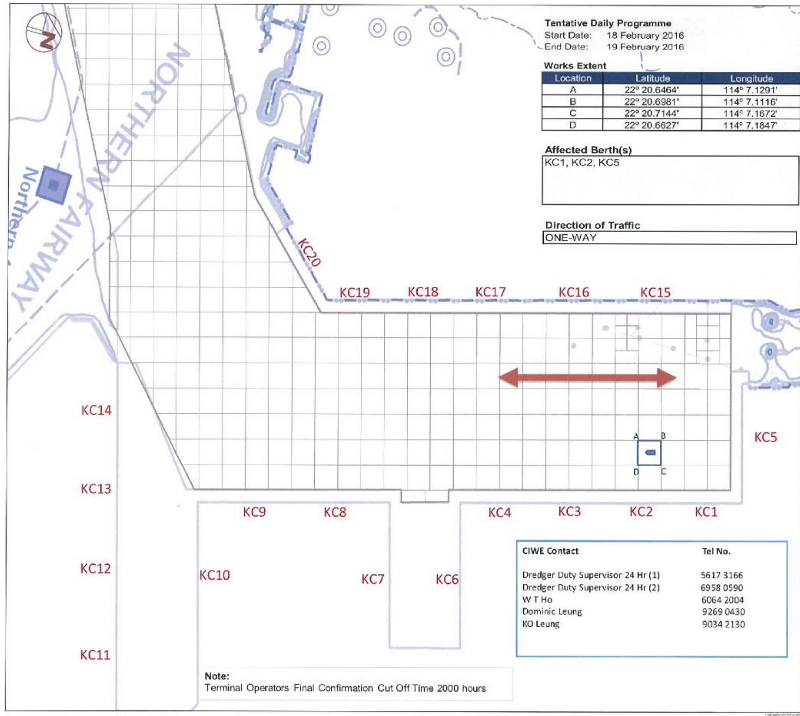

Tentative Daily Programme
Start Date: 18 February 2016
End Date: 19 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6464'	114° 7.1291'
B	22° 20.6981'	114° 7.1116'
C	22° 20.7144'	114° 7.1672'
D	22° 20.6627'	114° 7.1847'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 3)
19 Feb 2016 09:00 --
19 Feb 2016 13:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
B24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1100

N.T.S.

A

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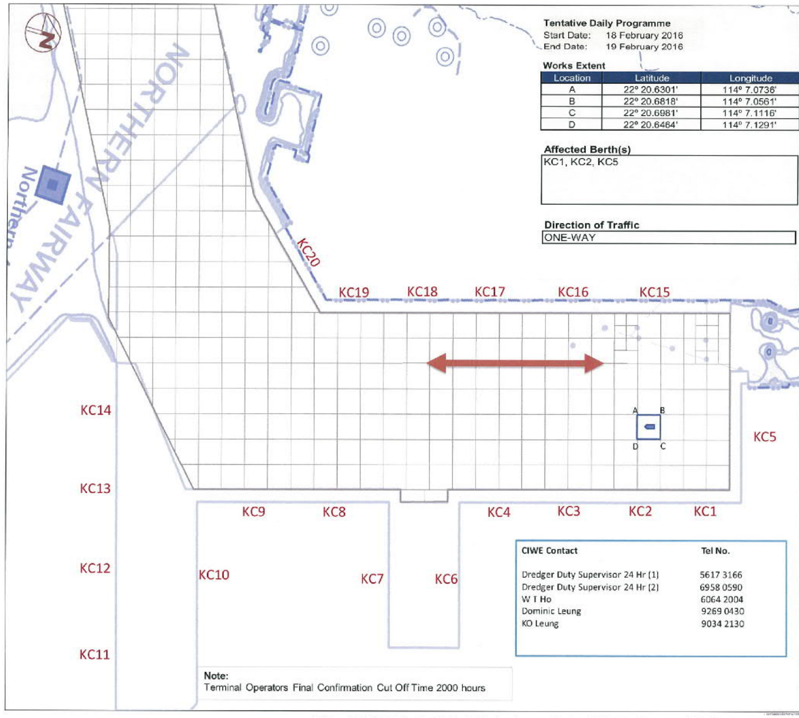

Tentative Daily Programme
Start Date: 18 February 2016
End Date: 19 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6301'	114° 7.0736'
B	22° 20.6818'	114° 7.0561'
C	22° 20.6981'	114° 7.1116'
D	22° 20.6464'	114° 7.1291'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(3rd sheet of 3)
19 Feb 2016 14:00 --
19 Feb 2016 20:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1101

N.T.S.

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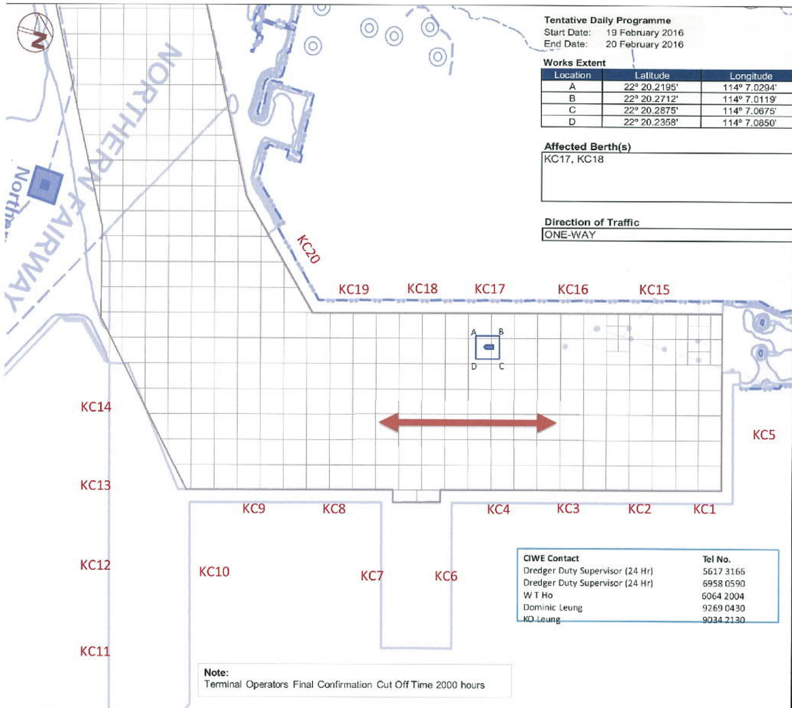

Tentative Daily Programme
Start Date: 19 February 2016
End Date: 20 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2195'	114° 7.0294'
B	22° 20.2712'	114° 7.0119'
C	22° 20.2875'	114° 7.0675'
D	22° 20.2358'	114° 7.0850'

Affected Berth(s)
KC17, KC18

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor (24 Hr)	5617 3166
Dredger Duty Supervisor (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 2)
20 Feb 2016 10:00 --
20 Feb 2016 19:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F17

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1102

N.T.S.

A

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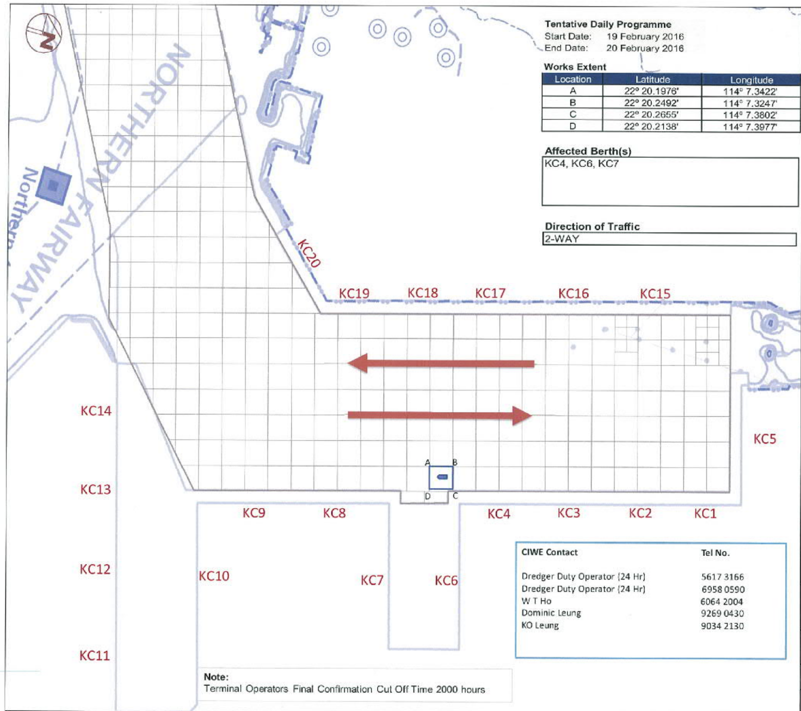

Tentative Daily Programme
Start Date: 19 February 2016
End Date: 20 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.1976'	114° 7.3422'
B	22° 20.2492'	114° 7.3247'
C	22° 20.2655'	114° 7.3802'
D	22° 20.2138'	114° 7.3977'

Affected Berth(s)
KC4, KC6, KC7

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Operator (24 Hr)	5617 3166
Dredger Duty Operator (24 Hr)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 2)
19 Feb 2016 22:00 --
20 Feb 2016 04:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A15

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1101

N.T.S.

A

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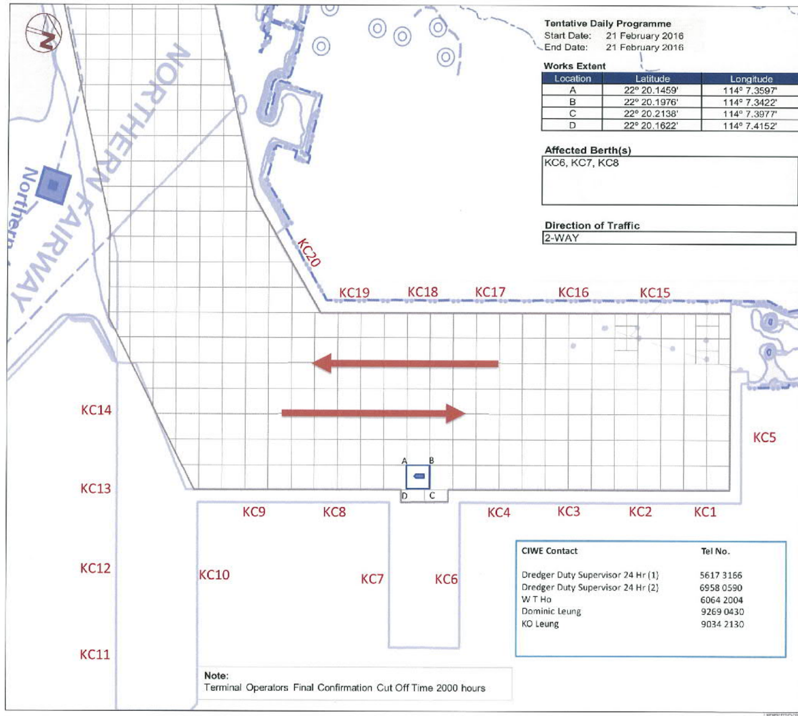

Tentative Daily Programme
Start Date: 21 February 2016
End Date: 21 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.1459'	114° 7.3597'
B	22° 20.1976'	114° 7.3422'
C	22° 20.2138'	114° 7.3977'
D	22° 20.1622'	114° 7.4152'

Affected Berth(s)
KC6, KC7, KC8

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location -

Daily Programme:
(1st sheet of 3)
21 Feb 2016 00:01 --
21 Feb 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A14

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1104

N.T.S.

A

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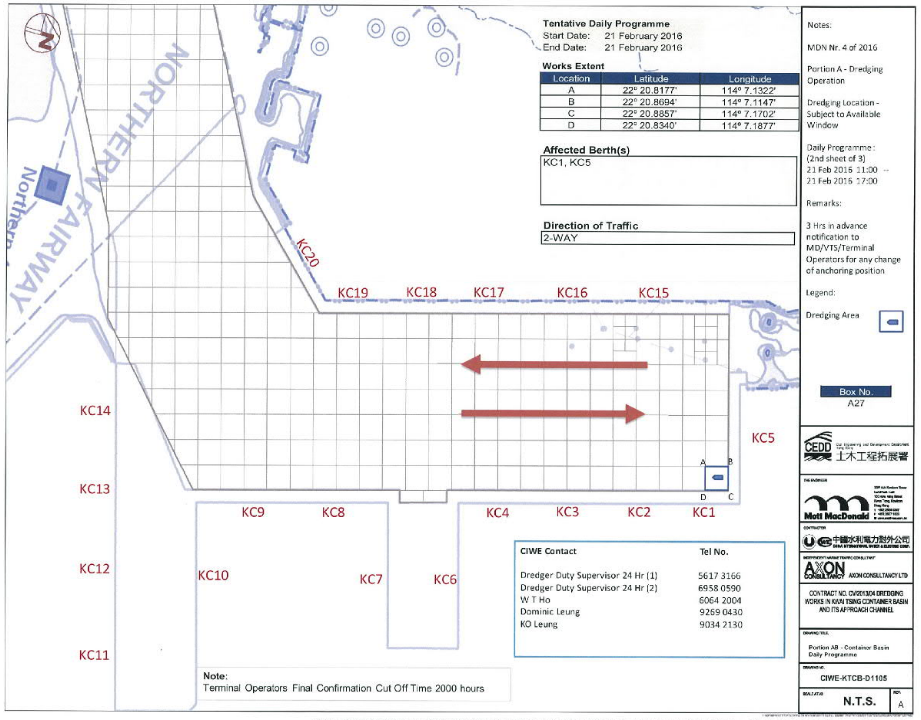

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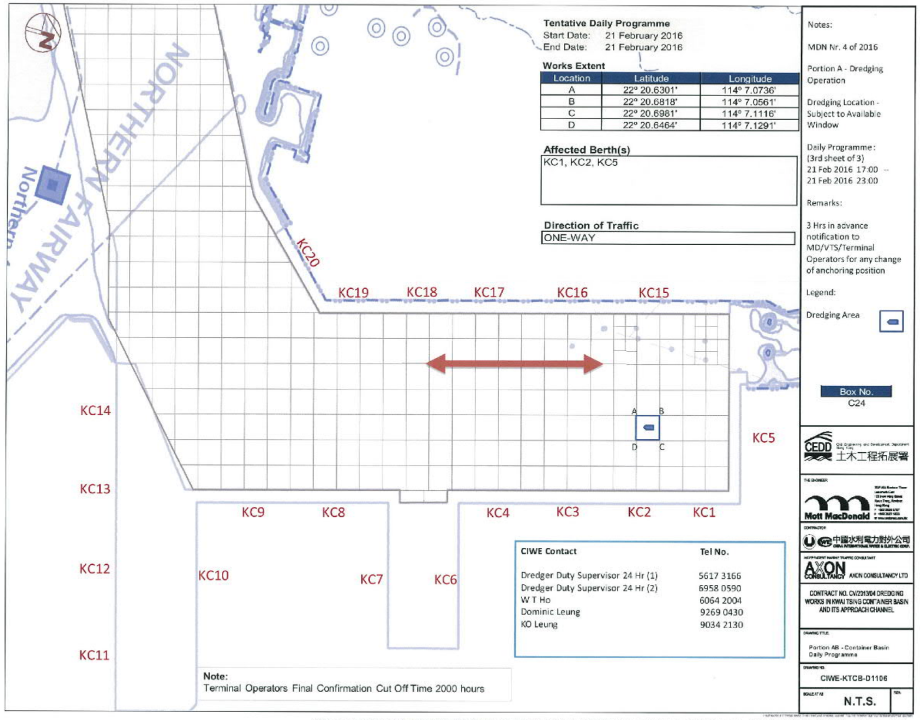

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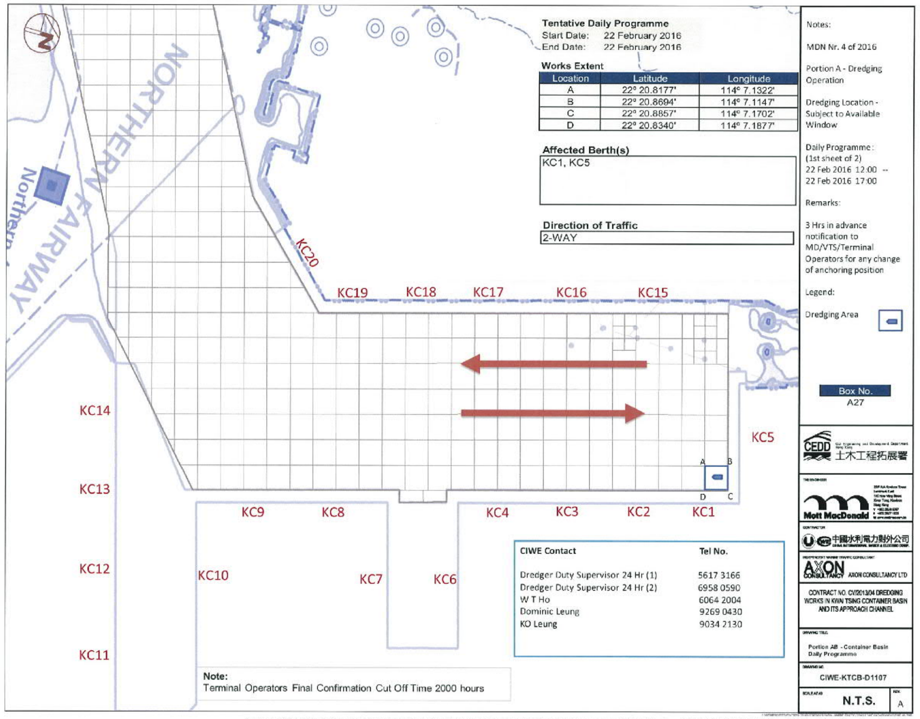
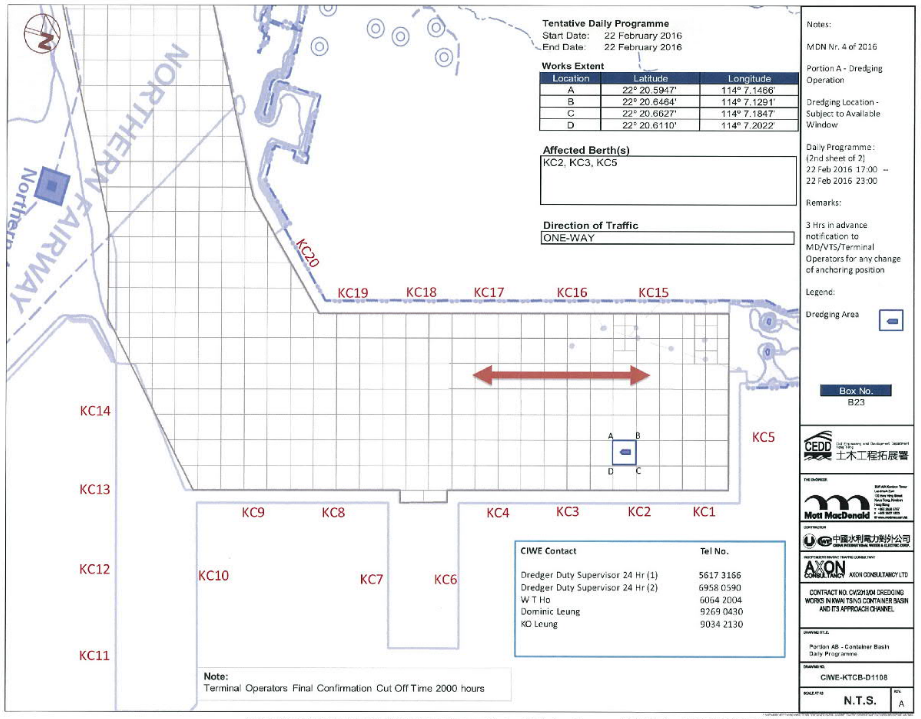
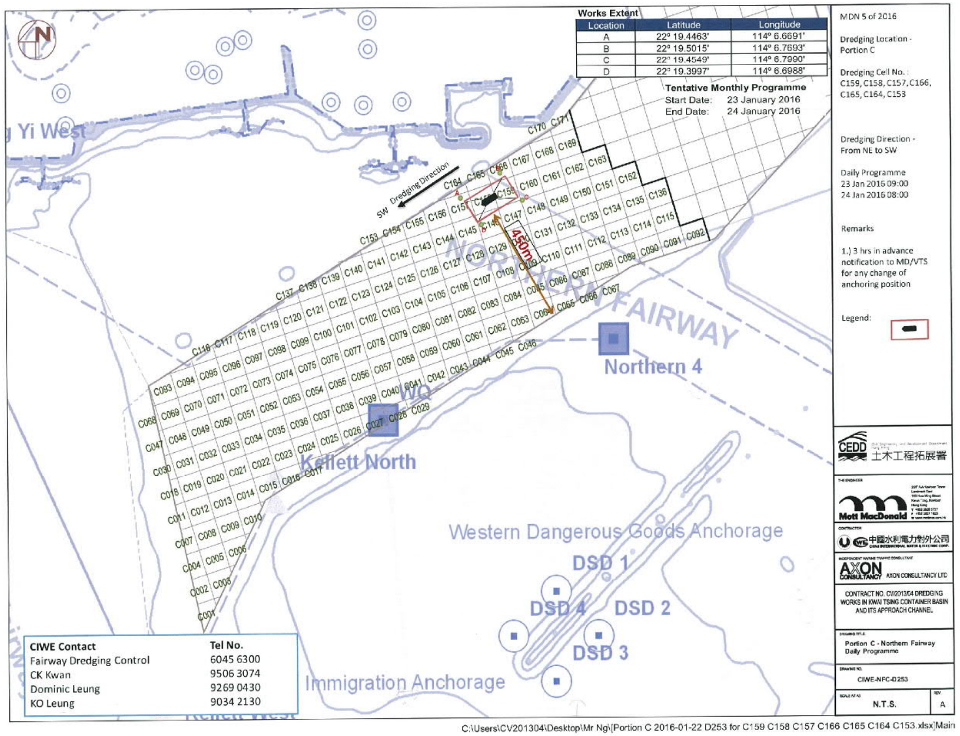


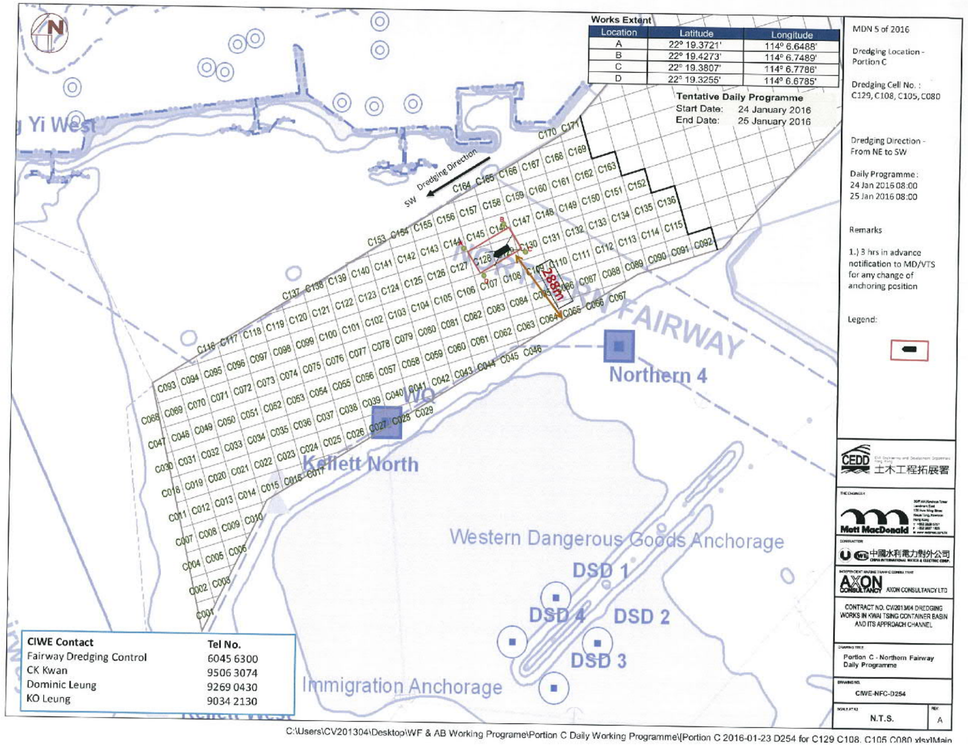
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-20 D1107 for A27 for 21st Sunday.xlsx]Main



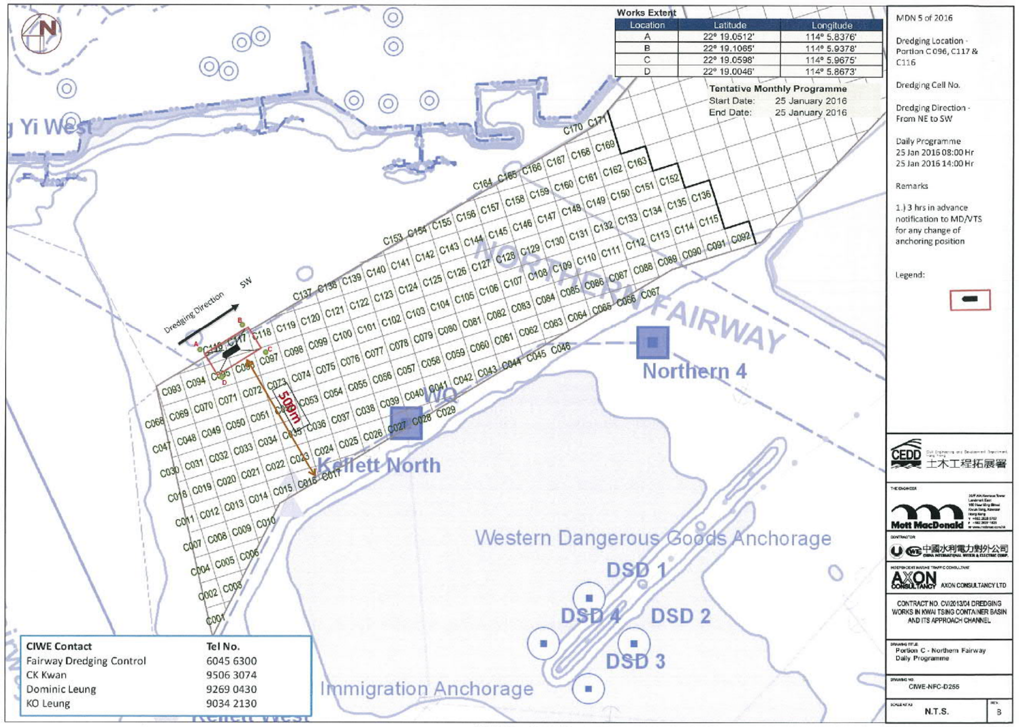
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-20 D1108 for B23 for 21st Sunday.xlsx]Main



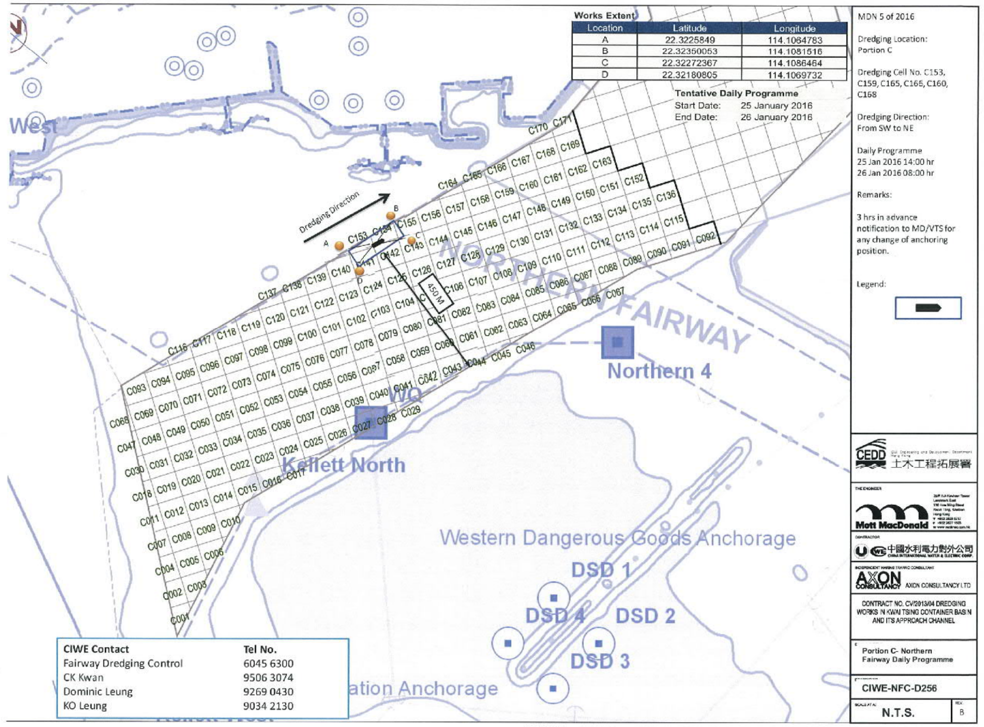
C:\Users\CV201304\Desktop\Mr Ng\[Portion C 2016-01-22 D253 for C159 C158 C157 C166 C165 C164 C153.xlsx]Main



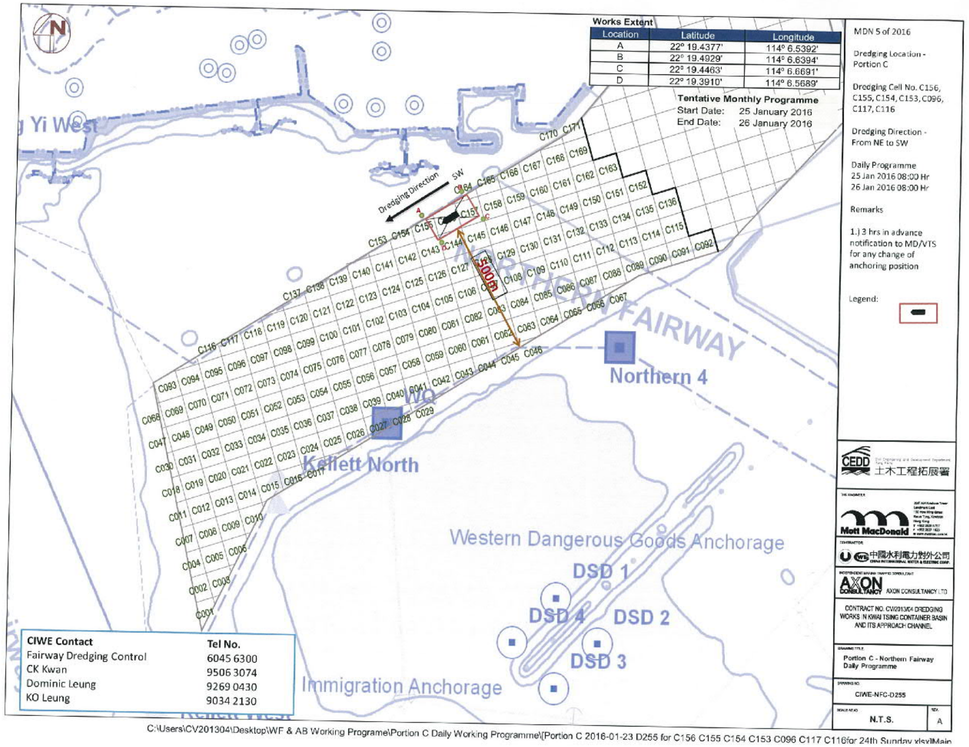
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-01-23 D254 for C129 C108. C105 C080.xlsx]Main

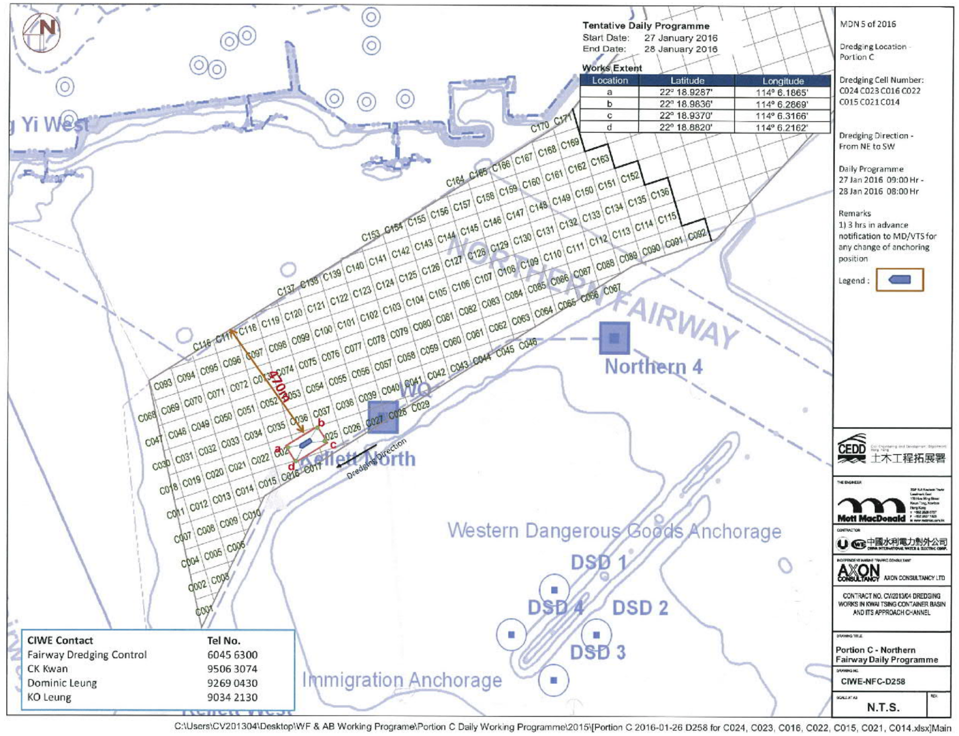


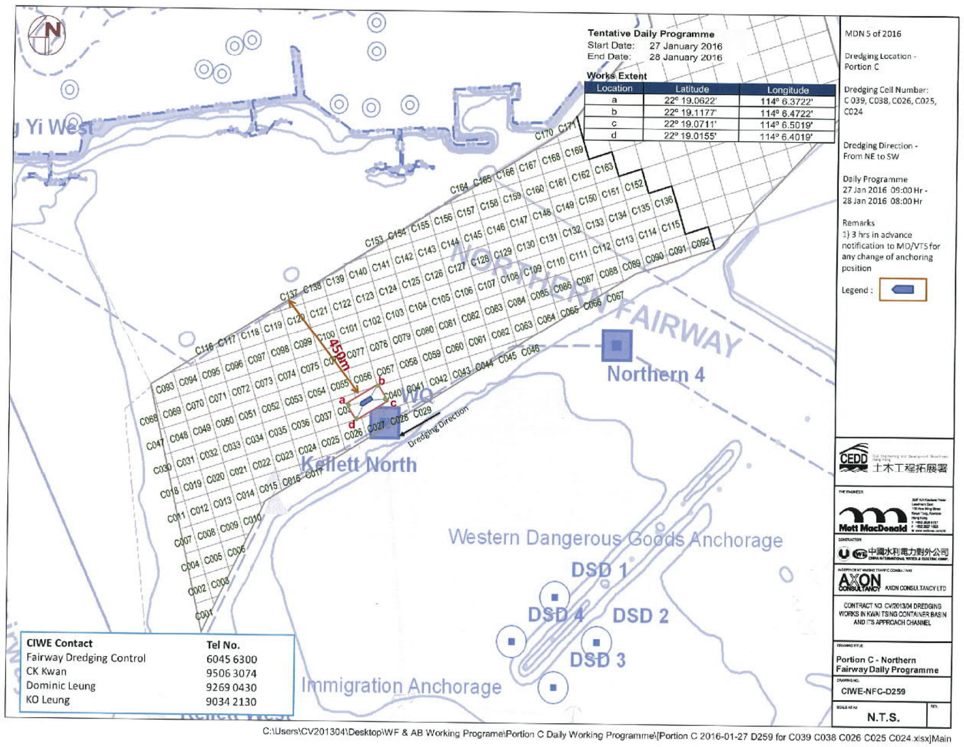
\\CIWE\Users\Public\From Ho\[Portion C 2016-01-23 D255 for C156 C155 C154 C153 C096 C117 C116for 24th Sunday.xlsx]Main

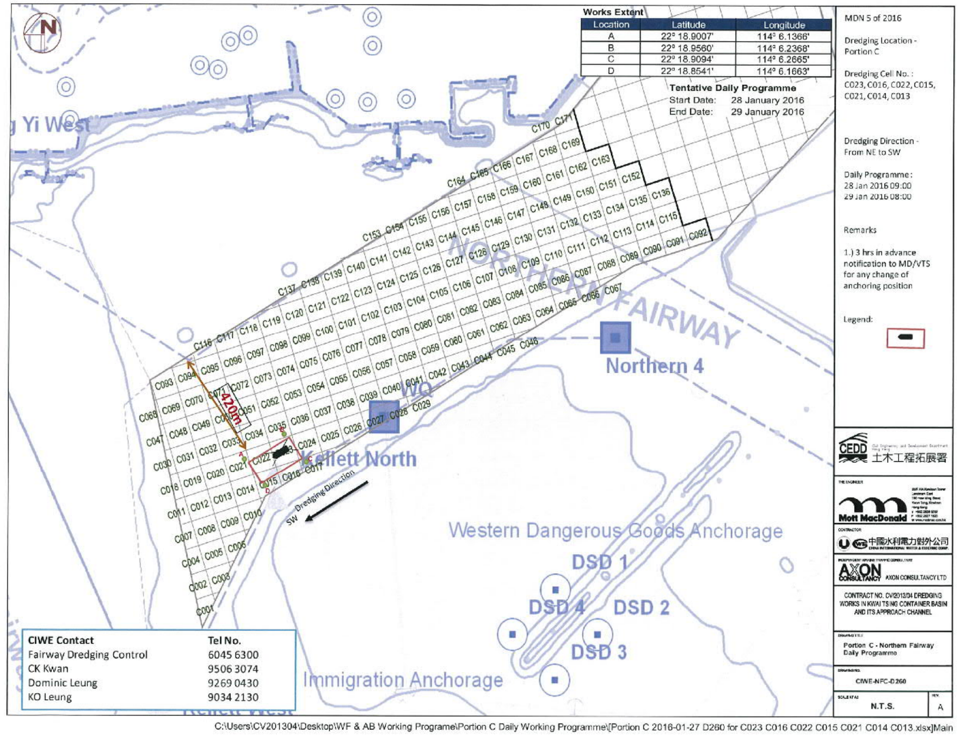


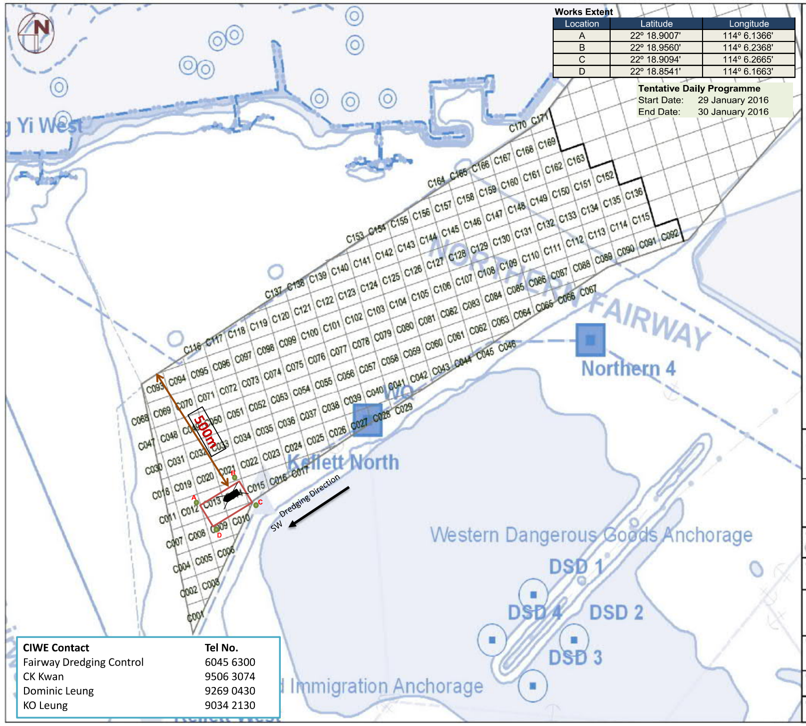
\\CIWE\Users\Public\From Ho\[Portion C 2016-01-25 D256 for C153 C159 C165 C166 C160 C168 R.xlsx]Main


Works Extent
Location Latitude Longitude
A 22° 19.4377' 114° 6.5392'
B 22° 19.4929' 114° 6.6394'
C 22° 19.4463' 114° 6.6691'
D 22° 19.3910' 114° 6.5689'
Tentative Monthly Programme
Start Date: 25 January 2016
End Date: 26 January 2016
MDN 5 of 2016
Dredging Location - Portion C
Dredging Cell No. C156, C155, C154, C153, C096, C117, C116
Dredging Direction - From NE to SW
Daily Programme
25 Jan 2016 08:00 Hr
26 Jan 2016 08:00 Hr
Remarks
1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position
Legend:
Yi West
Dredging Direction
SW
500m
FAIRWAY
Northern 4
Kellett North
Western Dangerous Goods Anchorage
DSD 1
DSD 4
DSD 2
DSD 3
Immigration Anchorage
CIWE Contact Tel No.
Fairway Dredging Control 6045 6300
CK Kwan 9506 3074
Dominic Leung 9269 0430
KO Leung 9034 2130
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D255
N.T.S.
A
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-01-23 D255 for C156 C155 C154 C153 C096 C117 C116for 24th Sunday.xlsx]Main


Tentative Daily Programme
Start Date: 27 January 2016
End Date: 28 January 2016
Works Extent
Location Latitude Longitude
a 22° 18.9287' 114° 6.1665'
b 22° 18.9836' 114° 6.2669'
c 22° 18.9370' 114° 6.3166'
d 22° 18.8820' 114° 6.2162'
MDN 5 of 2016
Dredging Location - Portion C
Dredging Cell Number: C024 C023 C016 C022 C015 C021 C014
Dredging Direction - From NE to SW
Daily Programme
27 Jan 2016 09:00 Hr -
28 Jan 2016 08:00 Hr
Remarks
1) 3 hrs in advance notification to MD/VTS for any change of anchoring position
Legend:
Yi West
470m
Dredging Direction
FAIRWAY
Northern 4
Kellett North
Western Dangerous Goods Anchorage
DSD 1
DSD 4
DSD 2
DSD 3
Immigration Anchorage
CIWE Contact Tel No.
Fairway Dredging Control 6045 6300
CK Kwan 9506 3074
Dominic Leung 9269 0430
KO Leung 9034 2130
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D258
N.T.S.
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\2015\[Portion C 2016-01-26 D258 for C024, C023, C016, C022, C015, C021, C014.xlsx]Main


Tentative Daily Programme
Start Date: 27 January 2016
End Date: 28 January 2016
Works Extent
Location Latitude Longitude
a 22° 19.0622' 114° 6.3722'
b 22° 19.1177' 114° 6.4722'
c 22° 19.0711' 114° 6.5019'
d 22° 19.0155' 114° 6.4019'
MDN 5 of 2016
Dredging Location - Portion C
Dredging Cell Number: C039, C038, C026, C025, C024
Dredging Direction - From NE to SW
Daily Programme
27 Jan 2016 09:00 Hr -
28 Jan 2016 08:00 Hr
Remarks
1) 3 hrs in advance notification to MD/VTS for any change of anchoring position
Legend:
Yi West
450m
Dredging Direction
FAIRWAY
Northern 4
Kellett North
Western Dangerous Goods Anchorage
DSD 1
DSD 4
DSD 2
DSD 3
Immigration Anchorage
CIWE Contact Tel No.
Fairway Dredging Control 6045 6300
CK Kwan 9506 3074
Dominic Leung 9269 0430
KO Leung 9034 2130
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D259
N.T.S.
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-01-27 D259 for C039 C038 C026 C025 C024.xlsx]Main


Works Extent
Location Latitude Longitude
A 22° 18.9007' 114° 6.1366'
B 22° 18.9560' 114° 6.2368'
C 22° 18.9094' 114° 6.2665'
D 22° 18.8541' 114° 6.1663'
Tentative Daily Programme
Start Date: 28 January 2016
End Date: 29 January 2016
MDN 5 of 2016
Dredging Location - Portion C
Dredging Cell No. : C023, C016, C022, C015, C021, C014, C013
Dredging Direction - From NE to SW
Daily Programme :
28 Jan 2016 09:00
29 Jan 2016 08:00
Remarks
1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position
Legend:
Yi West
420m
Dredging Direction
SW
FAIRWAY
Northern 4
Kellett North
Western Dangerous Goods Anchorage
DSD 1
DSD 4
DSD 2
DSD 3
Immigration Anchorage
CIWE Contact Tel No.
Fairway Dredging Control 6045 6300
CK Kwan 9506 3074
Dominic Leung 9269 0430
KO Leung 9034 2130
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D260
N.T.S.
A
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-01-27 D260 for C023 C016 C022 C015 C021 C014 C013.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 18.9007'	114° 6.1366'
B	22° 18.9560'	114° 6.2368'
C	22° 18.9094'	114° 6.2665'
D	22° 18.8541'	114° 6.1663'

Tentative Daily Programme
Start Date: 29 January 2016
End Date: 30 January 2016

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C014, C013, C010, C009, C006

Dredging Direction - From NE to SW

Daily Programme :
29 Jan 2016 09:00
30 Jan 2016 08:00

Remarks

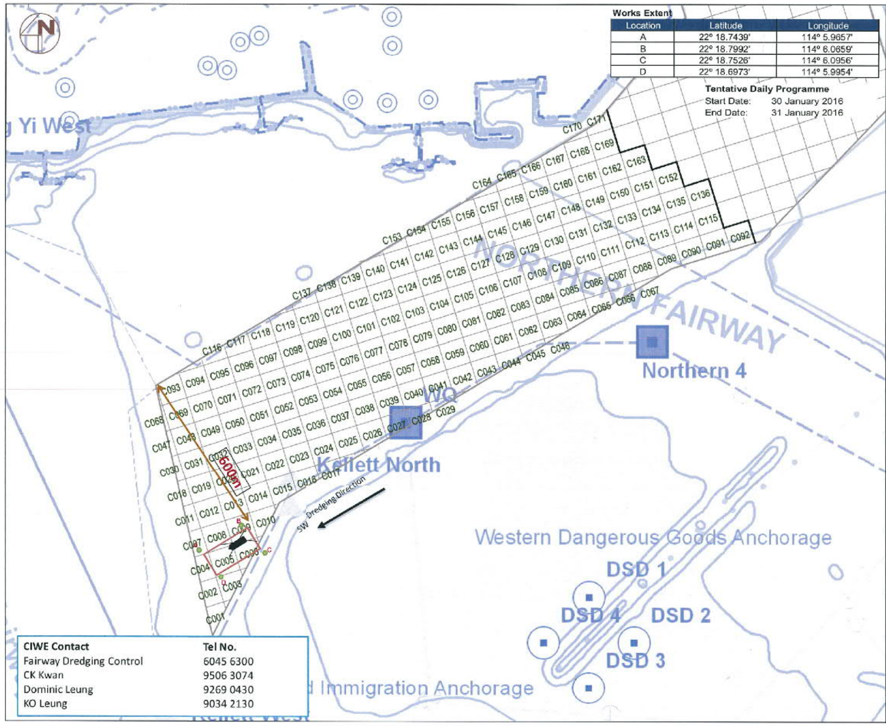
1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CIWE Contact	Tel No.
Fairway Dredging Control	6045 6300
CK Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D261
N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-01-28 D261 for C014 C013 C010 C009 C006.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 18.7439'	114° 5.9657'
B	22° 18.7992'	114° 6.0659'
C	22° 18.7526'	114° 6.0956'
D	22° 18.6973'	114° 5.9954'

Tentative Daily Programme
Start Date: 30 January 2016
End Date: 31 January 2016

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C001, C002, C003, C005

Dredging Direction - From NE to SW

Daily Programme :
30 Jan 2016 09:00
31 Jan 2016 08:00

Remarks

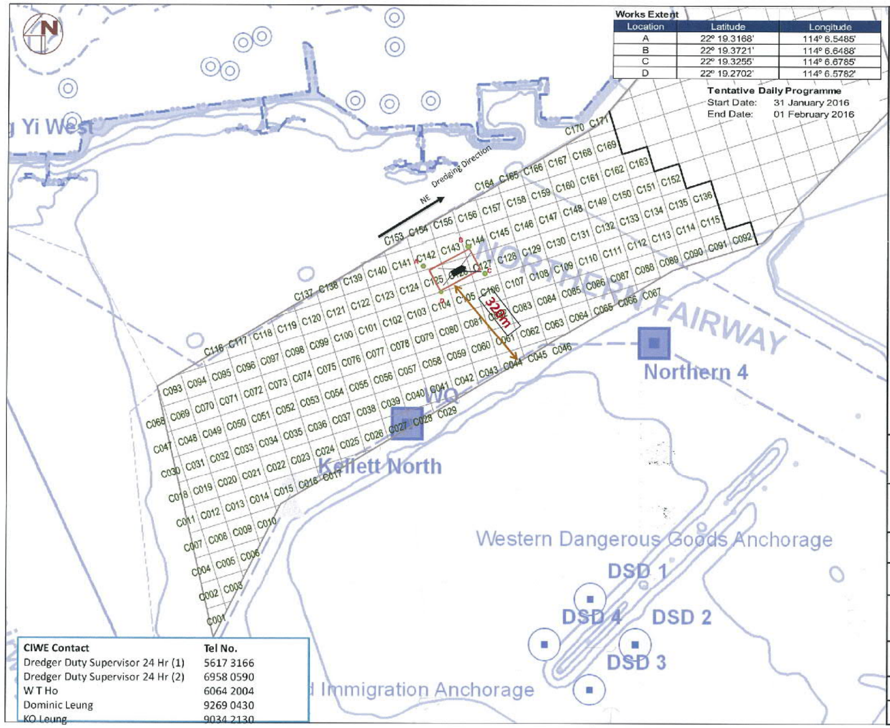
1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CIWE Contact	Tel No.
Fairway Dredging Control	6045 6300
CK Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D262
N.T.S.

\\CIWE\Users\Public\From Ho\[Portion C 2016-01-29 D262 for C001 C002 C003 C005.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3168'	114° 6.5485'
B	22° 19.3721'	114° 6.6488'
C	22° 19.3255'	114° 6.6785'
D	22° 19.2702'	114° 6.5782'

Tentative Daily Programme
Start Date: 31 January 2016
End Date: 01 February 2016

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C126, C127, C128

Dredging Direction - From SW to NE

Daily Programme :

31 Jan 2016 09:00 Hr
01 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

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AXON CONSULTANCY LTD
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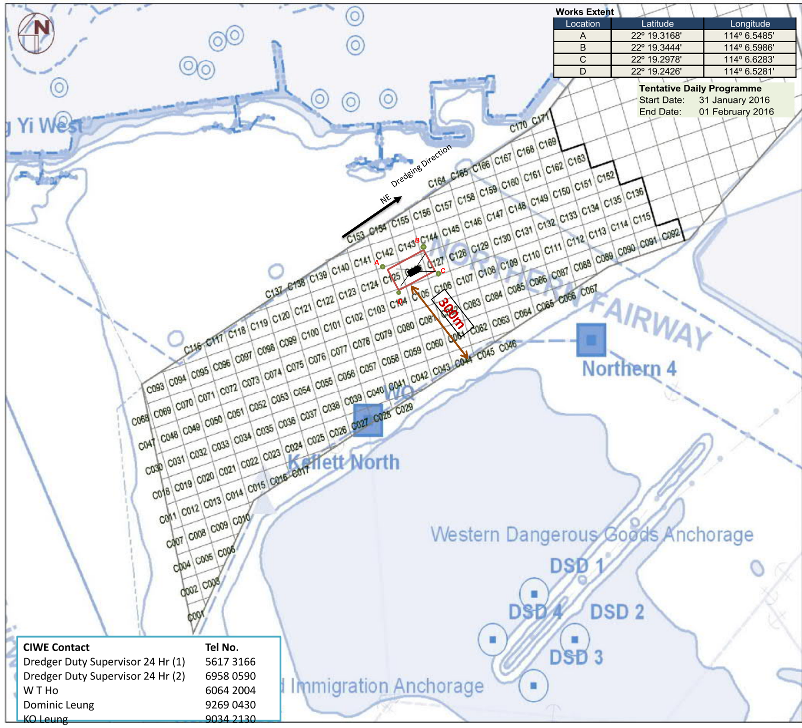
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D263
N.T.S. A

\\CIWE\Users\Public\From Ho\[Portion C 2016-01-30 D263 for C126 C127 C128 C034 C035.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3168'	114° 6.5485'
B	22° 19.3444'	114° 6.5986'
C	22° 19.2978'	114° 6.6283'
D	22° 19.2426'	114° 6.5281'

Tentative Daily Programme
Start Date: 31 January 2016
End Date: 01 February 2016

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C126, C127, C128, C034 C035

Dredging Direction - From SW to NE

Daily Programme :

31 Jan 2016 09:00 Hr
01 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
W T Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

CEDD 土木工程拓展署
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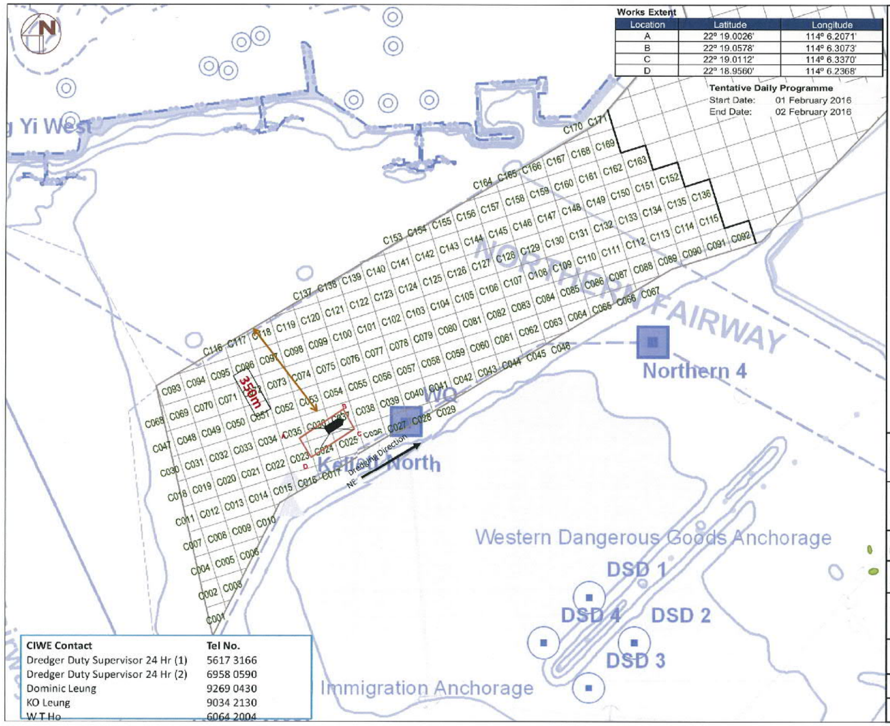
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D263
N.T.S.

C:\Users\CV201304\Desktop\[Portion C 2016-01-30 D263 for C126 C127 C128 C034 C035.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.0026'	114° 6.2071'
B	22° 19.0578'	114° 6.3073'
C	22° 19.0112'	114° 6.3370'
D	22° 18.9560'	114° 6.2368'

Tentative Daily Programme
Start Date: 01 February 2016
End Date: 02 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130
W T Ho	6064 2004

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C034, C035, C036, C037,

Dredging Direction - From SW to NE

Daily Programme :

01 Feb 2016 09:00 Hr - 02 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

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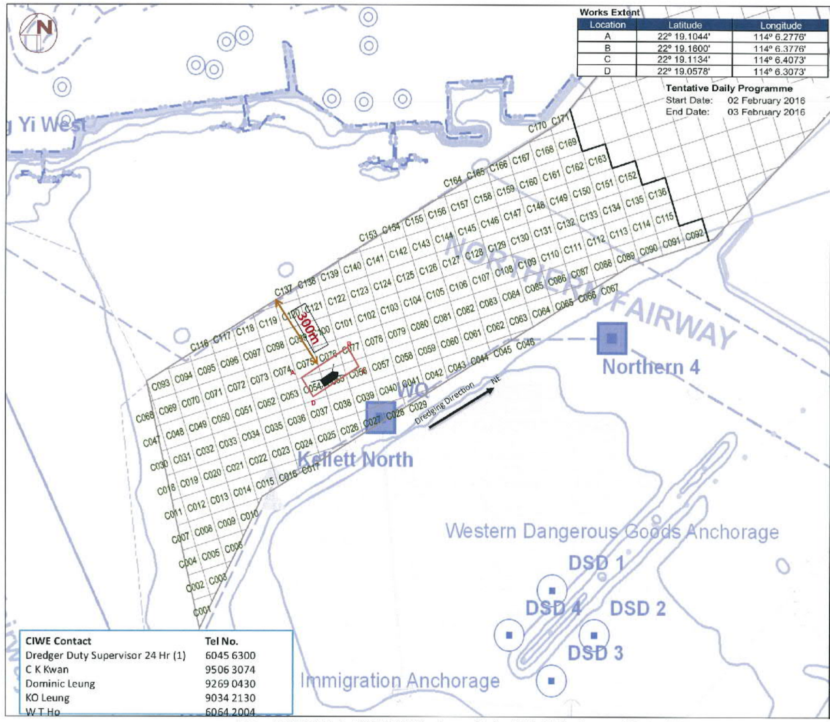
Portion C - Northern Fairway Daily Programme

CIWE-NFC-D264

N.T.S. A1

\\CIWE\Users\Public\From Ho\[Portion C 2016-01-30 D264 for C035 C036 C037 Revised A.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.1044'	114° 6.2776'
B	22° 19.1600'	114° 6.3776'
C	22° 19.1134'	114° 6.4073'
D	22° 19.0578'	114° 6.3073'

Tentative Daily Programme
Start Date: 02 February 2016
End Date: 03 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	6045 6300
C K Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130
W T Ho	6064 2004

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C055, C056, C057, C058, C059, C042

Dredging Direction - From SW to NE

Daily Programme : 02 Feb 2016 01:00 Hr - 03 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

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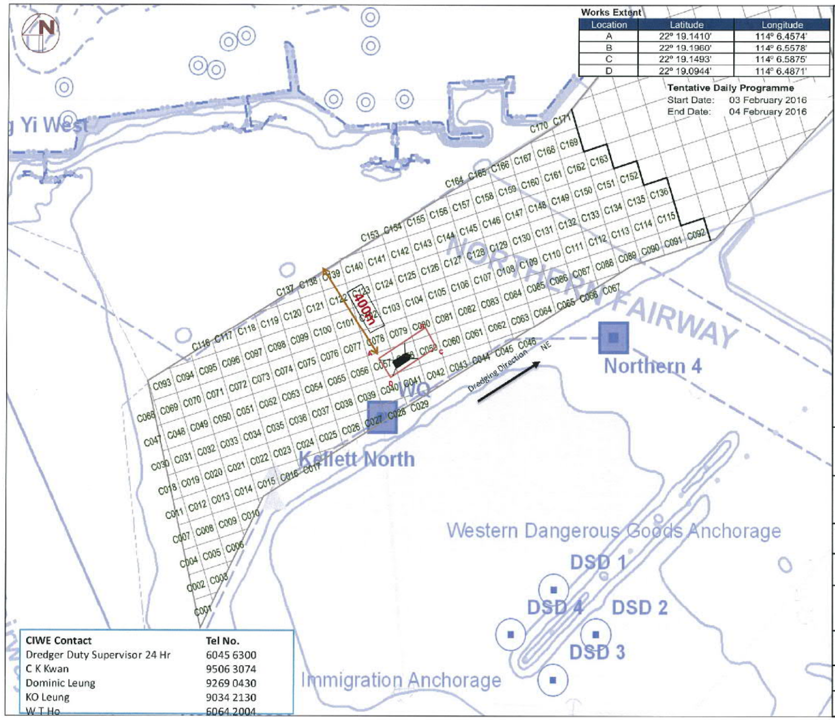
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

CIWE-NFC-D265

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-01 D265 for C055 C056 C057 C058 C059 C042.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.1410'	114° 6.4574'
B	22° 19.1960'	114° 6.5578'
C	22° 19.1493'	114° 6.5875'
D	22° 19.0944'	114° 6.4871'

Tentative Daily Programme
Start Date: 03 February 2016
End Date: 04 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr	6045 6300
C K Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130
W T Ho	6064 2004

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C058, C059, C060, C061, C042, C043

Dredging Direction - From SW to NE

Daily Programme : 03 Feb 2016 08:00 Hr - 04 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

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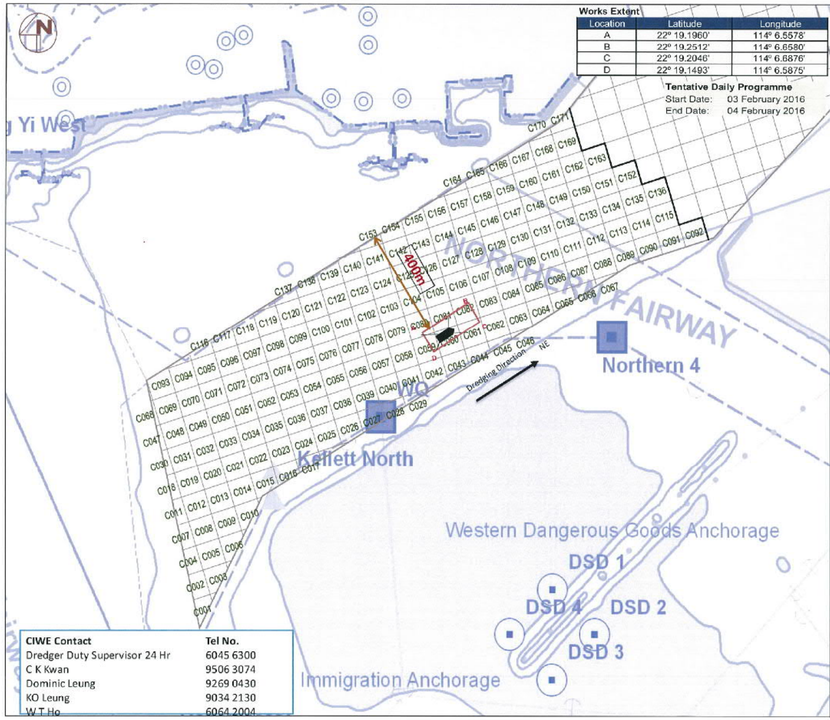
Portion C - Northern Fairway Daily Programme

CIWE-NFC-D266 rev

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-02 D266 rev for C058 C059 C060 C061 C042 C043.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.1960'	114° 6.5578'
B	22° 19.2512'	114° 6.6580'
C	22° 19.2046'	114° 6.6876'
D	22° 19.1493'	114° 6.5875'

Tentative Daily Programme
Start Date: 03 February 2016
End Date: 04 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr	6045 6300
C K Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130
W T Ho	6064 2004

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C060, C042, C043, C061, C044

Dredging Direction - From SW to NE

Daily Programme : 03 Feb 2016 08:00 Hr - 04 Feb 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

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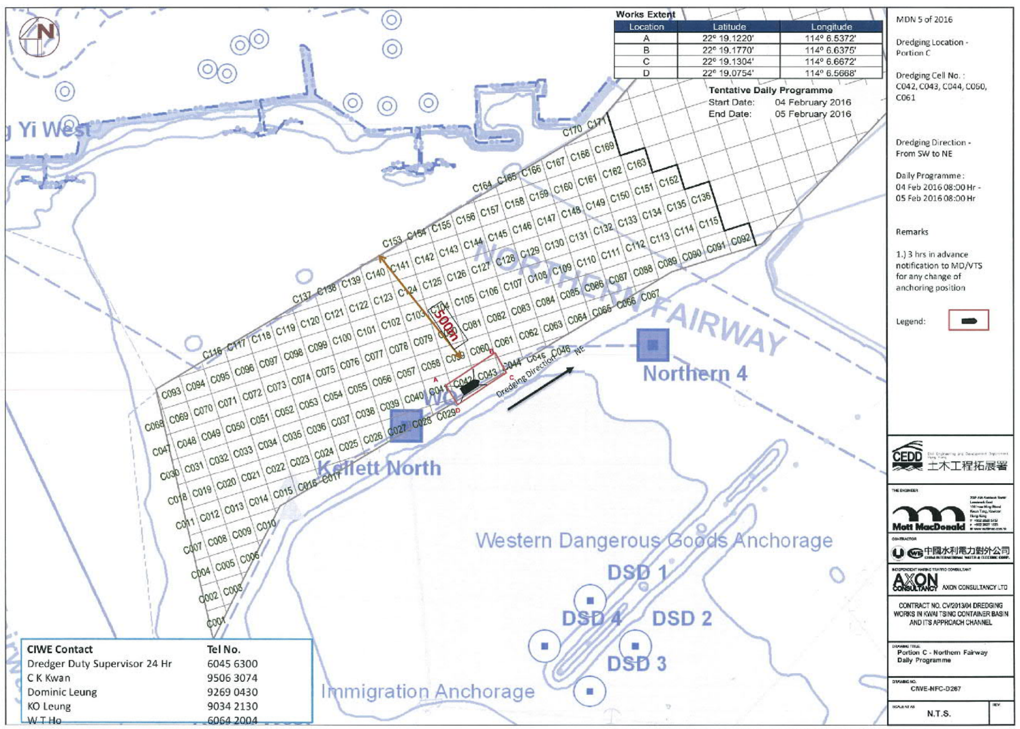
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

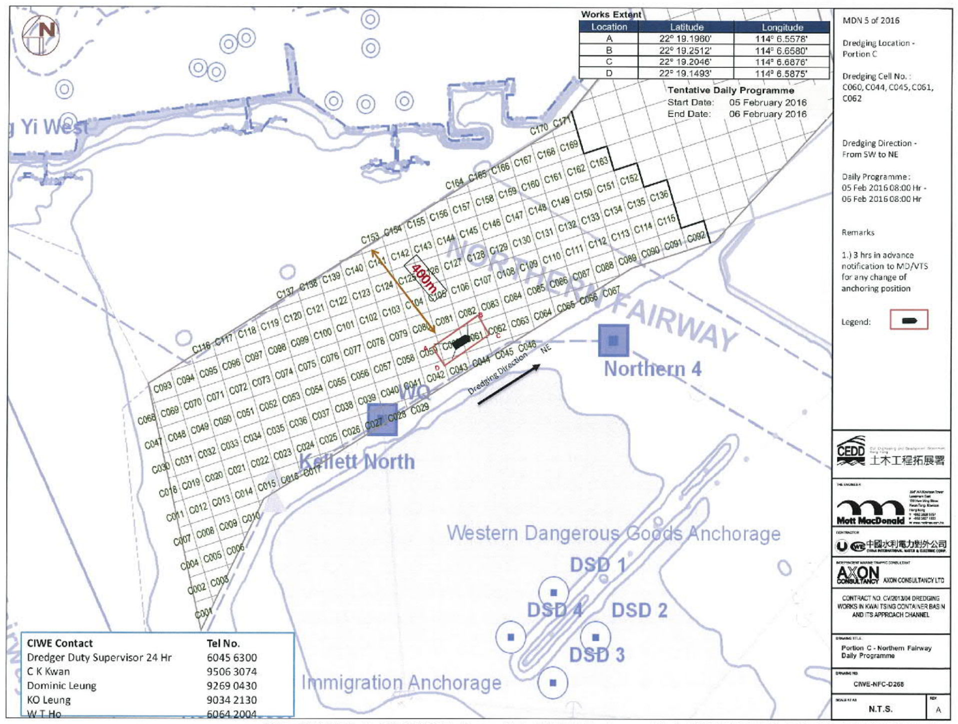
CIWE-NFC-D266

N.T.S. A

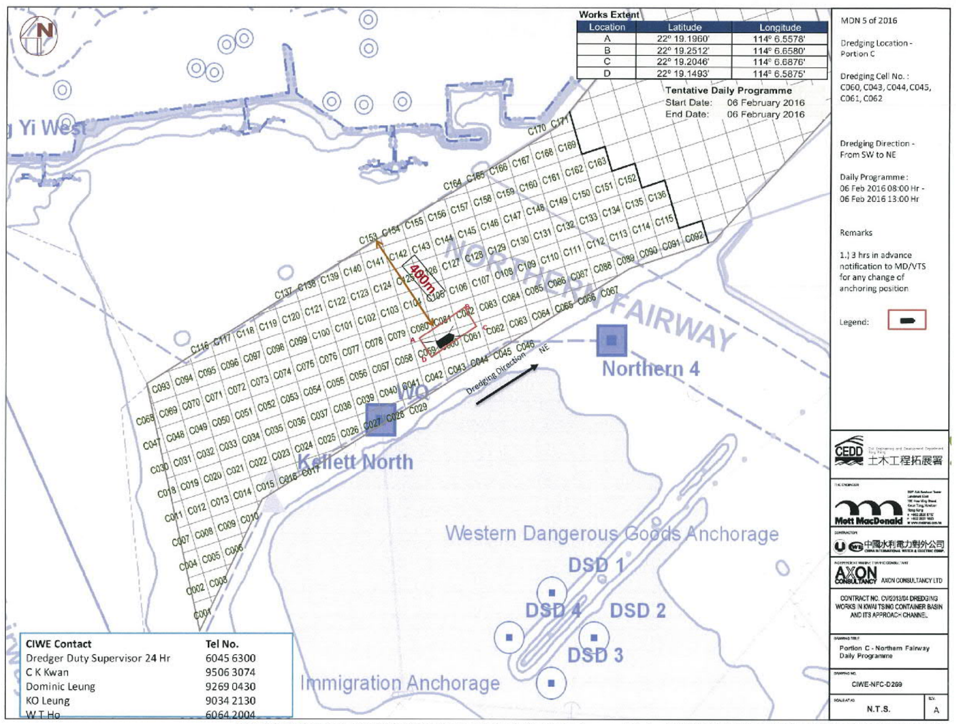
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-02 D266 for C060 C042 C043 C061 C044.xlsx]Main



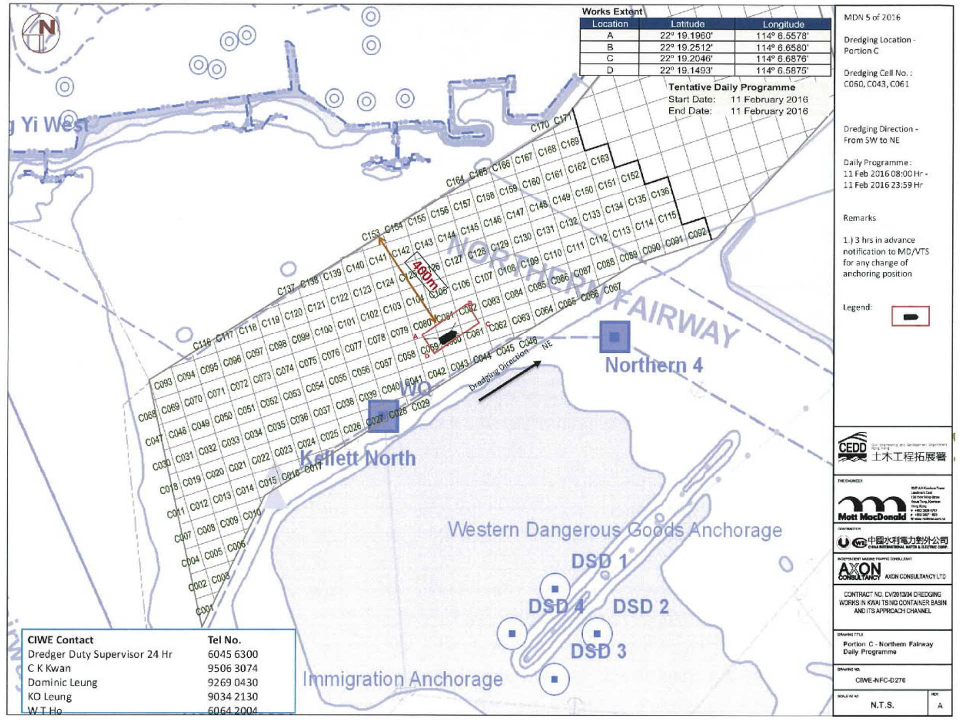
\\CIWE\Users\Public\From Ho\[Portion C 2016-02-03 D267 C042 C043 C044 C061 C062.xlsx]Main



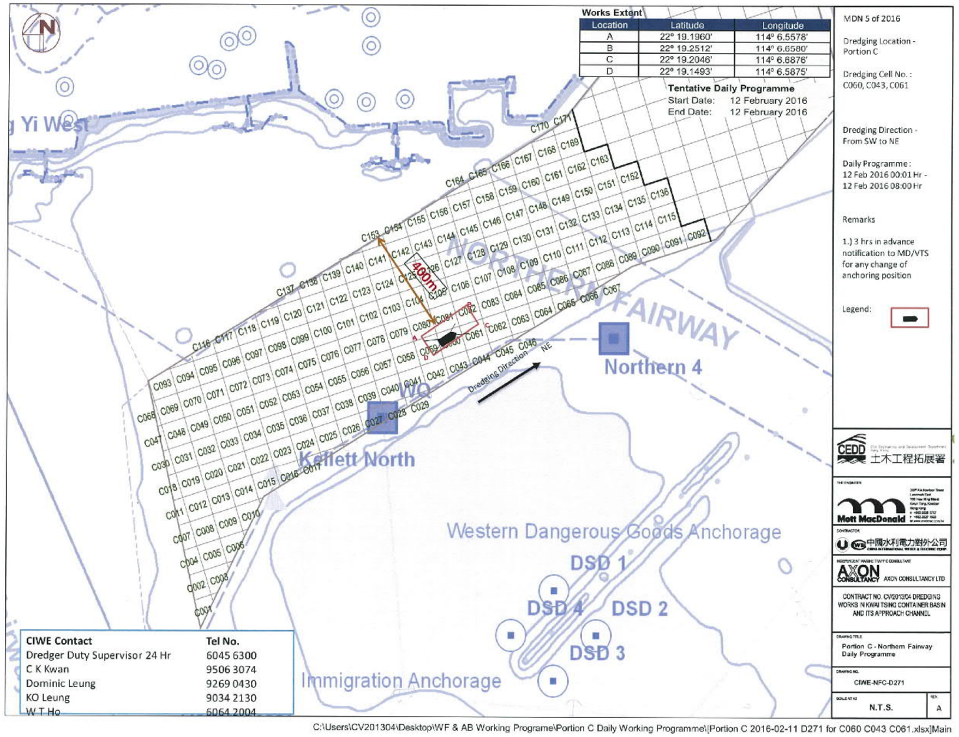
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-02 D266 for C060 C042 C043 C061 C044.xlsx]Main



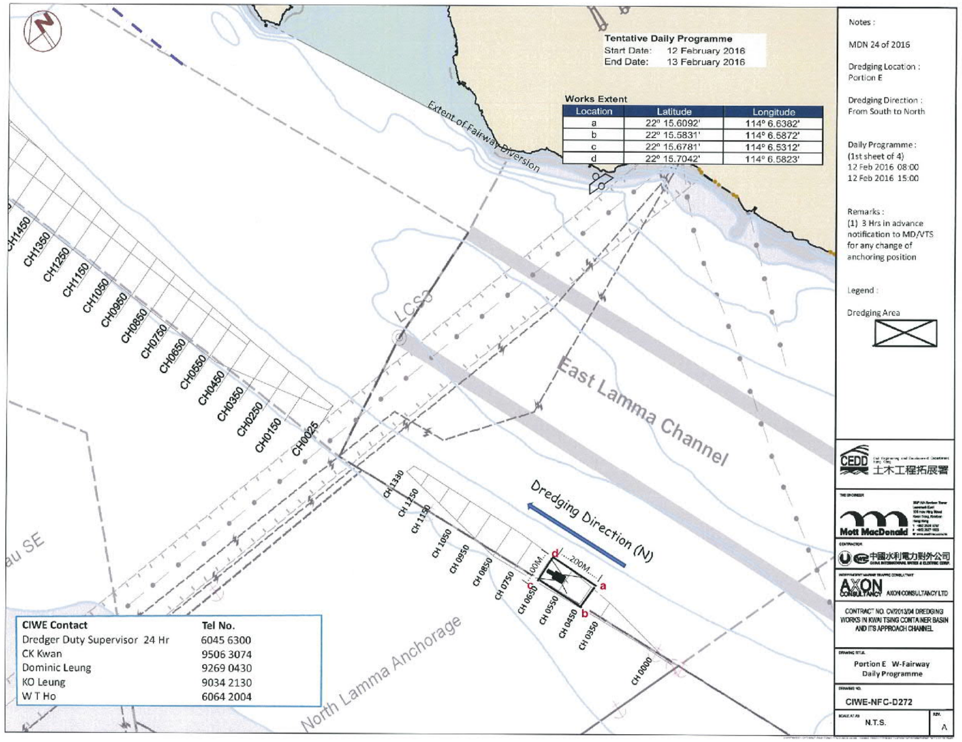
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-05 D269 for C060 C043 C044 C045 C061 C062.xlsx]Main



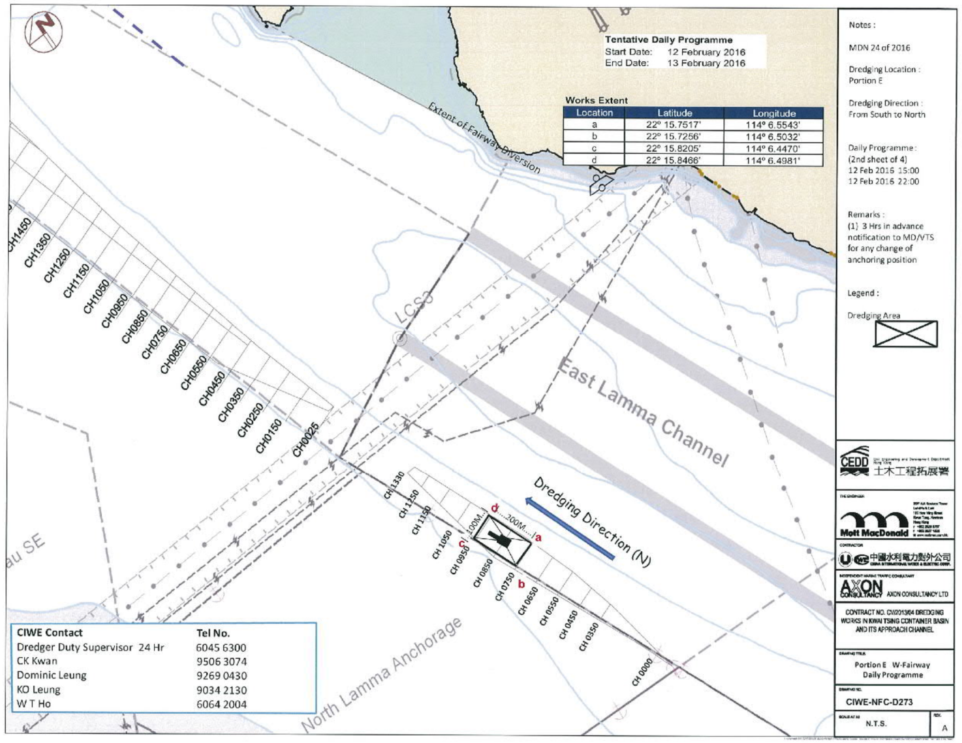
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-06 D270 for C060 C043 C061.xlsx]Main



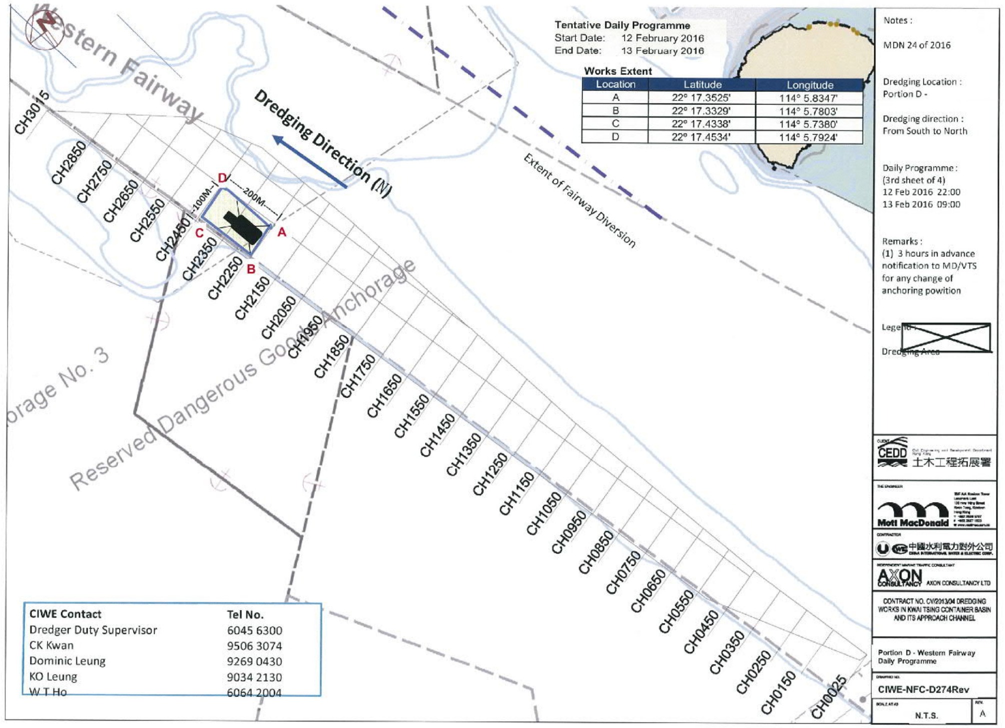
Works Extent
Location | Latitude | Longitude
A | 22° 19.1960' | 114° 6.5578'
B | 22° 19.2512' | 114° 6.6580'
C | 22° 19.2046' | 114° 6.6876'
D | 22° 19.1493' | 114° 6.5875'
Tentative Daily Programme
Start Date: 12 February 2016
End Date: 12 February 2016
MDN 5 of 2016
Dredging Location - Portion C
Dredging Cell No. : C060, C043, C061
Dredging Direction - From SW to NE
Daily Programme : 12 Feb 2016 00:01 Hr - 12 Feb 2016 08:00 Hr
Remarks
1.) 3 Hrs in advance notification to MD/VTS for any change of anchoring position
Legend :
400m
Dredging Direction NE
NORTHERN FAIRWAY
Northern 4
Kellett North
Western Dangerous Goods Anchorage
DSD 1
DSD 2
DSD 3
DSD 4
Immigration Anchorage
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
C K Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion C - Northern Fairway Daily Programme
CIWE-NFC-D271
N.T.S.
A
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-11 D271 for C060 C043 C061.xlsx]Main



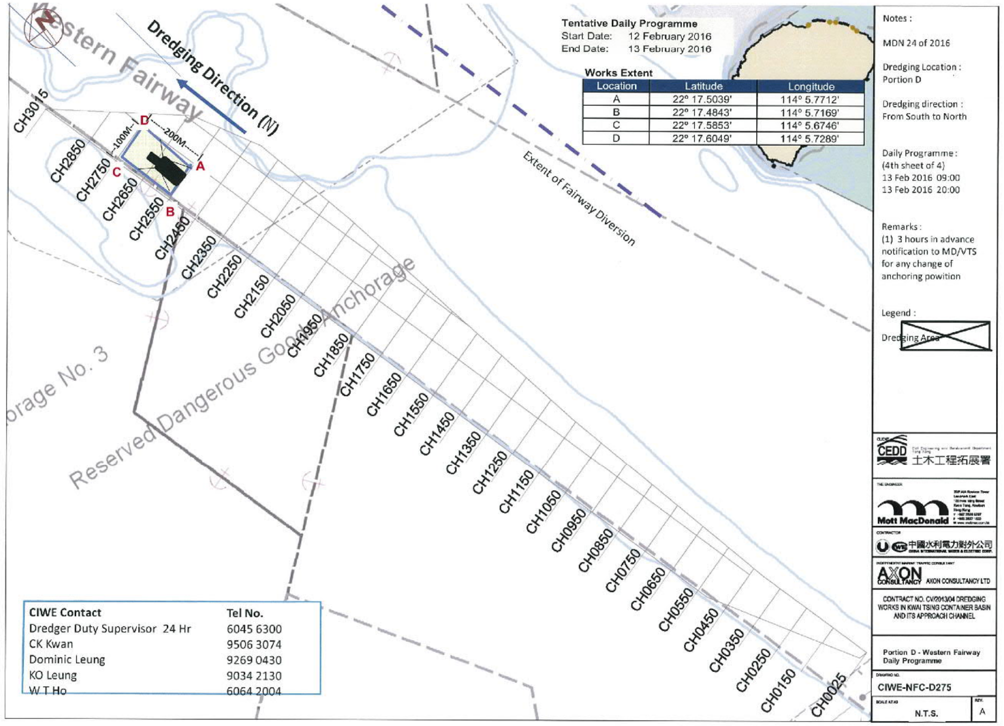
Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
a | 22° 15.6092' | 114° 6.6382'
b | 22° 15.5831' | 114° 6.5872'
c | 22° 15.6781' | 114° 6.5312'
d | 22° 15.7042' | 114° 6.5823'
Notes :
MDN 24 of 2016
Dredging Location : Portion E
Dredging Direction : From South to North
Daily Programme : (1st sheet of 4) 12 Feb 2016 08:00 12 Feb 2016 15:00
Remarks :
(1) 3 Hrs in advance notification to MD/VTS for any change of anchoring position
Legend :
Dredging Area
Extent of Fairway Diversion
East Lamma Channel
Dredging Direction (N)
North Lamma Anchorage
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion E W-Fairway Daily Programme
CIWE-NFC-D272
N.T.S.
A

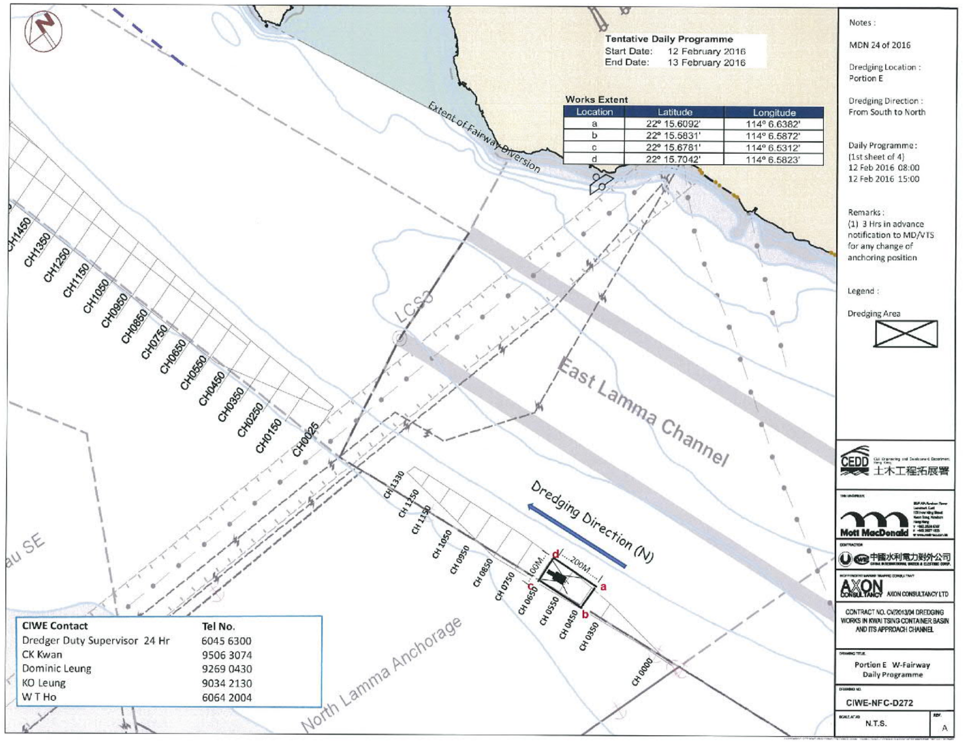


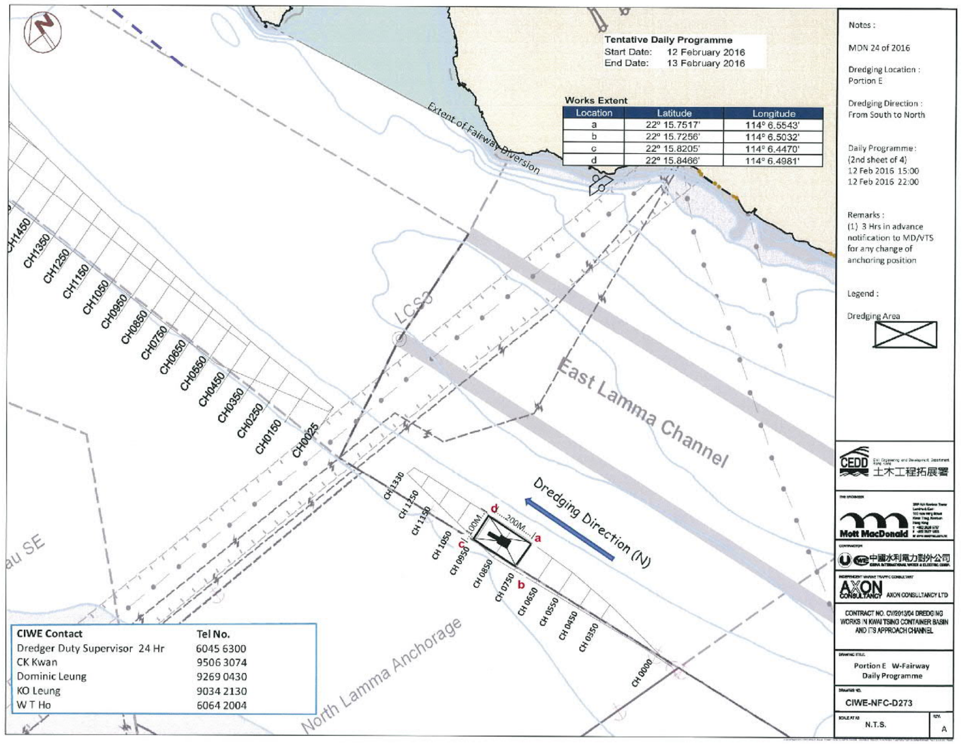
Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
a | 22° 15.7517' | 114° 6.5543'
b | 22° 15.7256' | 114° 6.5032'
c | 22° 15.8205' | 114° 6.4470'
d | 22° 15.8466' | 114° 6.4981'
Notes :
MDN 24 of 2016
Dredging Location : Portion E
Dredging Direction : From South to North
Daily Programme : (2nd sheet of 4) 12 Feb 2016 15:00 12 Feb 2016 22:00
Remarks :
(1) 3 Hrs in advance notification to MD/VTS for any change of anchoring position
Legend :
Dredging Area
Extent of Fairway Diversion
East Lamma Channel
Dredging Direction (N)
North Lamma Anchorage
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion E W-Fairway Daily Programme
CIWE-NFC-D273
N.T.S.
A

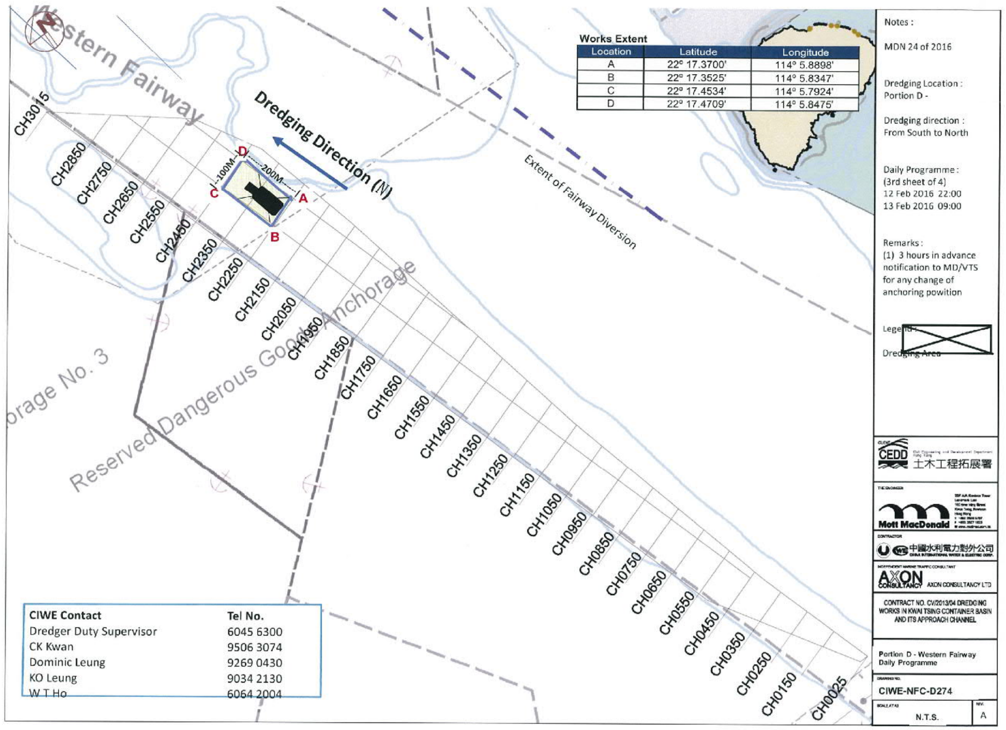


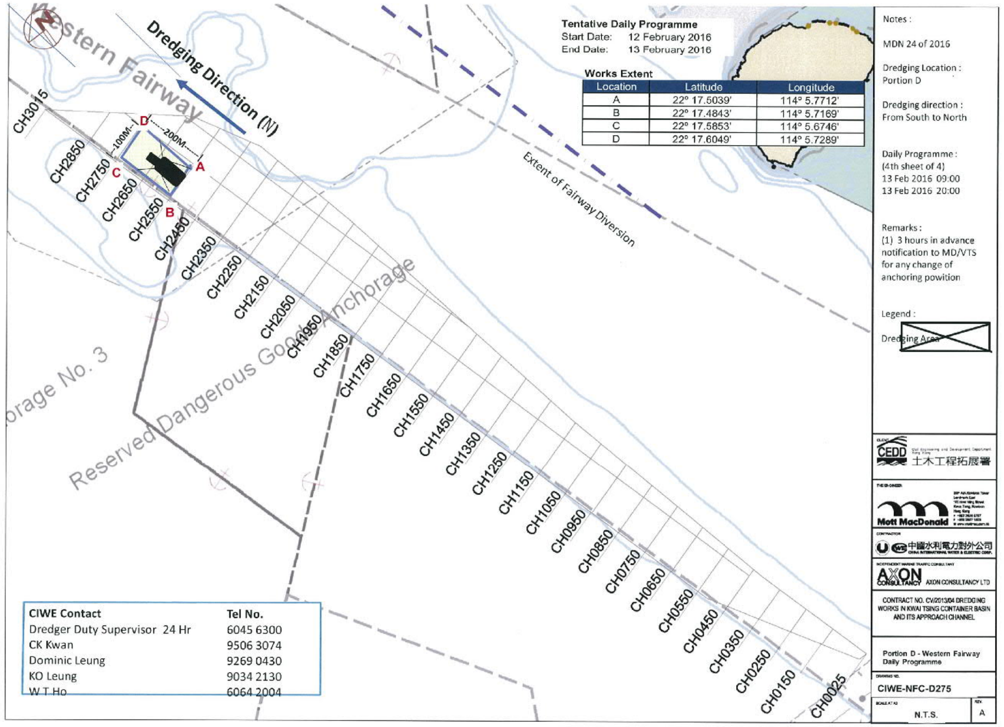
Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 17.3525' | 114° 5.8347'
B | 22° 17.3329' | 114° 5.7803'
C | 22° 17.4338' | 114° 5.7380'
D | 22° 17.4534' | 114° 5.7924'
Notes :
MDN 24 of 2016
Dredging Location : Portion D -
Dredging direction : From South to North
Daily Programme : (3rd sheet of 4) 12 Feb 2016 22:00 13 Feb 2016 09:00
Remarks :
(1) 3 hours in advance notification to MD/VTS for any change of anchoring powition
Legend
Dredging Area
Western Fairway
Dredging Direction (N)
Extent of Fairway Diversion
Reserved Dangerous Goods Anchorage
CIWE Contact | Tel No.
Dredger Duty Supervisor | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion D - Western Fairway Daily Programme
CIWE-NFC-D274Rev
N.T.S.
A

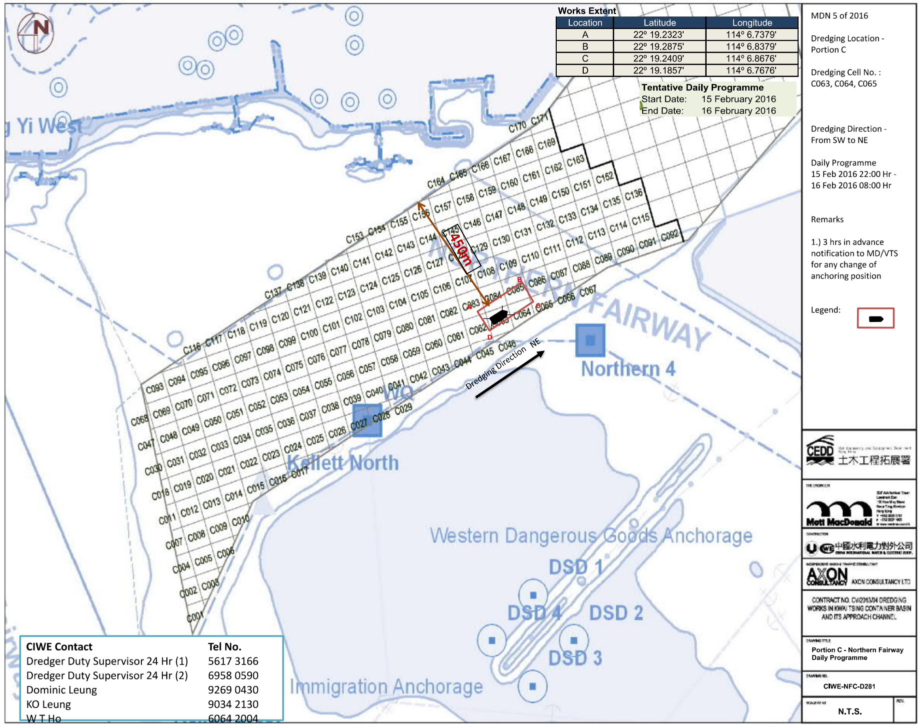

Western Fairway
Dredging Direction (N)
Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
A | 22° 17.5039' | 114° 5.7712'
B | 22° 17.4843' | 114° 5.7169'
C | 22° 17.5853' | 114° 5.6746'
D | 22° 17.6049' | 114° 5.7289'
Extent of Fairway Diversion
Reserved Dangerous Goods Anchorage
Notes :
MDN 24 of 2016
Dredging Location :
Portion D
Dredging direction :
From South to North
Daily Programme :
(4th sheet of 4)
13 Feb 2016 09:00
13 Feb 2016 20:00
Remarks :
(1) 3 hours in advance notification to MD/VTS for any change of anchoring powition
Legend :
Dredging Area
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
Mott MacDonald
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion D - Western Fairway Daily Programme
CIWE-NFC-D275
N.T.S.
A


Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
a | 22° 15.6092' | 114° 6.6382'
b | 22° 15.5831' | 114° 6.5872'
c | 22° 15.6781' | 114° 6.5312'
d | 22° 15.7042' | 114° 6.5823'
Extent of Fairway Diversion
East Lamma Channel
Dredging Direction (N)
North Lamma Anchorage
Notes :
MDN 24 of 2016
Dredging Location :
Portion E
Dredging Direction :
From South to North
Daily Programme :
(1st sheet of 4)
12 Feb 2016 08:00
12 Feb 2016 15:00
Remarks :
(1) 3 Hrs in advance notification to MD/VTS for any change of anchoring position
Legend :
Dredging Area
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
Mott MacDonald
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion E W-Fairway Daily Programme
CIWE-NFC-D272
N.T.S.
A


Tentative Daily Programme
Start Date: 12 February 2016
End Date: 13 February 2016
Works Extent
Location | Latitude | Longitude
a | 22° 15.7517' | 114° 6.5543'
b | 22° 15.7256' | 114° 6.5032'
c | 22° 15.8205' | 114° 6.4470'
d | 22° 15.8466' | 114° 6.4981'
Extent of Fairway Diversion
East Lamma Channel
Dredging Direction (N)
North Lamma Anchorage
Notes :
MDN 24 of 2016
Dredging Location :
Portion E
Dredging Direction :
From South to North
Daily Programme :
(2nd sheet of 4)
12 Feb 2016 15:00
12 Feb 2016 22:00
Remarks :
(1) 3 Hrs in advance notification to MD/VTS for any change of anchoring position
Legend :
Dredging Area
CIWE Contact | Tel No.
Dredger Duty Supervisor 24 Hr | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
Mott MacDonald
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion E W-Fairway Daily Programme
CIWE-NFC-D273
N.T.S.
A


Western Fairway
Dredging Direction (N)
Works Extent
Location | Latitude | Longitude
A | 22° 17.3700' | 114° 5.8898'
B | 22° 17.3525' | 114° 5.8347'
C | 22° 17.4534' | 114° 5.7924'
D | 22° 17.4709' | 114° 5.8475'
Extent of Fairway Diversion
Reserved Dangerous Goods Anchorage
Notes :
MDN 24 of 2016
Dredging Location :
Portion D -
Dredging direction :
From South to North
Daily Programme :
(3rd sheet of 4)
12 Feb 2016 22:00
13 Feb 2016 09:00
Remarks :
(1) 3 hours in advance notification to MD/VTS for any change of anchoring powition
Legend :
Dredging Area
CIWE Contact | Tel No.
Dredger Duty Supervisor | 6045 6300
CK Kwan | 9506 3074
Dominic Leung | 9269 0430
KO Leung | 9034 2130
W T Ho | 6064 2004
Mott MacDonald
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion D - Western Fairway Daily Programme
CIWE-NFC-D274
N.T.S.
A





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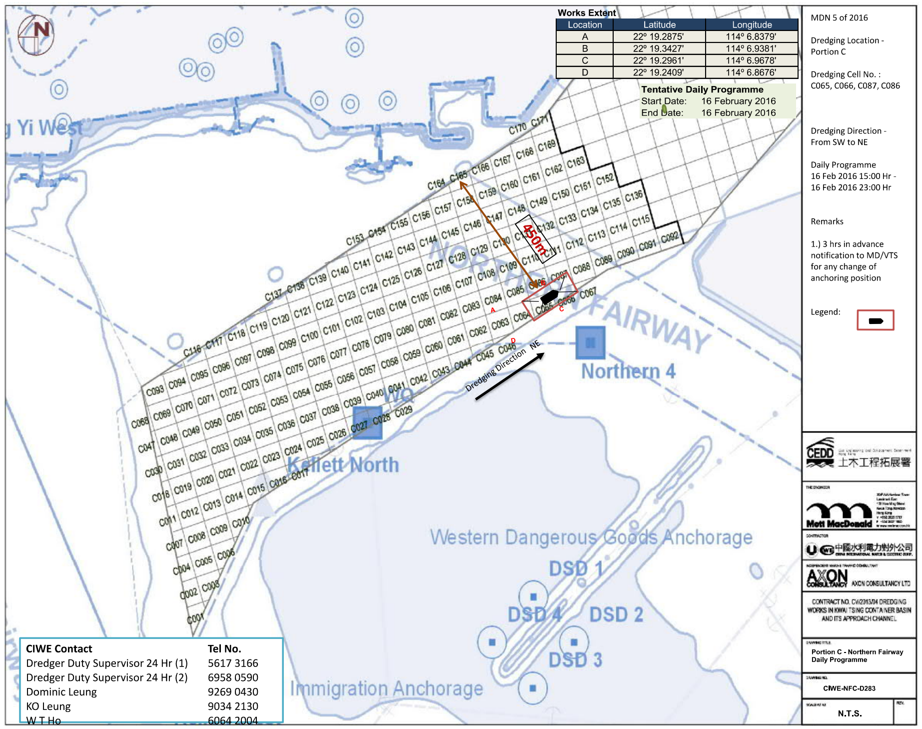

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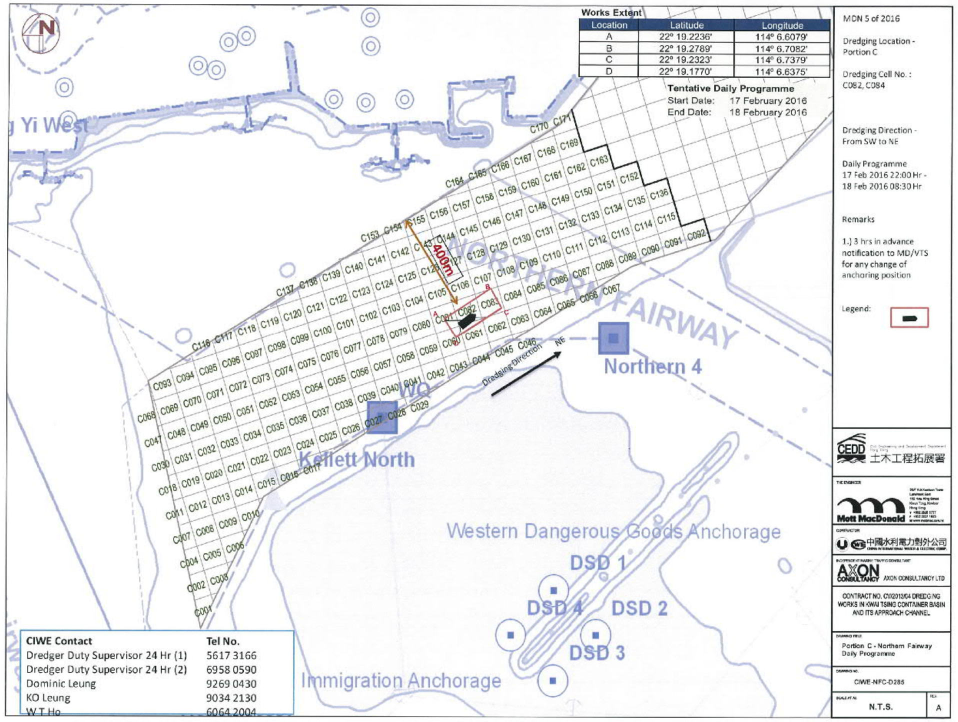

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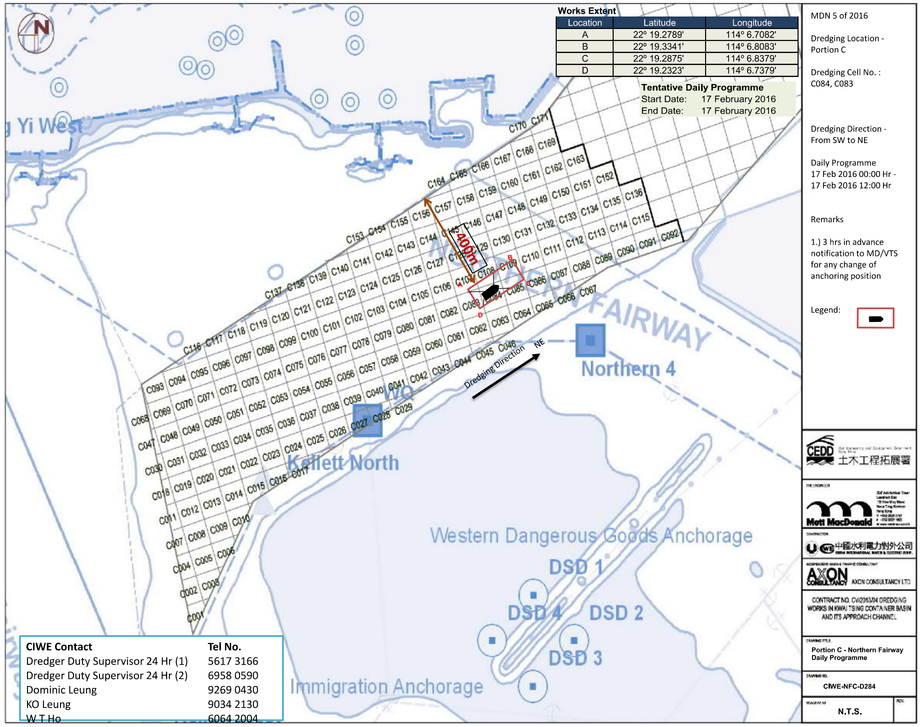

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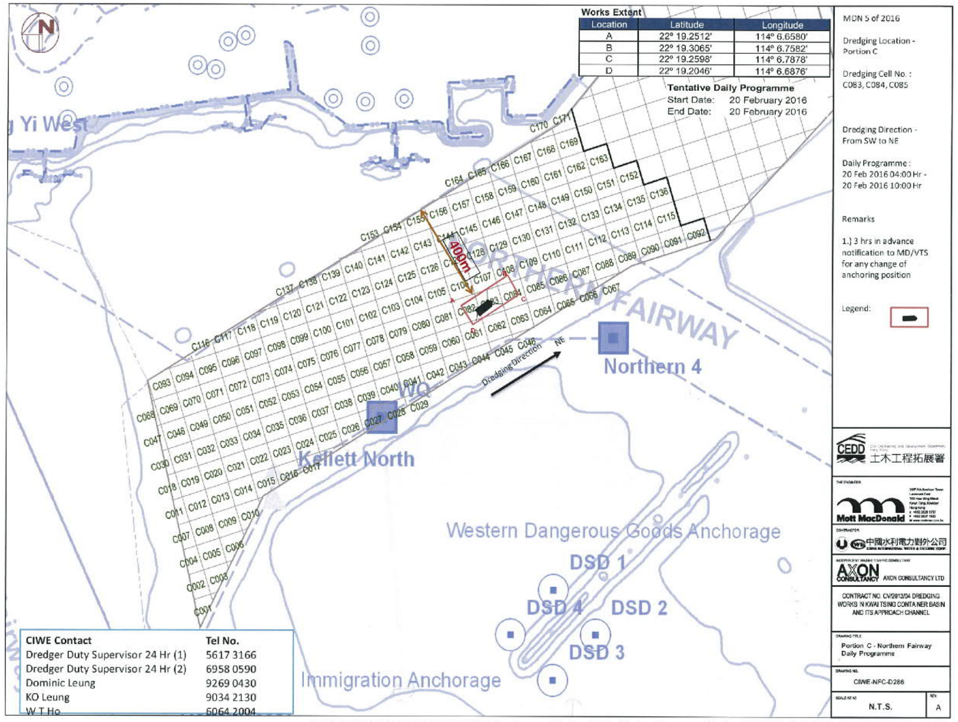

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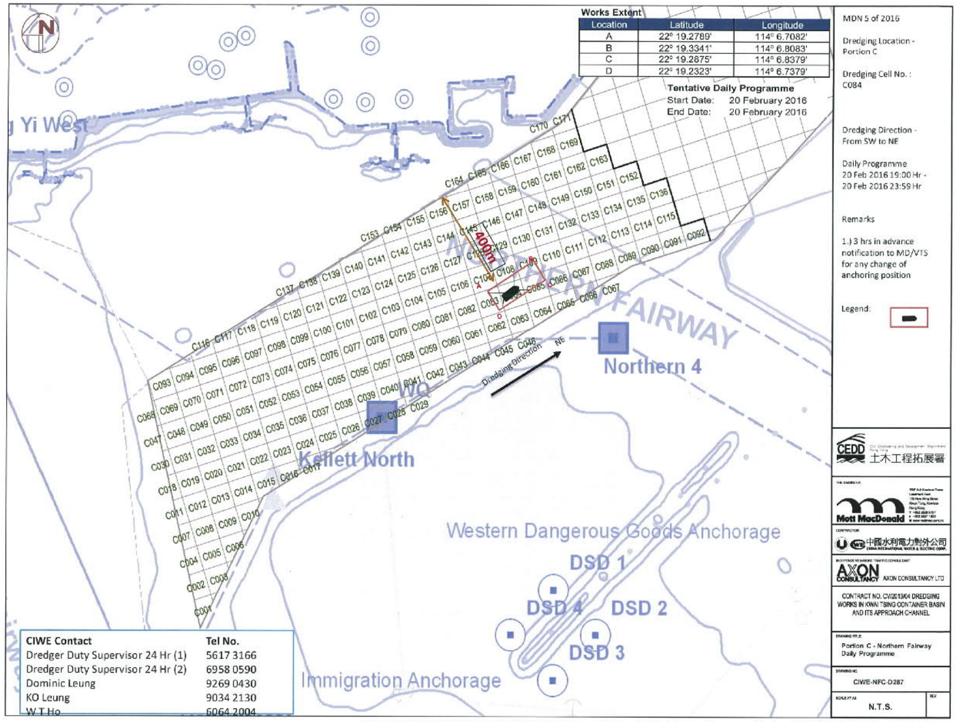

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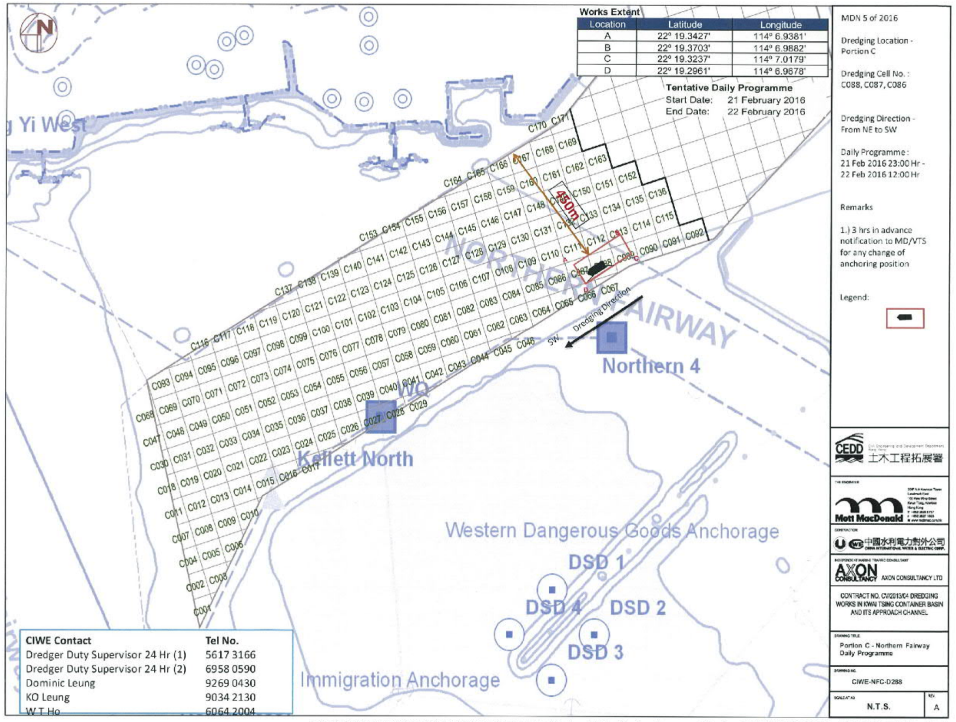

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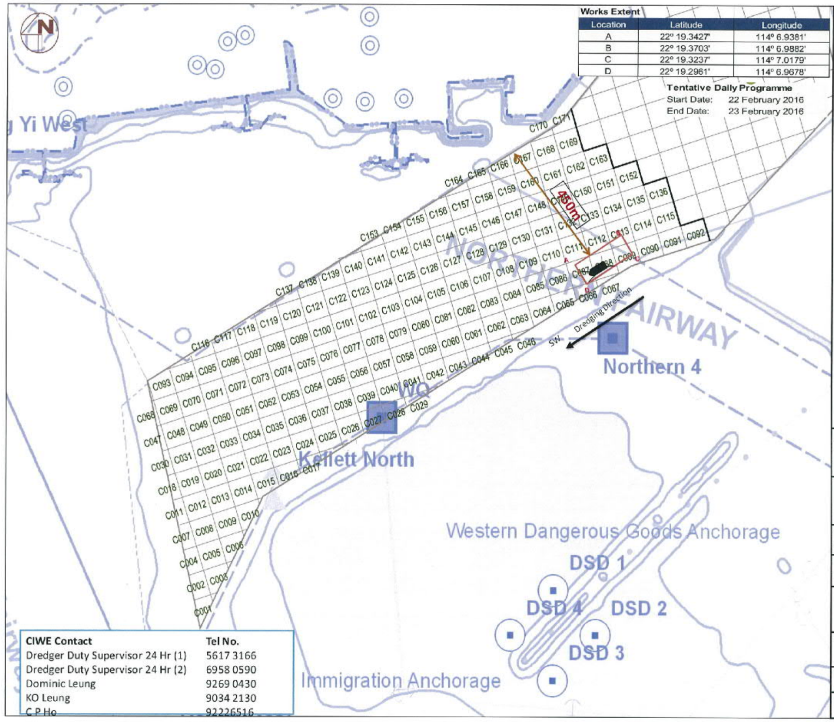

Works Extent

Location	Latitude	Longitude
A	22° 19.3427'	114° 6.9381'
B	22° 19.3703'	114° 6.9882'
C	22° 19.3237'	114° 7.0179'
D	22° 19.2961'	114° 6.9678'

Tentative Daily Programme
Start Date: 22 February 2016
End Date: 23 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130
C P Ho	92226516

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C088, C087, C086

Dredging Direction - From NE to SW

Daily Programme : 22 Feb 2016 20:00 Hr - 23 Feb 2016 07:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD Civil Engineering and Development Department Hong Kong 土木工程拓展署

THE ENGINEER
Mott MacDonald

CONTRACTOR
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE
Portion C - Northern Fairway Daily Programme

DRAWING NO.
CIWE-NFC-D289

SCALE AT A3	REV
N.T.S.	A

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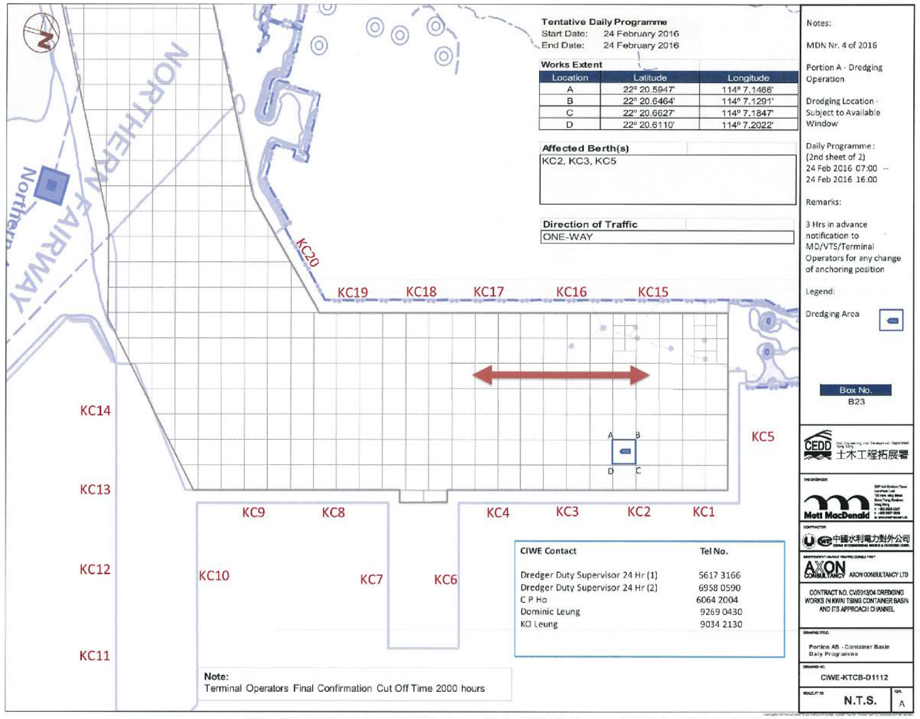

Tentative Daily Programme
Start Date: 24 February 2016
End Date: 24 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5947'	114° 7.1466'
B	22° 20.6464'	114° 7.1291'
C	22° 20.6627'	114° 7.1847'
D	22° 20.6110'	114° 7.2022'

Affected Berth(s)
KC2, KC3, KC5

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 2)
24 Feb 2016 07:00 --
24 Feb 2016 16:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
C P Ho	6064 2004
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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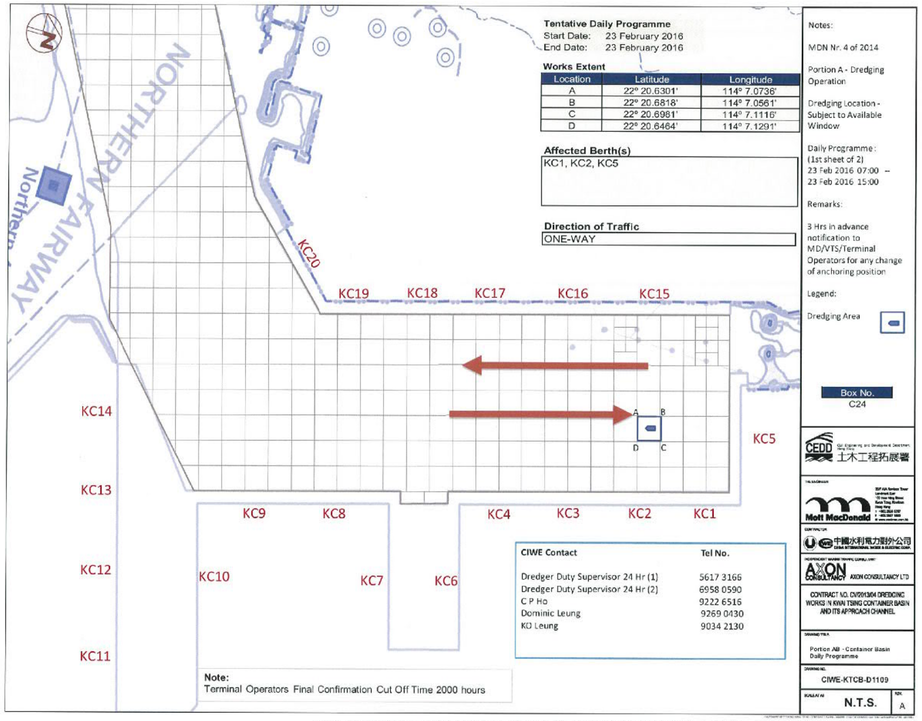


Tentative Daily Programme
Start Date: 23 February 2016
End Date: 23 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6301'	114° 7.0736'
B	22° 20.6818'	114° 7.0561'
C	22° 20.6981'	114° 7.1116'
D	22° 20.6464'	114° 7.1291'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2014

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 2)
23 Feb 2016 07:00 --
23 Feb 2016 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

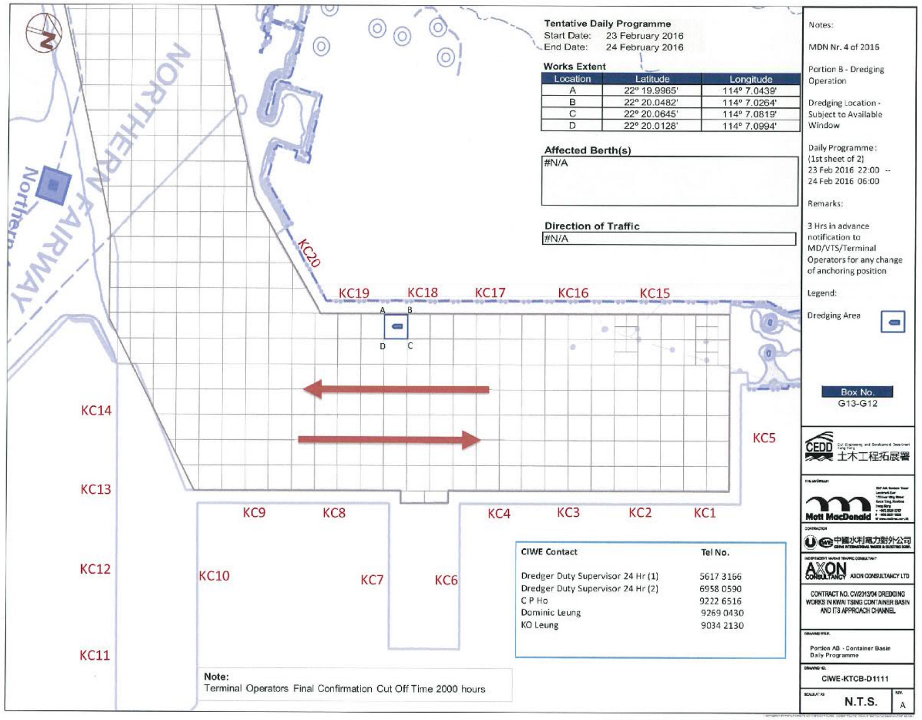
Legend:

Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
C P Ho	9222 6516
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-02-22 D1109 for A24.xlsx]Main



Tentative Daily Programme
Start Date: 23 February 2016
End Date: 24 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9965'	114° 7.0439'
B	22° 20.0482'	114° 7.0264'
C	22° 20.0645'	114° 7.0819'
D	22° 20.0128'	114° 7.0994'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 2)
23 Feb 2016 22:00 --
24 Feb 2016 06:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
C P Ho	9222 6516
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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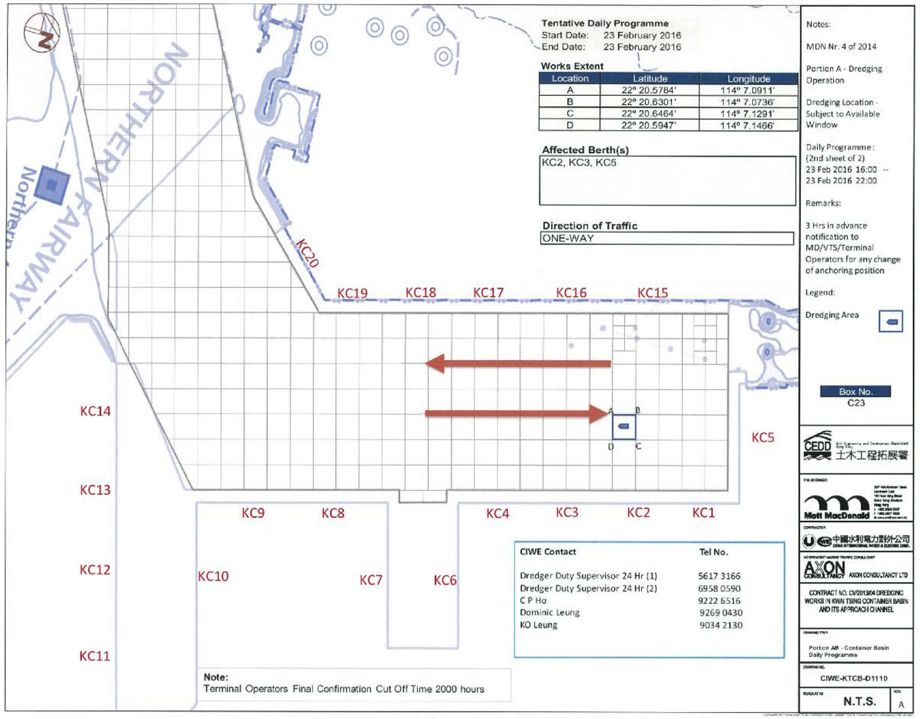

Tentative Daily Programme
Start Date: 23 February 2016
End Date: 23 February 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5784'	114° 7.0911'
B	22° 20.6301'	114° 7.0736'
C	22° 20.6464'	114° 7.1291'
D	22° 20.5947'	114° 7.1466'

Affected Berth(s)
KC2, KC3, KC5

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2014

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 2)
23 Feb 2016 16:00 --
23 Feb 2016 22:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
C P Ho	9222 6516
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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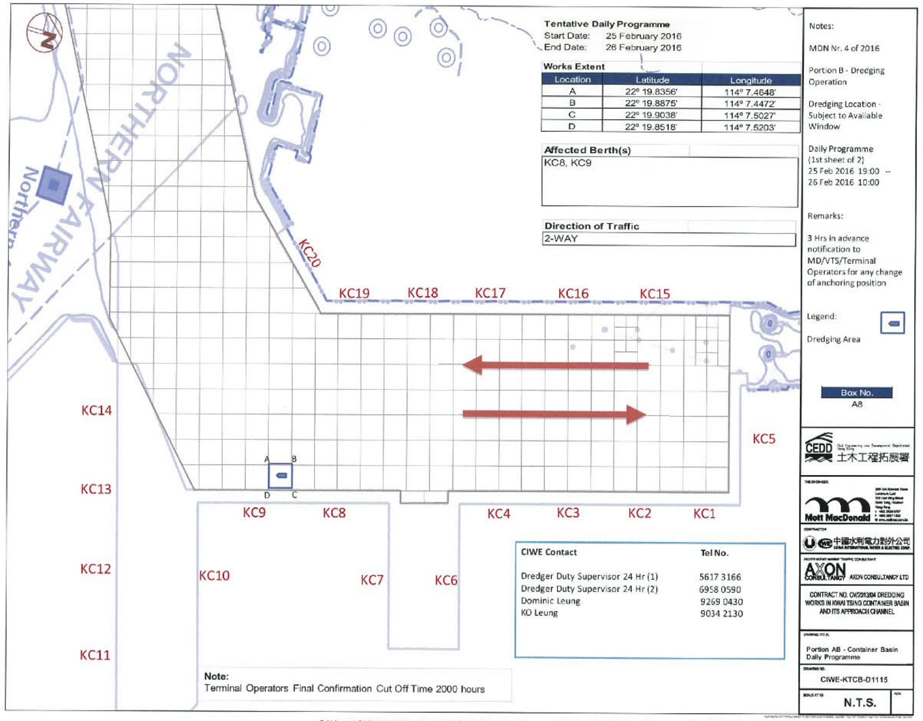

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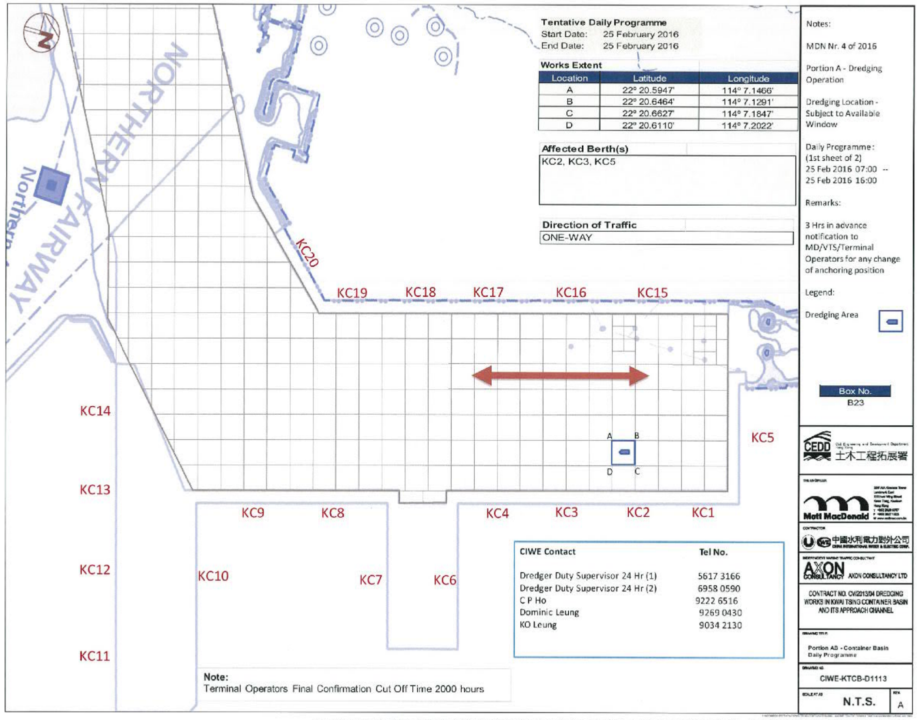

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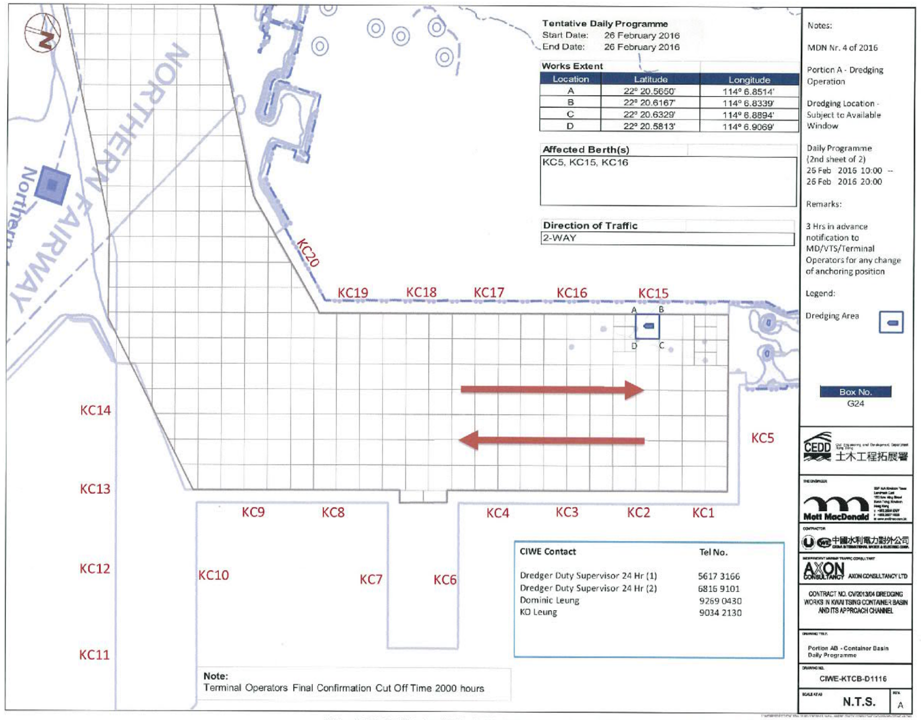

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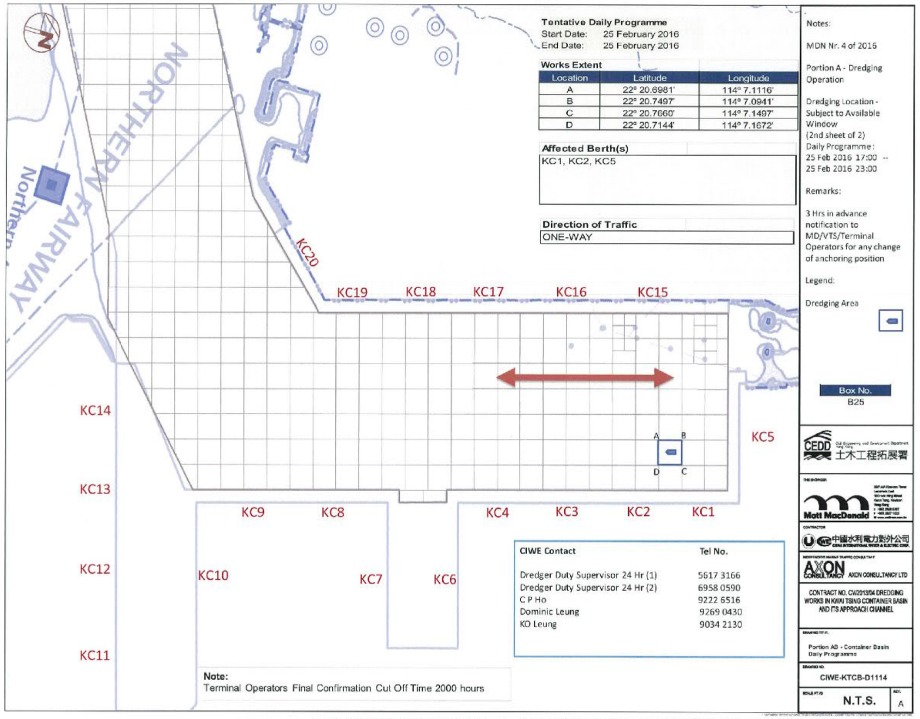

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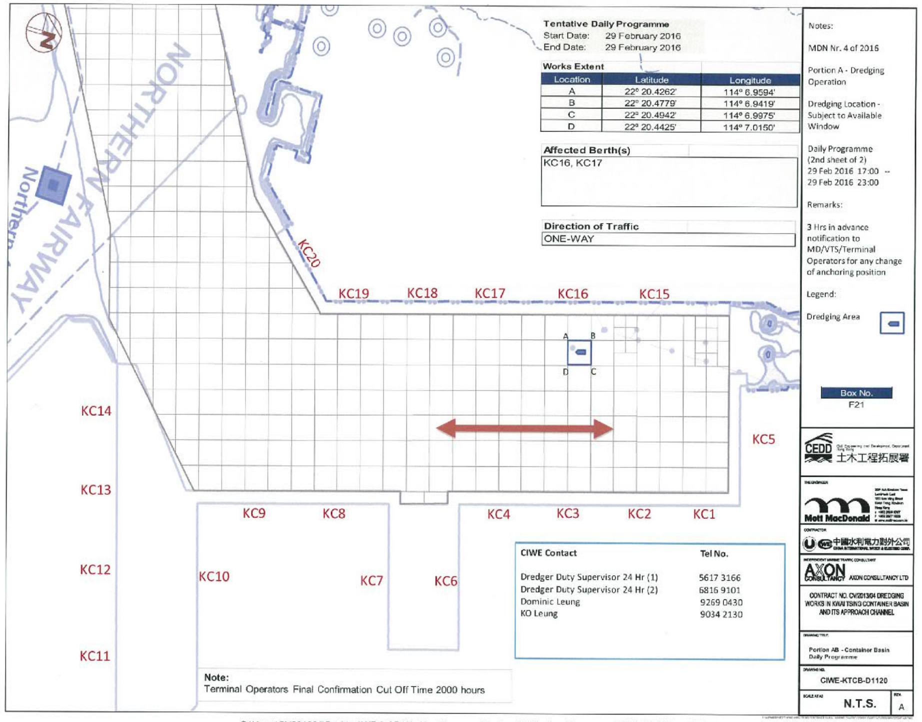

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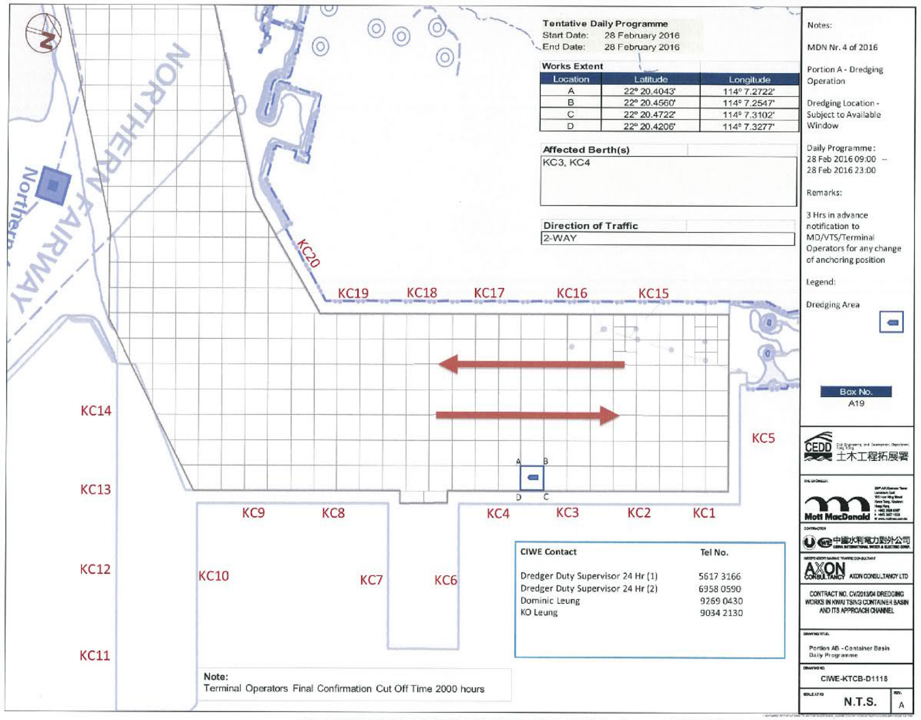

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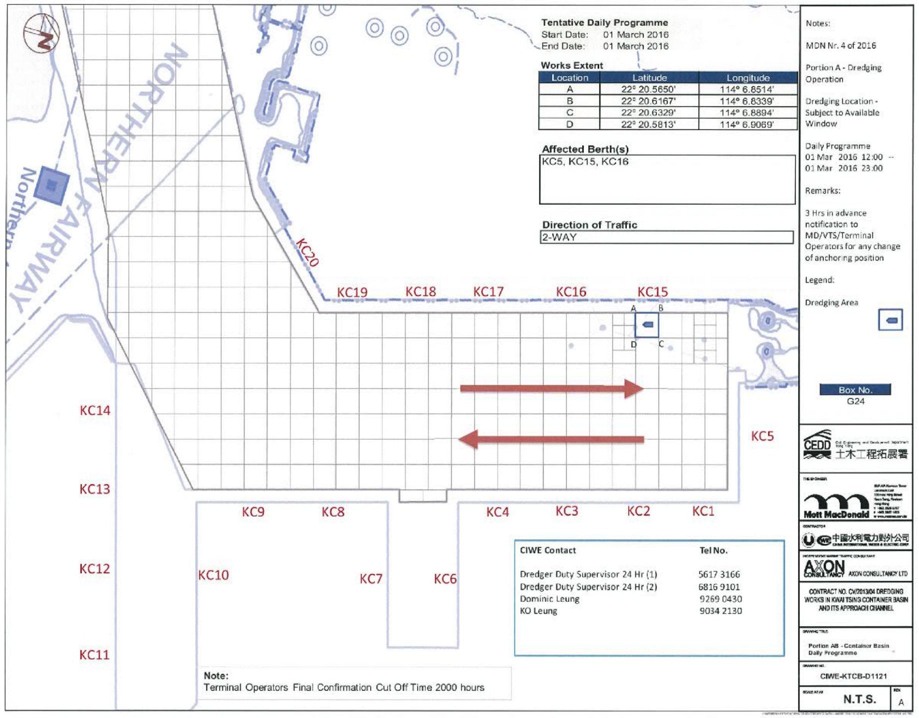

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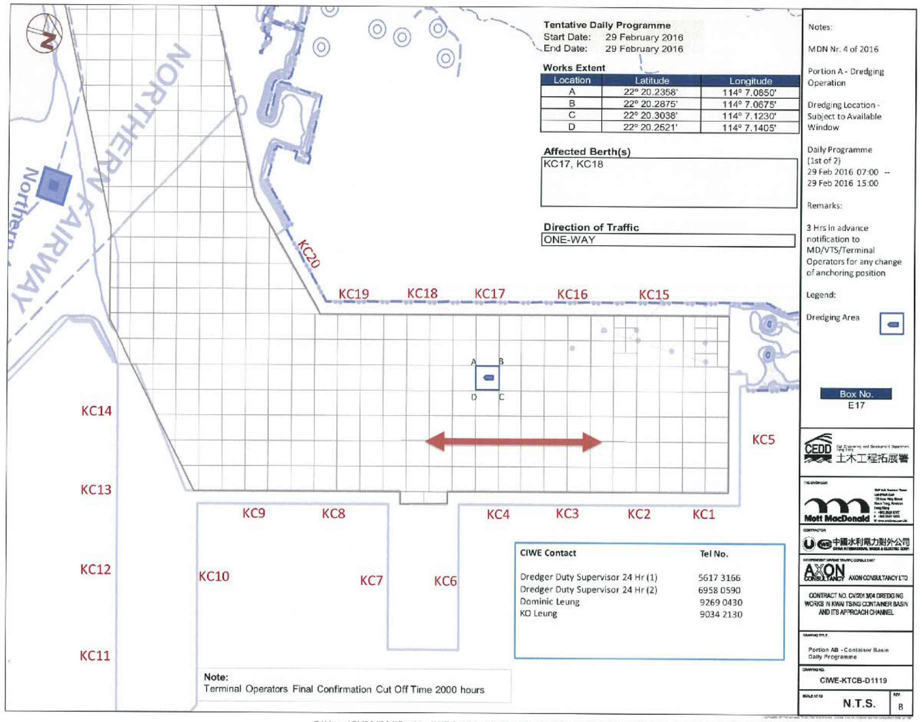

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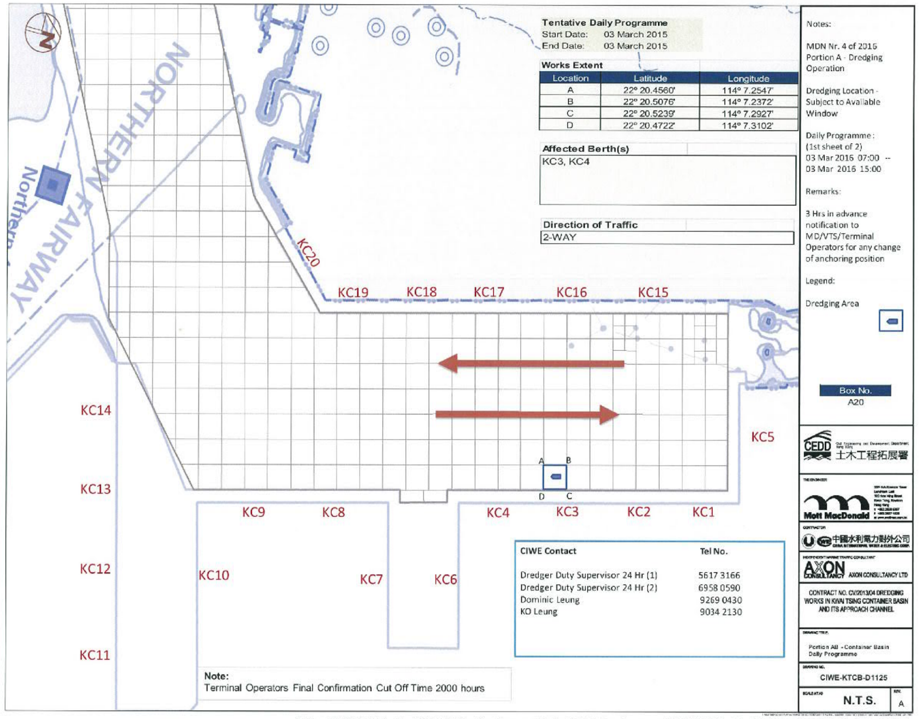

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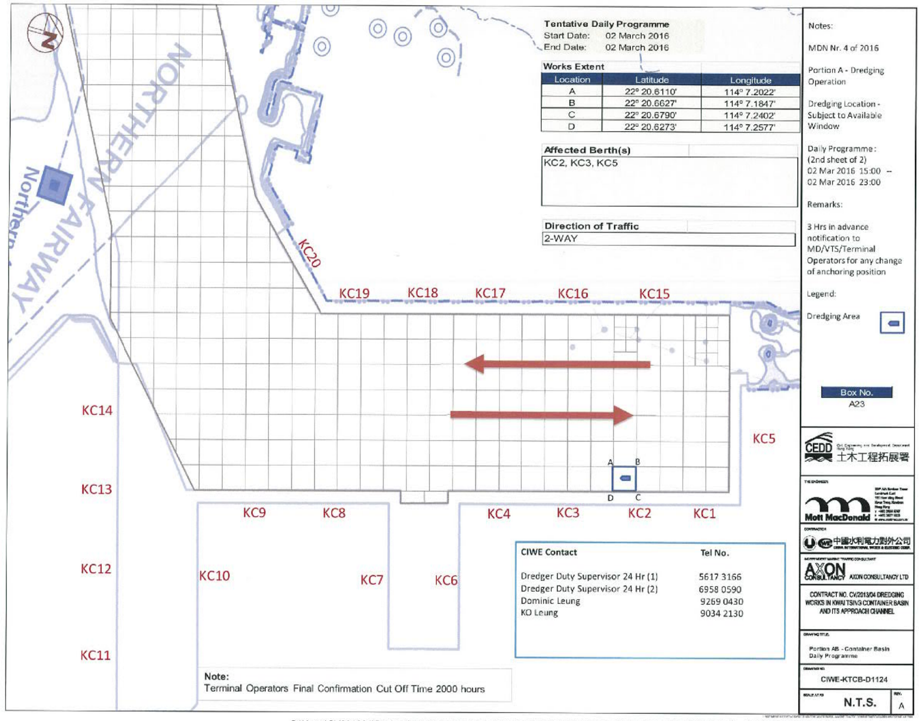

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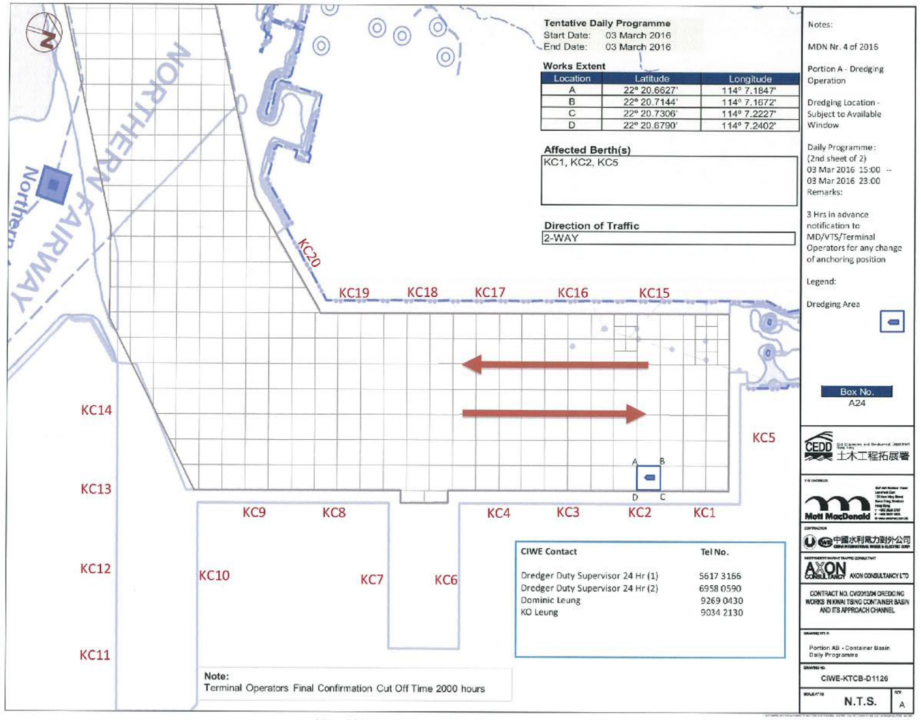

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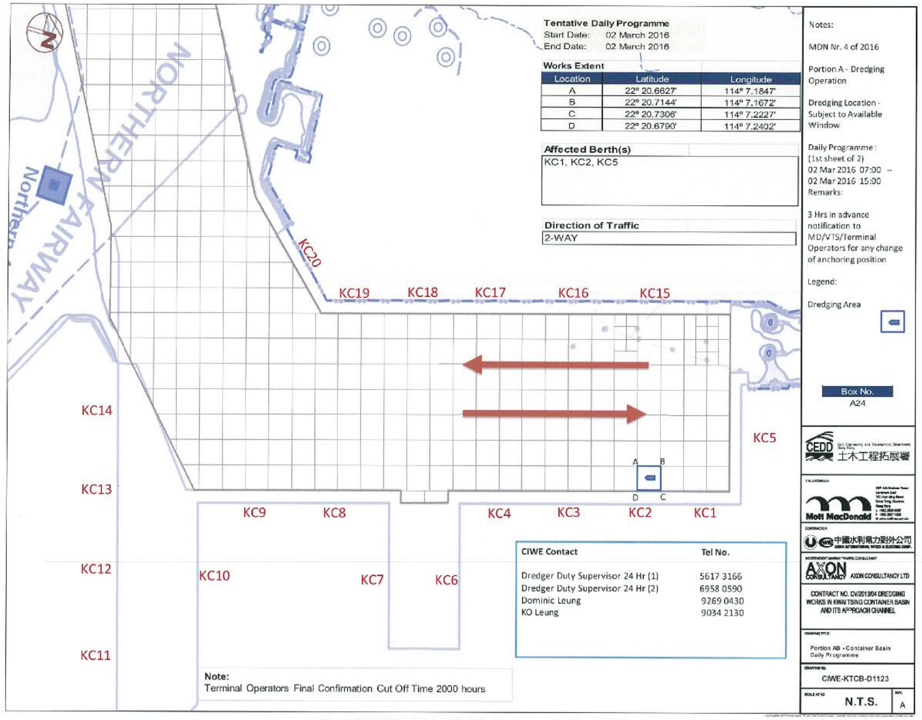

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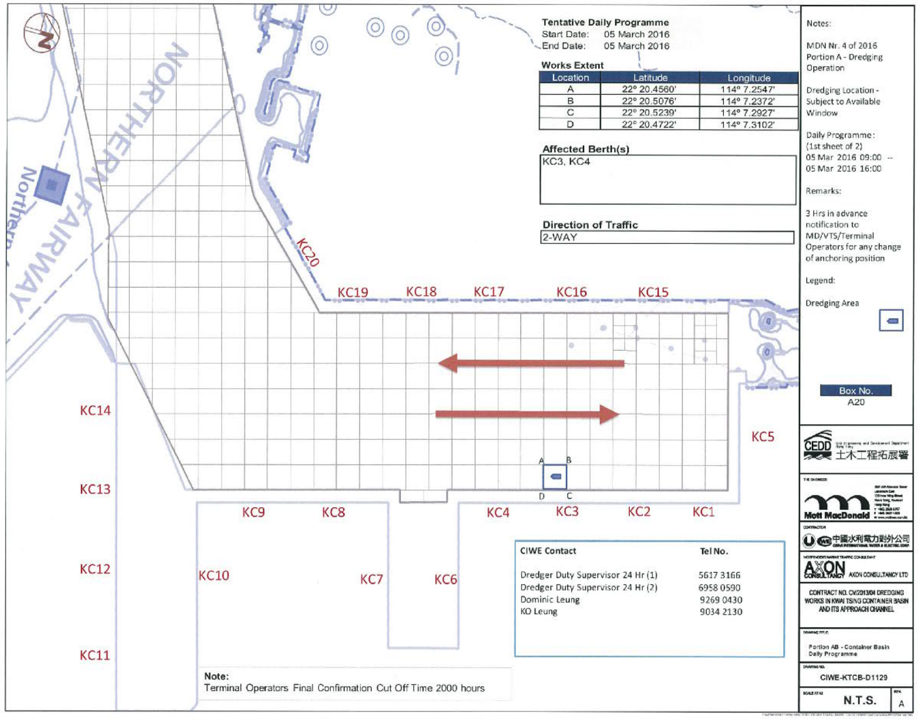

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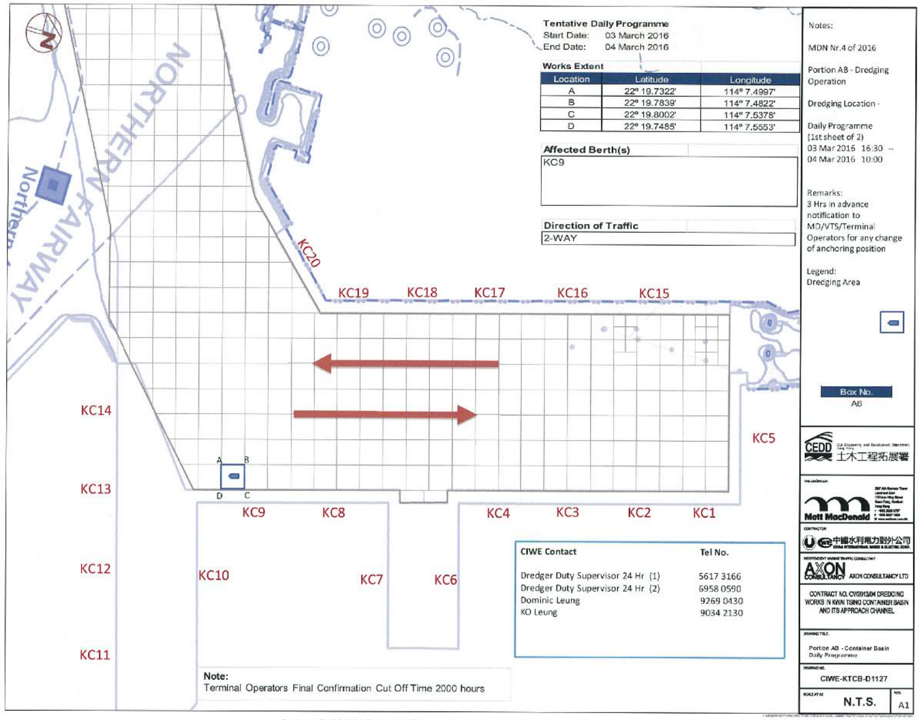

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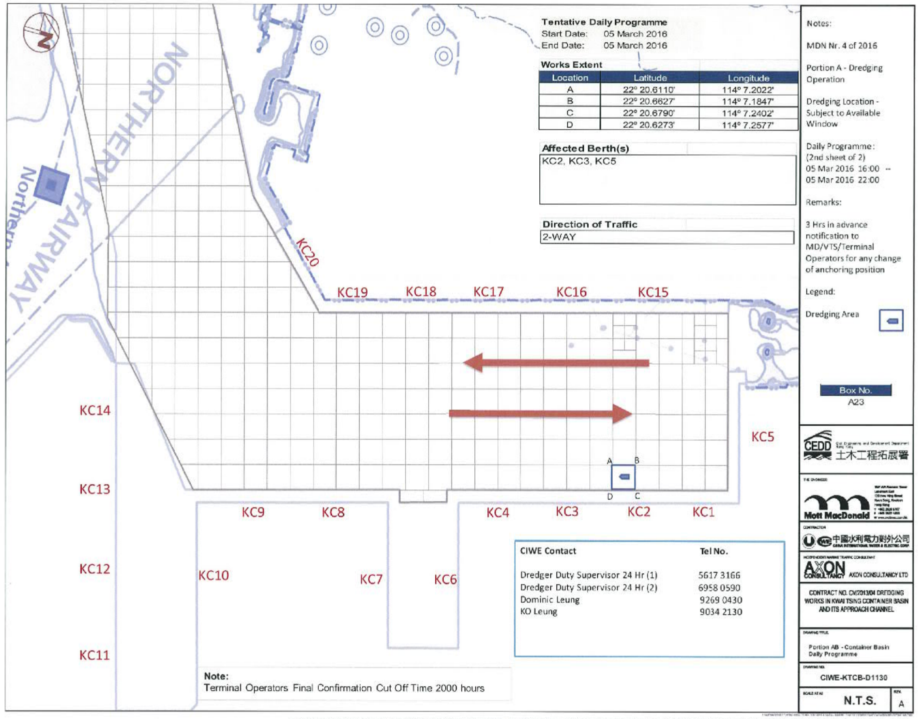

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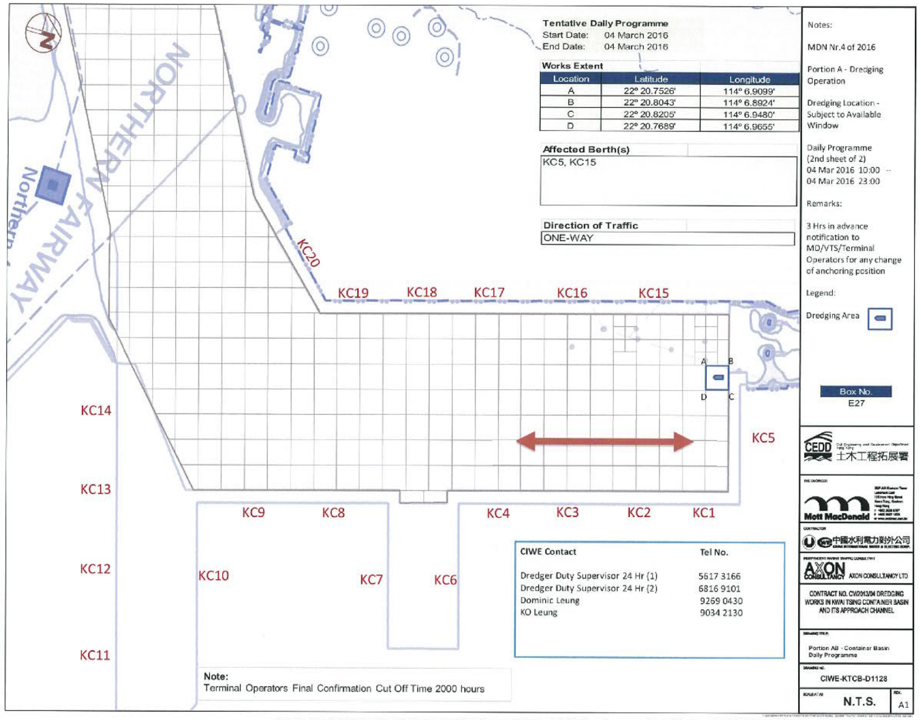

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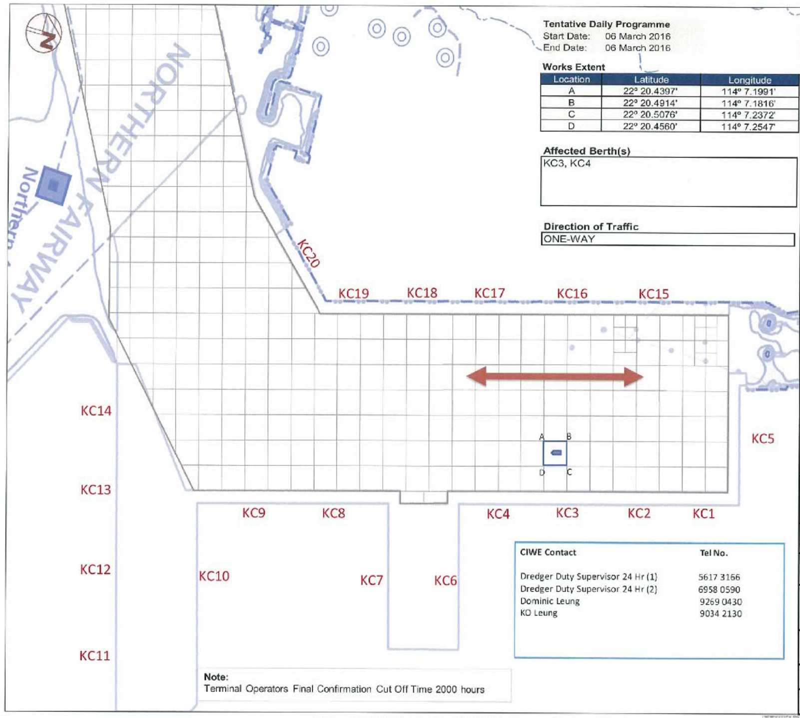

Tentative Daily Programme
Start Date: 06 March 2016
End Date: 06 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4397'	114° 7.1991'
B	22° 20.4914'	114° 7.1816'
C	22° 20.5076'	114° 7.2372'
D	22° 20.4560'	114° 7.2547'

Affected Berth(s)
KC3, KC4

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (3rd sheet of 4)
06 Mar 2016 15:00 --
06 Mar 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
B20

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Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

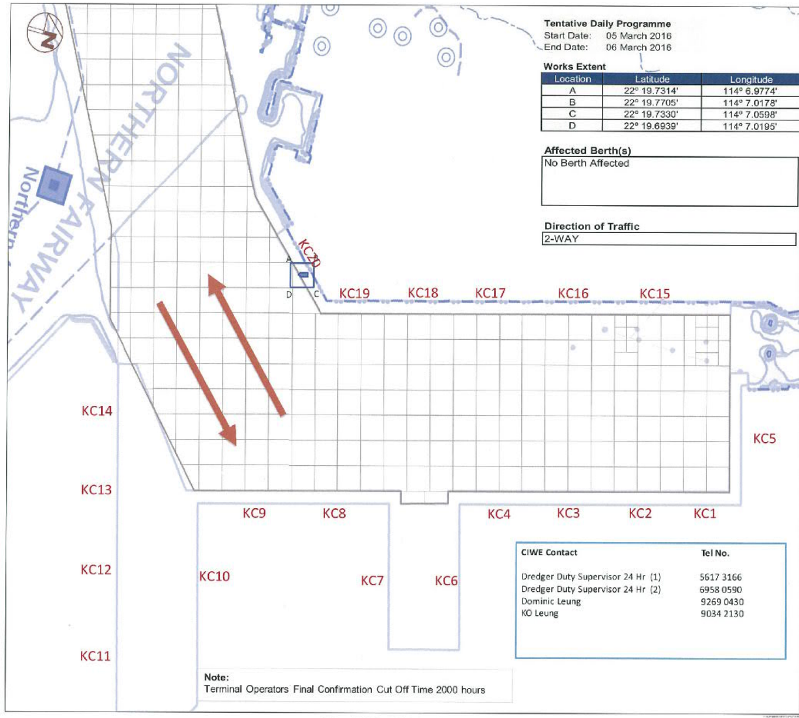
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1133

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-05 D1133 for B20.xlsx]Main



Tentative Daily Programme
Start Date: 05 March 2016
End Date: 06 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.7314'	114° 6.9774'
B	22° 19.7705'	114° 7.0178'
C	22° 19.7330'	114° 7.0598'
D	22° 19.6939'	114° 7.0195'

Affected Berth(s)
No Berth Affected

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location -

Daily Programme (1st sheet of 4)
05 Mar 2016 23:00 --
06 Mar 2016 07:00
(pls note that a standby tug is standing by)

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
J9

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

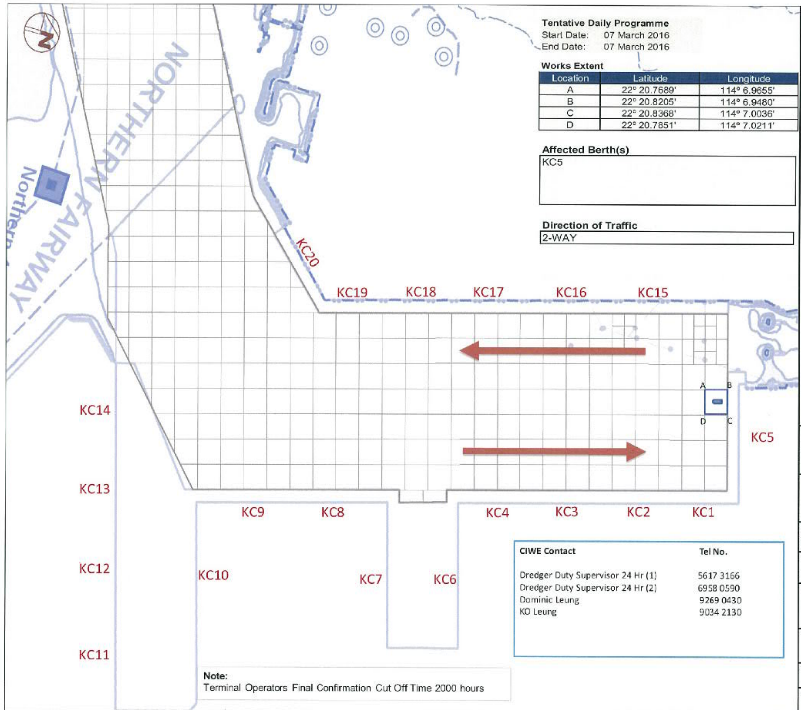
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1131

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-05 D1131 for J9.xlsx]Main



Tentative Daily Programme
Start Date: 07 March 2016
End Date: 07 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7689'	114° 6.9655'
B	22° 20.8205'	114° 6.9480'
C	22° 20.8368'	114° 7.0036'
D	22° 20.7851'	114° 7.0211'

Affected Berth(s)
KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (4th sheet of 4)
07 Mar 2016 07:00 --
07 Mar 2016 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
D27

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

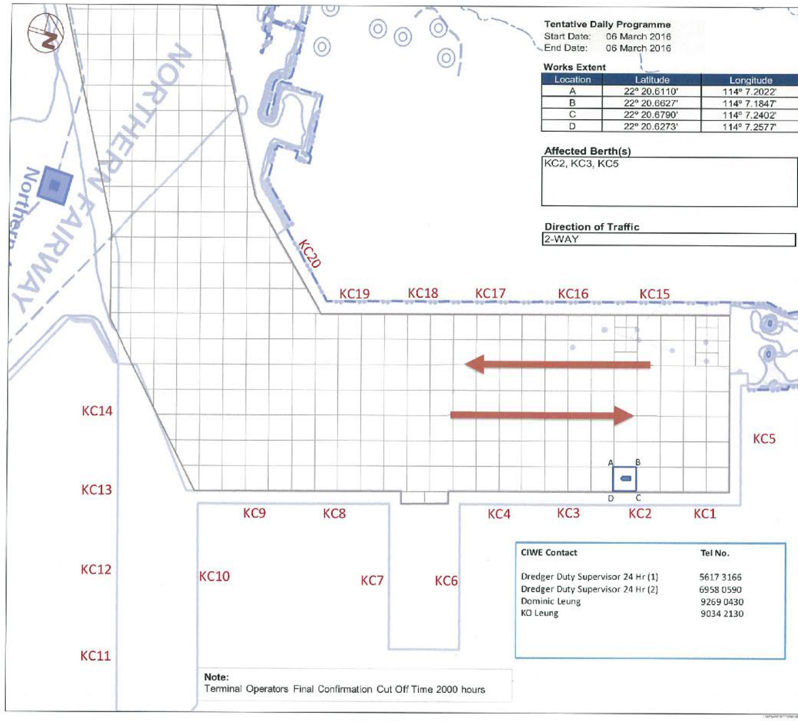
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1134

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-05 D1134 for D27.xlsx]Main



Tentative Daily Programme
Start Date: 06 March 2016
End Date: 06 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6110'	114° 7.2022'
B	22° 20.6627'	114° 7.1847'
C	22° 20.6790'	114° 7.2402'
D	22° 20.6273'	114° 7.2577'

Affected Berth(s)
KC2, KC3, KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme : (2nd sheet of 4)
06 Mar 2016 07:00 --
06 Mar 2016 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A23

CEDD 土木工程拓展署

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中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

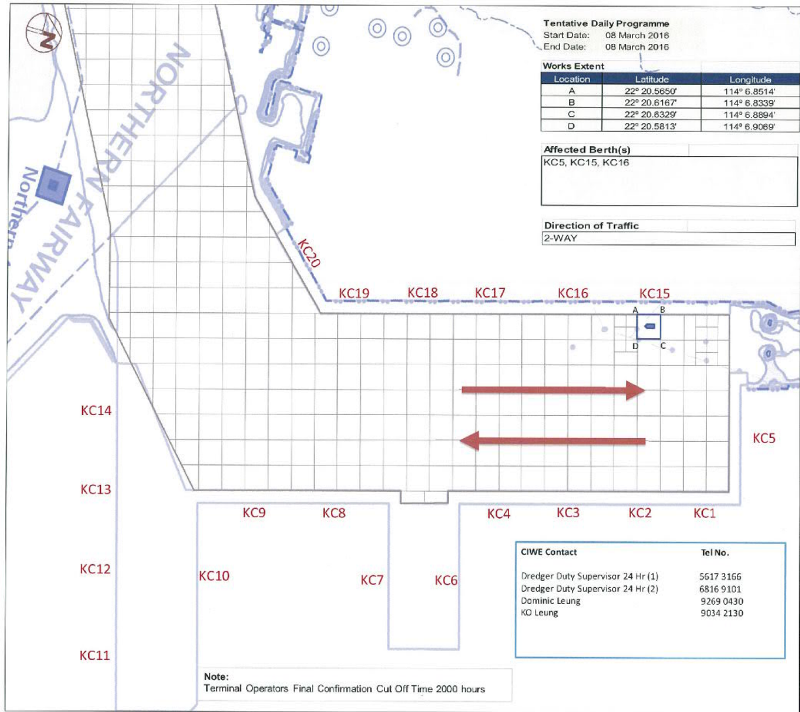
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1132

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-05 D1132 for A23.xlsx]Main



Tentative Daily Programme
Start Date: 08 March 2016
End Date: 08 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5650'	114° 6.8514'
B	22° 20.6167'	114° 6.8339'
C	22° 20.6329'	114° 6.8894'
D	22° 20.5813'	114° 6.9069'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 3)
08 Mar 2016 07:00 --
08 Mar 2016 17:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G24

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER Mott MacDonald

CONTRACTOR 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT AXON CONSULTANCY AXON CONSULTANCY LTD

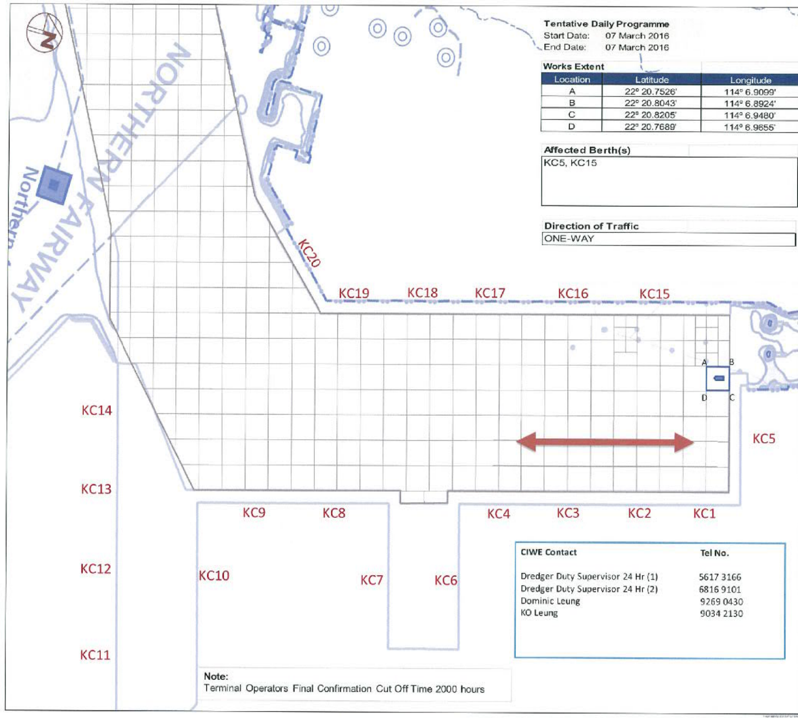
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1136

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-07 D1136 for G24.xlsx]Main



Tentative Daily Programme
Start Date: 07 March 2016
End Date: 07 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7526'	114° 6.9099'
B	22° 20.8043'	114° 6.8924'
C	22° 20.8205'	114° 6.9480'
D	22° 20.7689'	114° 6.9655'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
07 Mar 2016 18:00 --
07 Mar 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
E27

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER Mott MacDonald

CONTRACTOR 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT AXON CONSULTANCY AXON CONSULTANCY LTD

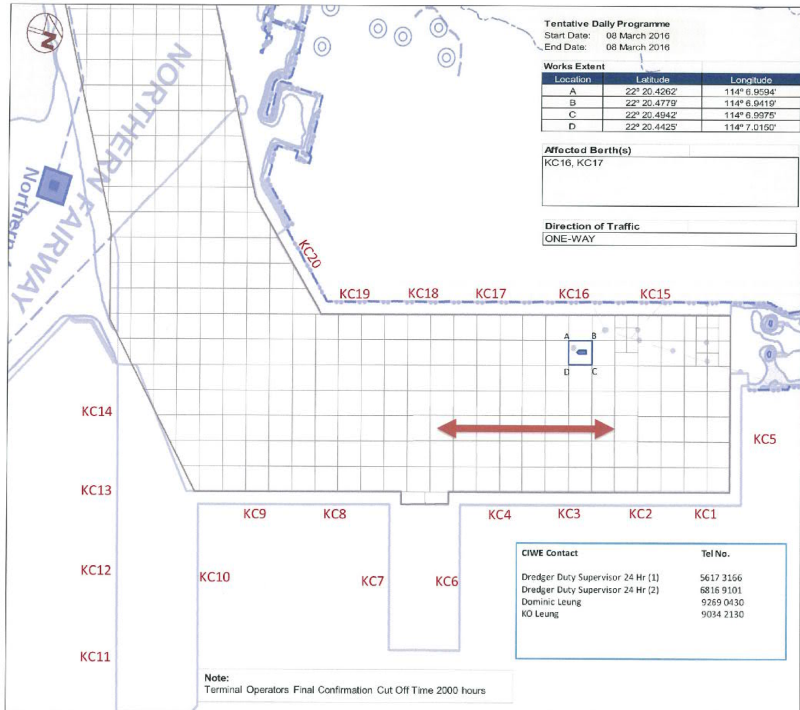
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1128

SCALE AT A3: N.T.S. REV. A1

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-03 D1128 for E27 (revised).xlsx]Main



Tentative Daily Programme
Start Date: 08 March 2016
End Date: 08 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4262'	114° 6.9594'
B	22° 20.4779'	114° 6.9419'
C	22° 20.4942'	114° 6.9975'
D	22° 20.4425'	114° 7.0150'

Affected Berth(s)
KC16, KC17

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2015

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 3)
08 Mar 2016 17:00 --
08 Mar 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F21

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER Mott MacDonald

CONTRACTOR 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT AXON CONSULTANCY AXON CONSULTANCY LTD

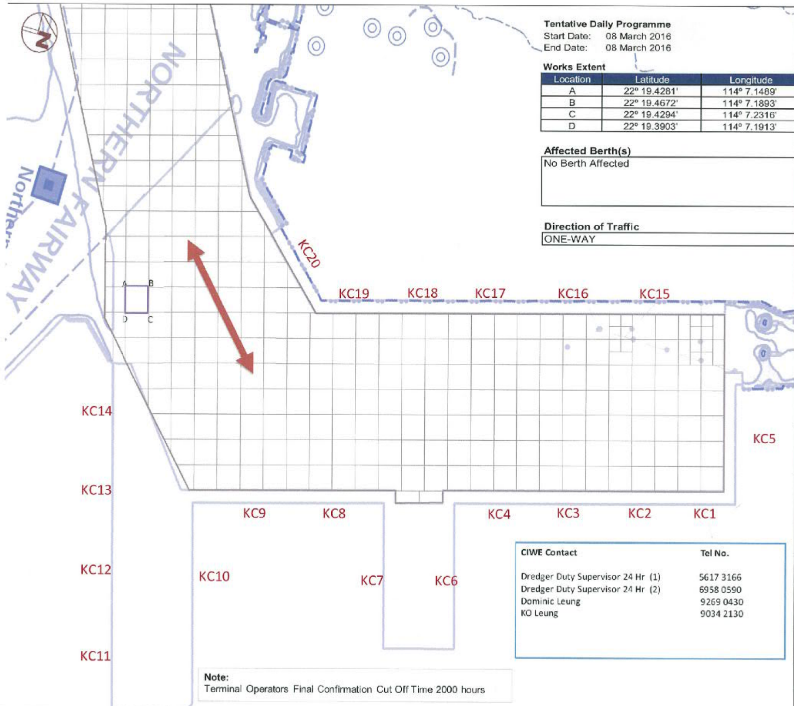
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1137

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-07 D1137 for F21.xlsx]Main



Tentative Daily Programme
Start Date: 08 March 2016
End Date: 08 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.4281'	114° 7.1489'
B	22° 19.4672'	114° 7.1893'
C	22° 19.4294'	114° 7.2316'
D	22° 19.3903'	114° 7.1913'

Affected Berth(s)
No Berth Affected

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2015

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(1st sheet of 3)
08 Mar 2016 01:00 --
08 Mar 2016 07:00
(pls note that a standby tug is standing by)

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
H2

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER Mott MacDonald

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INDEPENDENT MARINE TRAFFIC CONSULTANT AXON CONSULTANCY AXON CONSULTANCY LTD

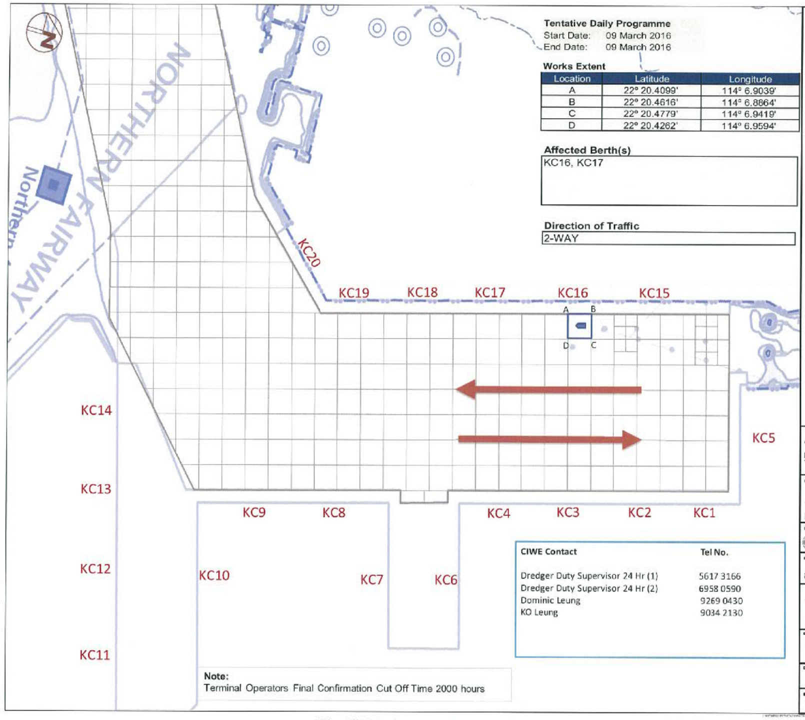
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1135

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-07 D1135 for H2.xlsx]Main



Tentative Daily Programme
Start Date: 09 March 2016
End Date: 09 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4099'	114° 6.9039'
B	22° 20.4616'	114° 6.8864'
C	22° 20.4779'	114° 6.9419'
D	22° 20.4262'	114° 6.9594'

Affected Berth(s)
KC16, KC17

Direction of Traffic
2-WAY

CIWE Contact

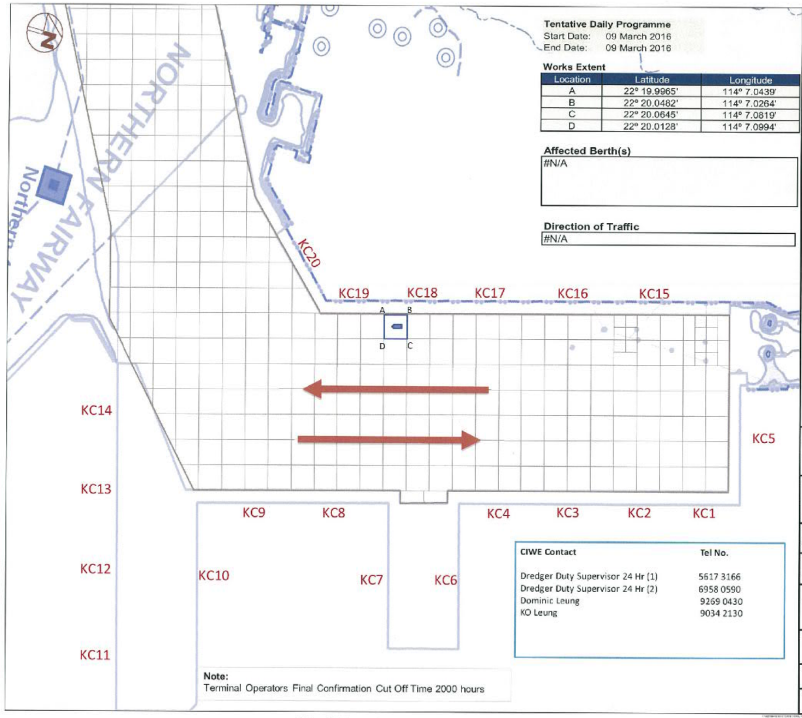
	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 3) 09 Mar 2016 18:00 – 09 Mar 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. G21

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1141
N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-01-20 D1047 for G21.xlsx]Main



Tentative Daily Programme
Start Date: 09 March 2016
End Date: 09 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9965'	114° 7.0439'
B	22° 20.0482'	114° 7.0264'
C	22° 20.0645'	114° 7.0819'
D	22° 20.0128'	114° 7.0994'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

CIWE Contact

	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (1st sheet of 3) 09 Mar 2016 01:00 – 09 Mar 2016 07:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. G13-G12

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1139
N.T.S. A

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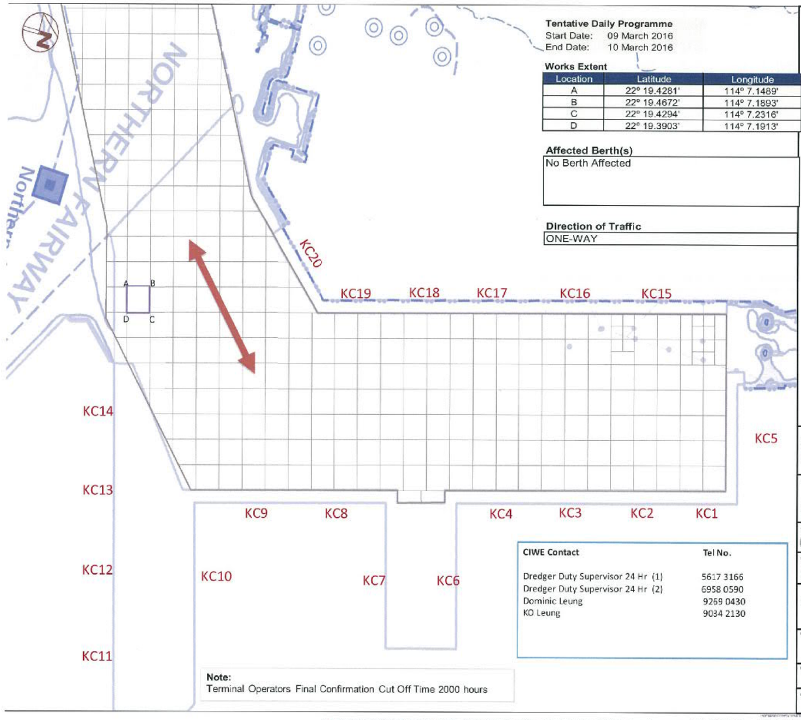

Tentative Daily Programme
Start Date: 09 March 2016
End Date: 10 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.4281'	114° 7.1489'
B	22° 19.4672'	114° 7.1893'
C	22° 19.4294'	114° 7.2316'
D	22° 19.3903'	114° 7.1913'

Affected Berth(s)
No Berth Affected

Direction of Traffic
ONE-WAY

CIWE Contact

	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (1st sheet of 3) 09 Mar 2016 23:00 – 10 Mar 2016 05:00
(pls note that a standby tug is standing by)
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. H2

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1142
N.T.S. A

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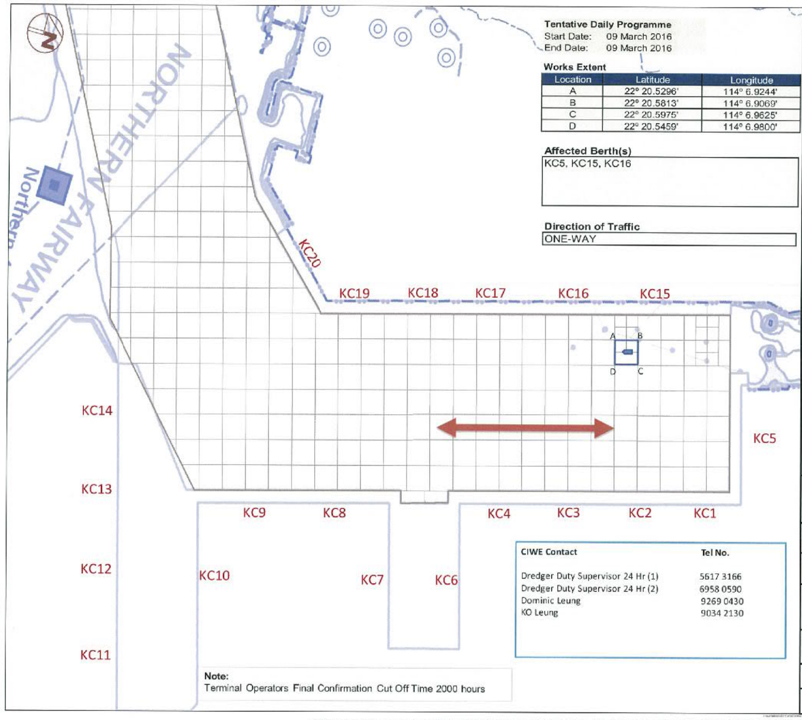

Tentative Daily Programme
Start Date: 09 March 2016
End Date: 09 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
ONE-WAY

CIWE Contact

	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr.4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 3) 09 Mar 2016 07:00 – 09 Mar 2016 16:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. F23

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1140
N.T.S. A

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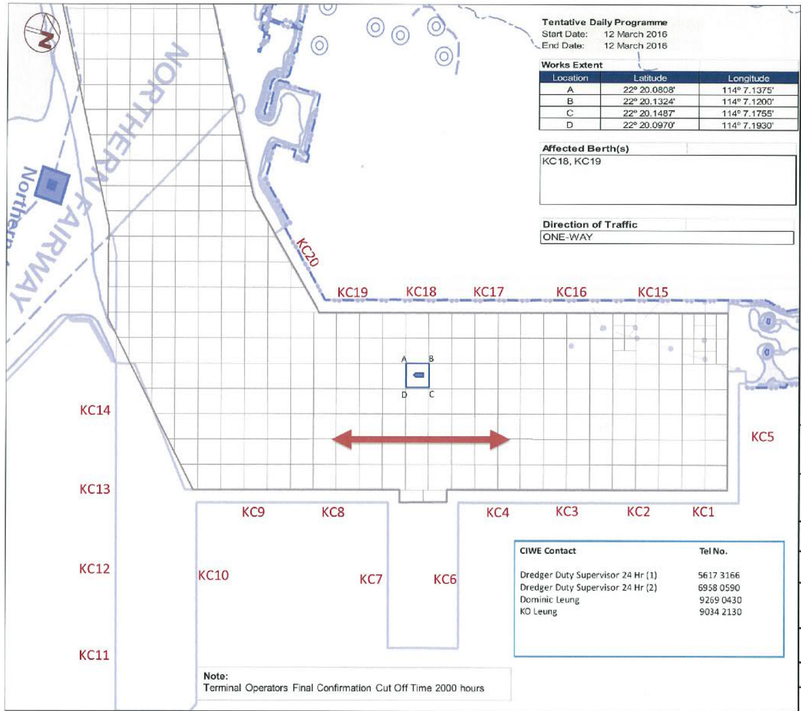

Tentative Daily Programme
Start Date: 12 March 2016
End Date: 12 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0808'	114° 7.1375'
B	22° 20.1324'	114° 7.1200'
C	22° 20.1487'	114° 7.1755'
D	22° 20.0970'	114° 7.1930'

Affected Berth(s)
KC18, KC19

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (1st sheet of 3)
12 Mar 2016 01:00 -- 12 Mar 2016 07:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

Box No.
E14

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1146
N.T.S.
A

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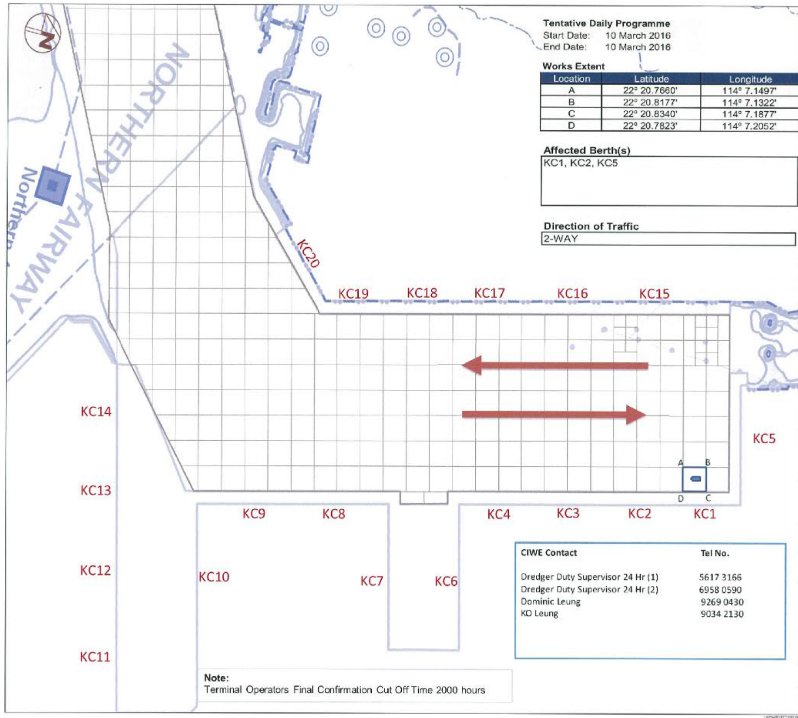

Tentative Daily Programme
Start Date: 10 March 2016
End Date: 10 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7660'	114° 7.1497'
B	22° 20.8177'	114° 7.1322'
C	22° 20.8340'	114° 7.1877'
D	22° 20.7823'	114° 7.2052'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme : (2nd of sheet 3)
10 Mar 2016 08:00 -- 10 Mar 2016 15:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

Box No.
A26

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1143
N.T.S.

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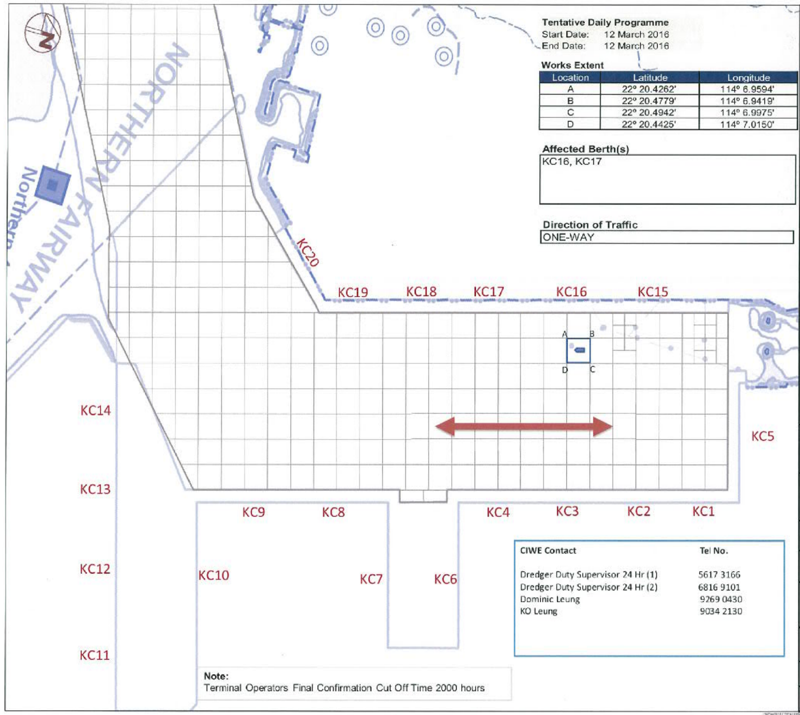

Tentative Daily Programme
Start Date: 12 March 2016
End Date: 12 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4262'	114° 6.9594'
B	22° 20.4779'	114° 6.9419'
C	22° 20.4942'	114° 6.9975'
D	22° 20.4425'	114° 7.0150'

Affected Berth(s)
KC16, KC17

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr. 4 of 2015
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 3)
12 Mar 2016 08:00 -- 12 Mar 2016 16:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

Box No.
F21

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1147
N.T.S.
A

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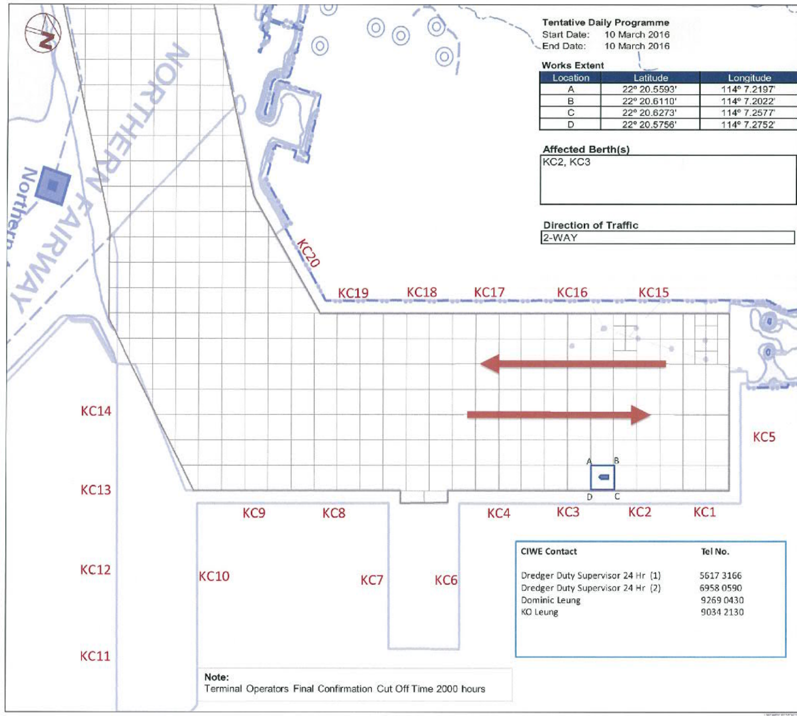

Tentative Daily Programme
Start Date: 10 March 2016
End Date: 10 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5593'	114° 7.2197'
B	22° 20.6110'	114° 7.2022'
C	22° 20.6273'	114° 7.2577'
D	22° 20.5756'	114° 7.2752'

Affected Berth(s)
KC2, KC3

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:
MDN Nr.4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme : (3rd sheet of r)
10 Mar 2016 15:00 -- 10 Mar 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

Box No.
A22

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1144
N.T.S.
A

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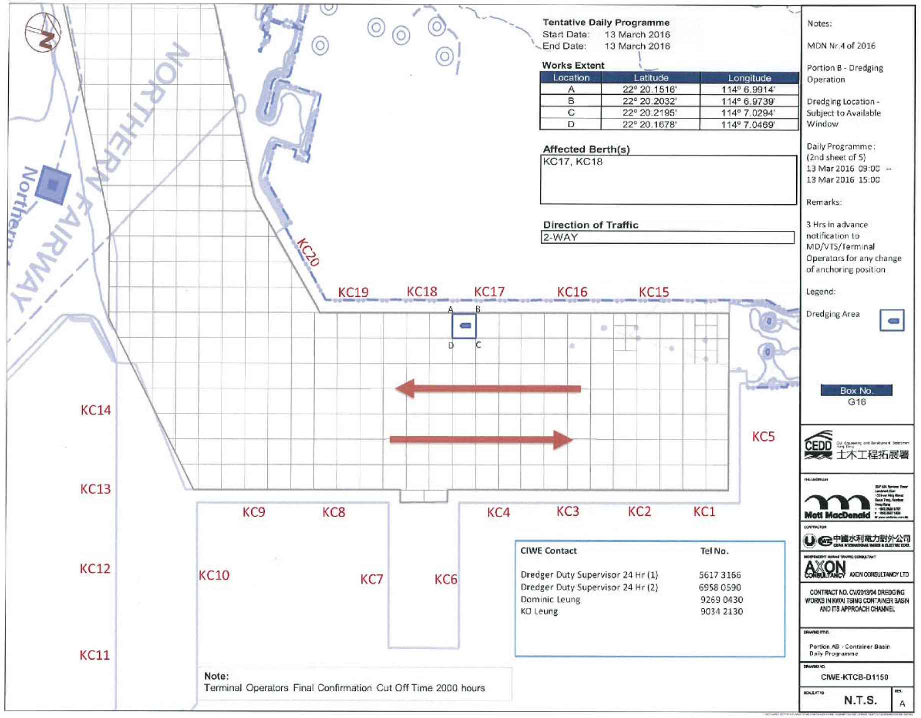

Tentative Daily Programme
Start Date: 13 March 2016
End Date: 13 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.1516'	114° 6.9914'
B	22° 20.2032'	114° 6.9739'
C	22° 20.2195'	114° 7.0294'
D	22° 20.1678'	114° 7.0469'

Affected Berth(s)
KC17, KC18

Direction of Traffic
2-WAY

Notes:
MDN Nr.4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (2nd sheet of 5) 13 Mar 2016 09:00 -- 13 Mar 2016 15:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. G16

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1150
N.T.S.
A

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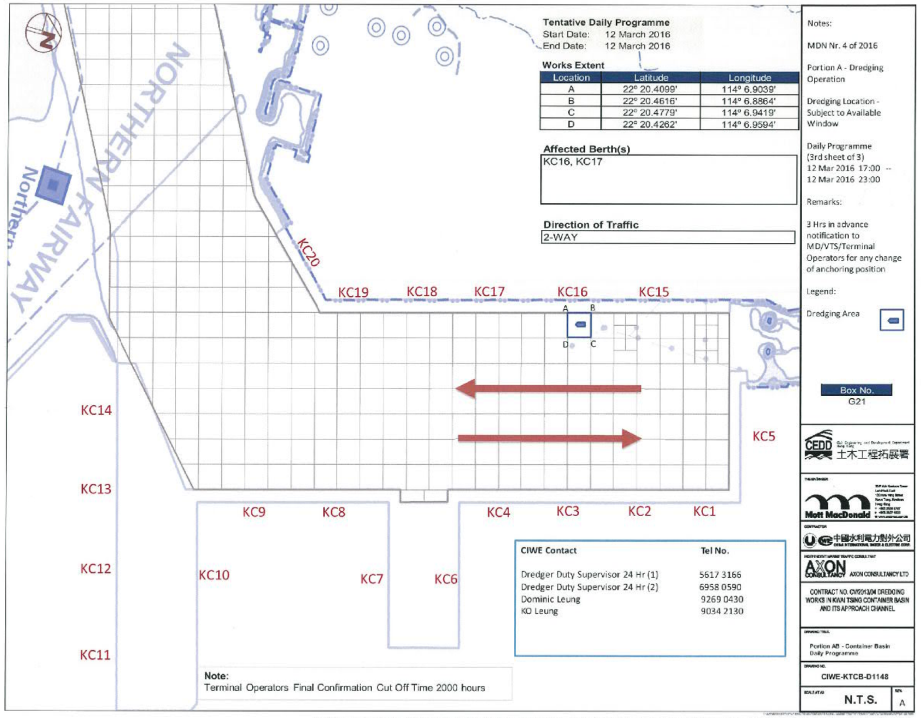

Tentative Daily Programme
Start Date: 12 March 2016
End Date: 12 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4099'	114° 6.9039'
B	22° 20.4616'	114° 6.8864'
C	22° 20.4779'	114° 6.9419'
D	22° 20.4262'	114° 6.9594'

Affected Berth(s)
KC16, KC17

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 3) 12 Mar 2016 17:00 -- 12 Mar 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. G21

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1148
N.T.S.
A

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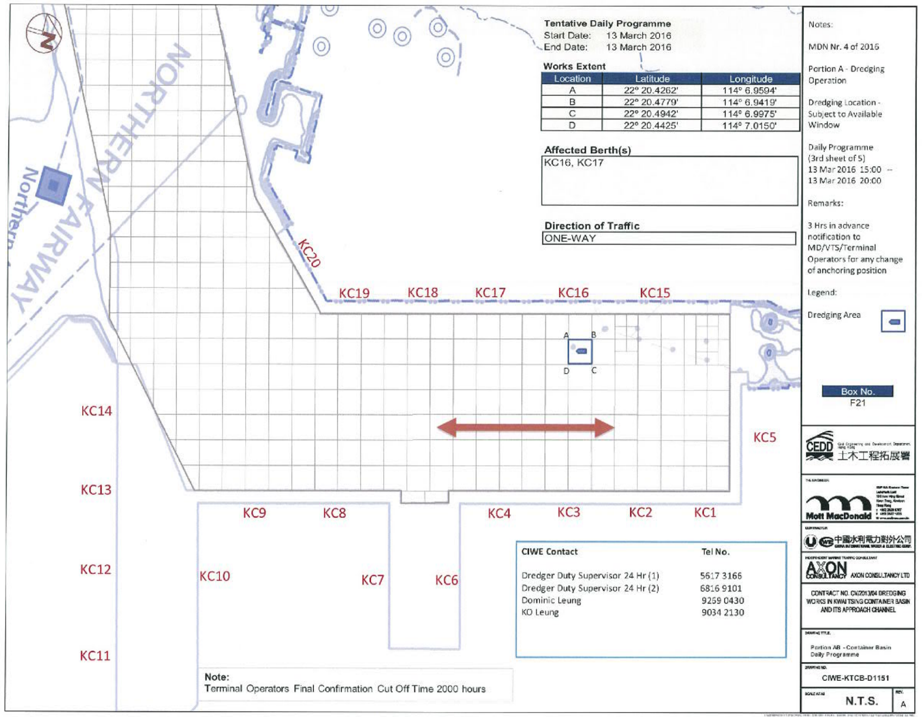

Tentative Daily Programme
Start Date: 13 March 2016
End Date: 13 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4262'	114° 6.9594'
B	22° 20.4779'	114° 6.9419'
C	22° 20.4942'	114° 6.9975'
D	22° 20.4425'	114° 7.0150'

Affected Berth(s)
KC16, KC17

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 5) 13 Mar 2016 15:00 -- 13 Mar 2016 20:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. F21

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1151
N.T.S.
A

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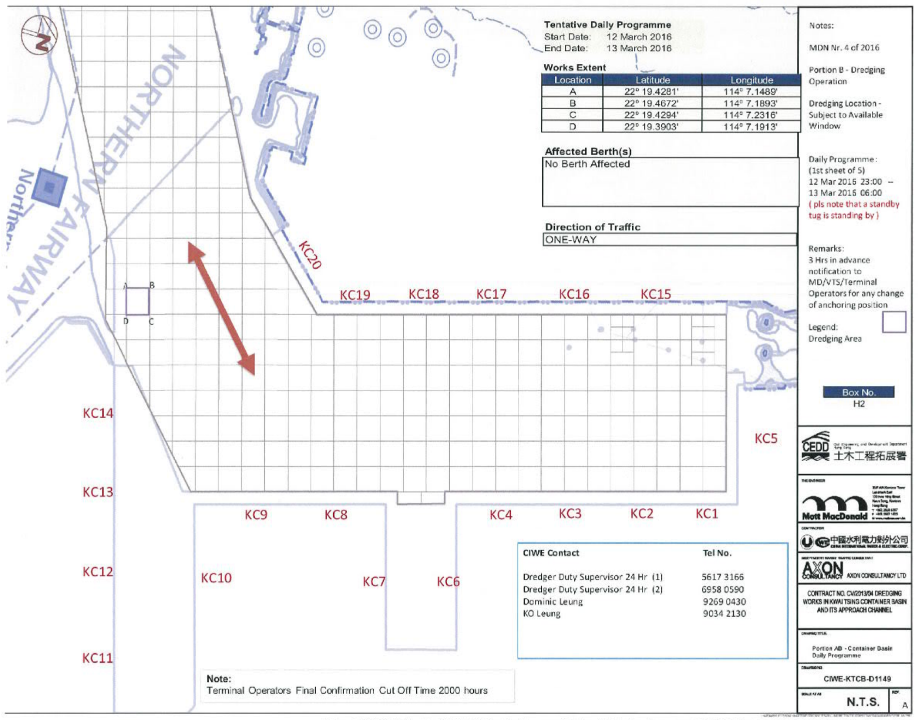

Tentative Daily Programme
Start Date: 12 March 2016
End Date: 13 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.4281'	114° 7.1489'
B	22° 19.4672'	114° 7.1893'
C	22° 19.4294'	114° 7.2316'
D	22° 19.3903'	114° 7.1913'

Affected Berth(s)
No Berth Affected

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (1st sheet of 5) 12 Mar 2016 23:00 -- 13 Mar 2016 06:00
(pls note that a standby tug is standing by)
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No. H2

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1149
N.T.S.
A

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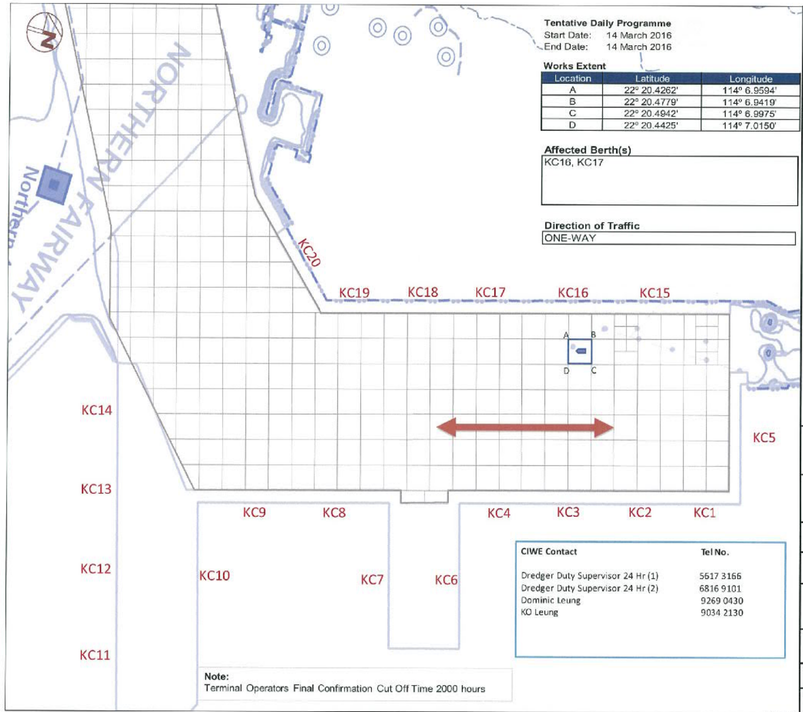

Tentative Daily Programme
Start Date: 14 March 2016
End Date: 14 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4262'	114° 6.9594'
B	22° 20.4779'	114° 6.9419'
C	22° 20.4942'	114° 6.9975'
D	22° 20.4425'	114° 7.0150'

Affected Berth(s)
KC16, KC17

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 4)
14 Mar 2016 18:00 --
14 Mar 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F21

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1154

N.T.S. | A

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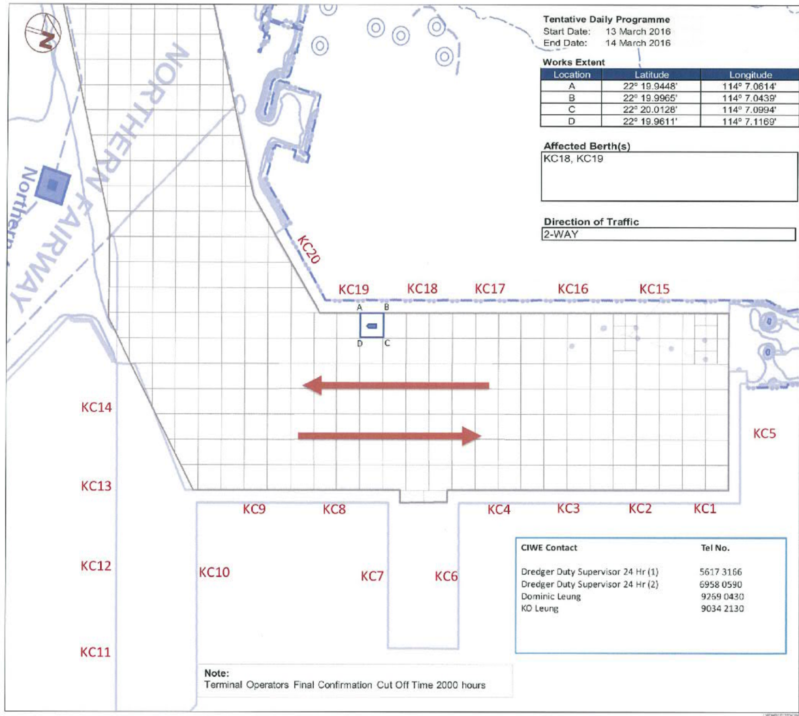

Tentative Daily Programme
Start Date: 13 March 2016
End Date: 14 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9448'	114° 7.0614'
B	22° 19.9965'	114° 7.0439'
C	22° 20.0128'	114° 7.0994'
D	22° 19.9611'	114° 7.1169'

Affected Berth(s)
KC18, KC19

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(4th sheet of 5)
13 Mar 2016 20:00 --
14 Mar 2016 01:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G12

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1152

N.T.S. | A

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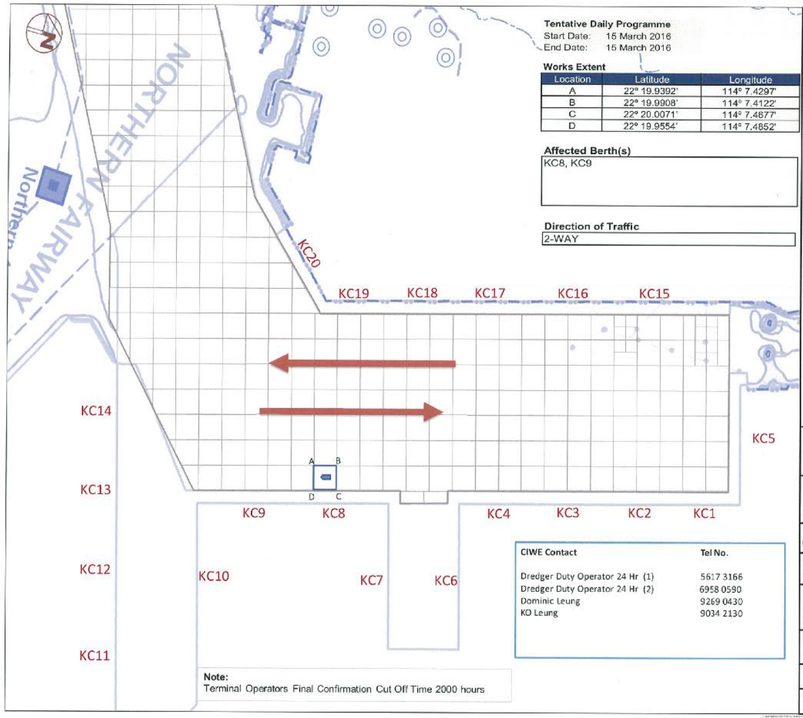


Tentative Daily Programme
Start Date: 15 March 2016
End Date: 15 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9392'	114° 7.4297'
B	22° 19.9908'	114° 7.4122'
C	22° 20.0071'	114° 7.4677'
D	22° 19.9554'	114° 7.4852'

Affected Berth(s)
KC8, KC9

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Operator 24 Hr (1)	5617 3166
Dredger Duty Operator 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 20146
Portion B - Dredging Operation

Dredging Location - Subject to Available Window
Daily Programme :
(2nd sheet of 4)
15 Mar 2016 04:00 --
15 Mar 2016 08:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A10

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY AXON CONSULTANCY LTD

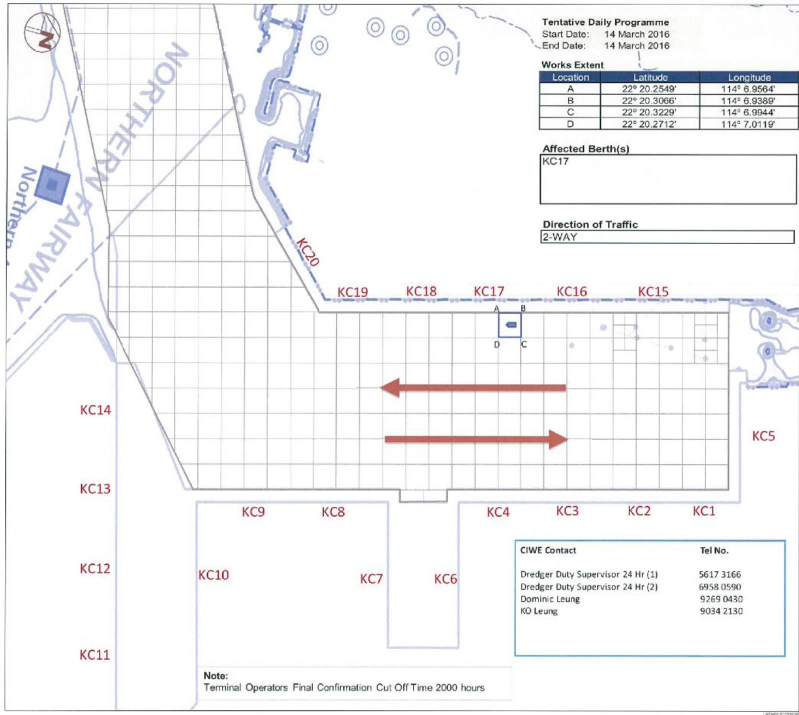
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1155

N.T.S. | A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-14 D1155 for A10.xlsx]Main



Tentative Daily Programme
Start Date: 14 March 2016
End Date: 14 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2549'	114° 6.9564'
B	22° 20.3066'	114° 6.9389'
C	22° 20.3229'	114° 6.9944'
D	22° 20.2712'	114° 7.0119'

Affected Berth(s)
KC17

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(5th sheet of 5)
14 Mar 2016 13:00 --
14 Mar 2016 18:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G18

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY AXON CONSULTANCY LTD

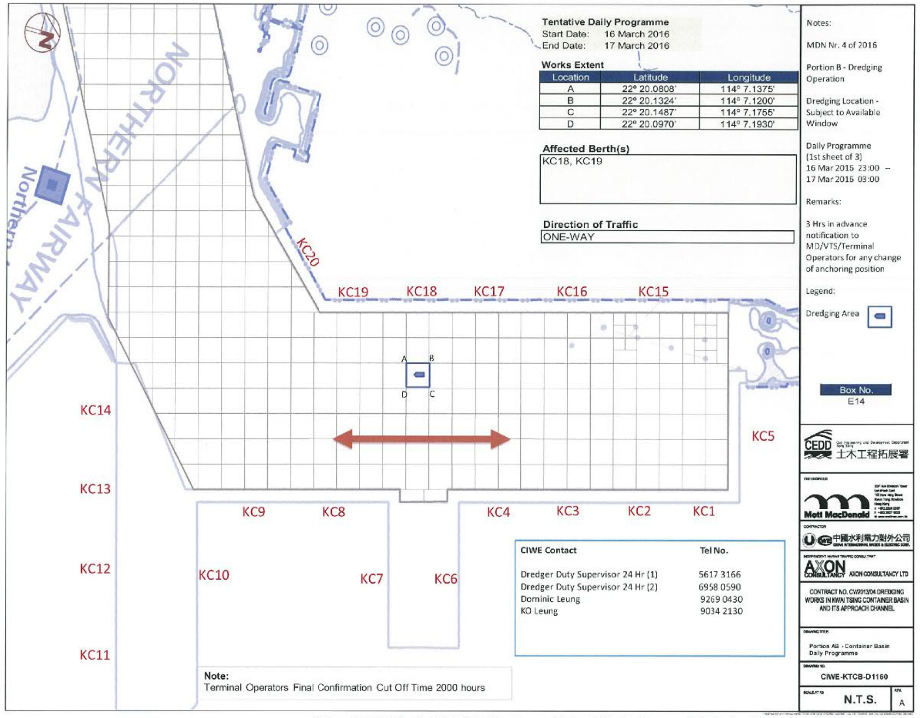
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

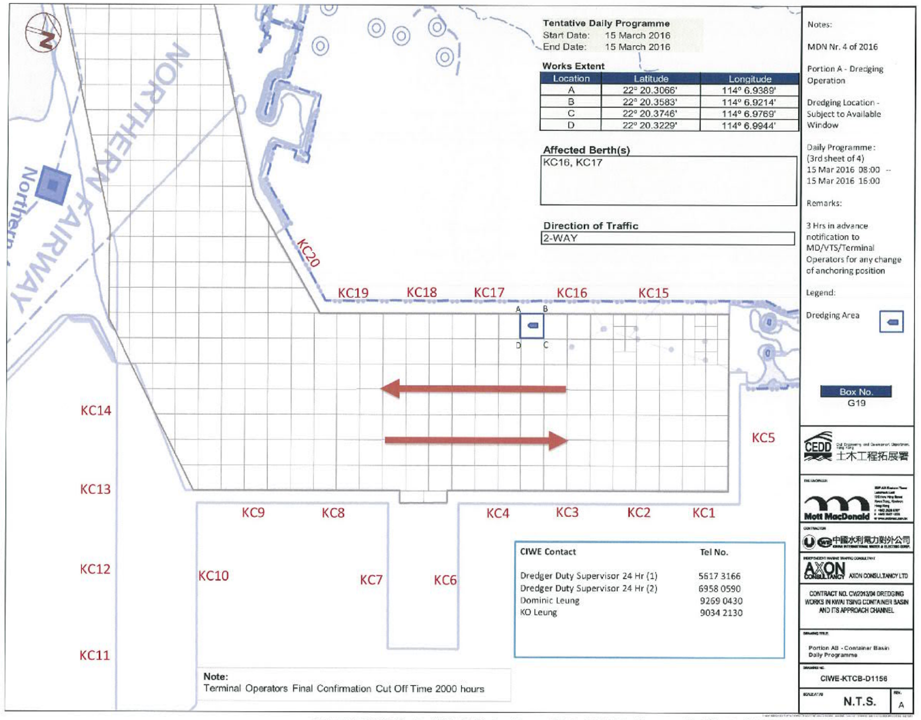
CIWE-KTCB-D1153

N.T.S. | A

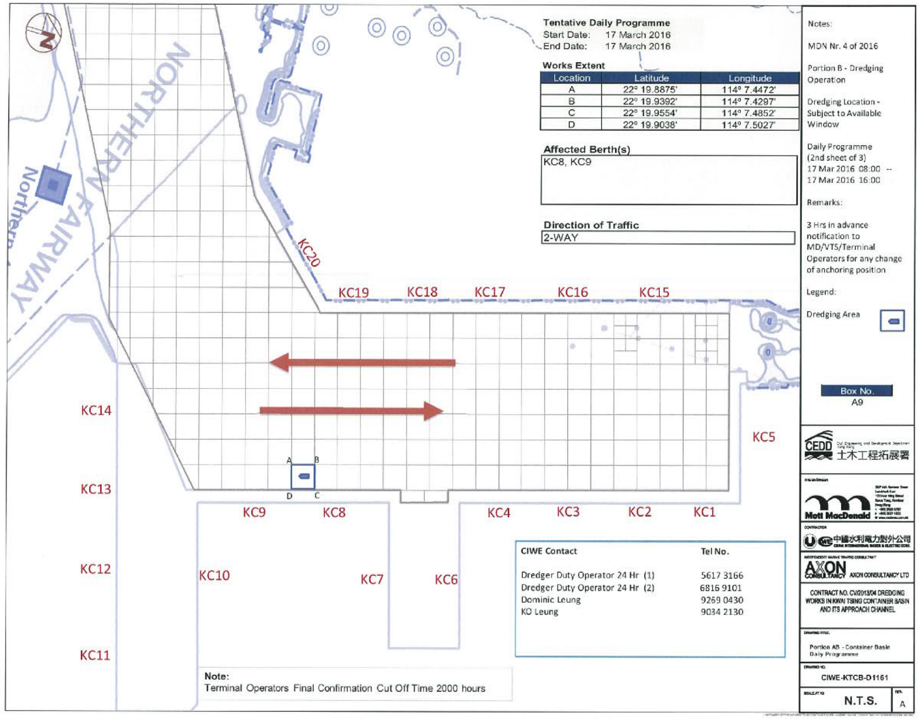
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-12 D1153 for G18.xlsx]Main



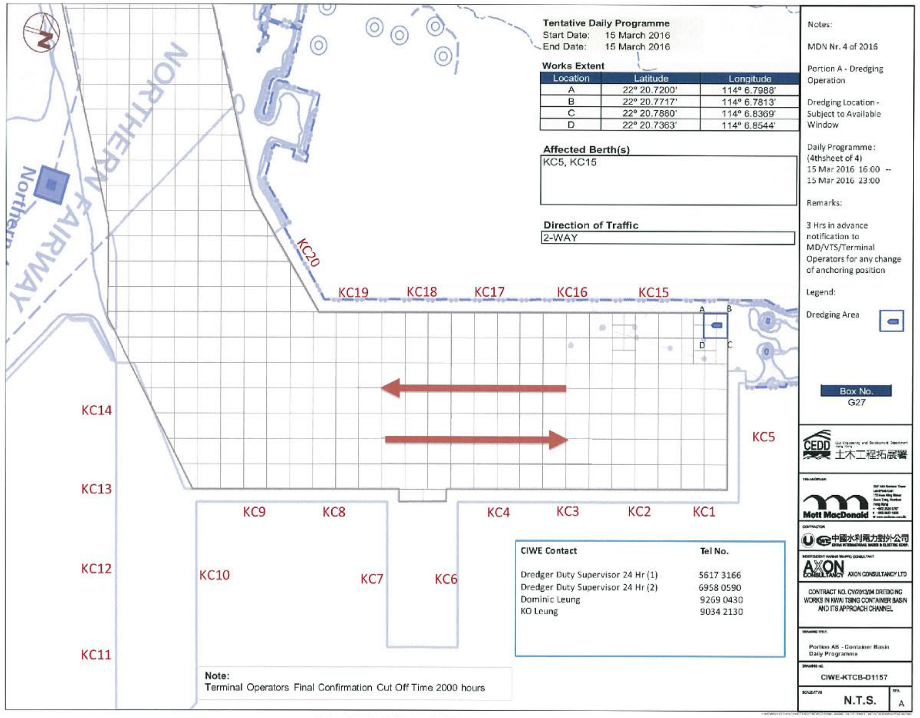
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-16 D1160 for E14.xlsx]Main



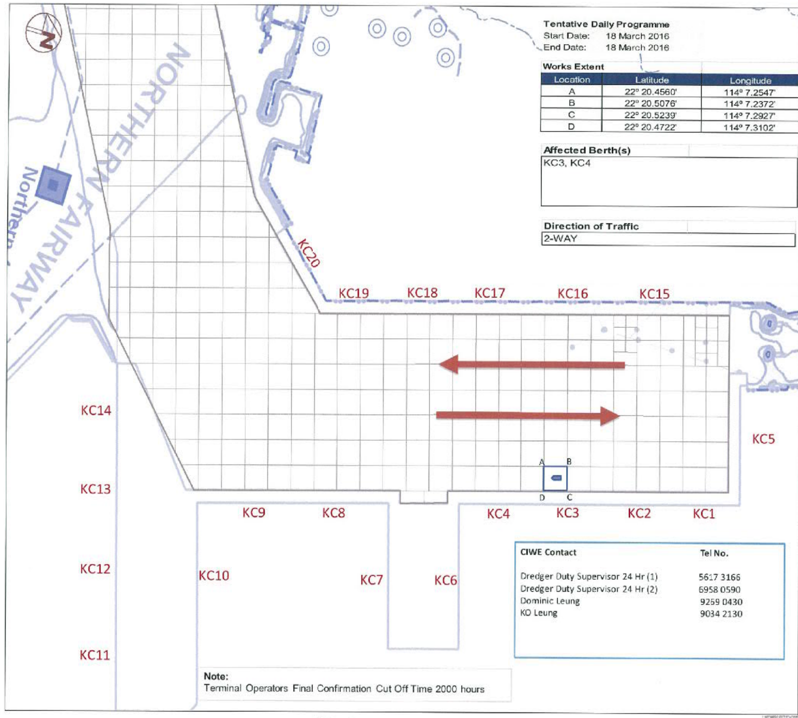
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-14 D1156 for G19.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-16 D1161 for A9.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-14 D1156 for G19.xlsx]Main



Tentative Daily Programme
Start Date: 18 March 2016
End Date: 18 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4560'	114° 7.2547'
B	22° 20.5076'	114° 7.2372'
C	22° 20.5239'	114° 7.2927'
D	22° 20.4722'	114° 7.3102'

Affected Berth(s)
KC3, KC4

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016
Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 4)
18 Mar 2016 07:00 --
18 Mar 2016 12:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A20

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

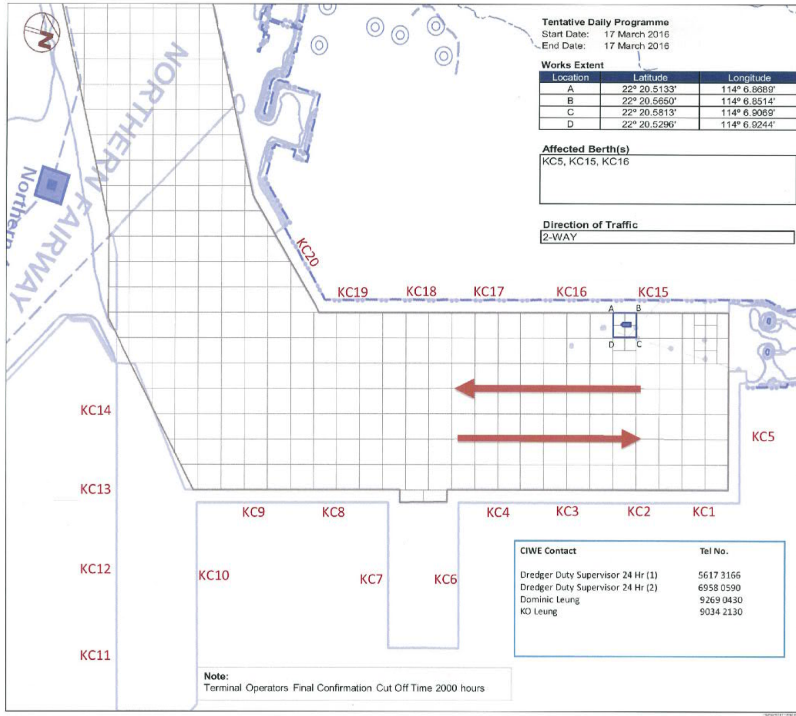
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO. CIWE-KTCB-D1164

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-17 D1164 for A20.xlsx]Main



Tentative Daily Programme
Start Date: 17 March 2016
End Date: 17 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5133'	114° 6.8689'
B	22° 20.5650'	114° 6.8514'
C	22° 20.5813'	114° 6.9069'
D	22° 20.5296'	114° 6.9244'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 3)
17 Mar 2016 16:00 --
17 Mar 2016 21:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G23

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

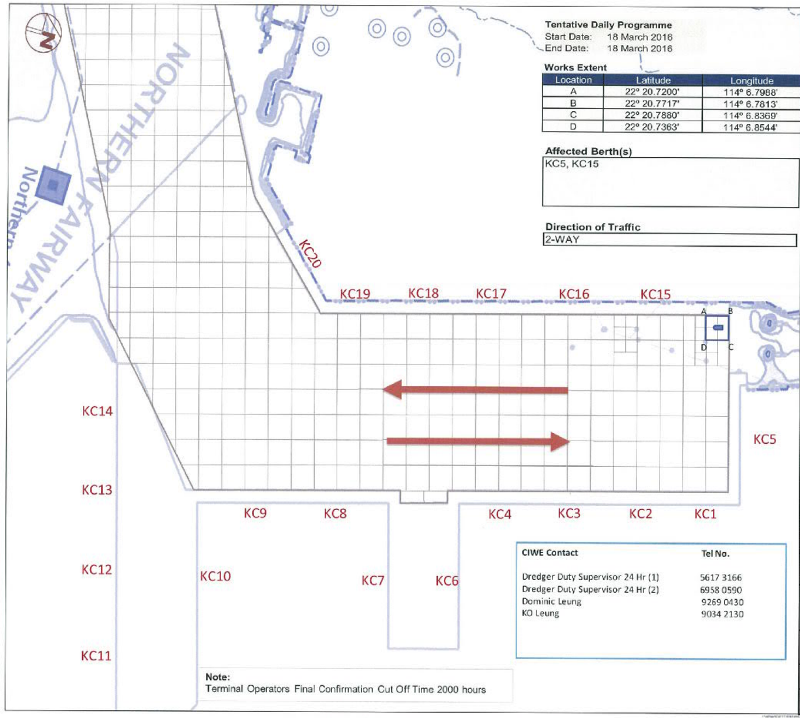
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO. CIWE-KTCB-D1162

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-16 D1162 for G23.xlsx]Main



Tentative Daily Programme
Start Date: 18 March 2016
End Date: 18 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7200'	114° 6.7988'
B	22° 20.7717'	114° 6.7813'
C	22° 20.7880'	114° 6.8369'
D	22° 20.7363'	114° 6.8544'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(3rd sheet of 4)
18 Mar 2016 12:00 --
18 Mar 2016 19:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G27

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

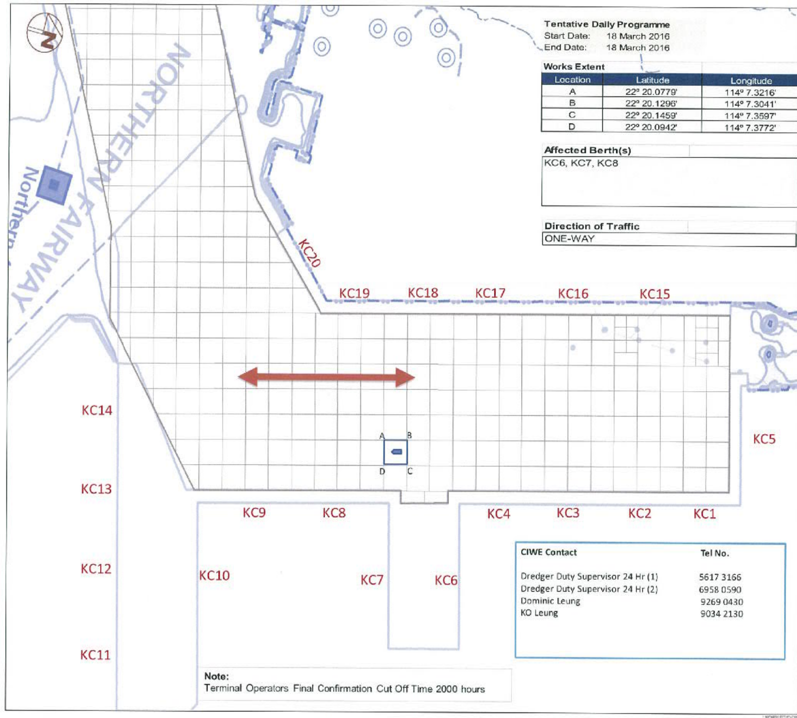
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO. CIWE-KTCB-D1165

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-17 D1165 for G27.xlsx]Main



Tentative Daily Programme
Start Date: 18 March 2016
End Date: 18 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0779'	114° 7.3216'
B	22° 20.1296'	114° 7.3041'
C	22° 20.1459'	114° 7.3597'
D	22° 20.0942'	114° 7.3772'

Affected Berth(s)
KC6, KC7, KC8

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 4)
18 Mar 2016 00:00 --
18 Mar 2016 04:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
B13

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

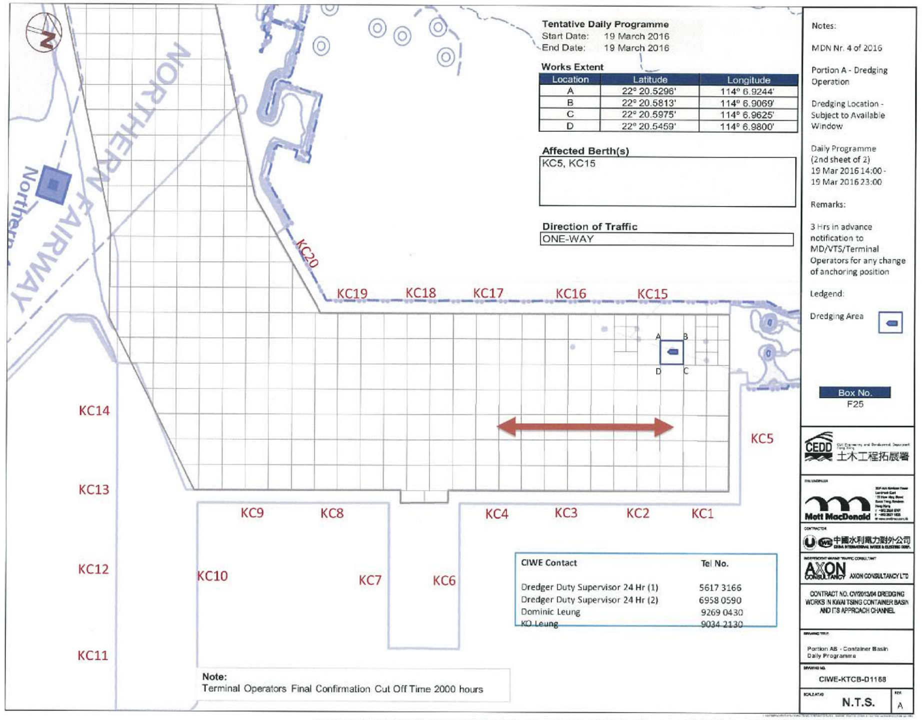
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

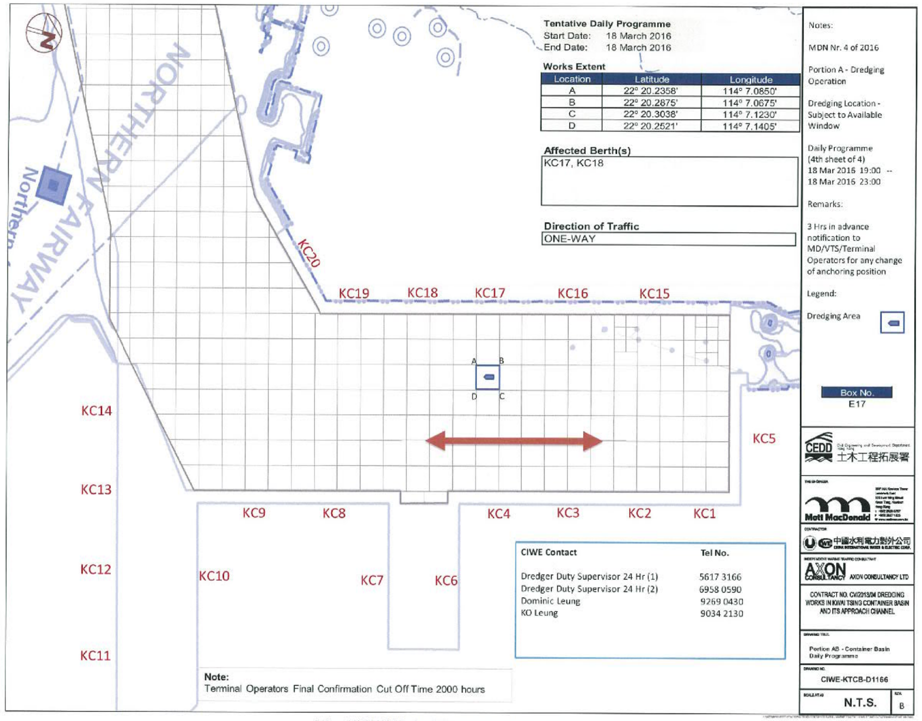
DRAWING NO. CIWE-KTCB-D1163

SCALE AT A3: N.T.S. REV. A

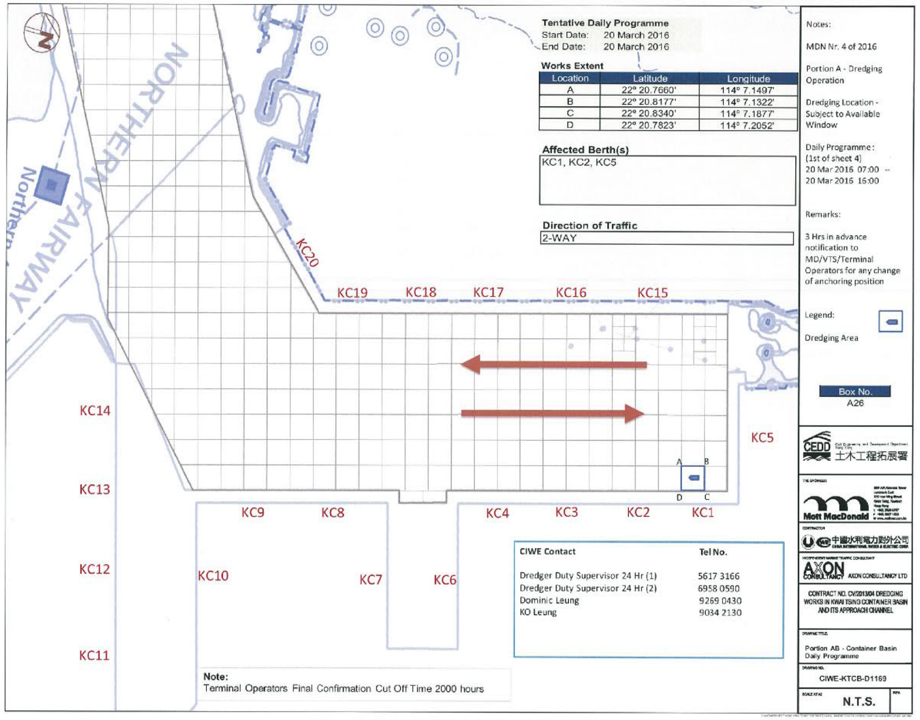
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-17 D1163 for B13.xlsx]Main



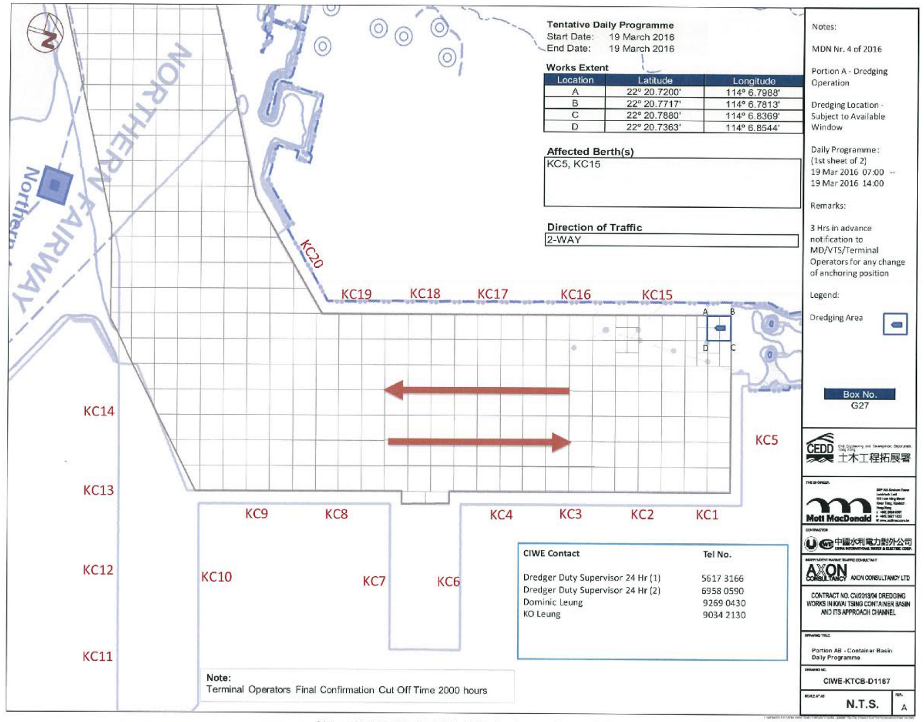
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-18 D1168 for F25.xlsx]Main



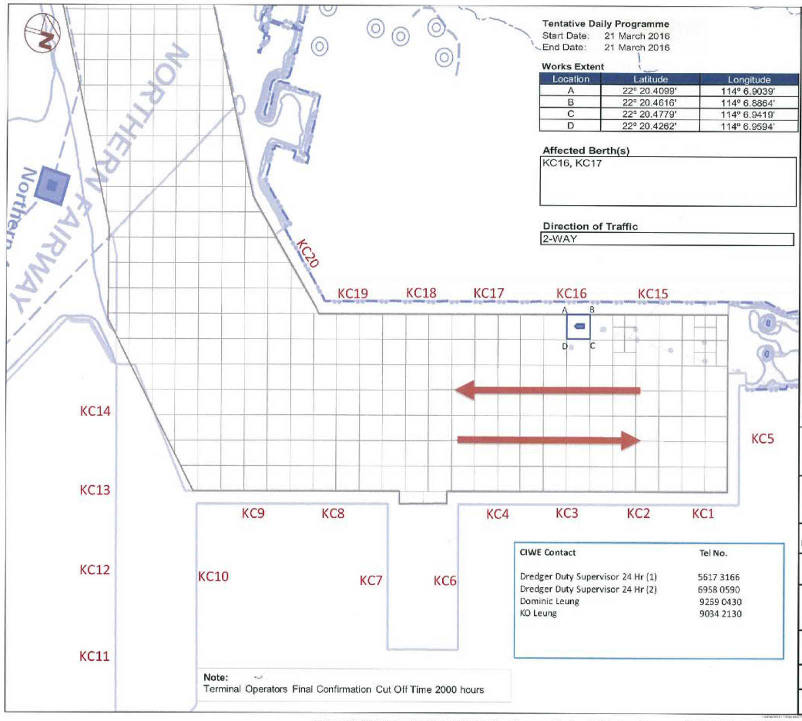
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-17 D1166 for E17.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-15 D1158 for A26.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-18 D1167 for G27.xlsx]Main



Tentative Daily Programme
Start Date: 21 March 2016
End Date: 21 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4099'	114° 6.9039'
B	22° 20.4616'	114° 6.8864'
C	22° 20.4779'	114° 6.9419'
D	22° 20.4262'	114° 6.9594'

Affected Berth(s)
KC16, KC17

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9259 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(4th sheet of 4)
21 Mar 2016 17:00 --
21 Mar 2016 22:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G21

土木工程拓展署

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

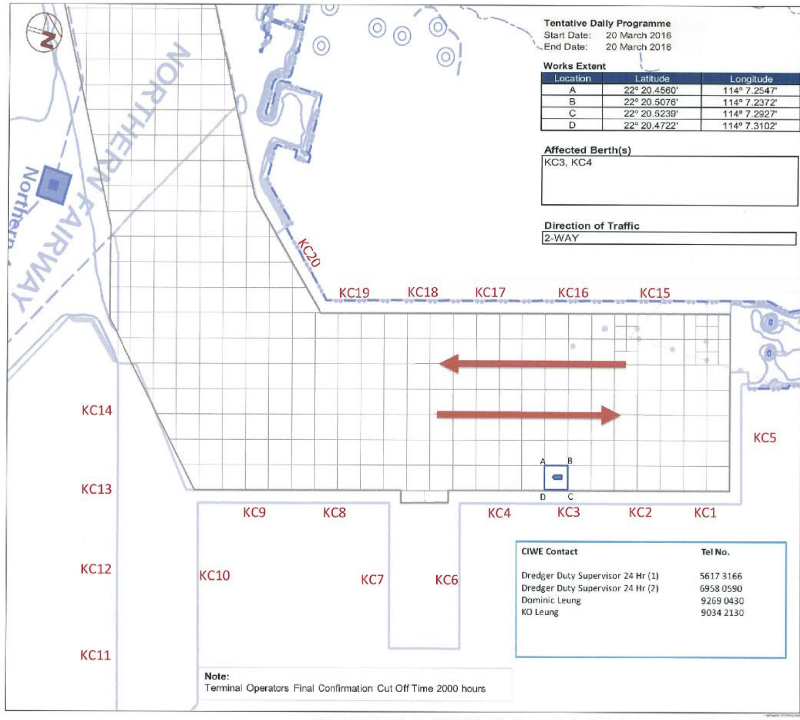
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1172

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-19 D1172 for G21.xlsx]Main



Tentative Daily Programme
Start Date: 20 March 2016
End Date: 20 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4560'	114° 7.2547'
B	22° 20.5076'	114° 7.2372'
C	22° 20.5239'	114° 7.2927'
D	22° 20.4722'	114° 7.3102'

Affected Berth(s)
KC3, KC4

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016
Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 4)
20 Mar 2016 16:00 --
20 Mar 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A20

土木工程拓展署

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

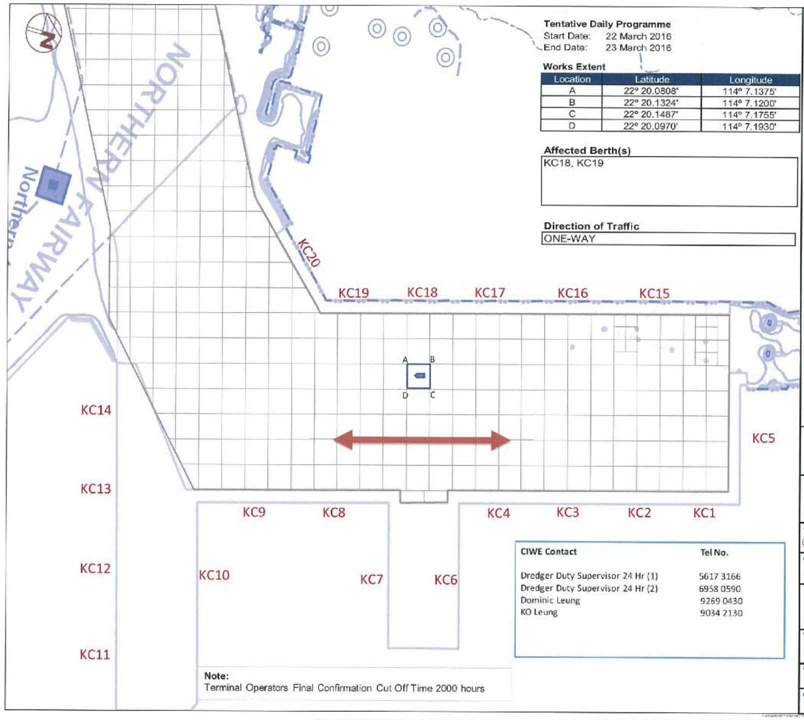
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1170

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-19 D1170 for A20.xlsx]Main



Tentative Daily Programme
Start Date: 22 March 2016
End Date: 23 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0808'	114° 7.1375'
B	22° 20.1324'	114° 7.1200'
C	22° 20.1487'	114° 7.1755'
D	22° 20.0970'	114° 7.1930'

Affected Berth(s)
KC18, KC19

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 3)
22 Mar 2016 23:00 --
23 Mar 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
E14

土木工程拓展署

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

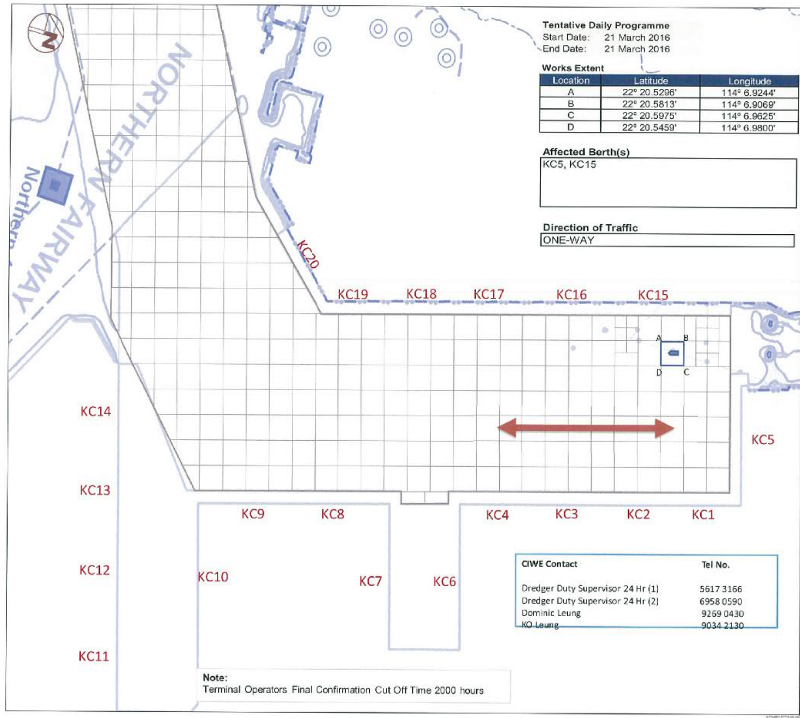
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1175

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1175 for E14.xlsx]Main



Tentative Daily Programme
Start Date: 21 March 2016
End Date: 21 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 4)
21 Mar 2016 08:00 -
21 Mar 2016 17:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Ledgend:

Dredging Area

Box No.
F25

土木工程拓展署

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

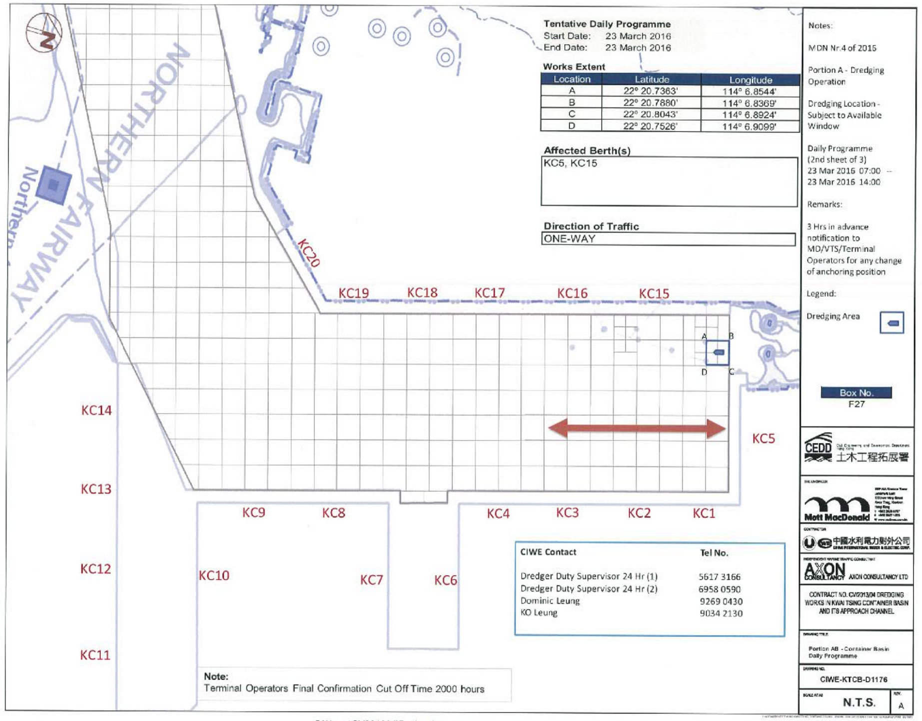
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1171

N.T.S.

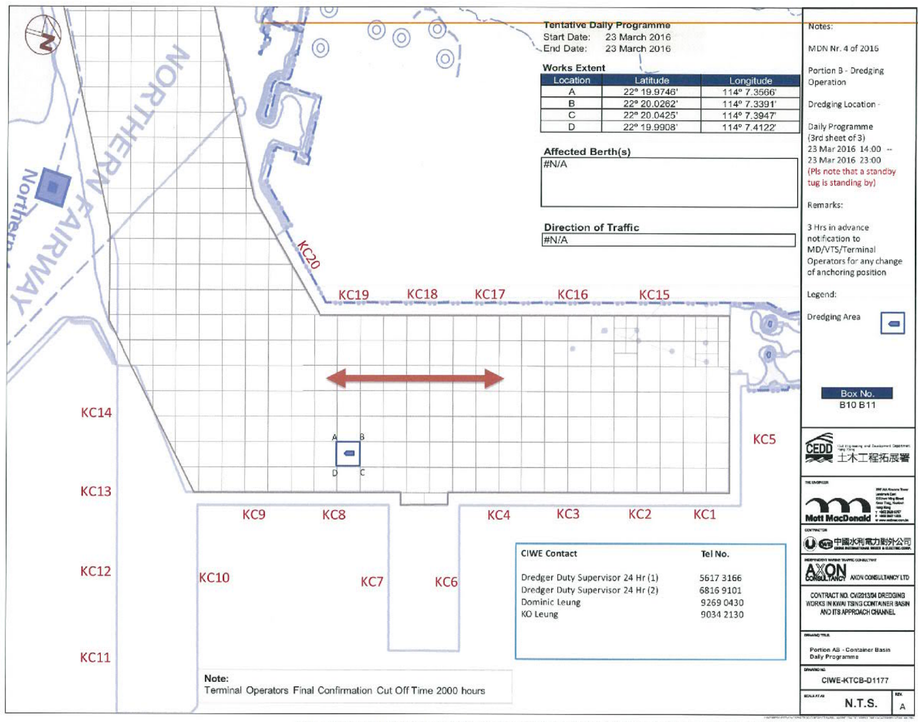
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-19 D1171 for F25.xlsx]Main



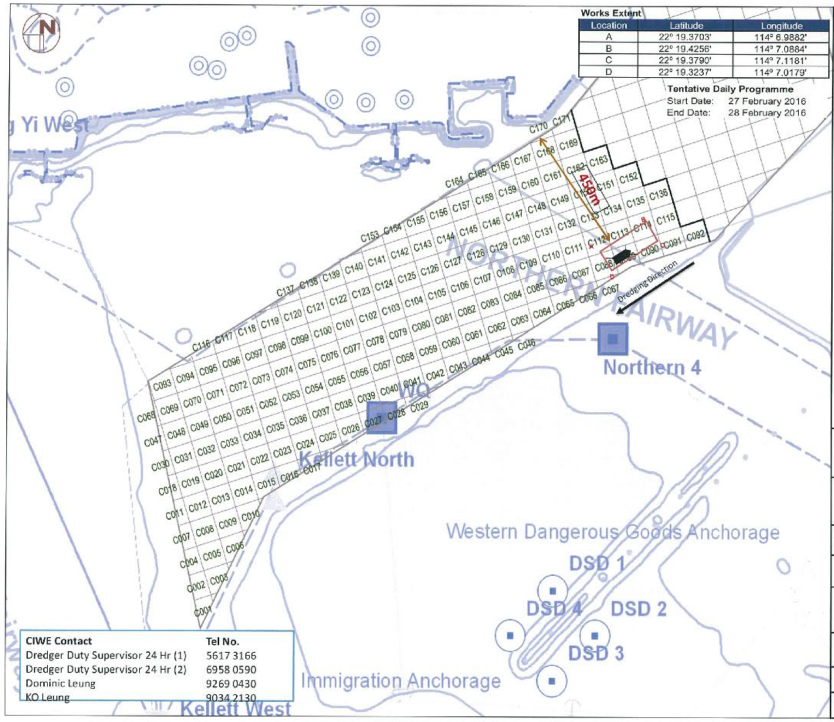
Location	Latitude	Longitude
A	22° 20.7363'	114° 6.8544'
B	22° 20.7880'	114° 6.8369'
C	22° 20.8043'	114° 6.8924'
D	22° 20.7526'	114° 6.9099'

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1176 for F27.xlsx]Main



Location	Latitude	Longitude
A	22° 19.9746'	114° 7.3566'
B	22° 20.0262'	114° 7.3391'
C	22° 20.0425'	114° 7.3947'
D	22° 19.9908'	114° 7.4122'

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1177 for B10 B11.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

Tentative Daily Programme
Start Date: 27 February 2016
End Date: 28 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C089, C090, C091

Dredging Direction - From NE to SW

Daily Programme
27 Feb 2016 23:00 Hr -
28 Feb 2016 09:00 Hr
(please note that a standby tugboat is standing by)

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

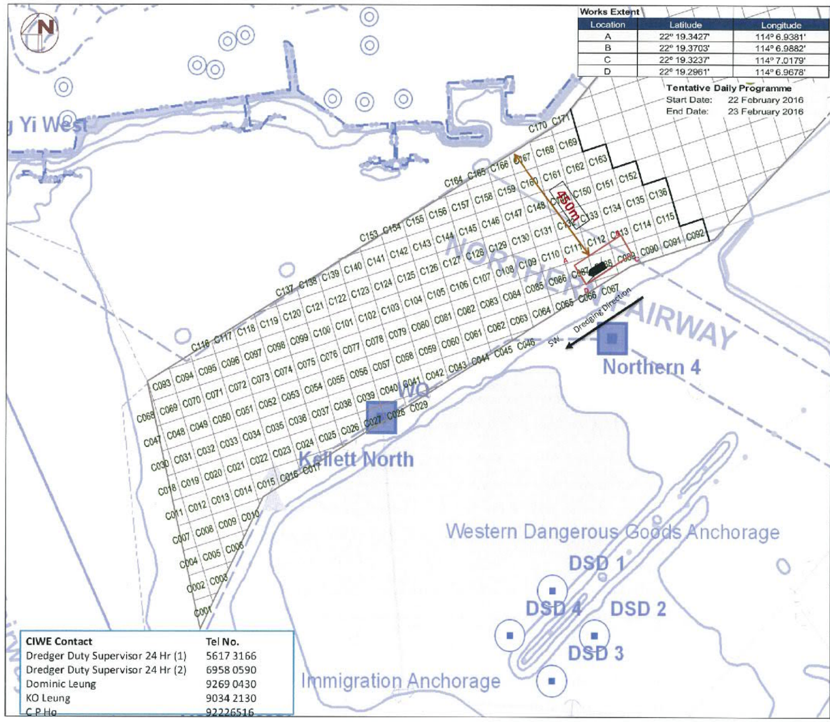
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D293

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-27 D293 for C089 C090 C091.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3427'	114° 6.9381'
B	22° 19.3703'	114° 6.9882'
C	22° 19.3237'	114° 7.0179'
D	22° 19.2961'	114° 6.9678'

Tentative Daily Programme
Start Date: 22 February 2016
End Date: 23 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130
C P Ho	92226516

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C088, C087, C086

Dredging Direction - From NE to SW

Daily Programme :
22 Feb 2016 20:00 Hr -
23 Feb 2016 07:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

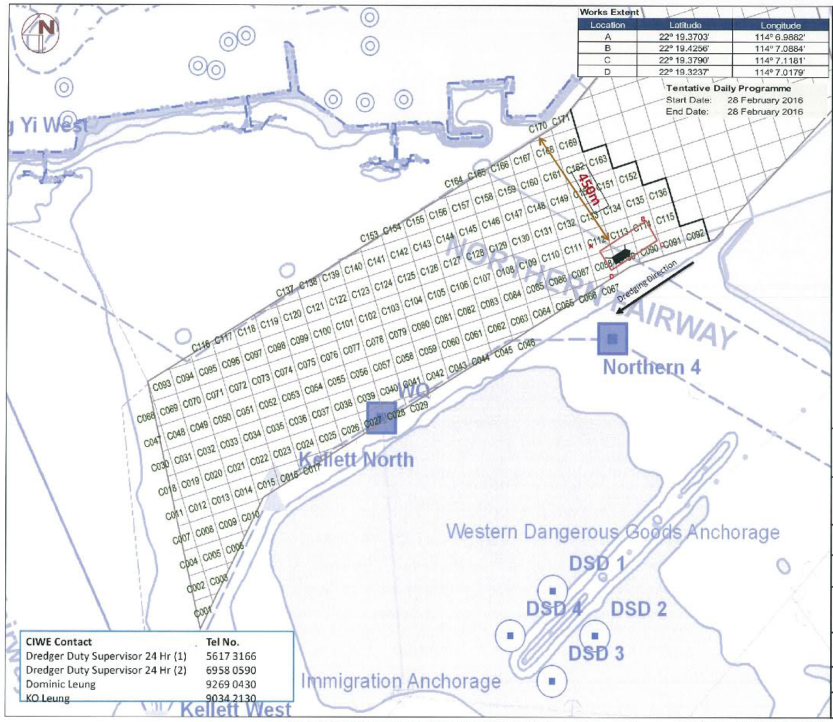
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D289

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-22 D288 for C088 C087 C086.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

Tentative Daily Programme
Start Date: 28 February 2016
End Date: 28 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C089, C090, C091

Dredging Direction - From NE to SW

Daily Programme
28 Feb 2016 01:00 Hr -
28 Feb 2016 09:00 Hr
(please note that a standby tugboat is standing by)

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

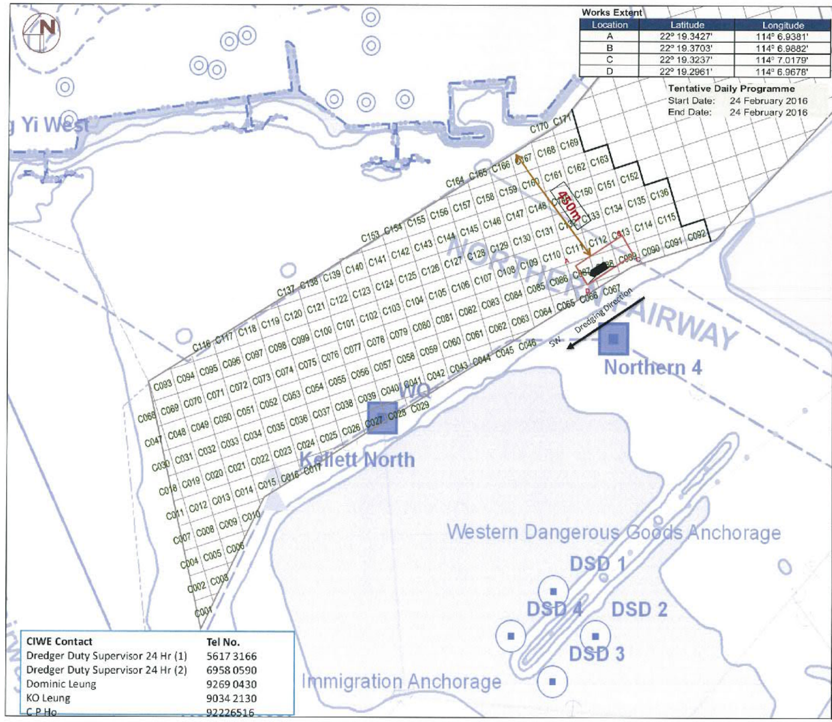
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D293

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\2015\[Portion C 2015-10-09 D224 for C089 C090 C091.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3427'	114° 6.9381'
B	22° 19.3703'	114° 6.9882'
C	22° 19.3237'	114° 7.0179'
D	22° 19.2961'	114° 6.9678'

Tentative Daily Programme
Start Date: 24 February 2016
End Date: 24 February 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130
C P Ho	92226516

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C088, C087, C086

Dredging Direction - From NE to SW

Daily Programme :
24 Feb 2016 16:00 Hr -
24 Feb 2016 23:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR
中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D290

SCALE AT A3: N.T.S. REV. A

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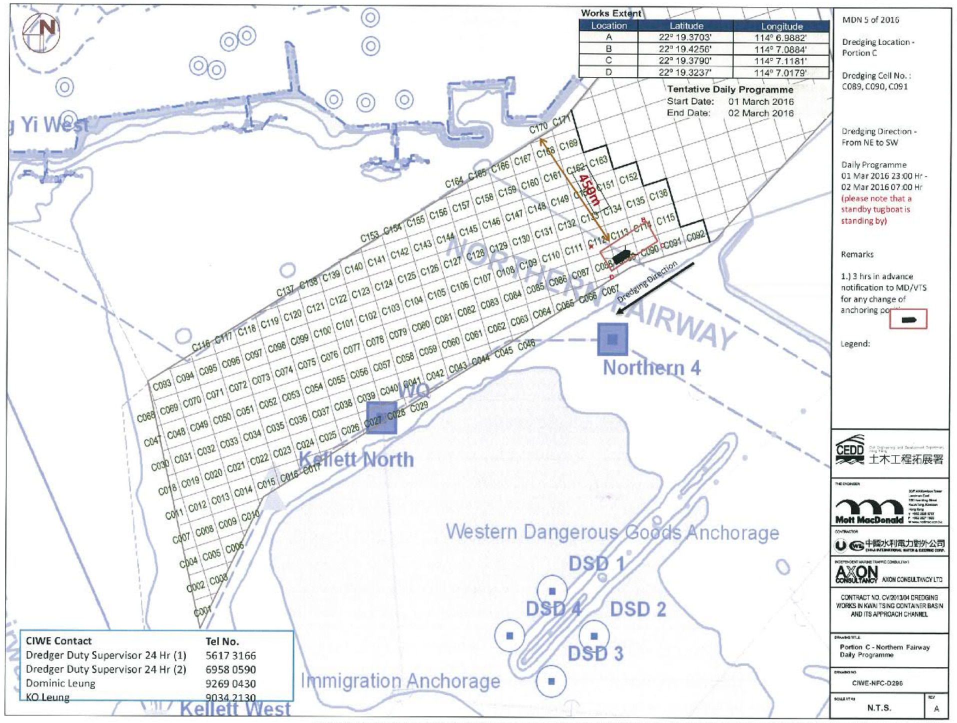
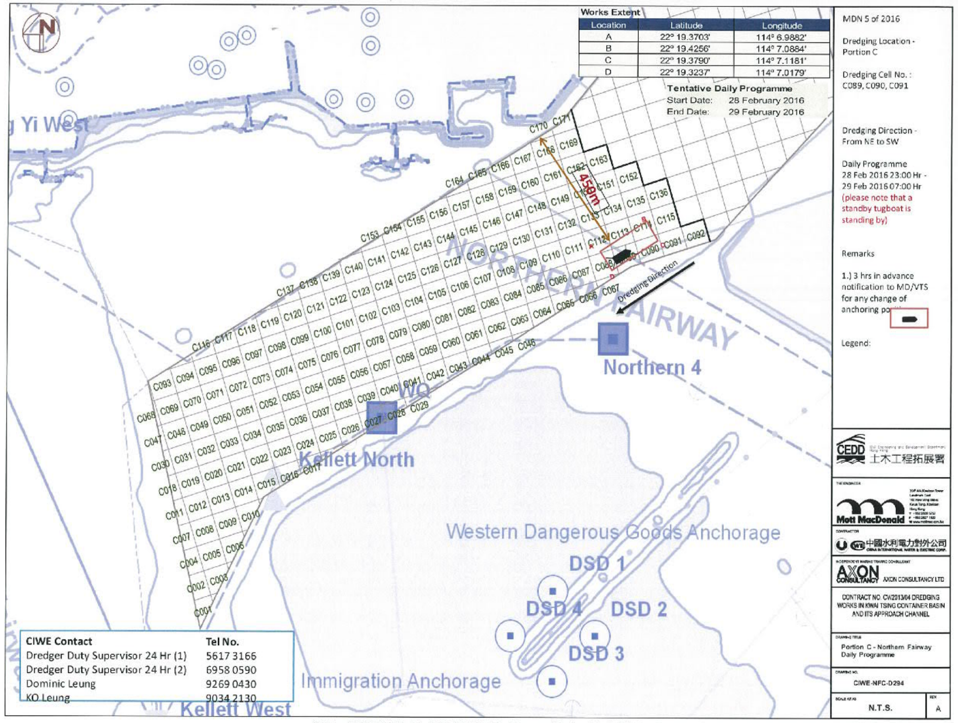


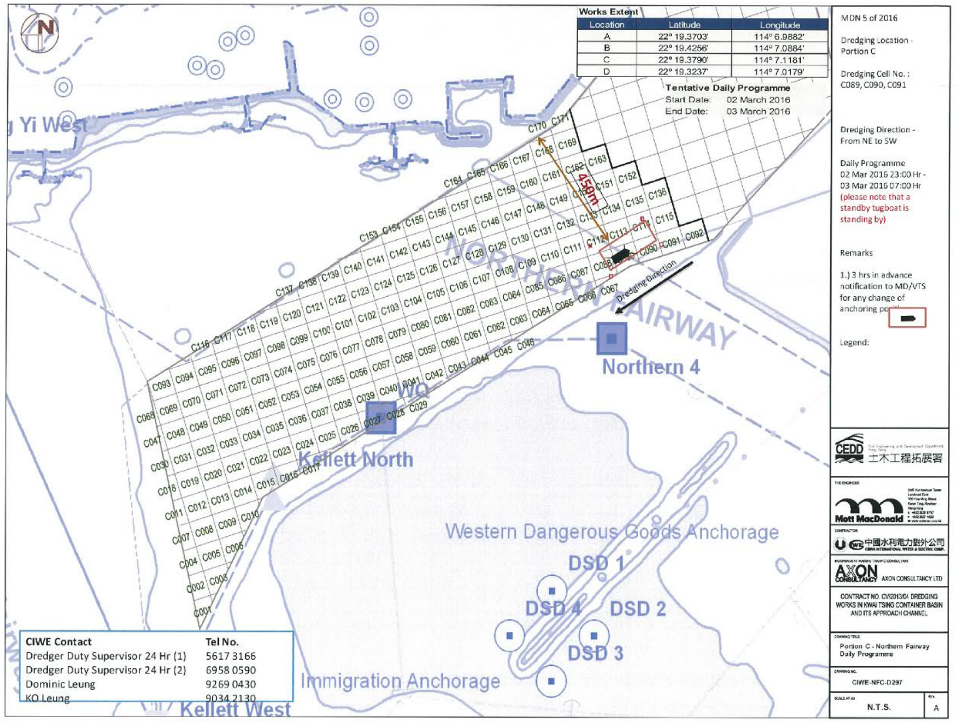
Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-01 D296 for C089 C090 C091.xlsx]Main



Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-27 D293 for C089 C090 C091.xlsx]Main



Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

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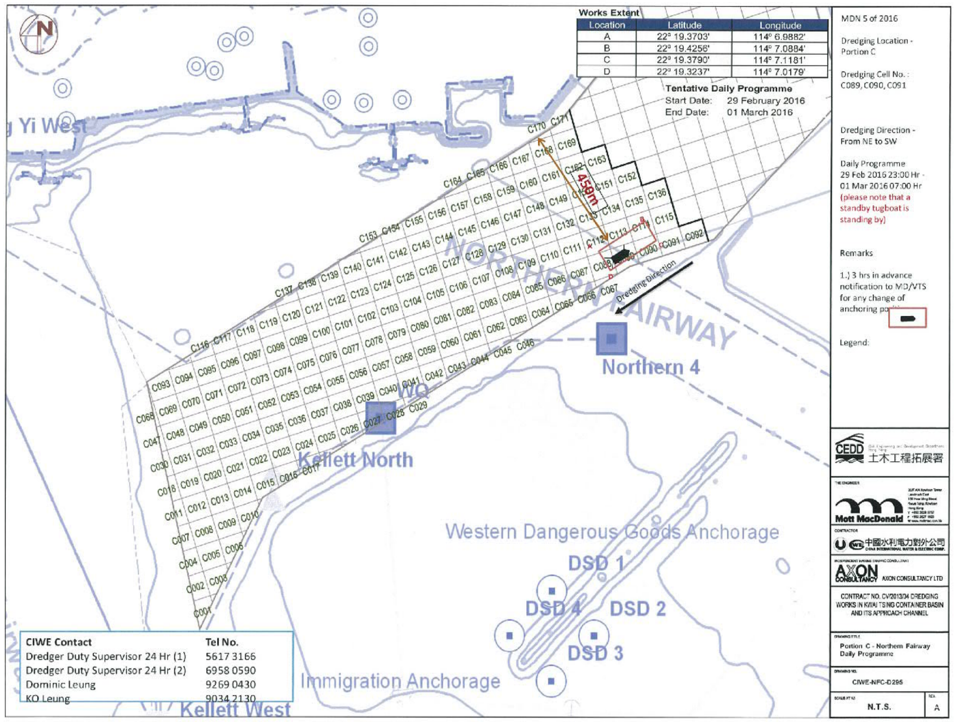
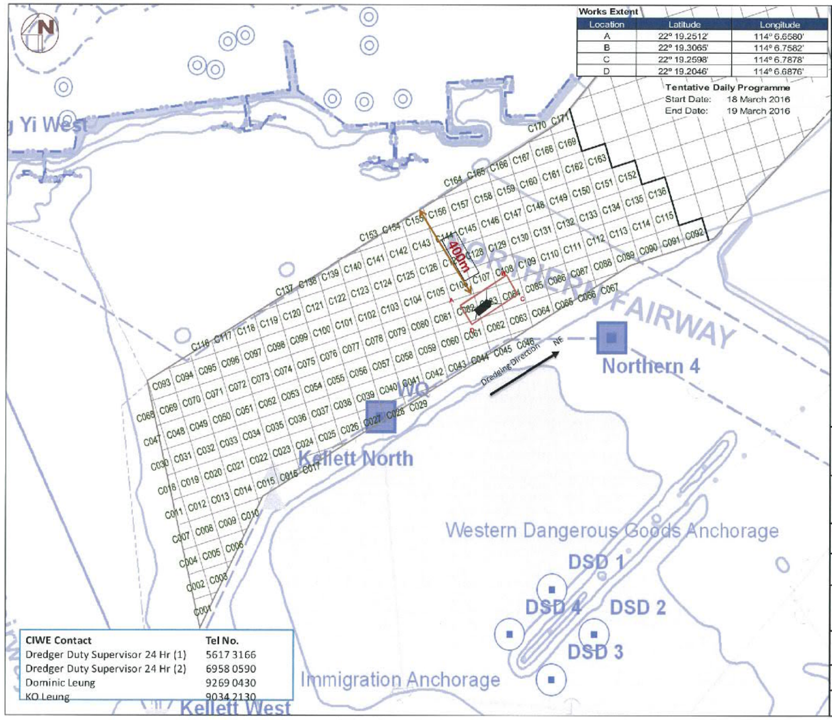


Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-02-27 D294 for C089 C090 C091.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.2512'	114° 6.6580'
B	22° 19.3065'	114° 6.7582'
C	22° 19.2598'	114° 6.7878'
D	22° 19.2046'	114° 6.6876'

Tentative Daily Programme
Start Date: 18 March 2016
End Date: 19 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C083, C062

Dredging Direction - From SW to NE

Daily Programme
18 Mar 2016 23:00 Hr - 19 Mar 2016 07:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

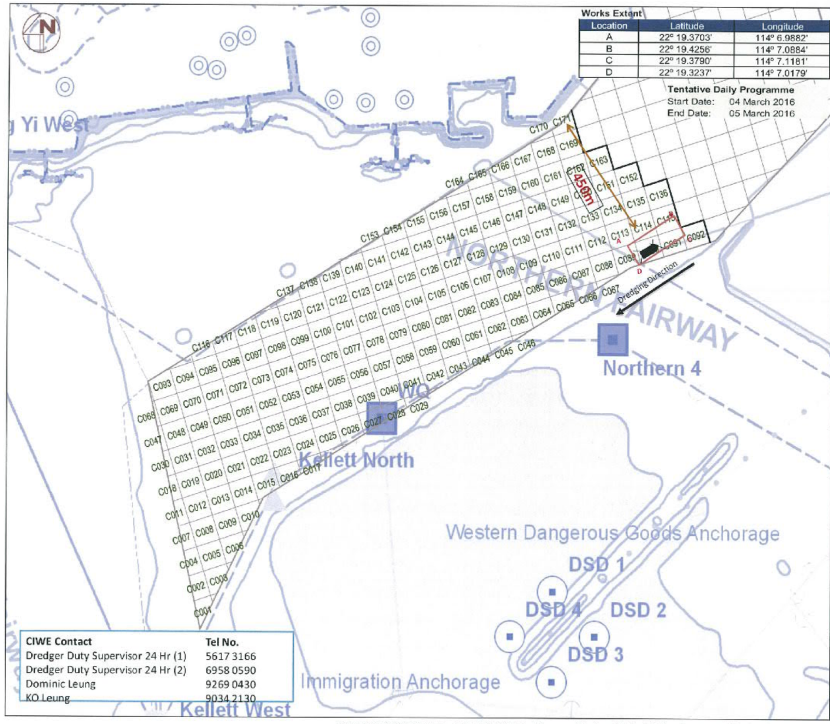
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

CIWE-NFC-D301

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-18 D301 for C083 C062.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

Tentative Daily Programme
Start Date: 04 March 2016
End Date: 05 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C090, C091

Dredging Direction - From NE to SW

Daily Programme
04 Mar 2016 23:00 Hr - 05 Mar 2016 09:00 Hr
(please note that a standby tugboat is standing by)

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring po

Legend:

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

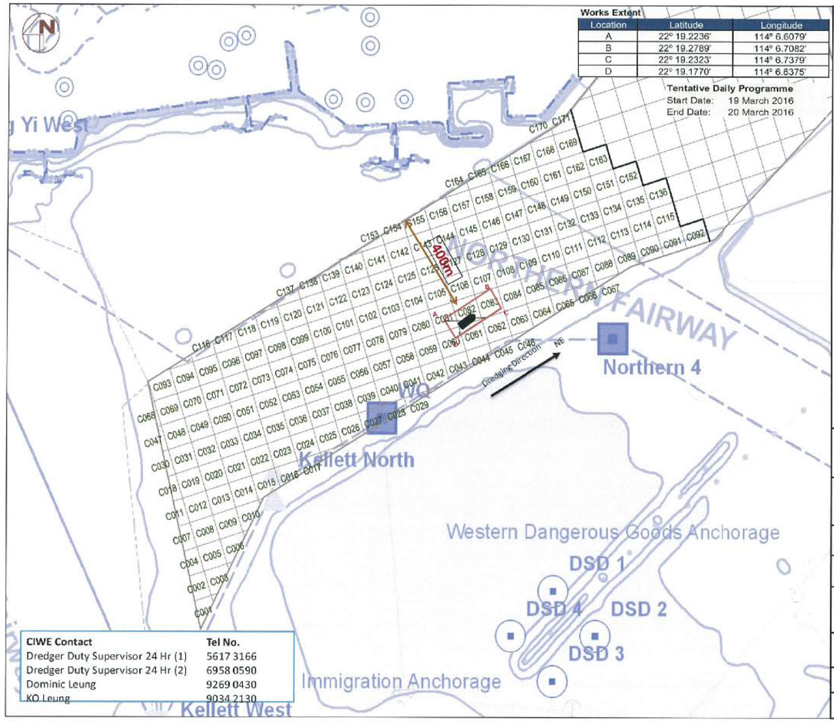
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

CIWE-NFC-D299

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-04 D299 for C090 C091.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.2236'	114° 6.6079'
B	22° 19.2789'	114° 6.7082'
C	22° 19.2323'	114° 6.7379'
D	22° 19.1770'	114° 6.6375'

Tentative Daily Programme
Start Date: 19 March 2016
End Date: 20 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C082, C083

Dredging Direction - From SW to NE

Daily Programme
19 Mar 2016 23:00 Hr - 20 Mar 2016 07:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

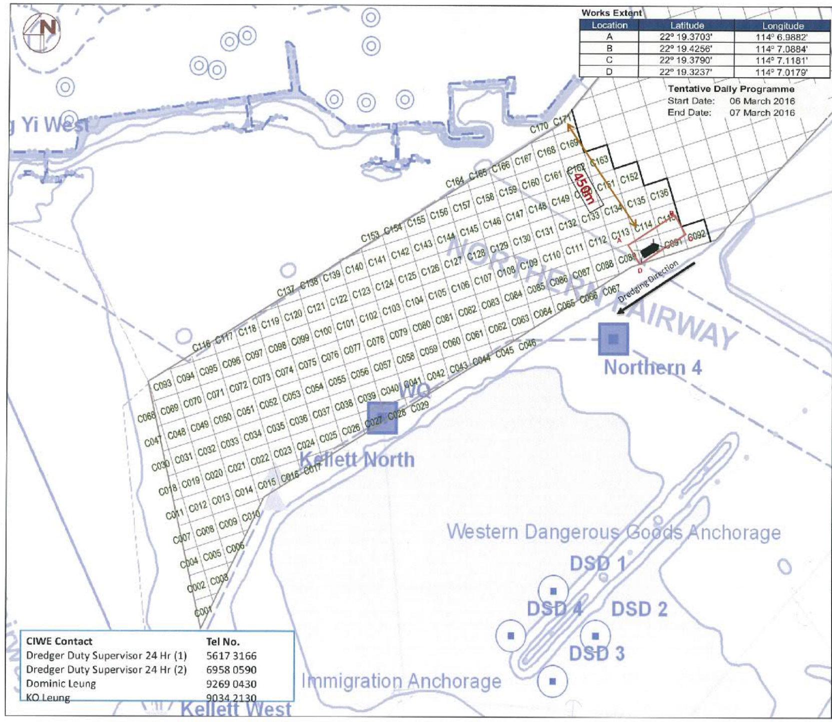
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

CIWE-NFC-D302

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-19 D302 for C082 C083.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.3703'	114° 6.9882'
B	22° 19.4256'	114° 7.0884'
C	22° 19.3790'	114° 7.1181'
D	22° 19.3237'	114° 7.0179'

Tentative Daily Programme
Start Date: 06 March 2016
End Date: 07 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C090, C091

Dredging Direction - From NE to SW

Daily Programme
06 Mar 2016 23:00 Hr - 07 Mar 2016 07:00 Hr
(please note that a standby tugboat is standing by)

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring po

Legend:

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

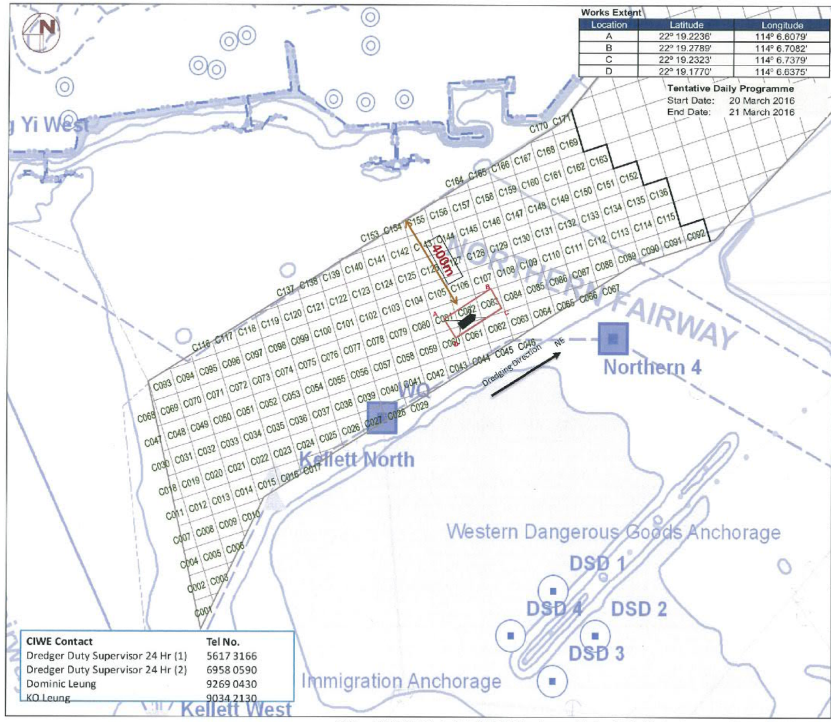
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion C - Northern Fairway Daily Programme

CIWE-NFC-D300

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-05 D300 for C090 C091.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.2236'	114° 6.6079'
B	22° 19.2789'	114° 6.7082'
C	22° 19.2323'	114° 6.7379'
D	22° 19.1770'	114° 6.6375'

Tentative Daily Programme
Start Date: 20 March 2016
End Date: 21 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C082, C083

Dredging Direction - From SW to NE

Daily Programme
20 Mar 2016 23:00 Hr -
21 Mar 2016 08:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

AXON CONSULTANCY LTD

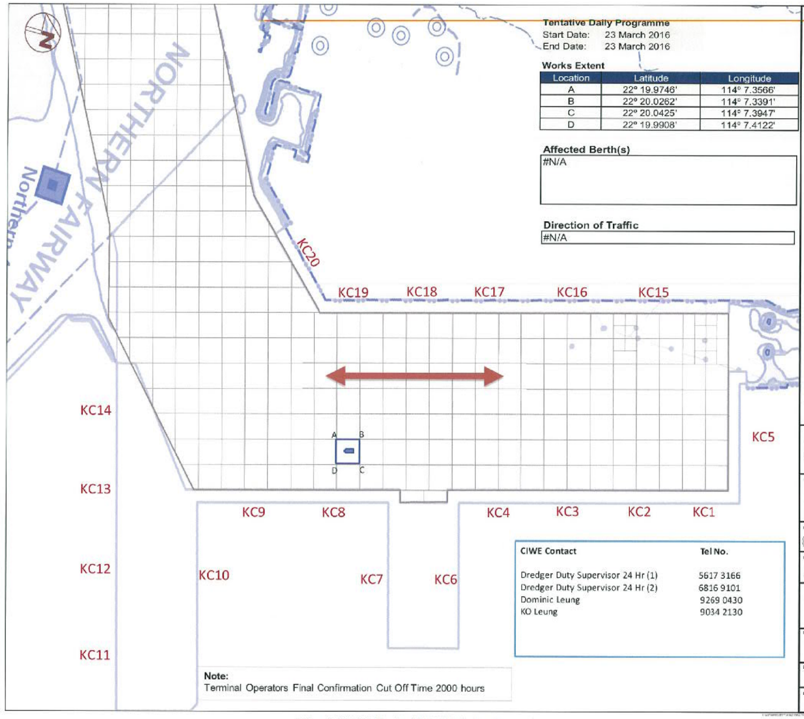
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO: CIWE-NFC-D303

SCALE AT A3: N.T.S. | REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-19 D303 for C082 C083.xlsx]Main



Tentative Daily Programme
Start Date: 23 March 2016
End Date: 23 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9746'	114° 7.3566'
B	22° 20.0262'	114° 7.3391'
C	22° 20.0425'	114° 7.3947'
D	22° 19.9908'	114° 7.4122'

Affected Berth(s)
#N/A

Direction of Traffic
#N/A

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location -

Daily Programme
(3rd sheet of 3)
23 Mar 2016 14:00 --
23 Mar 2016 23:00
(Pls note that a standby tug is standing by)

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
B10 B11

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

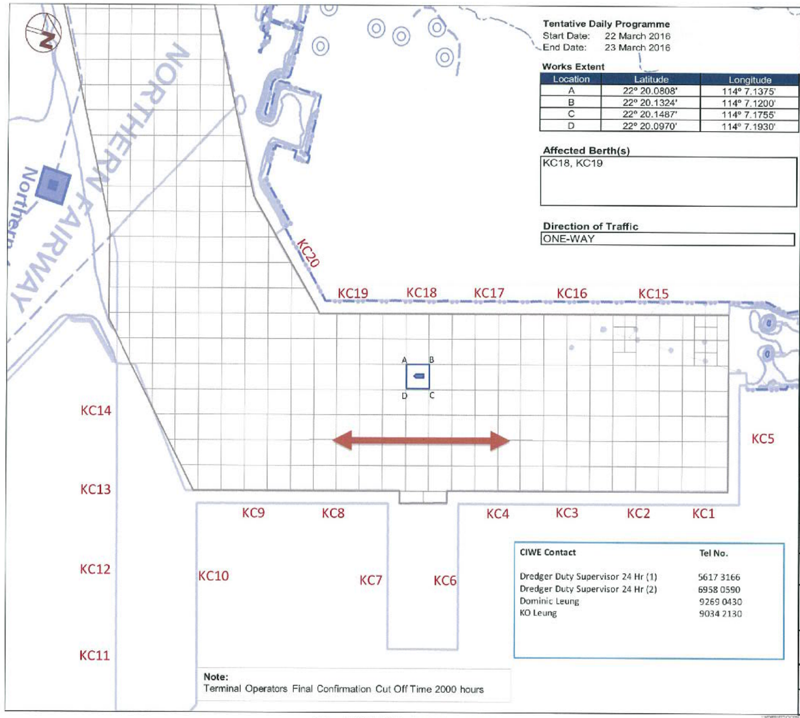
CIWE-KTCB-D1177

N.T.S. A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1177 for B10 B11.xlsx]Main



Tentative Daily Programme
Start Date: 22 March 2016
End Date: 23 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0808'	114° 7.1375'
B	22° 20.1324'	114° 7.1200'
C	22° 20.1487'	114° 7.1755'
D	22° 20.0970'	114° 7.1930'

Affected Berth(s)
KC18, KC19

Direction of Traffic
ONE-WAY

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 3)
22 Mar 2016 23:00 –
23 Mar 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
E14

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

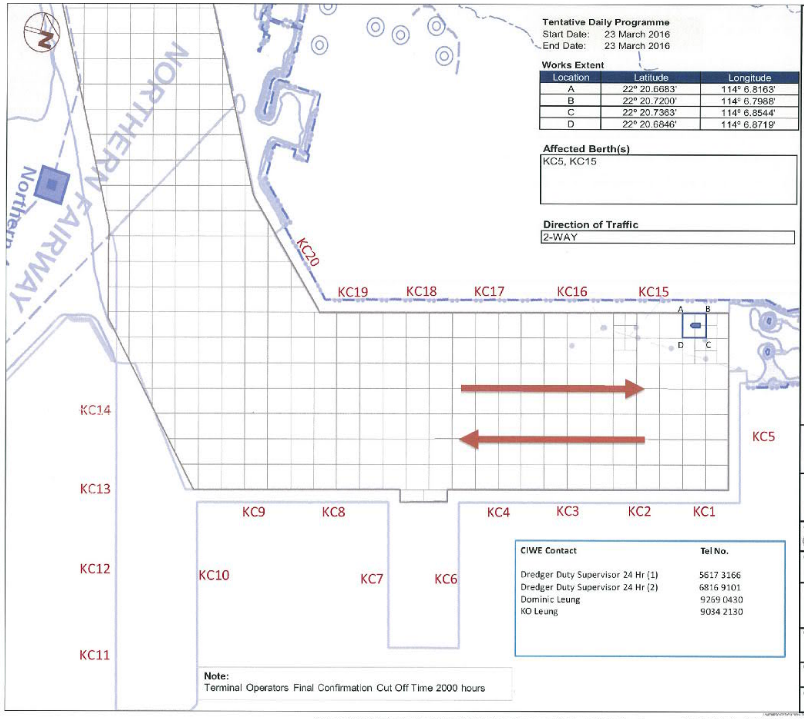
CIWE-KTCB-D1175

N.T.S. A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1175 for E14.xlsx]Main



Tentative Daily Programme
Start Date: 23 March 2016
End Date: 23 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6683'	114° 6.8163'
B	22° 20.7200'	114° 6.7988'
C	22° 20.7363'	114° 6.8544'
D	22° 20.6846'	114° 6.8719'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 2)
23 Mar 2016 12:00 --
23 Mar 2016 17:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G26

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

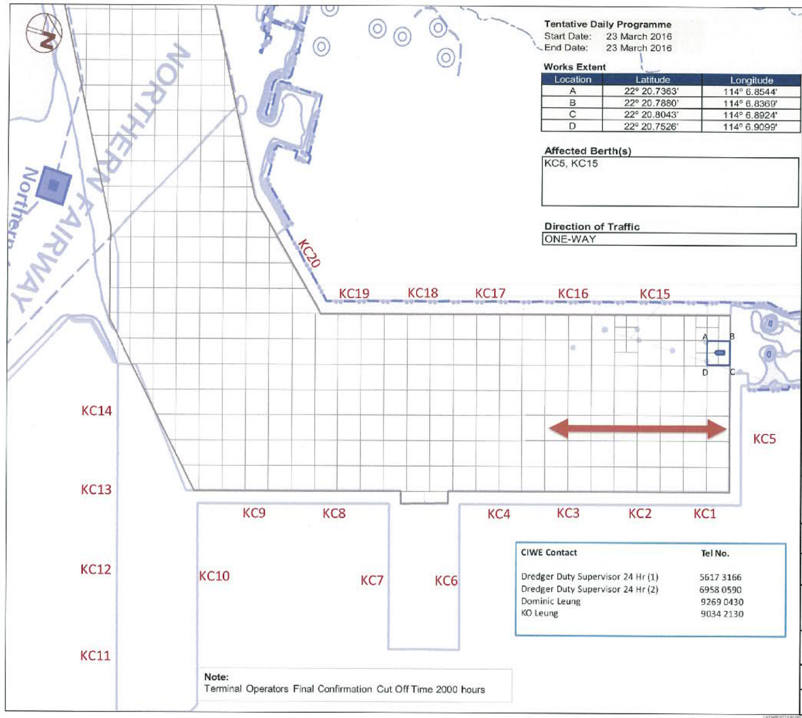
CIWE-KTCB-D1178

N.T.S. A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-23 D1178 for G26.xlsx]Main



Tentative Daily Programme
Start Date: 23 March 2016
End Date: 23 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7363'	114° 6.8544'
B	22° 20.7880'	114° 6.8369'
C	22° 20.8043'	114° 6.8924'
D	22° 20.7526'	114° 6.9099'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 3)
23 Mar 2016 07:00 --
23 Mar 2016 14:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F27

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

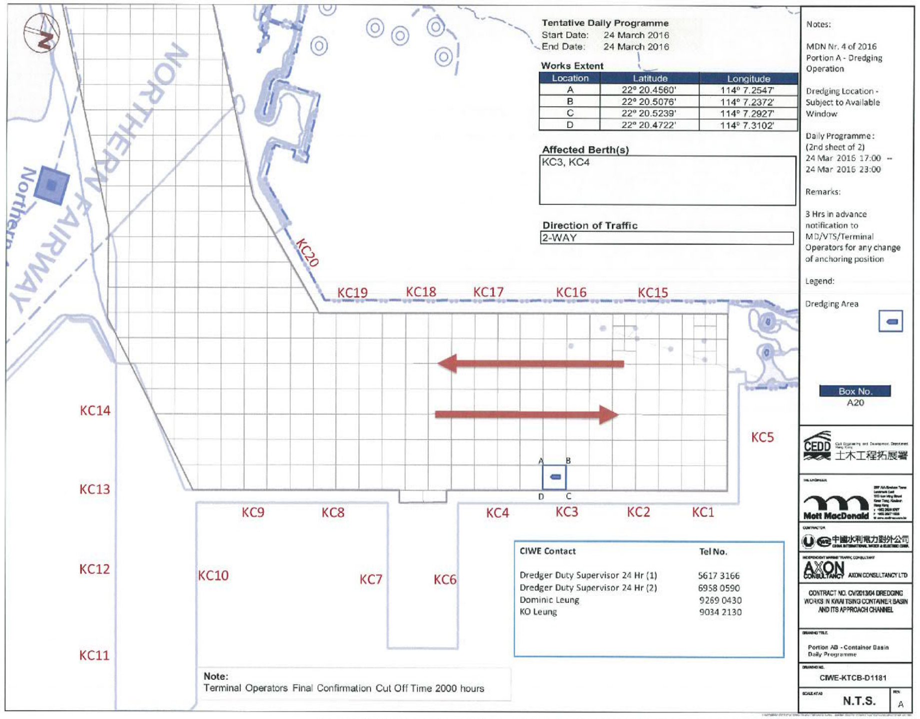
CIWE-KTCB-D1176

N.T.S. A

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-22 D1176 for F27.xlsx]Main



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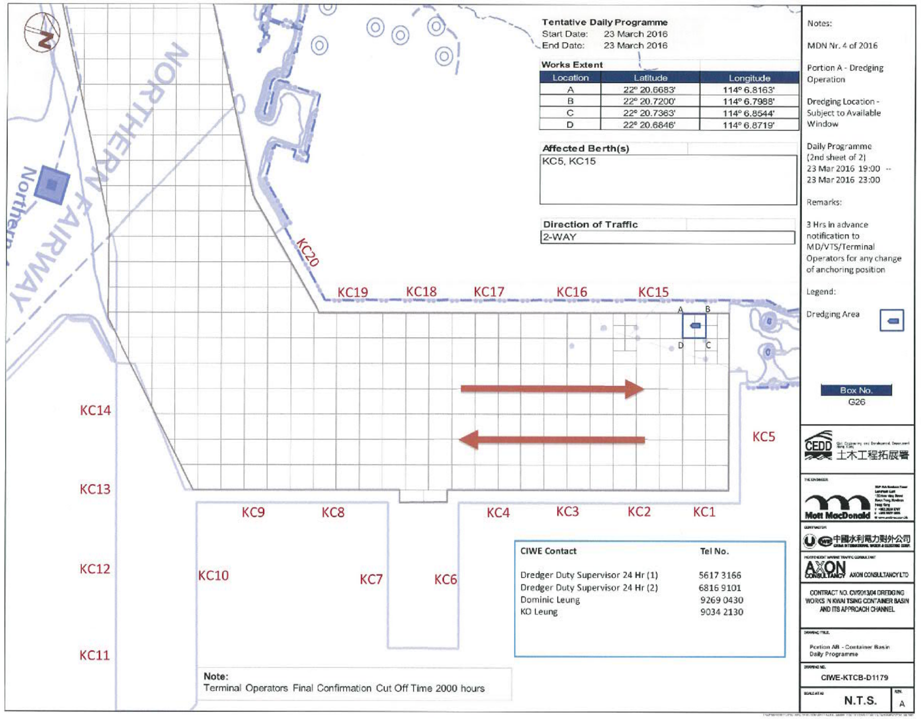

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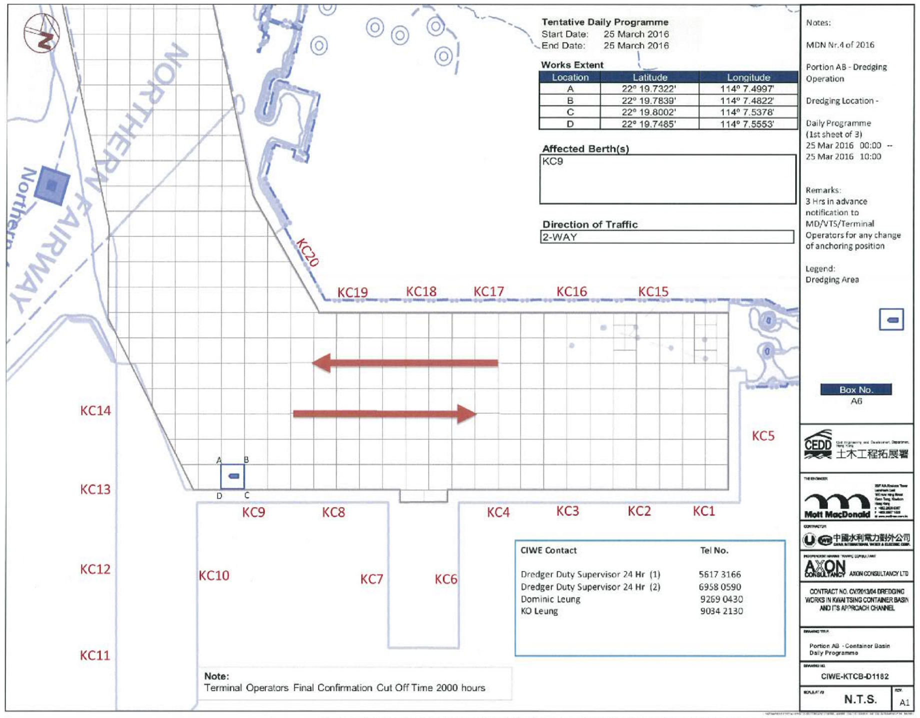

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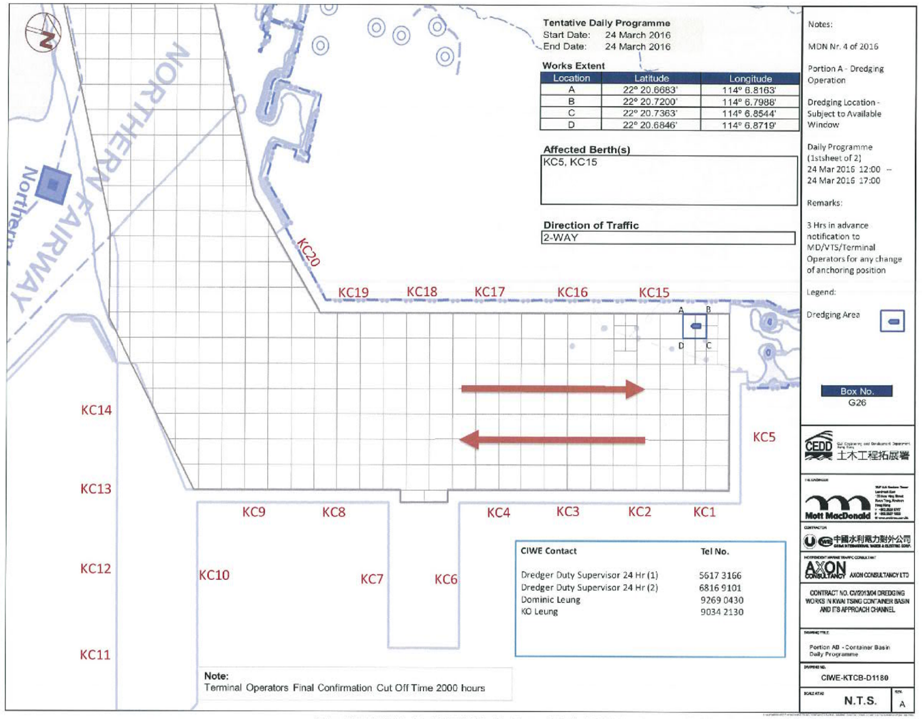

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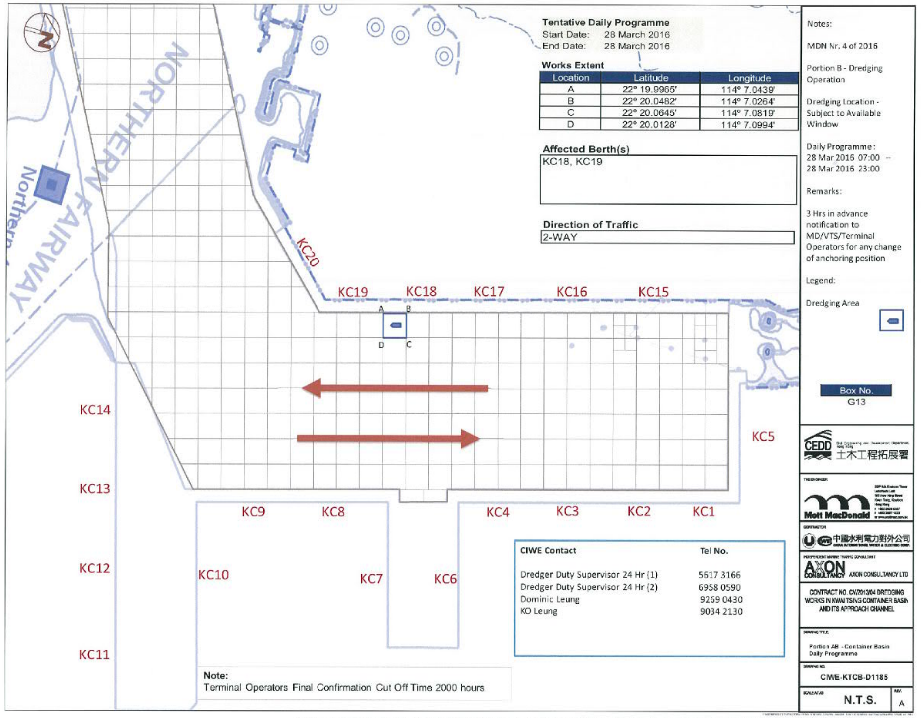


Tentative Daily Programme
Start Date: 28 March 2016
End Date: 28 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9965'	114° 7.0439'
B	22° 20.0482'	114° 7.0264'
C	22° 20.0645'	114° 7.0819'
D	22° 20.0128'	114° 7.0994'

Affected Berth(s)
KC18, KC19

Direction of Traffic
2-WAY

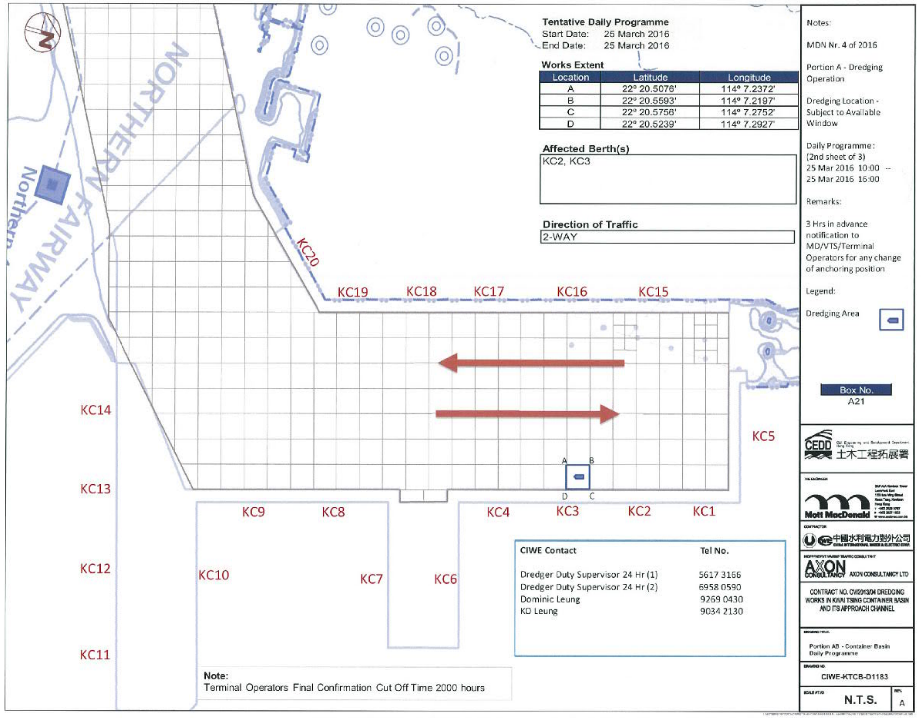
Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme:
28 Mar 2016 07:00 --
28 Mar 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1185

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-08 D1139 for G13-12.xlsx]Main



Tentative Daily Programme
Start Date: 25 March 2016
End Date: 25 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5076'	114° 7.2372'
B	22° 20.5593'	114° 7.2197'
C	22° 20.5756'	114° 7.2752'
D	22° 20.5239'	114° 7.2927'

Affected Berth(s)
KC2, KC3

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme:
(2nd sheet of 3)
25 Mar 2016 10:00 --
25 Mar 2016 16:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1183

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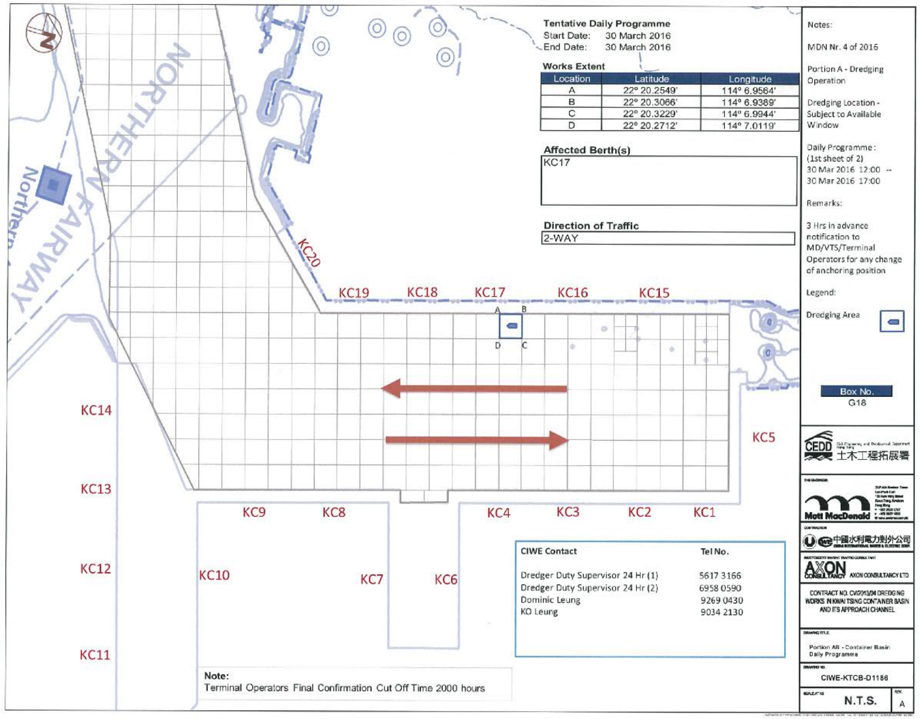


Tentative Daily Programme
Start Date: 30 March 2016
End Date: 30 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2549'	114° 6.9564'
B	22° 20.3066'	114° 6.9389'
C	22° 20.3229'	114° 6.9944'
D	22° 20.2712'	114° 7.0119'

Affected Berth(s)
KC17

Direction of Traffic
2-WAY

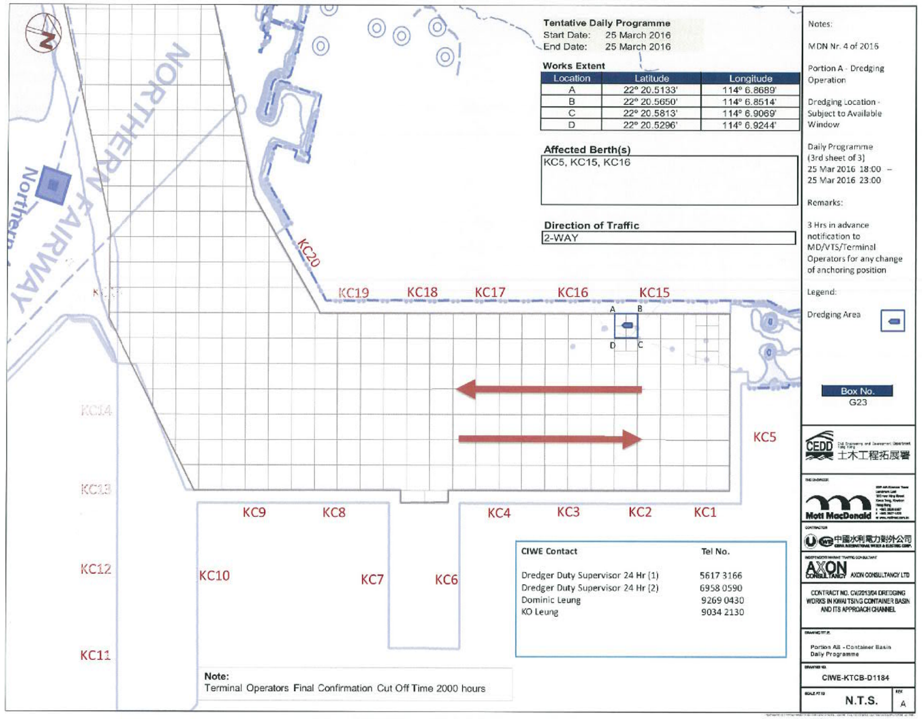
Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme:
(1st sheet of 2)
30 Mar 2016 12:00 --
30 Mar 2016 17:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1186

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-29 D1186 for G18.xlsx]Main



Tentative Daily Programme
Start Date: 25 March 2016
End Date: 25 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5133'	114° 6.8689'
B	22° 20.5650'	114° 6.8514'
C	22° 20.5813'	114° 6.9069'
D	22° 20.5296'	114° 6.9244'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme
(3rd sheet of 3)
25 Mar 2016 18:00 --
25 Mar 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1184

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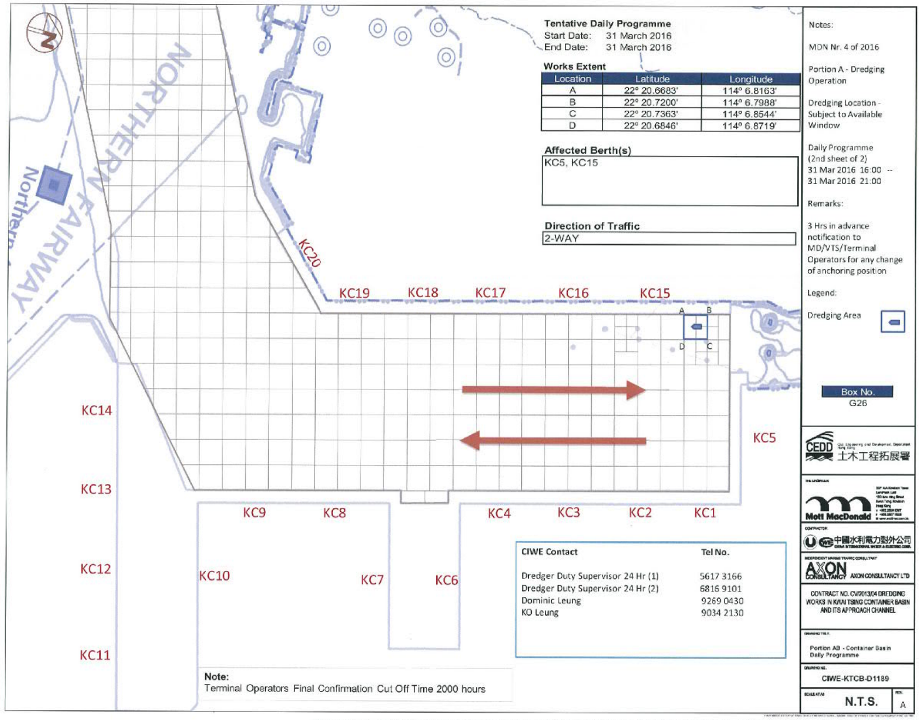

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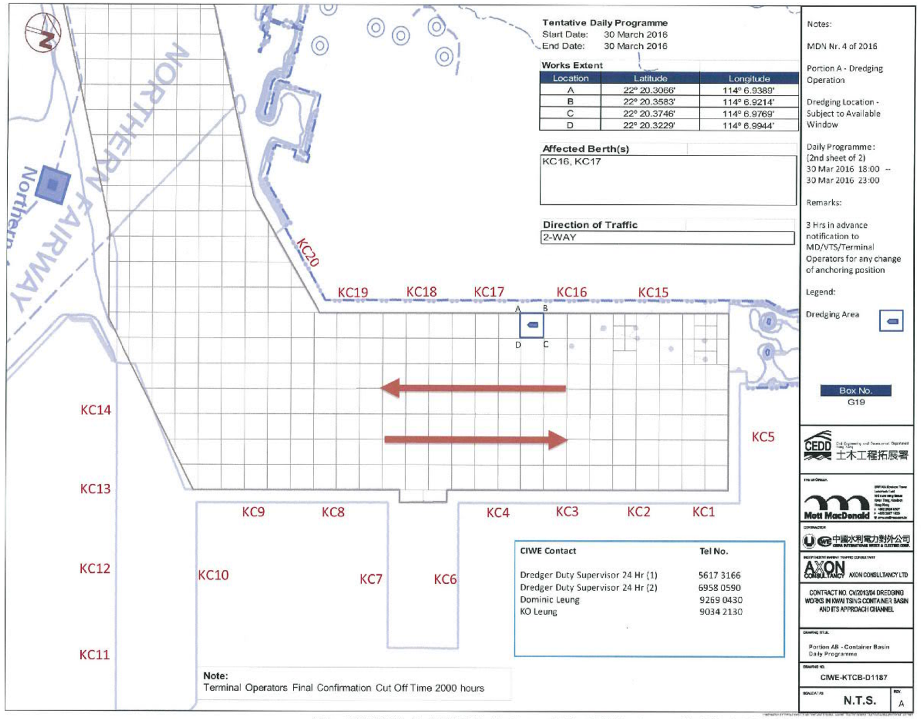

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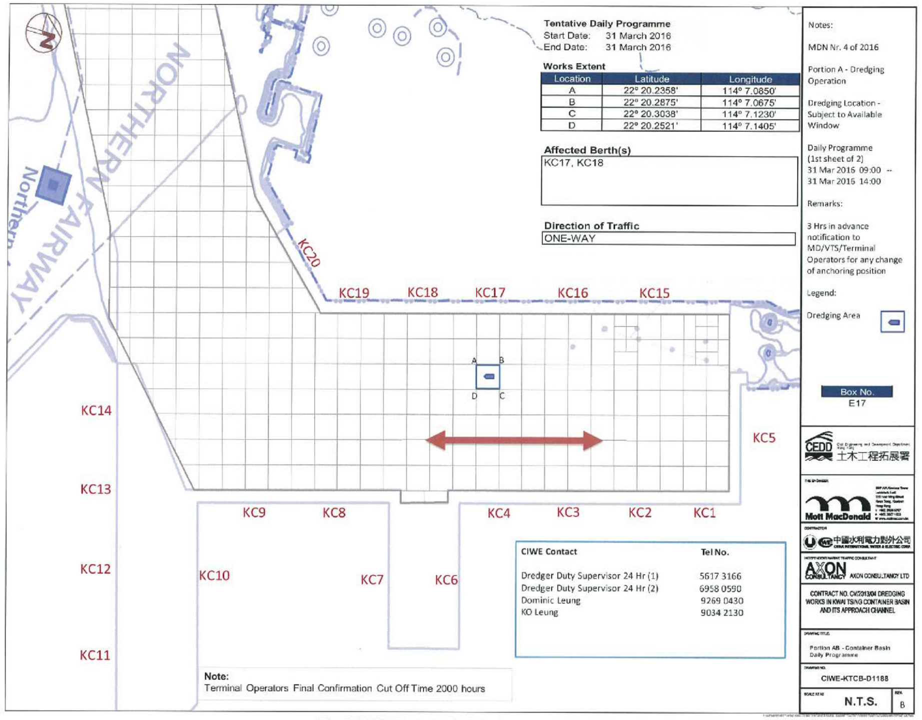

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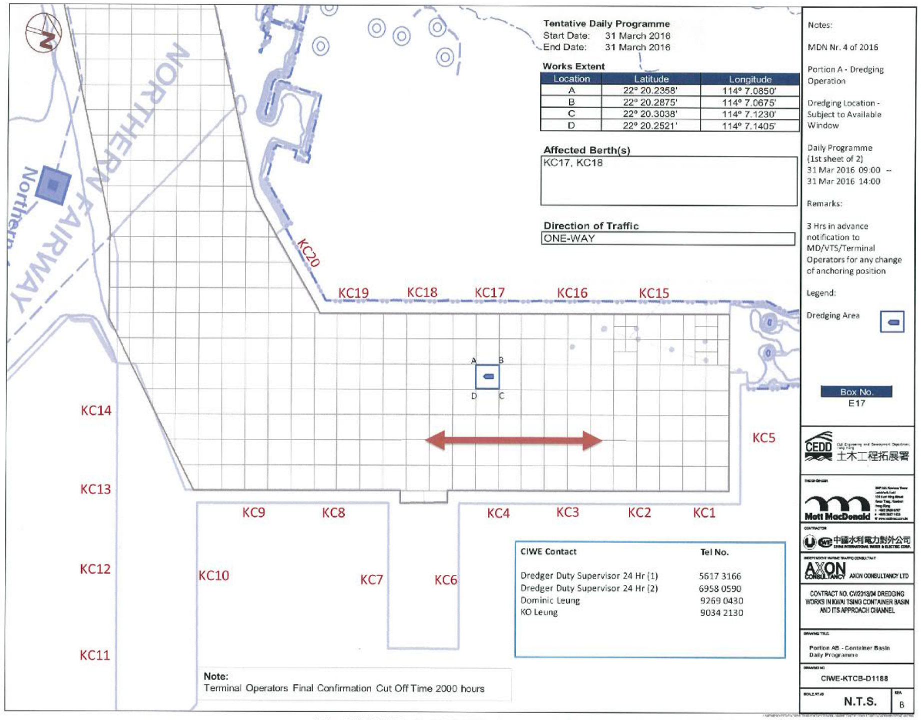

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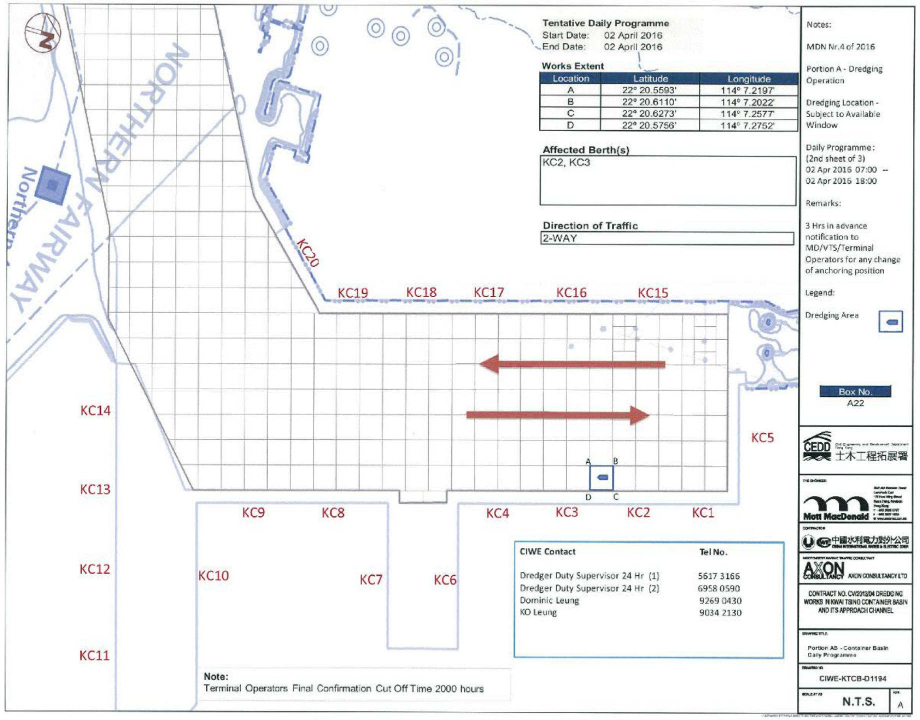


Tentative Daily Programme
Start Date: 02 April 2016
End Date: 02 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5593'	114° 7.2197'
B	22° 20.6110'	114° 7.2022'
C	22° 20.6273'	114° 7.2577'
D	22° 20.5756'	114° 7.2752'

Affected Berth(s)
KC2, KC3

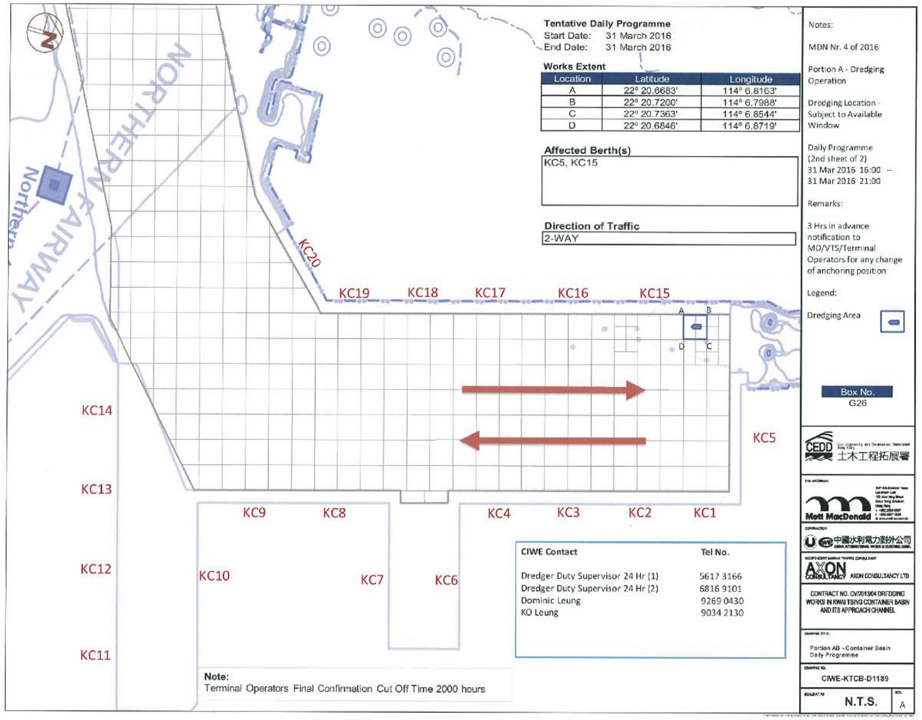
Direction of Traffic
2-WAY

Notes:
MDN Nr.4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme: (2nd sheet of 3) 02 Apr 2016 07:00 -- 02 Apr 2016 18:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
A22

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-01 D1194 for A22.xlsx]Main



Tentative Daily Programme
Start Date: 31 March 2016
End Date: 31 March 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6683'	114° 6.8163'
B	22° 20.7200'	114° 6.7988'
C	22° 20.7363'	114° 6.8544'
D	22° 20.6846'	114° 6.8719'

Affected Berth(s)
KC5, KC15

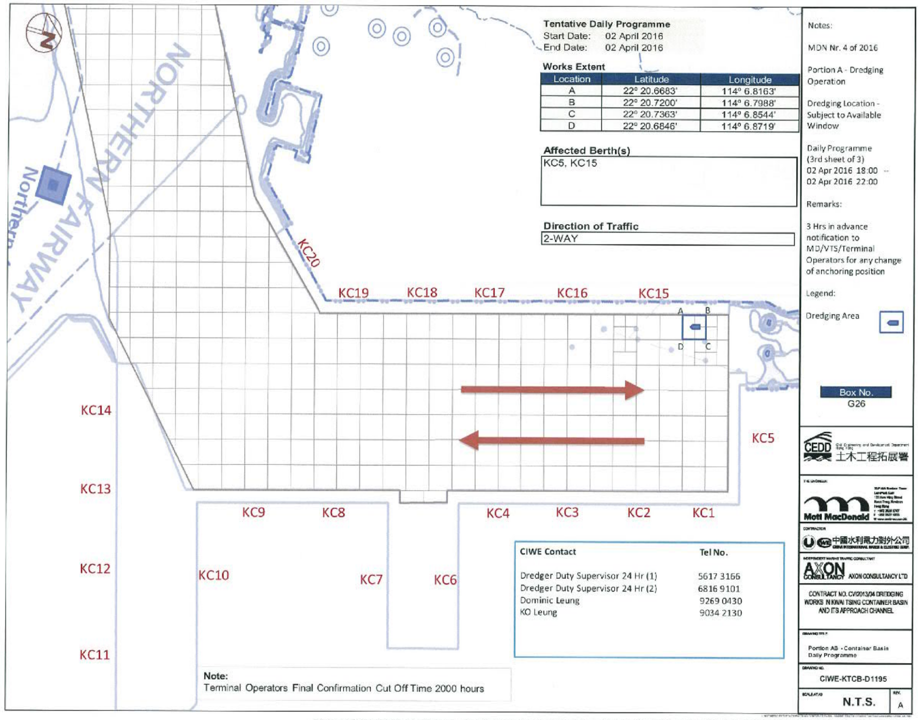
Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 2) 31 Mar 2016 16:00 -- 31 Mar 2016 21:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
G26

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-30 D1189 for G26.xlsx]Main



Tentative Daily Programme
Start Date: 02 April 2016
End Date: 02 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6683'	114° 6.8163'
B	22° 20.7200'	114° 6.7988'
C	22° 20.7363'	114° 6.8544'
D	22° 20.6846'	114° 6.8719'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 3) 02 Apr 2016 18:00 -- 02 Apr 2016 22:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
G26

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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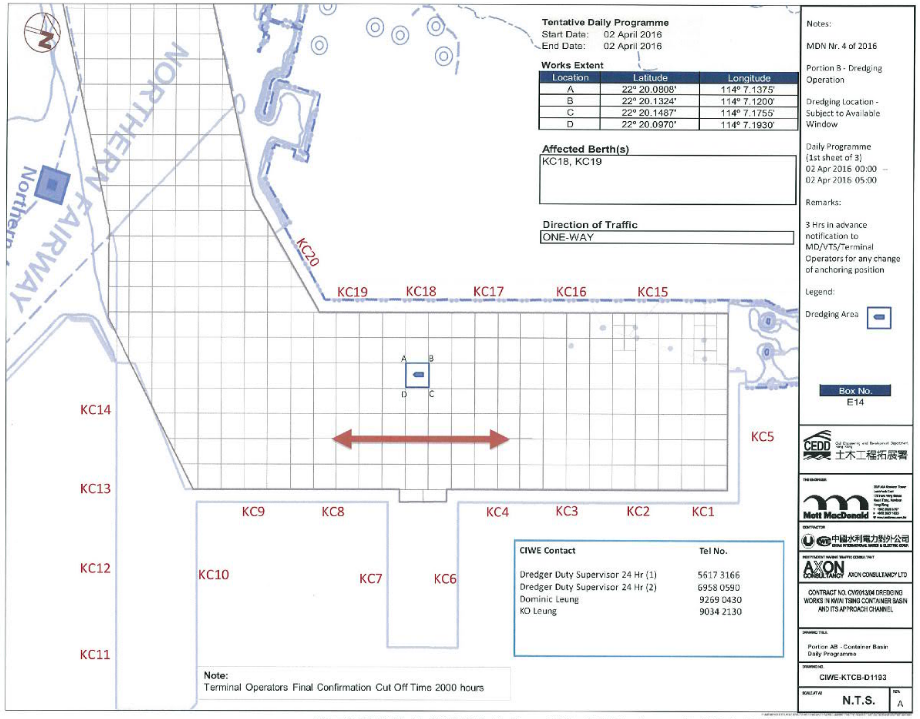

Tentative Daily Programme
Start Date: 02 April 2016
End Date: 02 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0808'	114° 7.1375'
B	22° 20.1324'	114° 7.1200'
C	22° 20.1487'	114° 7.1755'
D	22° 20.0970'	114° 7.1930'

Affected Berth(s)
KC18, KC19

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (1st sheet of 3) 02 Apr 2016 00:00 -- 02 Apr 2016 05:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area
Box No.
E14

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

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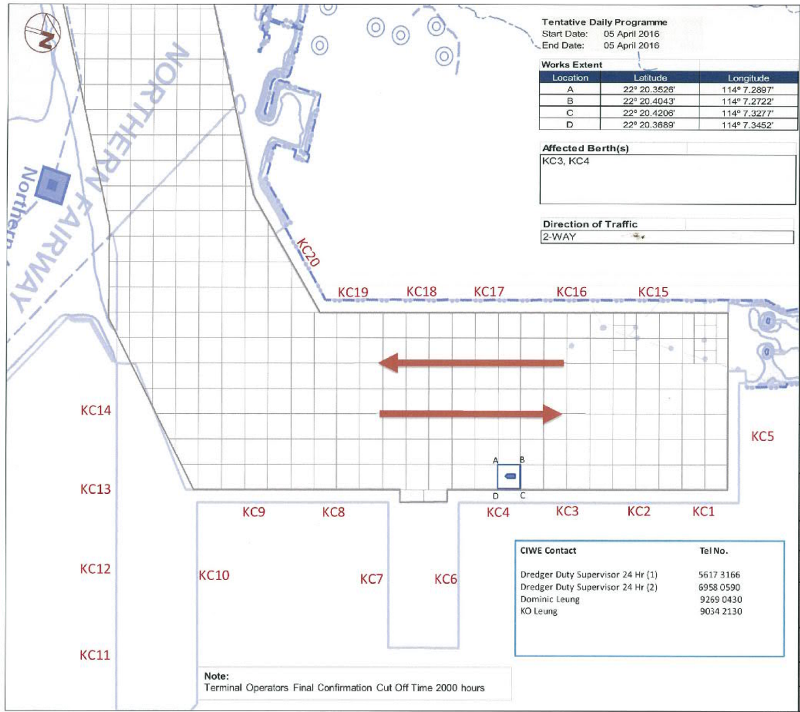


Tentative Daily Programme
Start Date: 05 April 2016
End Date: 05 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.3526'	114° 7.2897'
B	22° 20.4043'	114° 7.2722'
C	22° 20.4206'	114° 7.3277'
D	22° 20.3689'	114° 7.3452'

Affected Berth(s)
KC3, KC4

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 2)
05 Apr 2016 07:00 --
05 Apr 2016 12:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A18

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

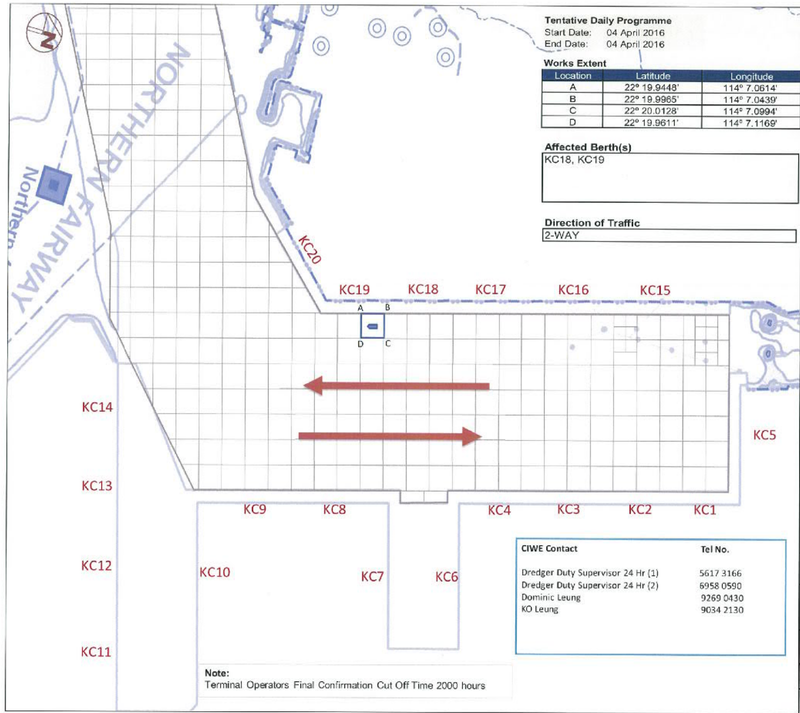
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1198

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-04 D1198 for A18.xlsx]Main



Tentative Daily Programme
Start Date: 04 April 2016
End Date: 04 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9448'	114° 7.0614'
B	22° 19.9965'	114° 7.0439'
C	22° 20.0128'	114° 7.0994'
D	22° 19.9611'	114° 7.1169'

Affected Berth(s)
KC18, KC19

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(1st sheet of 2)
04 Apr 2016 10:00 --
04 Apr 2016 16:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G12

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

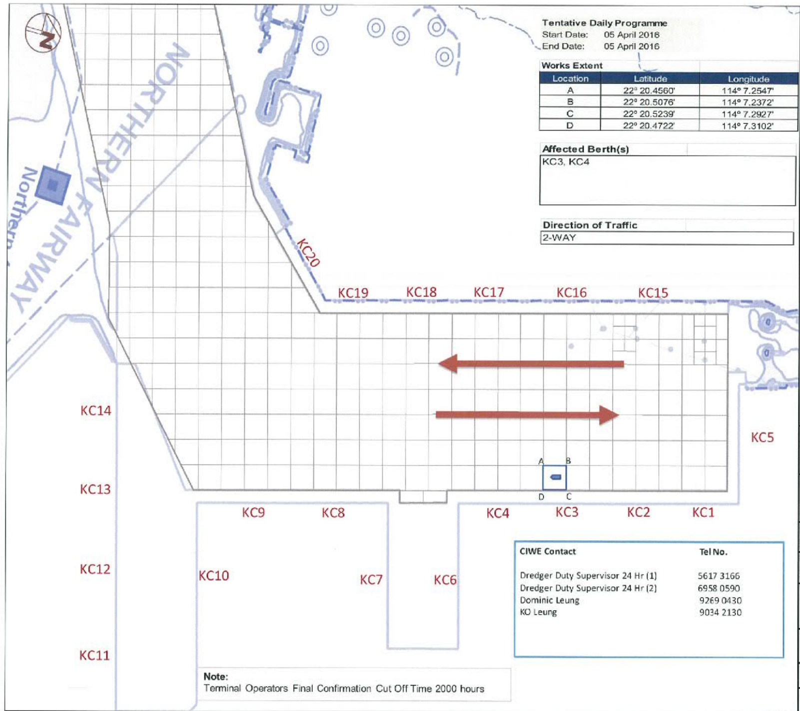
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1196

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-02 D1196 for G12.xlsx]Main



Tentative Daily Programme
Start Date: 05 April 2016
End Date: 05 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4560'	114° 7.2547'
B	22° 20.5076'	114° 7.2372'
C	22° 20.5239'	114° 7.2927'
D	22° 20.4722'	114° 7.3102'

Affected Berth(s)
KC3, KC4

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016
Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
(2nd sheet of 2)
05 Apr 2016 16:00 --
05 Apr 2016 22:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A20

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

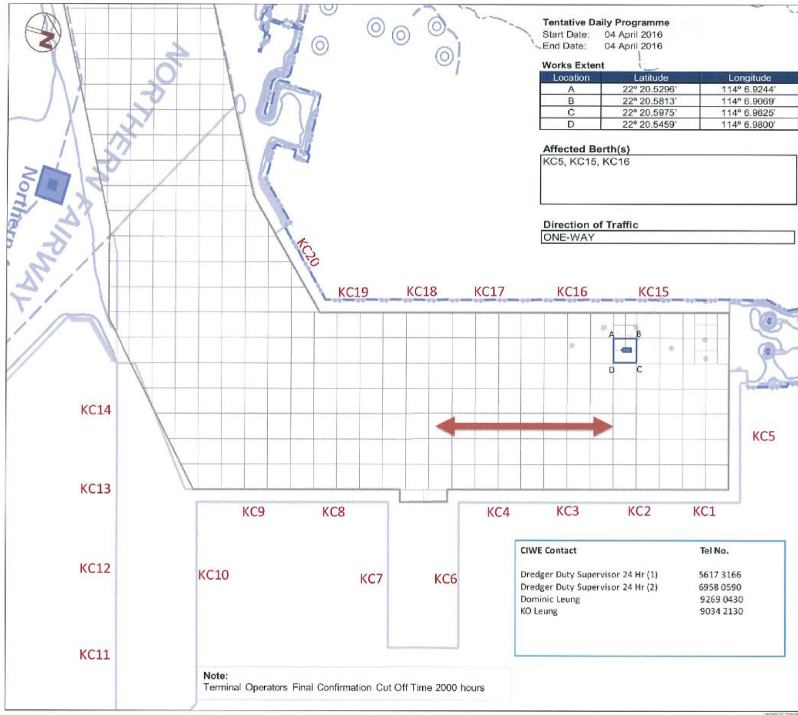
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1199

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-23 D1181 for A20.xlsx]Main



Tentative Daily Programme
Start Date: 04 April 2016
End Date: 04 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 2)
04 Apr 2016 17:00 --
04 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F23

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

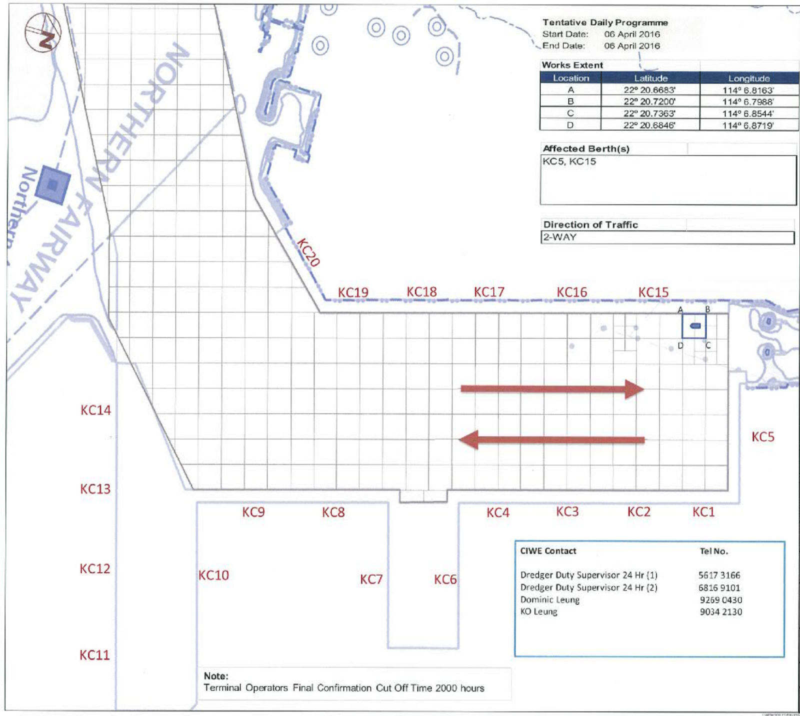
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1197

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-02 D1197 for F23.xlsx]Main



Tentative Daily Programme
Start Date: 06 April 2016
End Date: 06 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6683'	114° 6.8163'
B	22° 20.7200'	114° 6.7988'
C	22° 20.7363'	114° 6.8544'
D	22° 20.6846'	114° 6.8719'

Affected Berth(s)
KC5, KC15

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (3rd sheet of 3)
06 Apr 2016 15:00 -- 06 Apr 2016 23:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

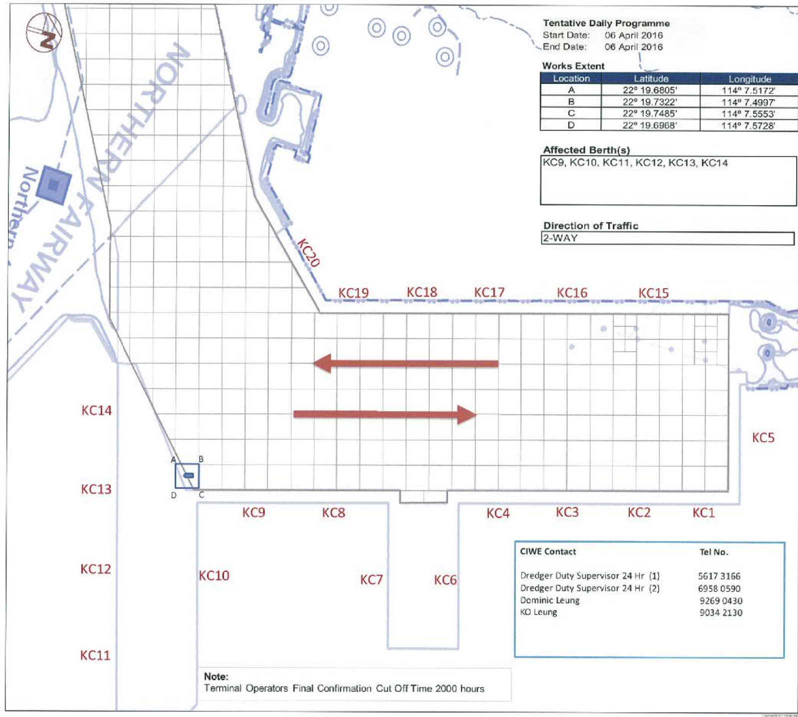
Box No.
G26

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1202
N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-03-30 D1189 for G26.xlsx]Main



Tentative Daily Programme
Start Date: 06 April 2016
End Date: 06 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.6805'	114° 7.5172'
B	22° 19.7322'	114° 7.4997'
C	22° 19.7485'	114° 7.5553'
D	22° 19.6968'	114° 7.5728'

Affected Berth(s)
KC9, KC10, KC11, KC12, KC13, KC14

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion B - Dredging Operation
Dredging Location -
Daily Programme: (1st sheet of 3)
06 Apr 2016 01:00 -- 06 Apr 2016 05:00
(Pls note that a standby tug is standing by)
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

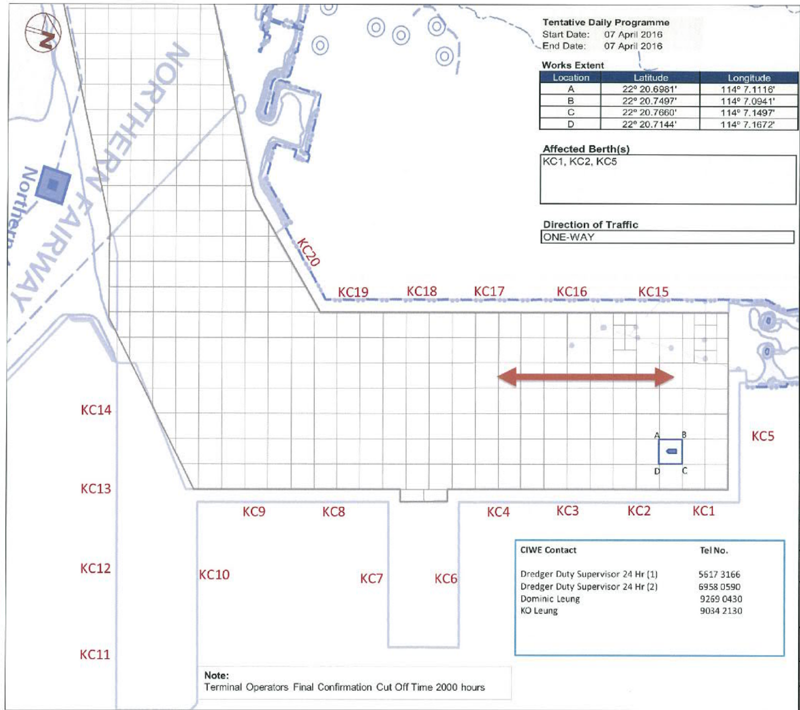
Box No.
A4

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1200
N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-05 D1200 for A4.xlsx]Main



Tentative Daily Programme
Start Date: 07 April 2016
End Date: 07 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6981'	114° 7.1116'
B	22° 20.7497'	114° 7.0941'
C	22° 20.7660'	114° 7.1497'
D	22° 20.7144'	114° 7.1672'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
(1st sheet of 2)
Daily Programme :
07 Apr 2016 07:00 -- 07 Apr 2016 14:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

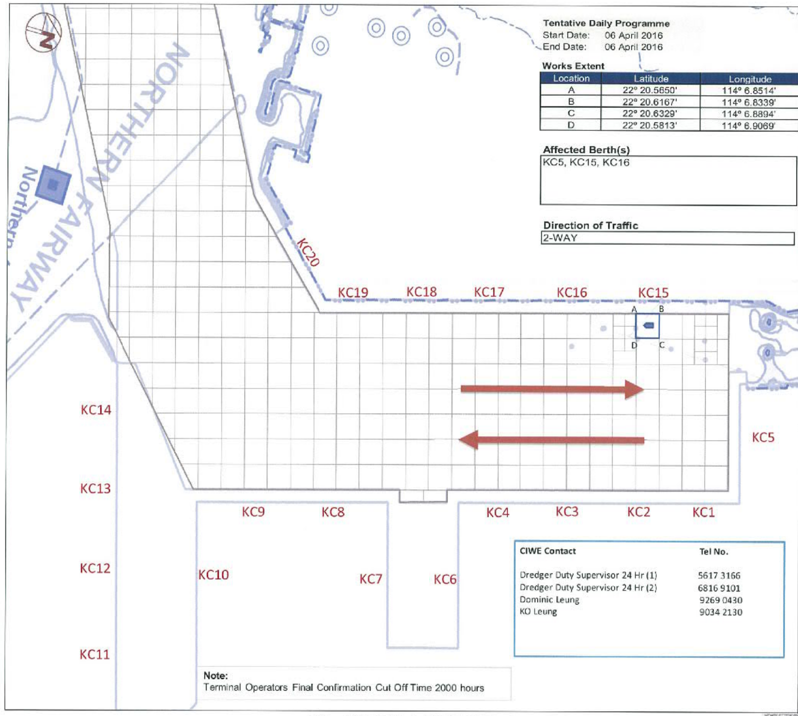
Box No.
B25

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1203
N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-06 D1203 for B25.xlsx]Main



Tentative Daily Programme
Start Date: 06 April 2016
End Date: 06 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5650'	114° 6.8514'
B	22° 20.6167'	114° 6.8339'
C	22° 20.6329'	114° 6.8894'
D	22° 20.5813'	114° 6.9069'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
2-WAY

Notes:
MDN Nr. 4 of 2016
Portion A - Dredging Operation
Dredging Location - Subject to Available Window
Daily Programme (2nd sheet of 3)
06 Apr 2016 09:00 -- 06 Apr 2016 15:00
Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position
Legend:
Dredging Area

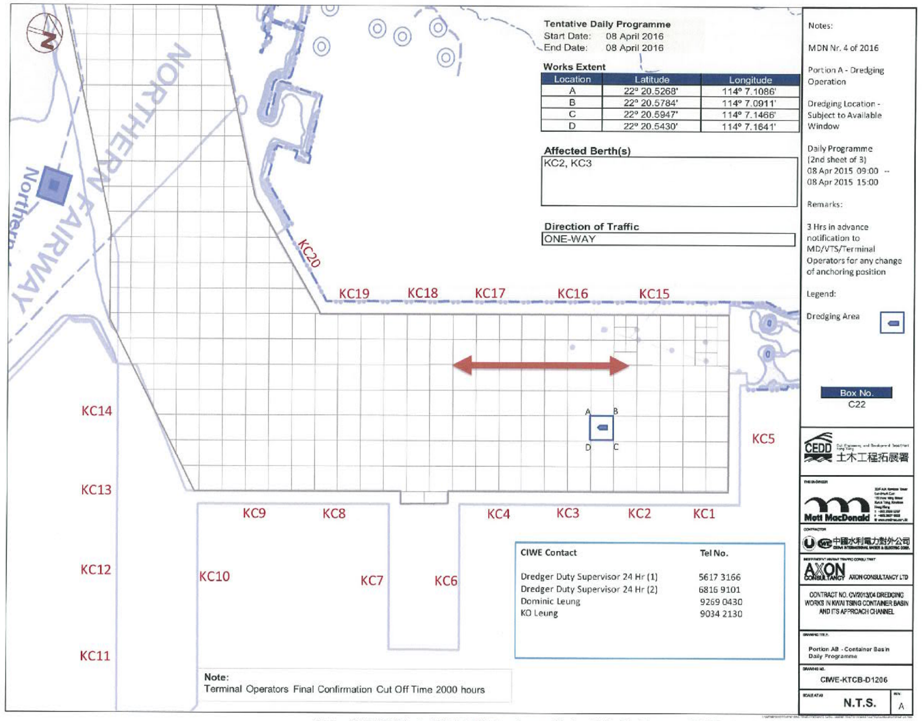
Box No.
G24

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

CEDD 土木工程拓展署
Mott MacDonald
中國水利電力對外公司
AXON CONSULTANCY AXON CONSULTANCY LTD
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL
Portion AB - Container Basin Daily Programme
CIWE-KTCB-D1201
N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-06 D1201 for G24.xlsx]Main



Tentative Daily Programme
Start Date: 08 April 2016
End Date: 08 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5268'	114° 7.1086'
B	22° 20.5784'	114° 7.0911'
C	22° 20.5947'	114° 7.1466'
D	22° 20.5430'	114° 7.1641'

Affected Berth(s)
KC2, KC3

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (2nd sheet of 3)
08 Apr 2015 09:00 --
08 Apr 2015 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
C22

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1206

N.T.S. A

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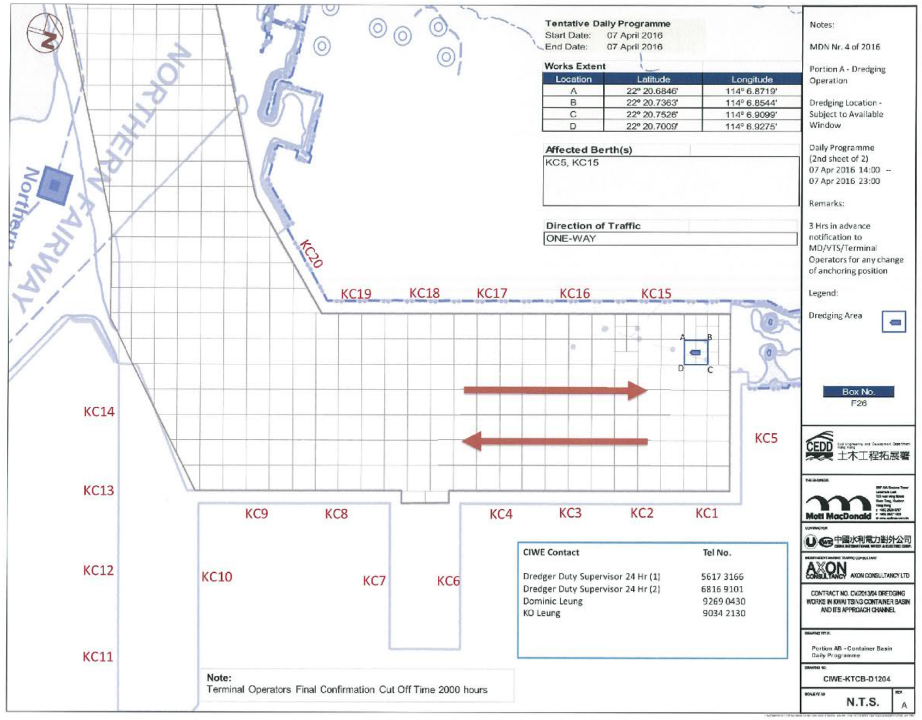

Tentative Daily Programme
Start Date: 07 April 2016
End Date: 07 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6846'	114° 6.8719'
B	22° 20.7363'	114° 6.8544'
C	22° 20.7526'	114° 6.9099'
D	22° 20.7009'	114° 6.9275'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (2nd sheet of 2)
07 Apr 2016 14:00 --
07 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F26

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1204

N.T.S. A

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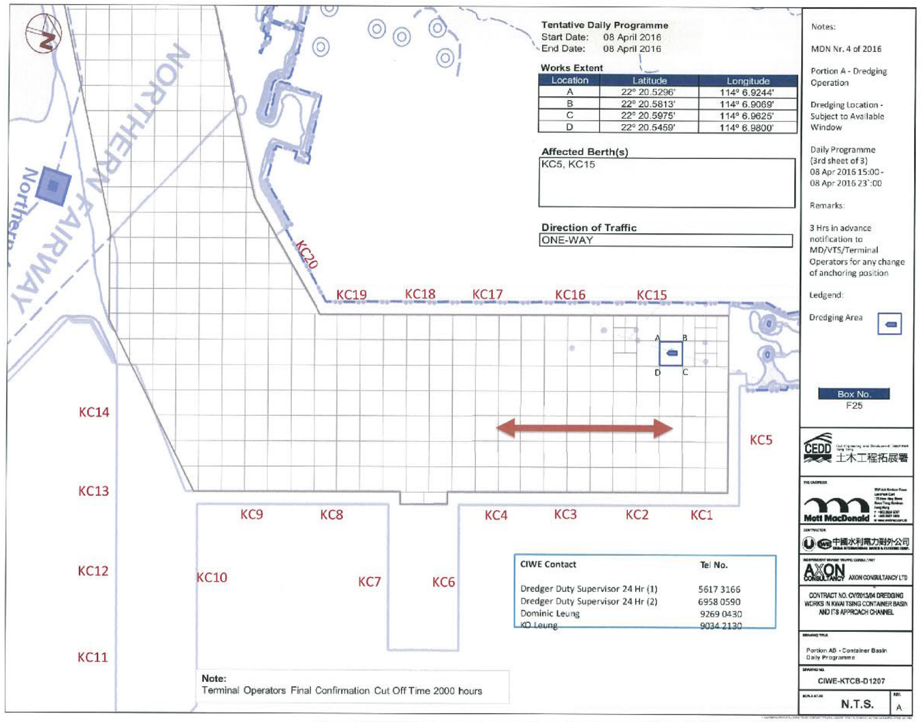

Tentative Daily Programme
Start Date: 08 April 2016
End Date: 08 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (3rd sheet of 3)
08 Apr 2016 15:00 -
08 Apr 2016 23`:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Ledgend:

Dredging Area

Box No.
F25

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1207

N.T.S. A

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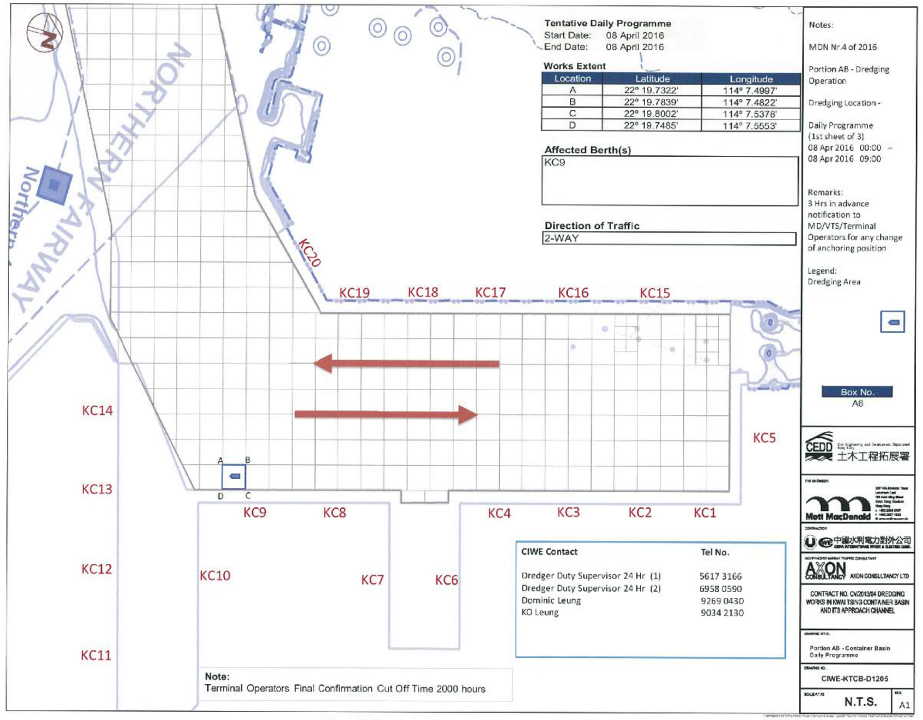


Tentative Daily Programme
Start Date: 08 April 2016
End Date: 08 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.7322'	114° 7.4997'
B	22° 19.7839'	114° 7.4822'
C	22° 19.8002'	114° 7.5378'
D	22° 19.7485'	114° 7.5553'

Affected Berth(s)
KC9

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion AB - Dredging Operation

Dredging Location -

Daily Programme (1st sheet of 3)
08 Apr 2016 00:00 --
08 Apr 2016 09:00

Remarks:
3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:
Dredging Area

Box No.
A6

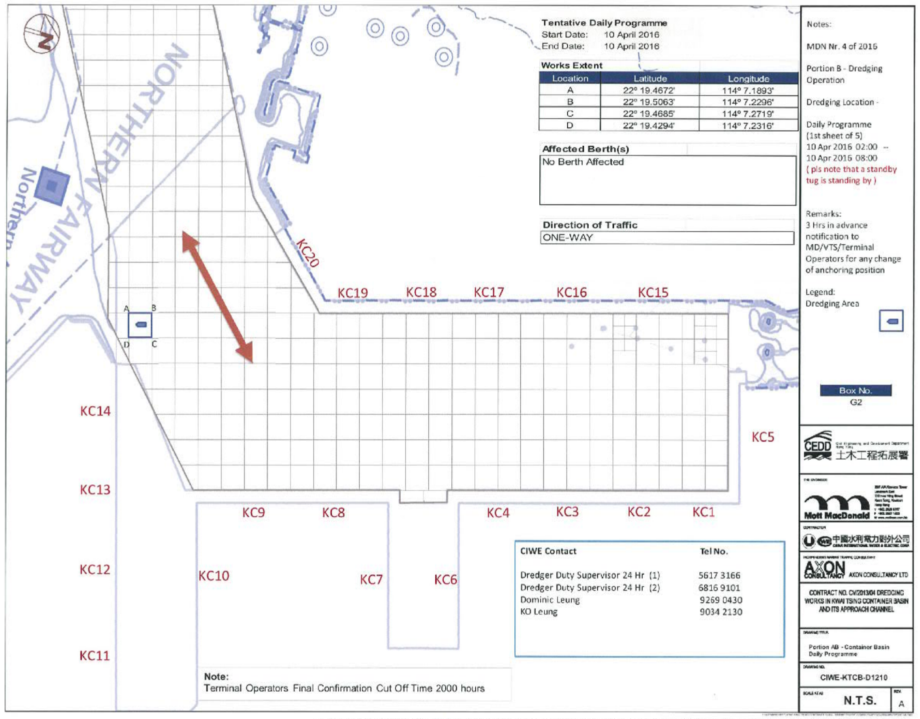
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

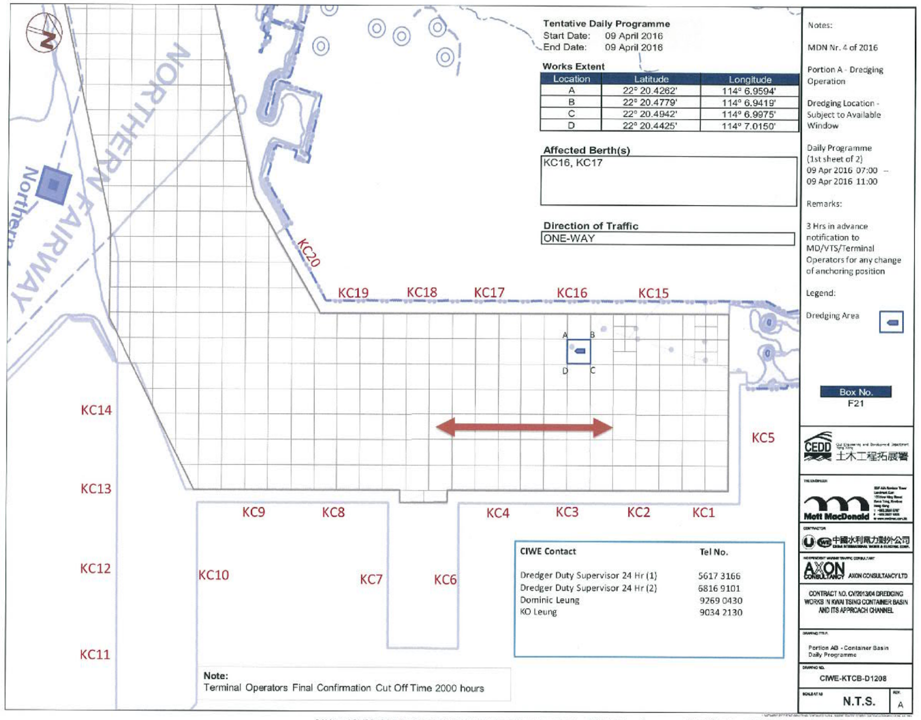
CIWE-KTCB-D1205

N.T.S. A1

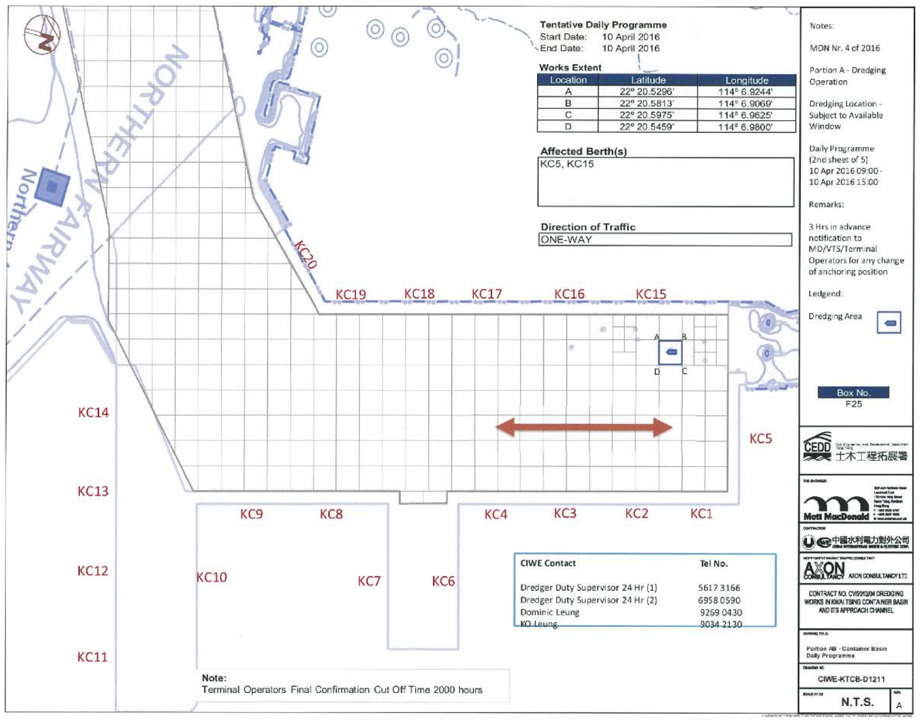
C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-07 D1205 for A6.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-09 D1210 for G2.xlsx]Main



C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-08 D1208 for F21.xlsx]Main



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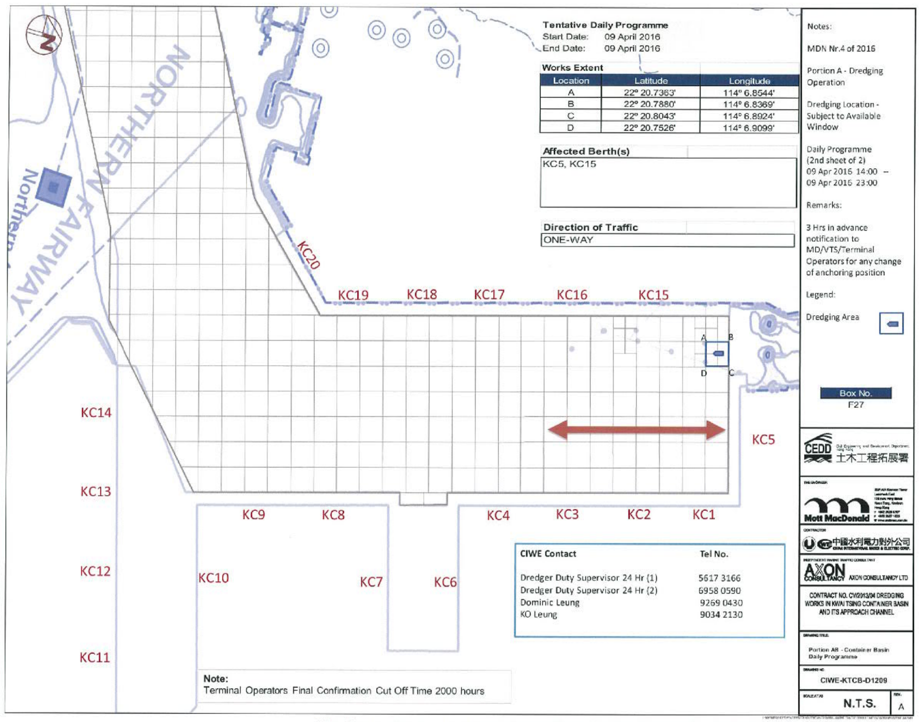

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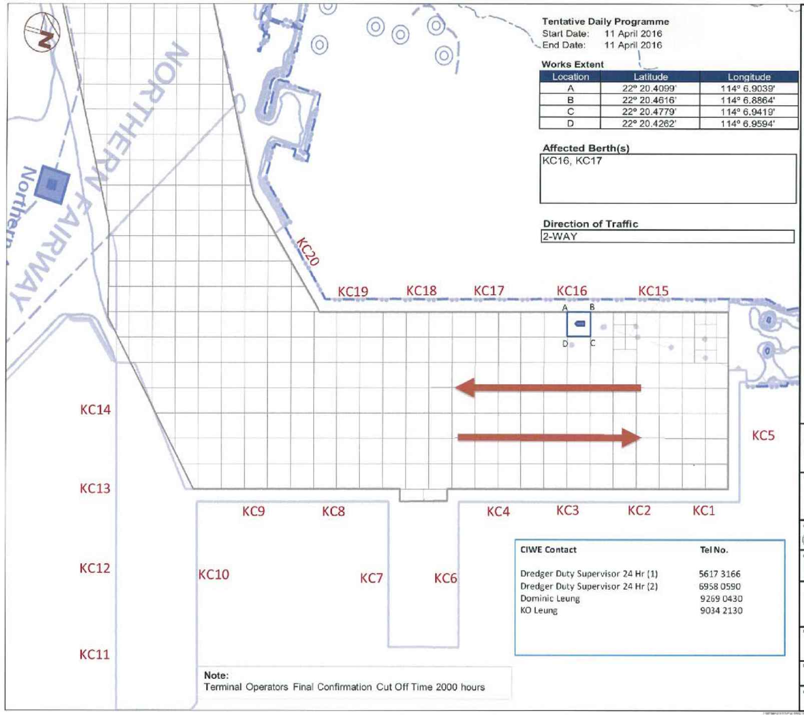


Tentative Daily Programme
Start Date: 11 April 2016
End Date: 11 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.4099'	114° 6.9039'
B	22° 20.4616'	114° 6.8864'
C	22° 20.4779'	114° 6.9419'
D	22° 20.4262'	114° 6.9594'

Affected Berth(s)
KC16, KC17

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2015

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (5th sheet of 5)
11 Apr 2016 15:00 --
11 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G21

CEDD 土木工程拓展署

THE ENGINEER
Mott MacDonald

CONTRACTOR
中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

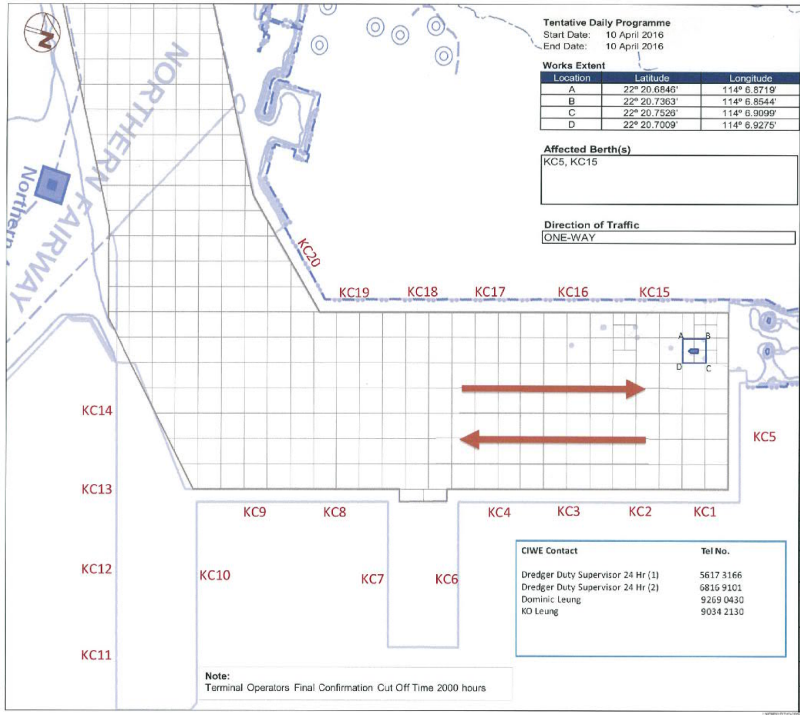
DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1214

SCALE AT A3
N.T.S.

REV.
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-09 D1214 for G21.xlsx]Main



Tentative Daily Programme
Start Date: 10 April 2016
End Date: 10 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.6846'	114° 6.8719'
B	22° 20.7363'	114° 6.8544'
C	22° 20.7526'	114° 6.9099'
D	22° 20.7009'	114° 6.9275'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (3rd sheet of 5)
10 Apr 2016 15:00 --
10 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F26

CEDD 土木工程拓展署

THE ENGINEER
Mott MacDonald

CONTRACTOR
中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

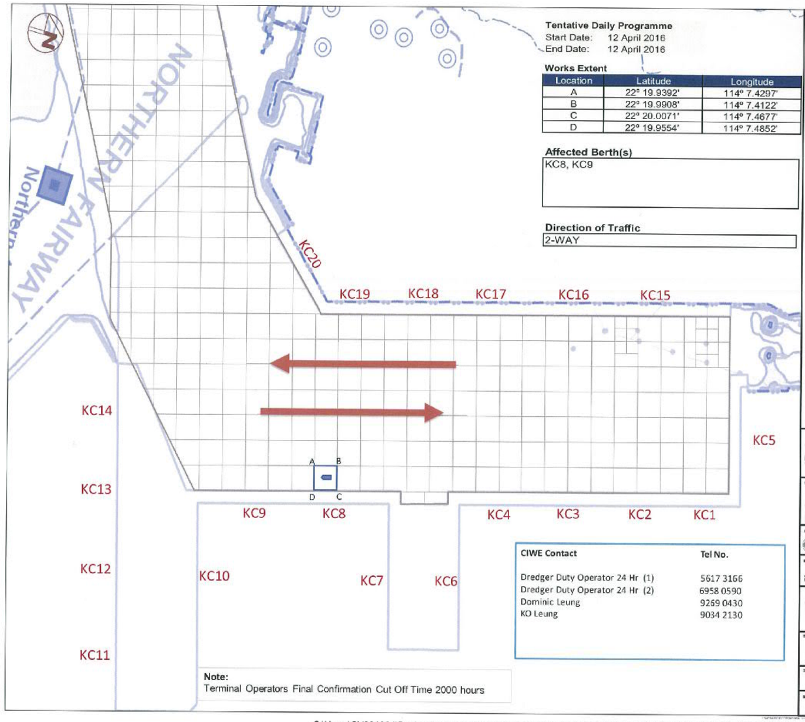
DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1212

SCALE AT A3
N.T.S.

REV.
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-09 D1212 for F26.xlsx]Main



Tentative Daily Programme
Start Date: 12 April 2016
End Date: 12 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9392'	114° 7.4297'
B	22° 19.9908'	114° 7.4122'
C	22° 20.0071'	114° 7.4677'
D	22° 19.9554'	114° 7.4852'

Affected Berth(s)
KC8, KC9

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Operator 24 Hr (1)	5617 3166
Dredger Duty Operator 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 20146
Portion B - Dredging Operation

Dredging Location - Subject to Available Window
Daily Programme: (1st sheet of 3)
12 Apr 2016 00:00 --
12 Apr 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
A10

CEDD 土木工程拓展署

THE ENGINEER
Mott MacDonald

CONTRACTOR
中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

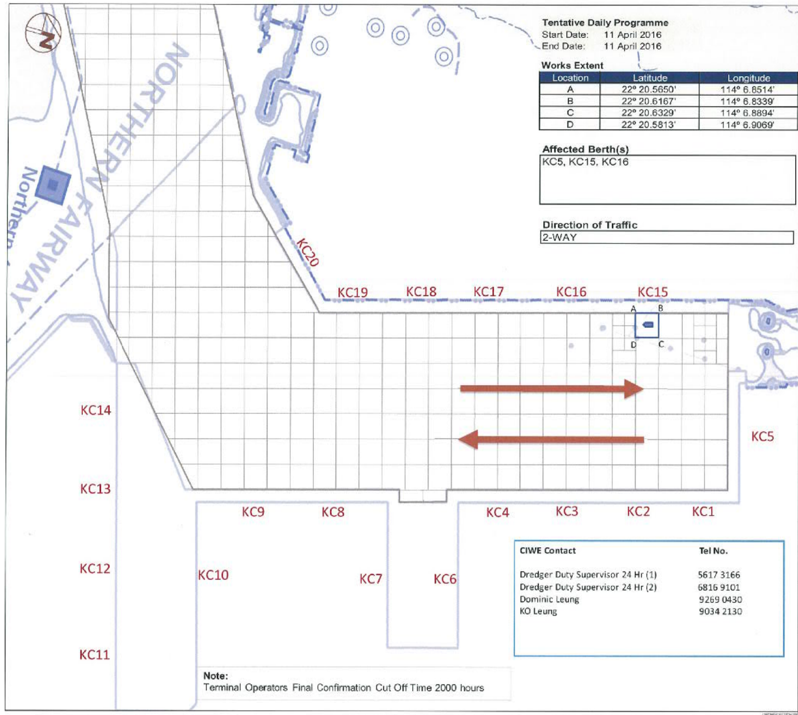
DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1215

SCALE AT A3
N.T.S.

REV.
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-11 D1215 for A10.xlsx]Main



Tentative Daily Programme
Start Date: 11 April 2016
End Date: 11 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5650'	114° 6.8514'
B	22° 20.6167'	114° 6.8339'
C	22° 20.6329'	114° 6.8894'
D	22° 20.5813'	114° 6.9069'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6816 9101
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme (4th sheet of 5)
11 Apr 2016 08:00 --
11 Apr 2016 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G24

CEDD 土木工程拓展署

THE ENGINEER
Mott MacDonald

CONTRACTOR
中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT
AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

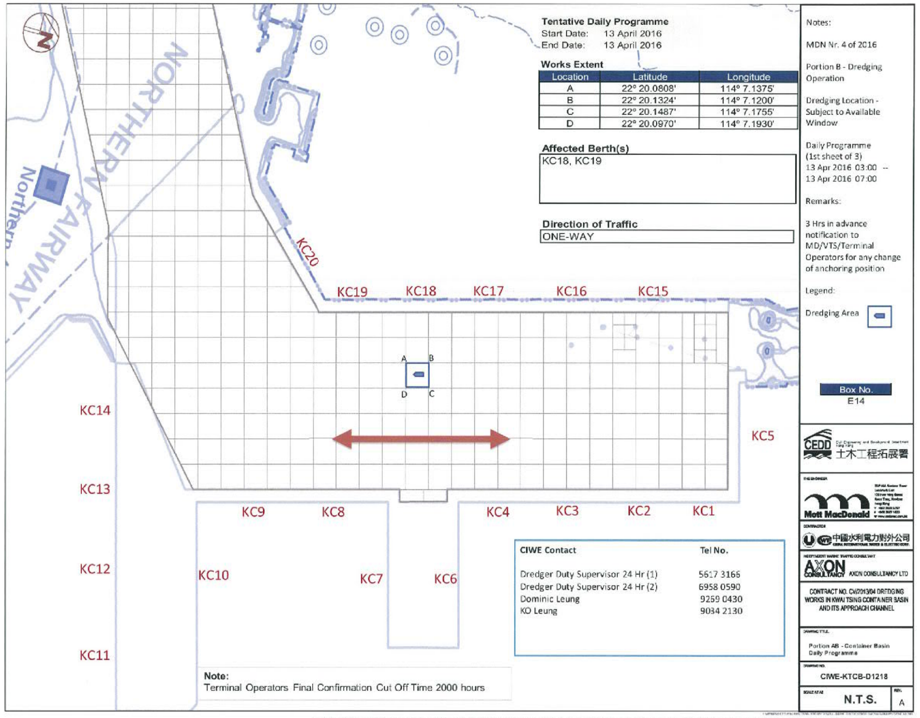
DRAWING TITLE
Portion AB - Container Basin Daily Programme

DRAWING NO.
CIWE-KTCB-D1213

SCALE AT A3
N.T.S.

REV.
A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-09 D1213 for G24.xlsx]Main



Tentative Daily Programme
Start Date: 13 April 2016
End Date: 13 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.0808'	114° 7.1375'
B	22° 20.1324'	114° 7.1200'
C	22° 20.1487'	114° 7.1755'
D	22° 20.0970'	114° 7.1930'

Affected Berth(s)
KC18, KC19

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9259 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(1st sheet of 3)
13 Apr 2016 03:00 --
13 Apr 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
E14

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

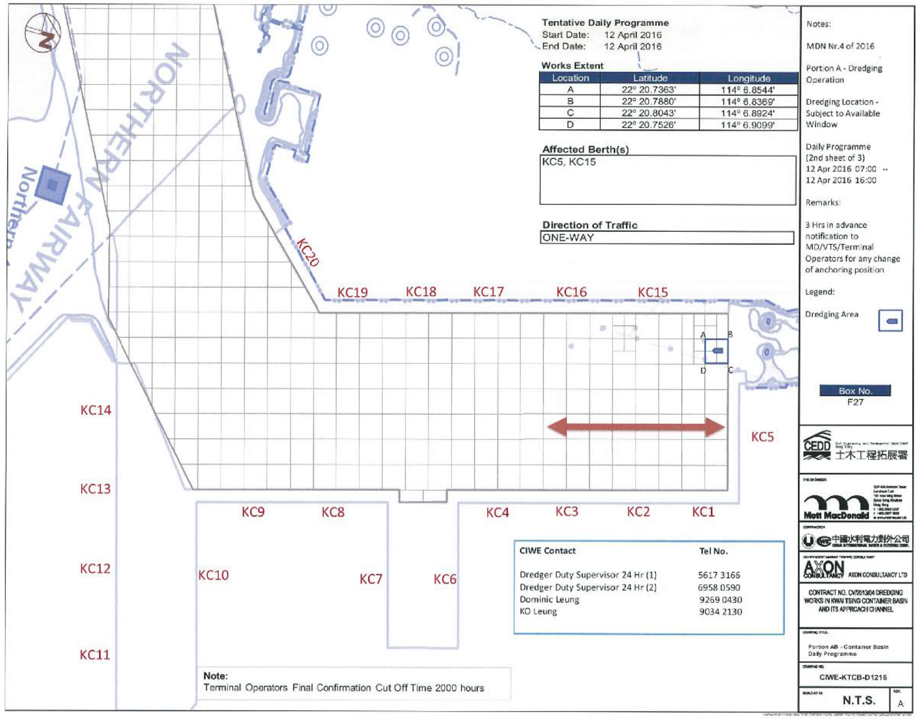
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1218

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-12 D1218 for E14.xlsx]Main



Tentative Daily Programme
Start Date: 12 April 2016
End Date: 12 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7363'	114° 6.8544'
B	22° 20.7880'	114° 6.8369'
C	22° 20.8043'	114° 6.8924'
D	22° 20.7526'	114° 6.9099'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9259 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 3)
12 Apr 2016 07:00 --
12 Apr 2016 16:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F27

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

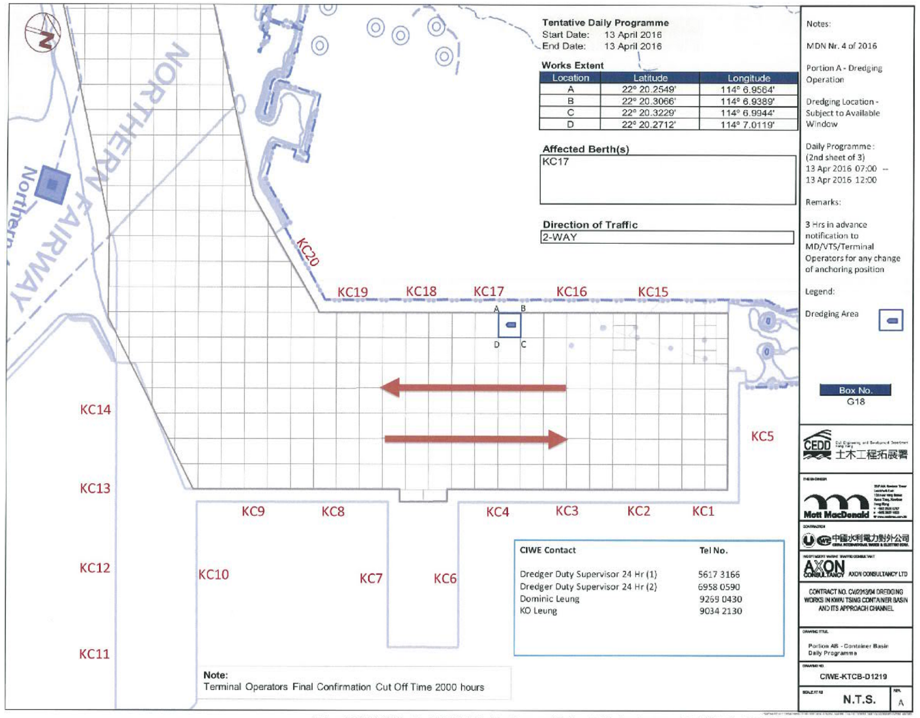
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1216

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-11 D1216 for F27.xlsx]Main



Tentative Daily Programme
Start Date: 13 April 2016
End Date: 13 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.2549'	114° 6.9564'
B	22° 20.3066'	114° 6.9389'
C	22° 20.3229'	114° 6.9944'
D	22° 20.2712'	114° 7.0119'

Affected Berth(s)
KC17

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9259 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(2nd sheet of 3)
13 Apr 2016 07:00 --
13 Apr 2016 12:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G18

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

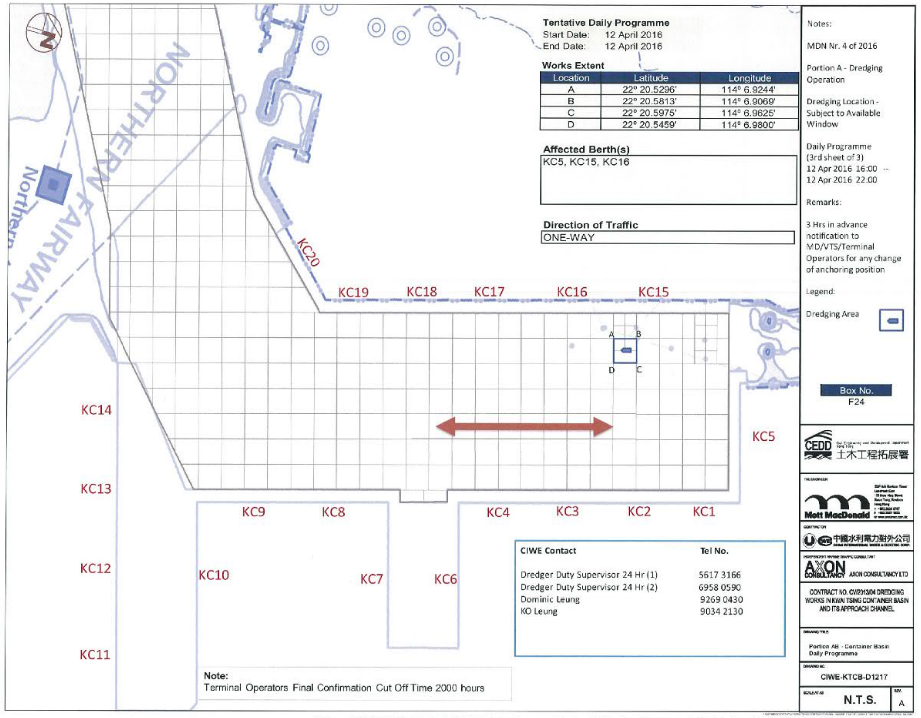
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1219

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-12 D1219 for G18.xlsx]Main



Tentative Daily Programme
Start Date: 12 April 2016
End Date: 12 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9259 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 3)
12 Apr 2016 16:00 --
12 Apr 2016 22:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F24

CEDD 土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

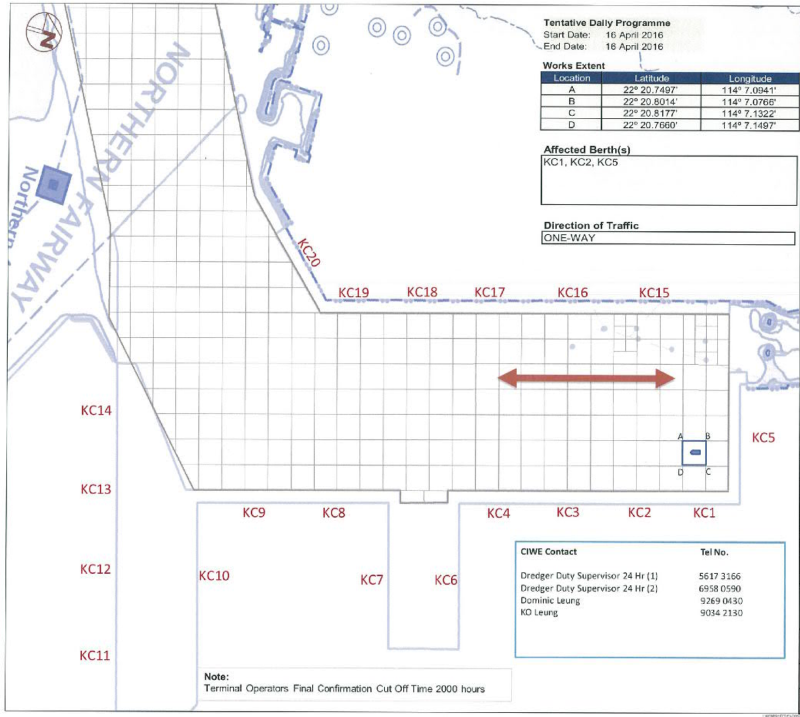
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1217

N.T.S. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-11 D1217 for F24.xlsx]Main



Tentative Daily Programme
Start Date: 16 April 2016
End Date: 16 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7497'	114° 7.0941'
B	22° 20.8014'	114° 7.0766'
C	22° 20.8177'	114° 7.1322'
D	22° 20.7660'	114° 7.1497'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme:
16 Apr 2016 10:30 --
16 Apr 2016 15:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
B26

土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

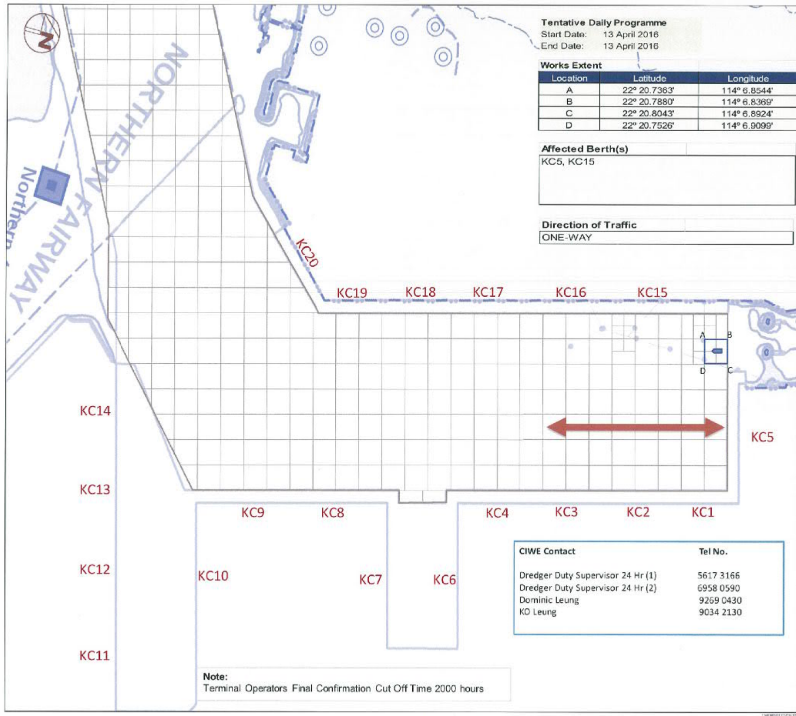
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1225

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-15 D1225 for B26.xlsx]Main



Tentative Daily Programme
Start Date: 13 April 2016
End Date: 13 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7363'	114° 6.8544'
B	22° 20.7880'	114° 6.8369'
C	22° 20.8043'	114° 6.8924'
D	22° 20.7526'	114° 6.9099'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 3)
13 Apr 2016 12:00 --
13 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F27

土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

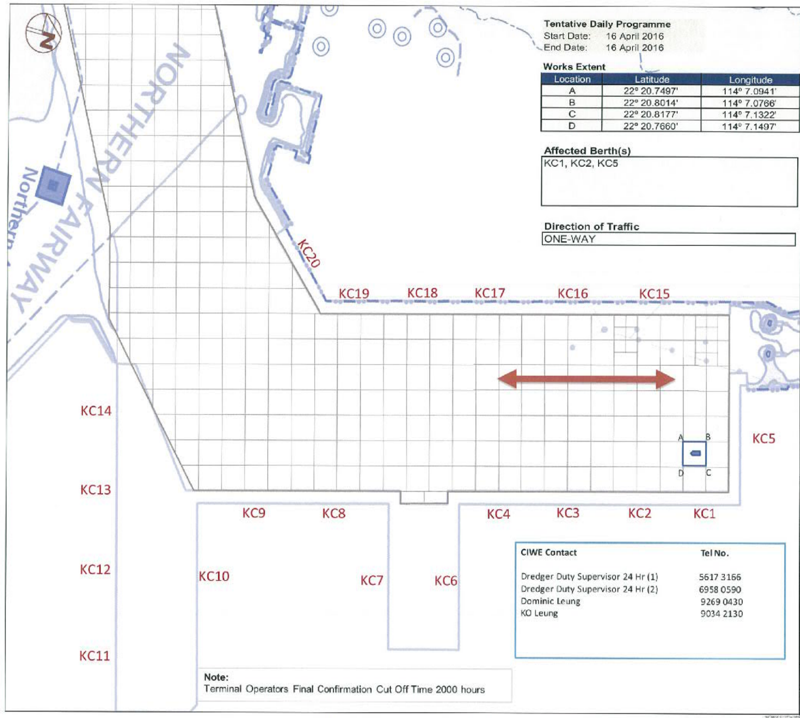
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1220

N.T.S.

A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-11 D1216 for F27.xlsx]Main



Tentative Daily Programme
Start Date: 16 April 2016
End Date: 16 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7497'	114° 7.0941'
B	22° 20.8014'	114° 7.0766'
C	22° 20.8177'	114° 7.1322'
D	22° 20.7660'	114° 7.1497'

Affected Berth(s)
KC1, KC2, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A -Marine Works
(Pls note that a standby tug is standing by)

Dredging Location - Subject to Available Window

Daily Programme:
16 Apr 2016 16:00 --
16 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Working Area

Box No.
B26

土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

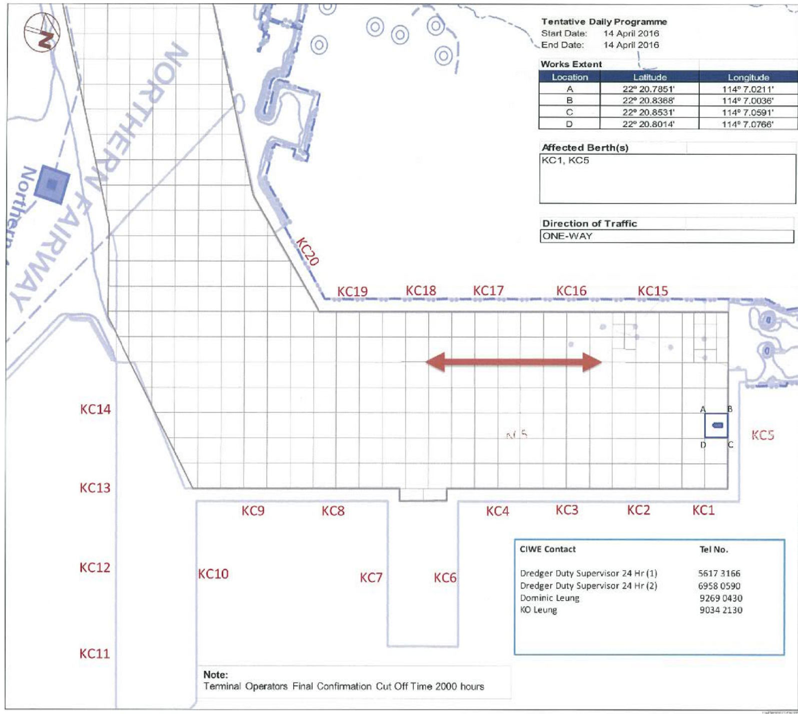
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1226

N.T.S.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-15 D1226 for B26.xlsx]Main



Tentative Daily Programme
Start Date: 14 April 2016
End Date: 14 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7851'	114° 7.0211'
B	22° 20.8368'	114° 7.0036'
C	22° 20.8531'	114° 7.0591'
D	22° 20.8014'	114° 7.0766'

Affected Berth(s)
KC1, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A -Marine Works
(Pls note that a standby tug is standing by)

Daily Programme:
14 Apr 2016 07:00 --
14 Apr 2016 18:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Working Area

Box No.
C27

土木工程拓展署

Mott MacDonald

中國水利電力對外公司

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

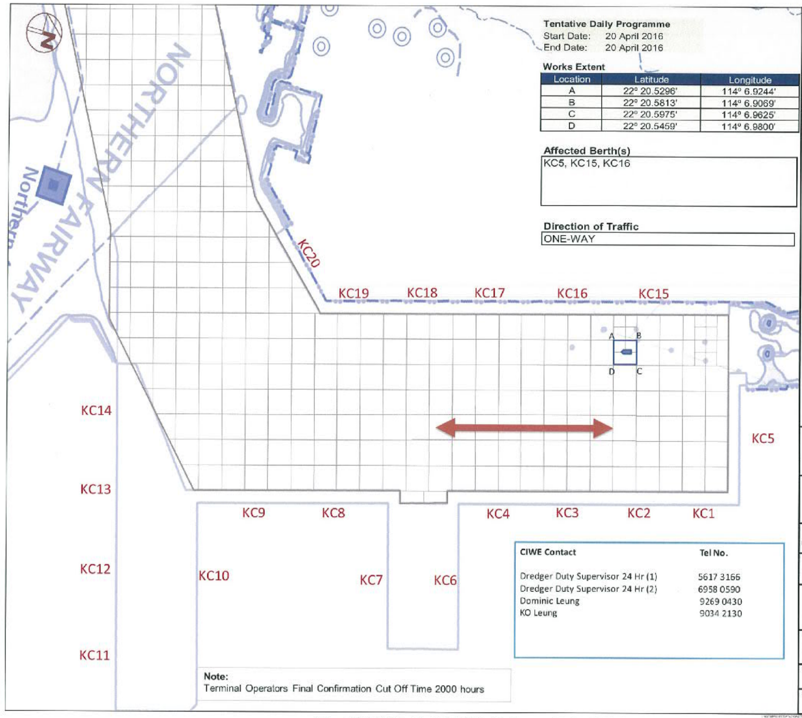
Portion AB - Container Basin Daily Programme

CIWE-KTCB-D1221

N.T.S.

A1

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-13 D1221 for C27 A1.xlsx]Main



Tentative Daily Programme
Start Date: 20 April 2016
End Date: 20 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.5296'	114° 6.9244'
B	22° 20.5813'	114° 6.9069'
C	22° 20.5975'	114° 6.9625'
D	22° 20.5459'	114° 6.9800'

Affected Berth(s)
KC5, KC15, KC16

Direction of Traffic
ONE-WAY

CIWE Contact — **Tel No.**

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(3rd sheet of 3)
20 Apr 2016 12:00 --
20 Apr 2016 23:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F24

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO.: CIWE-KTCB-D1236

SCALE AT A3: N.T.S. REV.: A

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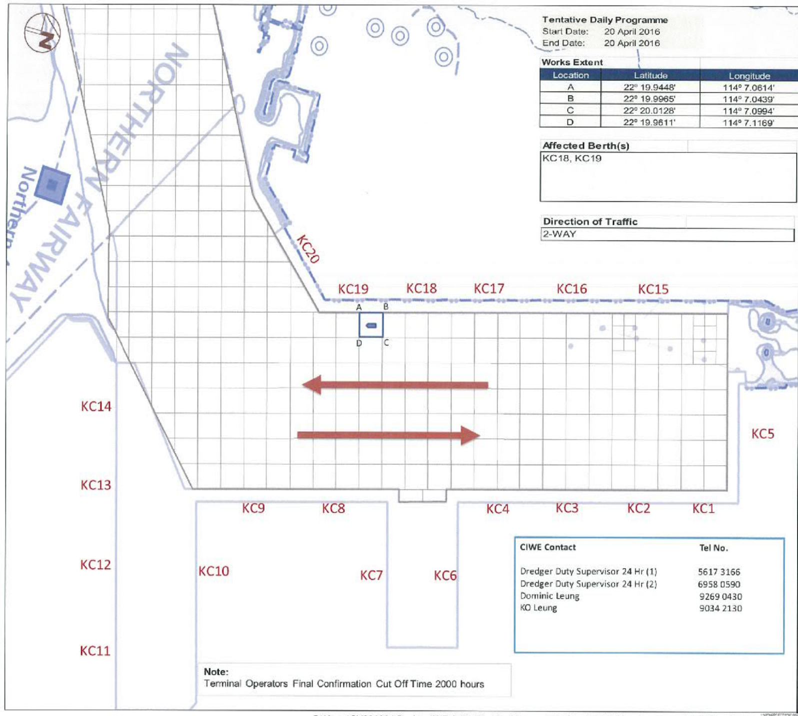


Tentative Daily Programme
Start Date: 20 April 2016
End Date: 20 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 19.9448'	114° 7.0614'
B	22° 19.9965'	114° 7.0439'
C	22° 20.0128'	114° 7.0994'
D	22° 19.9611'	114° 7.1169'

Affected Berth(s)
KC18, KC19

Direction of Traffic
2-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion B - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme :
(1st sheet of 3)
20 Apr 2016 00:00 --
20 Apr 2016 07:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
G12

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

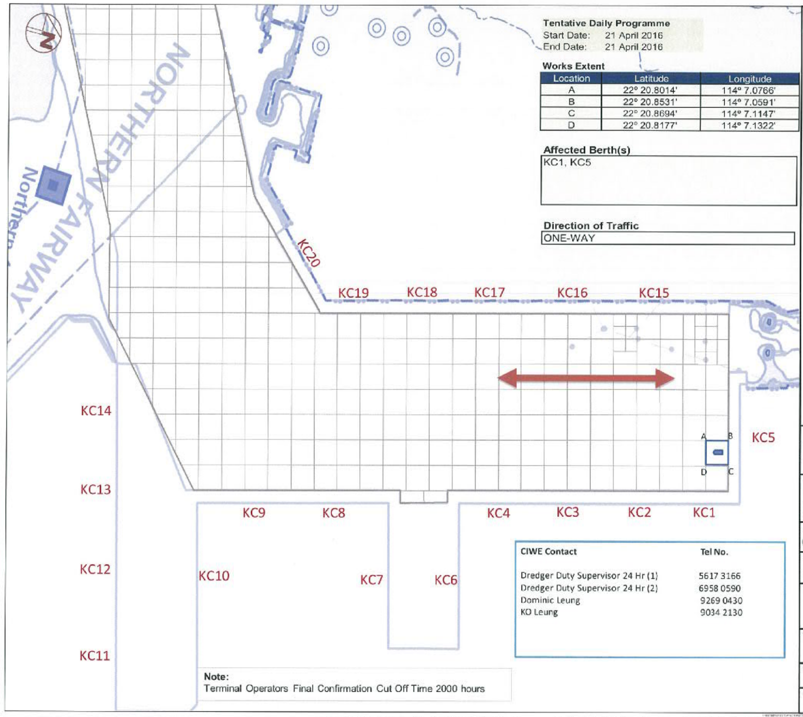
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO.: CIWE-KTCB-D1234

SCALE AT A3: N.T.S. REV.: A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-19 D1234 for G12.xlsx]Main



Tentative Daily Programme
Start Date: 21 April 2016
End Date: 21 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.8014'	114° 7.0766'
B	22° 20.8531'	114° 7.0591'
C	22° 20.8694'	114° 7.1147'
D	22° 20.8177'	114° 7.1322'

Affected Berth(s)
KC1, KC5

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr. 4 of 2016

Portion A - Marine Works

Daily Programme:
(1stsheet of 2)
21 Apr 2016 07:30 --
21 Apr 2016 16:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Working Area

Box No.
B27

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

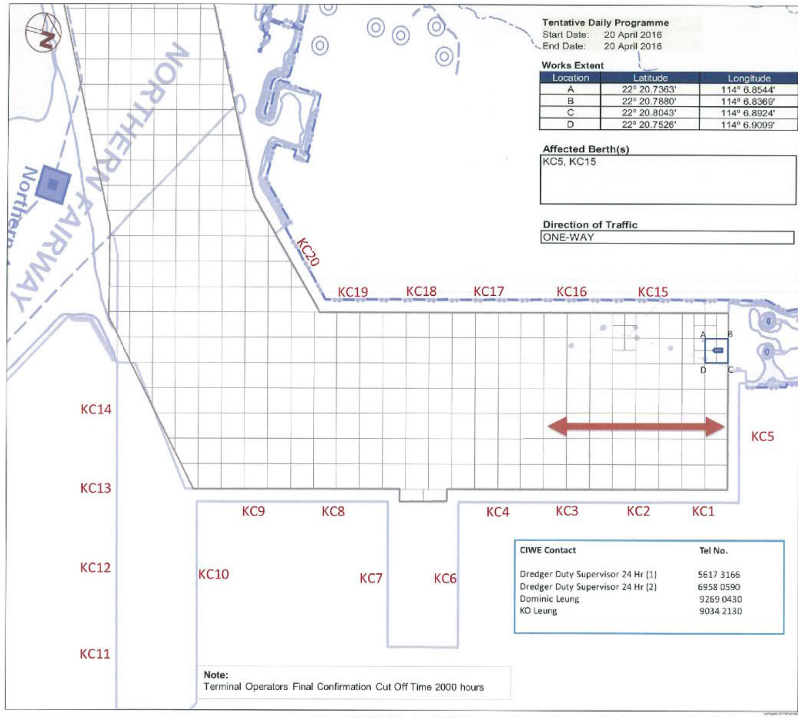
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO.: CIWE-KTCB-D1237

SCALE AT A3: N.T.S. REV.: A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-20 D1237 for B27.xlsx]Main



Tentative Daily Programme
Start Date: 20 April 2016
End Date: 20 April 2016

Works Extent

Location	Latitude	Longitude
A	22° 20.7363'	114° 6.8544'
B	22° 20.7880'	114° 6.8369'
C	22° 20.8043'	114° 6.8924'
D	22° 20.7526'	114° 6.9099'

Affected Berth(s)
KC5, KC15

Direction of Traffic
ONE-WAY

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

Note:
Terminal Operators Final Confirmation Cut Off Time 2000 hours

Notes:

MDN Nr.4 of 2016

Portion A - Dredging Operation

Dredging Location - Subject to Available Window

Daily Programme
(2nd sheet of 3)
20 Apr 2016 07:00 --
20 Apr 2016 12:00

Remarks:

3 Hrs in advance notification to MD/VTS/Terminal Operators for any change of anchoring position

Legend:

Dredging Area

Box No.
F27

CEDD Civil Engineering and Development Department 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY AXON CONSULTANCY LTD

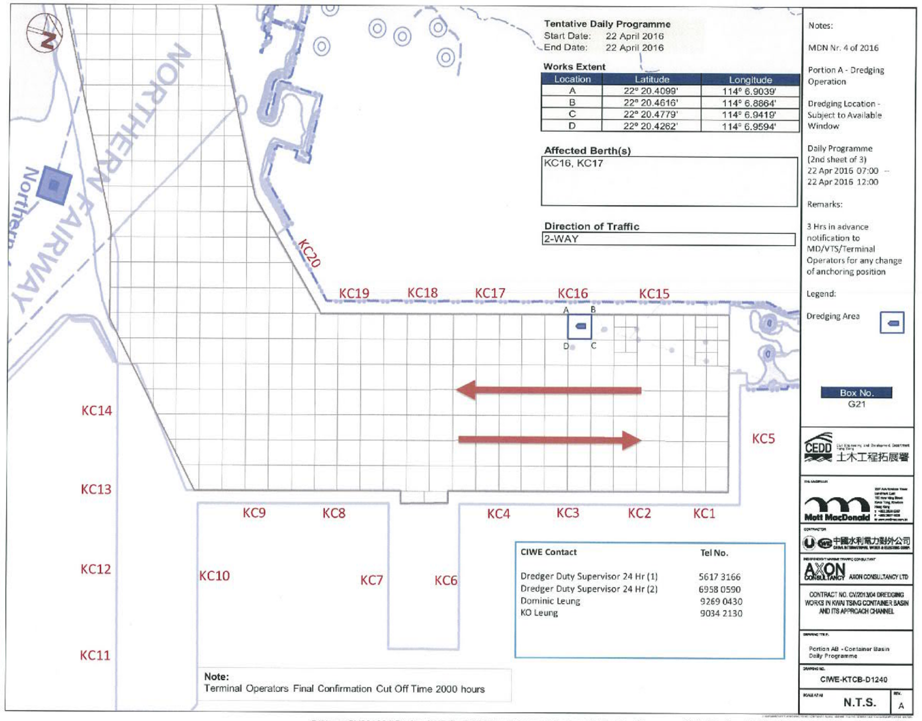
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion AB - Container Basin Daily Programme

DRAWING NO.: CIWE-KTCB-D1235

SCALE AT A3: N.T.S. REV.: A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-19 D1235 for F27.xlsx]Main



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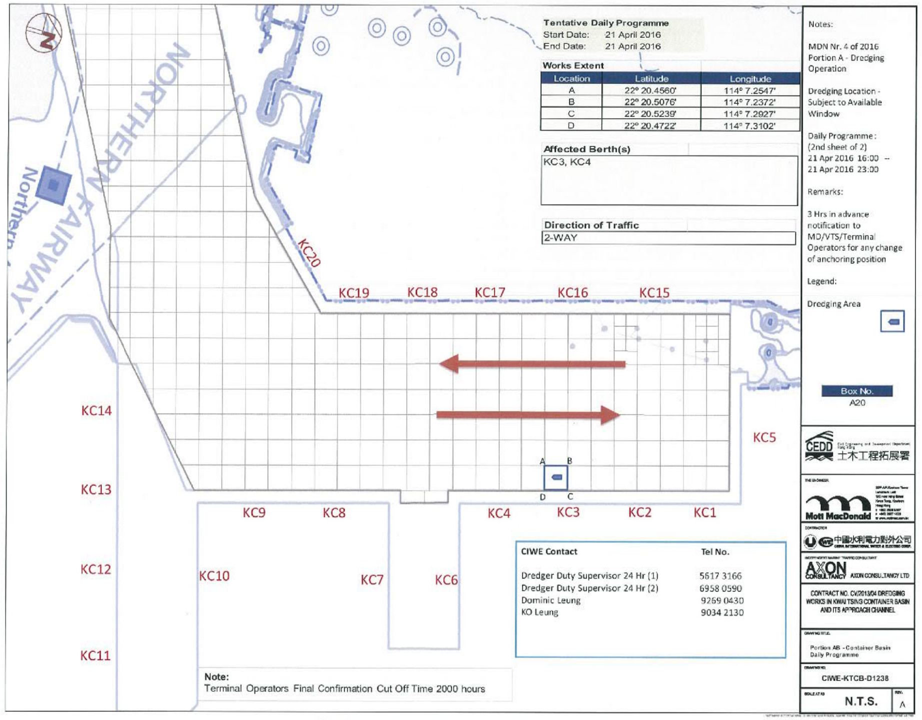

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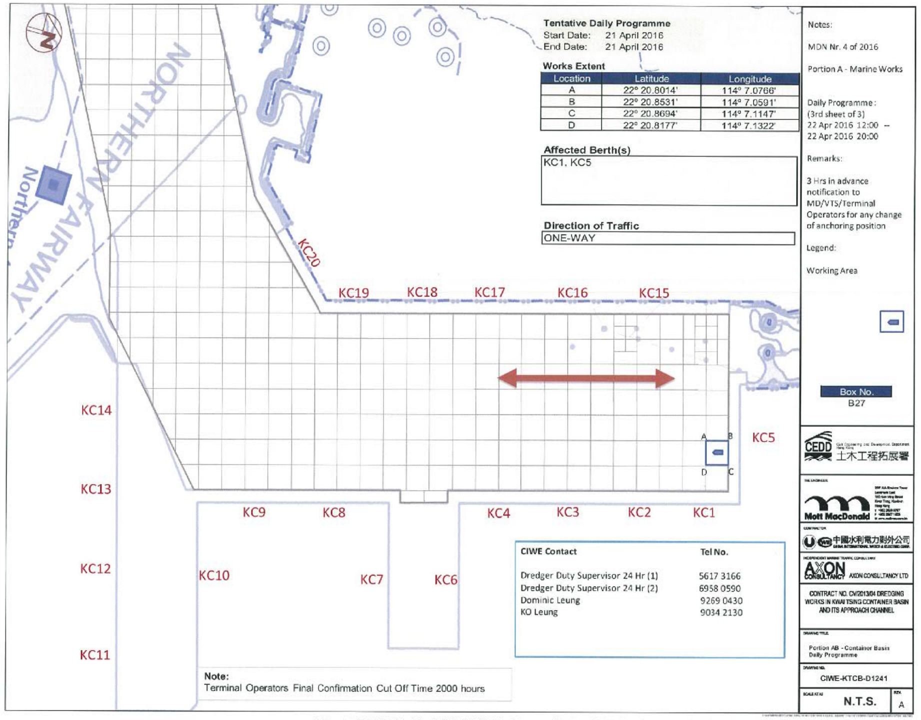

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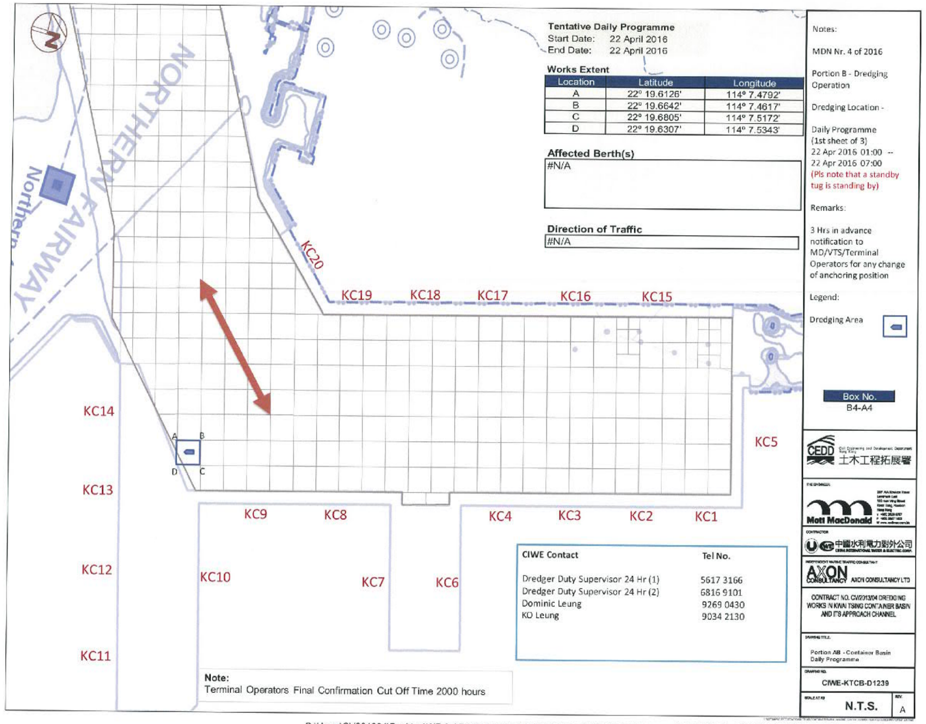
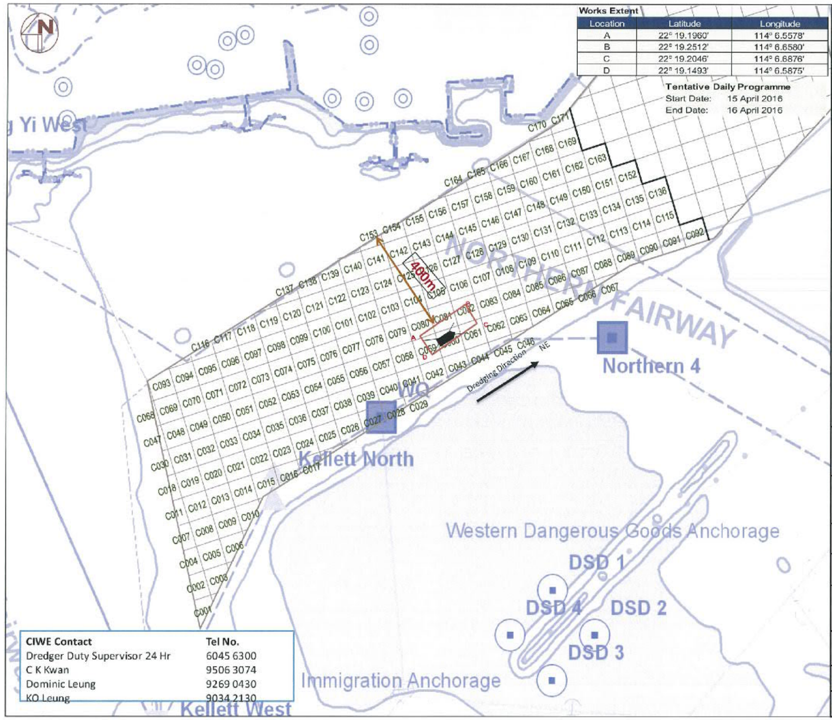


C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion AB Working Programme\Daily\[Portion AB 2016-04-21 D1239 for B4-A4.xlsx]Main



Works Extent		
Location	Latitude	Longitude
A	22° 19.1960'	114° 6.5578'
B	22° 19.2512'	114° 6.6580'
C	22° 19.2046'	114° 6.6876'
D	22° 19.1493'	114° 6.5875'

Tentative Daily Programme
Start Date: 15 April 2016
End Date: 16 April 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr	6045 6300
C K Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C060, C043, C044, C045, C061, C062

Dredging Direction - From SW to NE

Daily Programme : 15 Apr 2016 23:00 Hr - 16 Apr 2016 10:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

AXON CONSULTANCY LTD

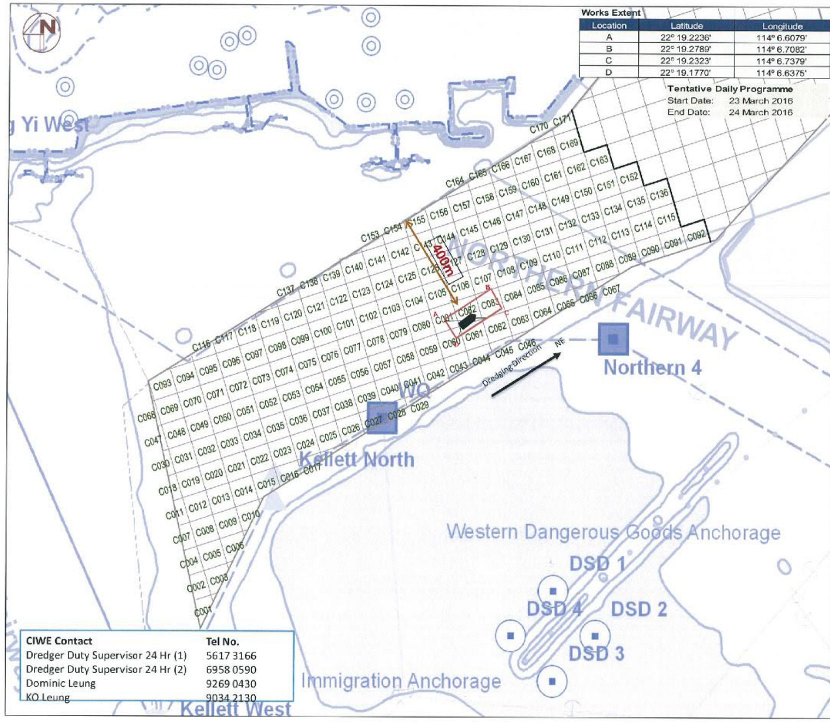
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D307

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-04-15 D307 for C060 C043 C044 C045 C061 C062.xlsx]Main



Works Extent		
Location	Latitude	Longitude
A	22° 19.2236'	114° 6.6079'
B	22° 19.2789'	114° 6.7082'
C	22° 19.2323'	114° 6.7379'
D	22° 19.1770'	114° 6.6375'

Tentative Daily Programme
Start Date: 23 March 2016
End Date: 24 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C082, C083

Dredging Direction - From SW to NE

Daily Programme 23 Mar 2016 20:00 Hr - 24 Mar 2016 12:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

AXON CONSULTANCY LTD

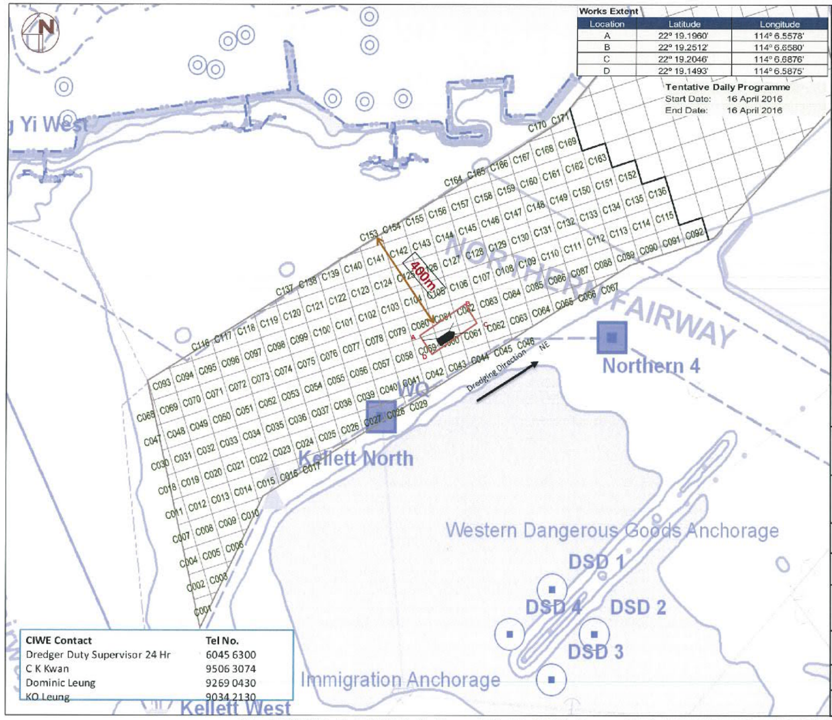
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D303

SCALE AT A3: N.T.S. REV. A1

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-23 D303 for C082 C083.xlsx]Main



Works Extent		
Location	Latitude	Longitude
A	22° 19.1960'	114° 6.5578'
B	22° 19.2512'	114° 6.6580'
C	22° 19.2046'	114° 6.6876'
D	22° 19.1493'	114° 6.5875'

Tentative Daily Programme
Start Date: 16 April 2016
End Date: 16 April 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr	6045 6300
C K Kwan	9506 3074
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C060, C043, C044, C045, C061, C062

Dredging Direction - From SW to NE

Daily Programme : 16 Apr 2016 16:00 Hr - 16 Apr 2016 23:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

AXON CONSULTANCY LTD

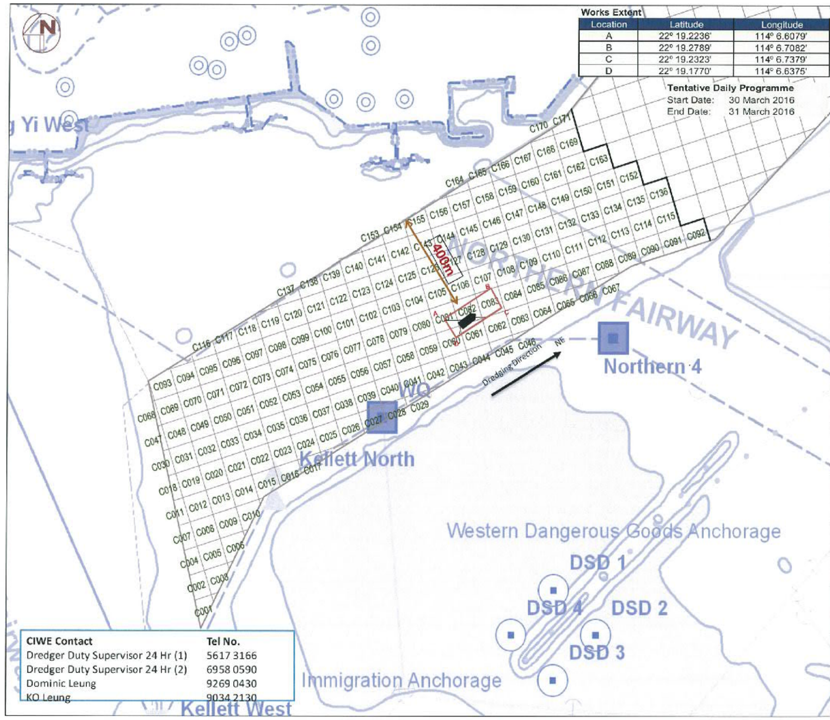
CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D308

SCALE AT A3: N.T.S. REV. A

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-04-15 D308 for C060 C043 C044 C045 C061 C062.xlsx]Main



Works Extent		
Location	Latitude	Longitude
A	22° 19.2236'	114° 6.6079'
B	22° 19.2789'	114° 6.7082'
C	22° 19.2323'	114° 6.7379'
D	22° 19.1770'	114° 6.6375'

Tentative Daily Programme
Start Date: 30 March 2016
End Date: 31 March 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C082, C083

Dredging Direction - From SW to NE

Daily Programme 30 Mar 2016 23:00 Hr - 31 Mar 2016 09:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO. CIWE-NFC-D304

SCALE AT A3: N.T.S. REV.

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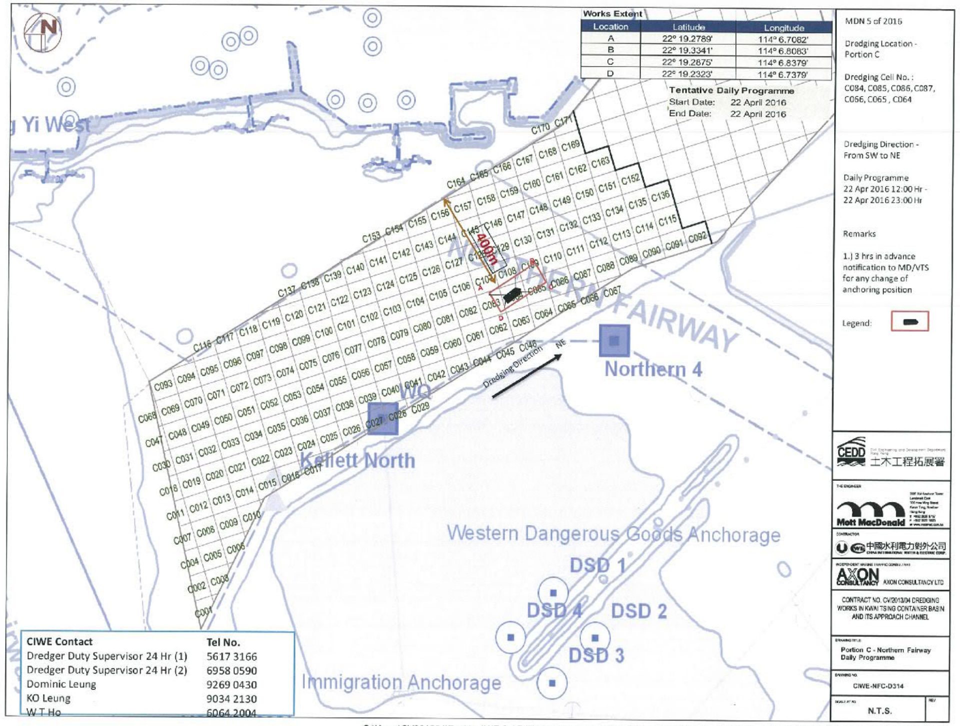
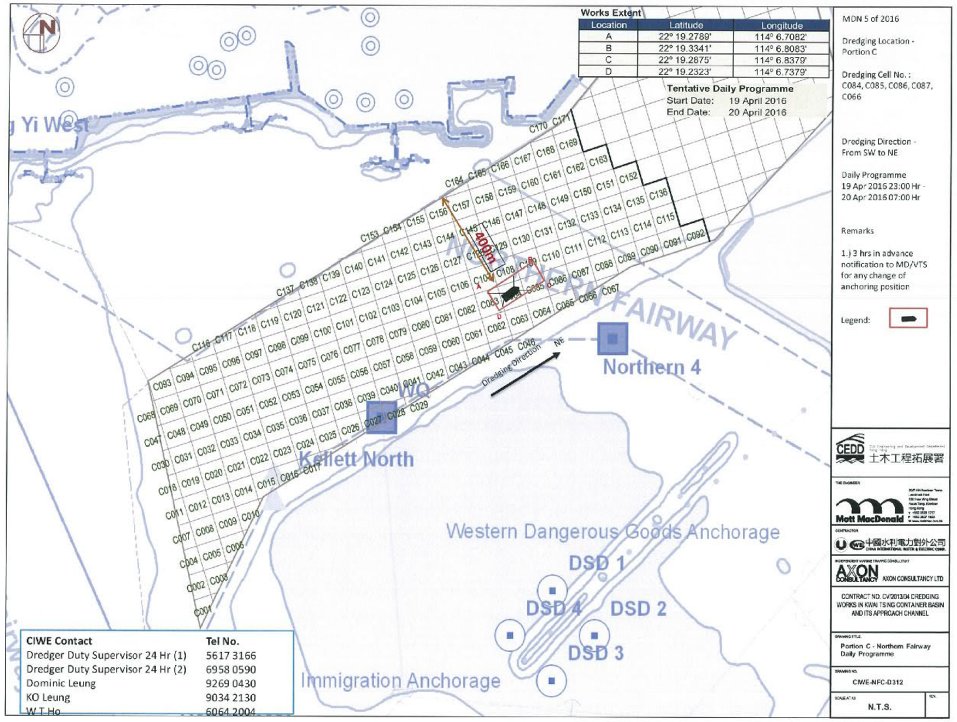


C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-04-19 D312 for C084.xlsx]Main



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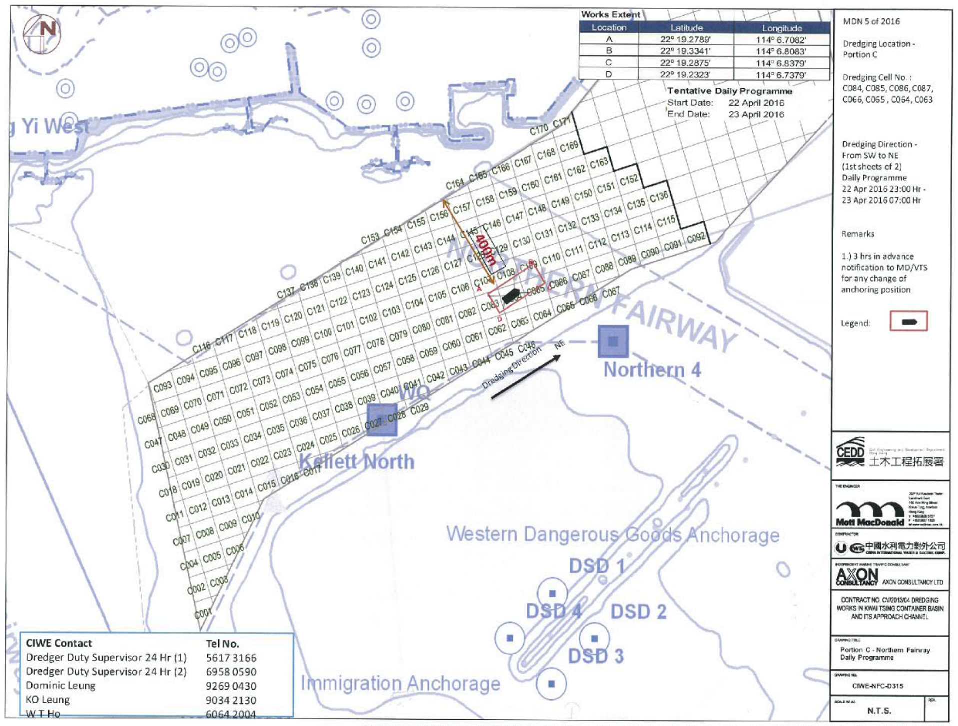

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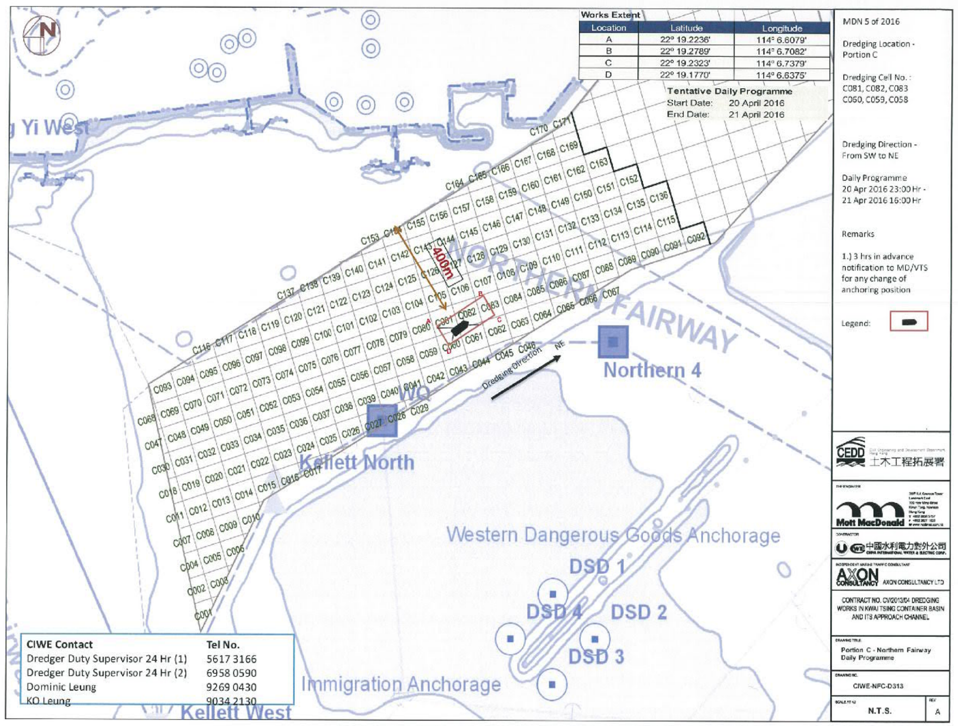
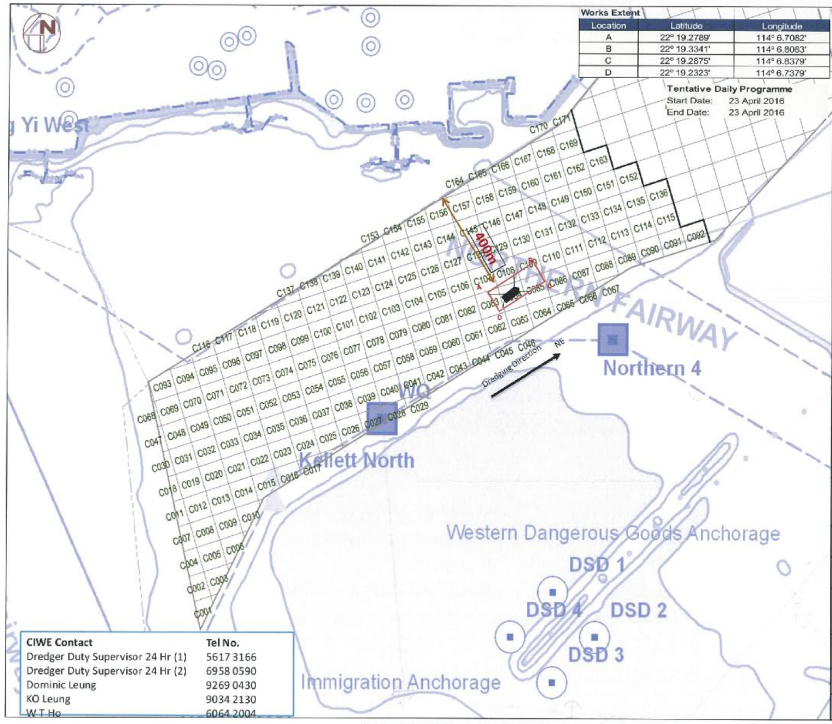


C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-03-19 D302 for C082 C083.xlsx]Main



Works Extent

Location	Latitude	Longitude
A	22° 19.2789'	114° 6.7082'
B	22° 19.3341'	114° 6.8083'
C	22° 19.2875'	114° 6.8379'
D	22° 19.2323'	114° 6.7379'

Tentative Daily Programme
Start Date: 23 April 2016
End Date: 23 April 2016

CIWE Contact	Tel No.
Dredger Duty Supervisor 24 Hr (1)	5617 3166
Dredger Duty Supervisor 24 Hr (2)	6958 0590
Dominic Leung	9269 0430
KO Leung	9034 2130
W T Ho	6064 2004

MDN 5 of 2016

Dredging Location - Portion C

Dredging Cell No. : C084, C085, C086, C087, C066, C065 , C064, C063

Dredging Direction - From SW to NE (2nd sheets of 2) Daily Programme 23 Apr 2016 14:00 Hr - 23 Apr 2016 23:00 Hr

Remarks

1.) 3 hrs in advance notification to MD/VTS for any change of anchoring position

Legend:

CEDD 土木工程拓展署

THE ENGINEER: Mott MacDonald

CONTRACTOR: 中國水利電力對外公司 CHINA INTERNATIONAL WATER & ELECTRIC CORP.

INDEPENDENT MARINE TRAFFIC CONSULTANT: AXON CONSULTANCY LTD

CONTRACT NO. CV/2013/04 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

DRAWING TITLE: Portion C - Northern Fairway Daily Programme

DRAWING NO.: CIWE-NFC-D316

SCALE AT A3: N.T.S.

REV.

C:\Users\CV201304\Desktop\WF & AB Working Programe\Portion C Daily Working Programme\[Portion C 2016-04-22 D315 for C084.xlsx]Main

MATERIALAB CONSULTANTS LIMITED
Room 723 & 725, 7/F, Block B,
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Kwai Fong, N.T., Hong Kong.
Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com.hk

Figure 3

Locations of Water Quality Monitoring Stations

NOTES:

1. ALL COORDINATES ARE IN HONG KONG METRIC GRID (1980).
2. THE CONTRACTOR SHALL REFER TO RELEVANT SECTION(S) AND APPENDICES OF THE PARTICULAR SPECIFICATION REGARDING THE WATER QUALITY MONITORING.

LEGEND:

- SITE BOUNDARY
- × MONITORING STATION
- ★ CONTROL STATION
- ■ GRADIENT STATION
- ● 24-HRS MONITORING STATION
- FISH CULTURE ZONE

Rev	Date	Drawn	Description	Ch'k'd	App'd
1	APR 13	WH	TENDER ADDENDUM NO. 1	SL	CMH
0	APR 13	WH	TENDER DRAWING	SL	CMH

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Client

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. : CV/2013/04
DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Title

PROVISIONAL LOCATION OF WATER QUALITY MONITORING STATIONS

Designed	FC		Eng check	SL	
Drawn	WH		Coordination	TF	
Dwg check	FC		Approved	CMH	
Scale at A1	1:35000	Status	TEN	Rev	2
Drawing Number	MMH/259053/EM/403				

$FILE$ DATE: $DATE$ TIME: $TIME$ USER: $USER$

Room 723 & 725, 7/F, Block B,
Profit Industrial Building,
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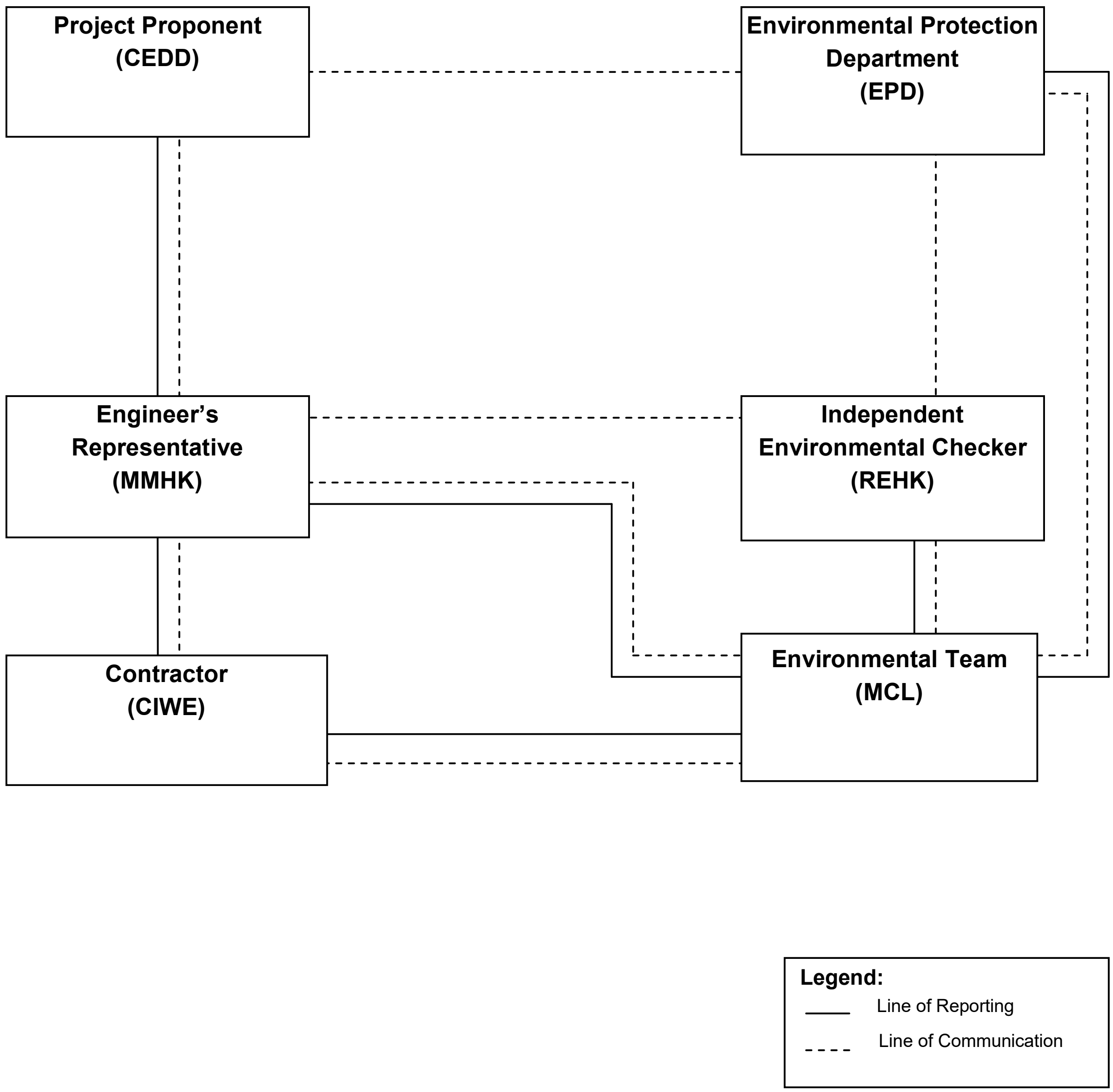
Kwai Fong, N.T., Hong Kong.

Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com.hk

Appendix A

Project Organization Chart


Project Proponent (CEDD)
Environmental Protection Department (EPD)
Engineer's Representative (MMHK)
Independent Environmental Checker (REHK)
Contractor (CIWE)
Environmental Team (MCL)
Legend:
Line of Reporting
Line of Communication

Appendix B

Construction Programme

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
1	**Contract Period**	**1246 days**	**Fri 30/8/13**	**Tue 31/1/17**			
2	**Contract Commencement Date**	**0 days**	**Fri 30/8/13**	**Fri 30/8/13**		4SS	
3	**Extended Contract Completion Date**	**0 days**	**Wed 27/4/16**	**Wed 27/4/16**		280FF	
4	**Possession of Site**	**0 days**			S,18SS,31SS,41SS		N
5	**Section 1**	**1008 days**	**Fri 30/8/13**	**Thu 2/6/16**			
6	**Submission**	**972 days**	**Fri 30/8/13**	**Wed 27/4/16**			
7	**Routine Monitoring / Temporary Marine Traffic Management**	**484 days**	**Fri 30/8/13**	**Fri 26/12/14**			
8	**Environmental Management**	**484 days**	**Fri 30/8/13**	**Fri 26/12/14**			
9	**Baseline monitoring**	**231 days**	**Fri 30/8/13**	**Thu 17/4/14**			
10	ETL and relevant site personal	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N
11	Lab Test	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N
12	**Monitoring (Location see Drg No. EM/401)**	**201 days**	**Sun 29/9/13**	**Thu 17/4/14**			
13	Plan	93 days	Sun 29/9/13	Mon 30/12/13	10,11	131	N
14	**Sediment Report**	**88 days**	**Mon 20/1/14**	**Thu 17/4/14**			
15	Preliminary report	19 days	Mon 20/1/14	Fri 7/2/14	135	136	N
16	Final report	27 days	Sat 22/3/14	Thu 17/4/14	136	183,185,201	N
17	**Grab sample (Portions A, B & C)**	**321 days**	**Fri 30/8/13**	**Wed 16/7/14**			
18	Grab sample specialist	30 days	Fri 30/8/13	Sat 28/9/13		4SS,19	N
19	Sediment testing and sampling plan	162 days	Sun 29/9/13	Sun 9/3/14	18	139	N
20	**Sediment report**	**105 days**	**Thu 3/4/14**	**Wed 16/7/14**			
21	Preliminary report	26 days	Thu 3/4/14	Mon 28/4/14	143	144	N
22	Final report	37 days	Tue 10/6/14	Wed 16/7/14	144	187	N
23	**Vibro-coring (Portions A, B & C)**	**159 days**	**Mon 21/7/14**	**Fri 26/12/14**			
24	Sediment testing and sampling plan	28 days	Mon 21/7/14	Sun 17/8/14		147	N
25	**Sediment report**	**105 days**	**Sat 13/9/14**	**Fri 26/12/14**			
26	Preliminary report	26 days	Sat 13/9/14	Wed 8/10/14	151	152	N
27	Final report	37 days	Thu 20/11/14	Fri 26/12/14	152	187FS-139 days	N
28	**24 Hours monitoring station and TIN Measuring Device (Location see Drg No. EM/401)**	**79 days**	**Mon 25/11/13**	**Tue 11/2/14**			
29	Instrumentation	79 days	Mon 25/11/13	Tue 11/2/14		154	N
30	**Survey**	**179 days**	**Fri 30/8/13**	**Mon 24/2/14**			
31	Surveyor	35 days	Fri 30/8/13	Thu 3/10/13		4SS,35,38	N
32	Geophysicist	35 days	Sun 3/11/13	Sat 7/12/13		201	N
33	**Land Survey (Container Basin & DSD Tsing Yi Plant)**	**67 days**	**Tue 26/11/13**	**Fri 31/1/14**			
34	**Settlement markers**	**67 days**	**Tue 26/11/13**	**Fri 31/1/14**			
35	Method Statement for Installation and Monitoring	24 days	Tue 26/11/13	Thu 19/12/13	31	162	N
36	Initial report	12 days	Mon 20/1/14	Fri 31/1/14	163	164	N
37	**Hydrographic Survey (Portions A to E)**	**144 days**	**Fri 4/10/13**	**Mon 24/2/14**			
38	Method Statement	36 days	Fri 4/10/13	Fri 8/11/13	31	167	N
39	Initial survey Report	29 days	Mon 27/1/14	Mon 24/2/14	167	168	N
40	**Temporary Marine Traffic Management (Portions A to E)**	**144 days**	**Fri 30/8/13**	**Mon 20/1/14**			
41	Consultant, Risk Manager and Marine Traffic Engineer	28 days	Fri 30/8/13	Thu 26/9/13		4SS,43	N
42	Independent Checking Engineer (ICE)	25 days	Fri 27/12/13	Mon 20/1/14		173FS-60 days	N
43	Webbase software and Trial Run	50 days	Fri 27/9/13	Fri 15/11/13	41	173	N
44	**Dredging Works (Portions A to E)**	**896 days**	**Thu 14/11/13**	**Wed 27/4/16**			
45	Independent Checking Engineer (ICE)	21 days	Thu 14/11/13	Wed 4/12/13		51	N
46	**Silt screen deployment plan and report (Location see Drg No. EM/401)**	**77 days**	**Fri 6/12/13**	**Thu 20/2/14**			
47	Method statement	77 days	Fri 6/12/13	Thu 20/2/14		185,178	N
48	**Dredging method statement and silt curtain deployment plan**	**118 days**	**Thu 28/11/13**	**Tue 25/3/14**			
49	Method statement for dredging works	104 days	Thu 28/11/13	Tue 11/3/14		201	N
50	**Silt curtain deployment plan**	**118 days**	**Thu 28/11/13**	**Tue 25/3/14**			
51	Design	70 days	Tue 17/12/13	Mon 24/2/14	45	52FS-89 days	N
52	Deployment plan	118 days	Thu 28/11/13	Tue 25/3/14	51FS-89 days	201	N
53	**Dredging Works at Portions A and B**	**891 days**	**Tue 19/11/13**	**Wed 27/4/16**			
54	**General seabed**	**891 days**	**Tue 19/11/13**	**Wed 27/4/16**			
55	Marine Notice approval by Marine Departemnt	247 days	Tue 19/11/13	Wed 23/7/14		185	N
56	**Noise Permit**	**739 days**	**Mon 23/12/13**	**Thu 31/12/15**			

China International Water & Electric Corp.

Task | Critical Task | Milestone | Summary

* Subject to availability of working windows

Bar Left: Early Start, Bar Right: Early Finish
Bar Top: Late Start, Bar Bottom: Late Finish

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
57	General	101 days	Mon 23/12/13	Wed 2/4/14		183,185	N
58	**Portion A from 11pm to 7am next day**	**518 days**	**Fri 1/8/14**	**Thu 31/12/15**			
59	Preparation and submission	14 days	Fri 1/8/14	Thu 14/8/14		60	N
60	Rejected by EPD	4 days	Fri 15/8/14	Mon 18/8/14	59	61	N
61	Resubmission	10 days	Tue 9/12/14	Thu 18/12/14	60	62	N
62	Rejected by EPD	13 days	Fri 19/12/14	Wed 31/12/14	61	63	N
63	Resubmission	10 days	Tue 6/1/15	Thu 15/1/15	62	64	N
64	Rejected by EPD	18 days	Fri 16/1/15	Mon 2/2/15	63	65	N
65	Awaiting HIT to release their permit	245 days	Tue 3/2/15	Mon 5/10/15	64	66	N
66	Preparation and submission	1 day	Tue 6/10/15	Tue 6/10/15	65	67	N
67	Rejected by EPD	16 days	Wed 7/10/15	Thu 22/10/15	66	68	N
68	Resubmission	3 days	Thu 17/12/15	Sat 19/12/15	67	69	N
69	Rejected by EPD	12 days	Sun 20/12/15	Thu 31/12/15	68	188	N
70	**Dumping Permit**	**801 days**	**Mon 17/2/14**	**Wed 27/4/16**			
71	**Type 1 and Tpye 2 Sediment**	**88 days**	**Mon 17/2/14**	**Thu 15/5/14**			
72	**Type 1 Sediment**	**57 days**	**Mon 17/2/14**	**Mon 14/4/14**			
73	Preparation and submission	50 days	Mon 17/2/14	Mon 7/4/14		74	N
74	Approval by EPD	7 days	Tue 8/4/14	Mon 14/4/14	73	183,185,201,187	N
75	**Type 2 Sediment**	**42 days**	**Fri 4/4/14**	**Thu 15/5/14**			
76	Preparation and submission	28 days	Fri 4/4/14	Thu 1/5/14		77	N
77	Approval by EPD	14 days	Fri 2/5/14	Thu 15/5/14	76	183,187	N
78	**Type 3 Sediment**	**201 days**	**Sat 10/10/15**	**Wed 27/4/16**			
79	Preparation and submission	14 days	Sat 10/10/15	Fri 23/10/15	104	80	N
80	Comment by EPD	17 days	Sat 24/10/15	Mon 9/11/15	79	81	N
81	Resubmission	21 days	Tue 10/11/15	Mon 30/11/15	80	83	N
82	**Trial dumping operation of Type 2 sediment using geo-containers**	**87 days**	**Tue 1/12/15**	**Thu 25/2/16**			
83	Preparation of method statement	41 days	Tue 1/12/15	Sun 10/1/16	81	84	N
84	Application for Marine Dumping Permit	1 day	Mon 11/1/16	Mon 11/1/16	83	85	N
85	Approval by EPD	45 days	Tue 12/1/16	Thu 25/2/16	84	192	N
86	Preparation and submission	9 days	Thu 31/3/16	Fri 8/4/16	192	87	N
87	Approval by EPD	19 days	Sat 9/4/16	Wed 27/4/16	86	193	N
88	**Type 3 Cat Hf Sediment (Portion A)**	**519 days**	**Fri 31/1/14**	**Fri 3/7/15**			
89	**Method statement for disposal**	**519 days**	**Fri 31/1/14**	**Fri 3/7/15**			
90	**Preparation and submission**	**519 days**	**Fri 31/1/14**	**Fri 3/7/15**			
91	Preparation and submission	60 days	Fri 31/1/14	Mon 31/3/14		92	N
92	Approval by Mott	30 days	Tue 1/4/14	Wed 30/4/14	91	94	N
93	**Resubmission based on Mott's previous submission to EPD**	205 days	Thu 11/12/14	Fri 3/7/15			
94	Preparation and submission	75 days	Thu 11/12/14	Mon 23/2/15	92	95	N
95	Approval by Mott	8 days	Tue 24/2/15	Tue 3/3/15	94	96	N
96	Comment by EPD	40 days	Wed 4/3/15	Sun 12/4/15	95	97	N
97	Mott's instruction to add monitoring stations at disposal ground	1 day	Tue 12/5/15	Tue 12/5/15	96	98	N
98	Resubmission to Mott	4 days	Wed 13/5/15	Sat 16/5/15	97	99	N
99	Approval by Mott	1 day	Sun 17/5/15	Sun 17/5/15	98	100	N
100	Resubmission to EPD	1 day	Mon 18/5/15	Mon 18/5/15	99	101	N
101	Comment by EPD	18 days	Tue 19/5/15	Fri 5/6/15	100	102	N
102	Resubmission to Mott	12 days	Sat 6/6/15	Wed 17/6/15	101	103	N
103	Resubmission to EPD	2 days	Thu 18/6/15	Fri 19/6/15	102	104	N
104	Approved by EPD	14 days	Sat 20/6/15	Fri 3/7/15	103	190,79,193	N
105	**Hot Spot (Portion A)**	**327 days**	**Tue 31/12/13**	**Sat 22/11/14**			
106	**Proposal for field trial at Zone Z2C**	**180 days**	**Tue 31/12/13**	**Sat 28/6/14**			
107	Preparation and submission	115 days	Tue 31/12/13	Thu 24/4/14		108	N
108	Approval by Mott	30 days	Fri 30/5/14	Sat 28/6/14	107	195	N
109	**Method statement for dredging works at Zone Z2B**	**61 days**	**Tue 23/9/14**	**Sat 22/11/14**			
110	Preparation and submission	14 days	Tue 23/9/14	Mon 6/10/14	195	111	N
111	Approval by Mott	7 days	Tue 7/10/14	Mon 13/10/14	110	112	N
112	Endorsed by ETL	5 days	Tue 14/10/14	Sat 18/10/14	111	113	N

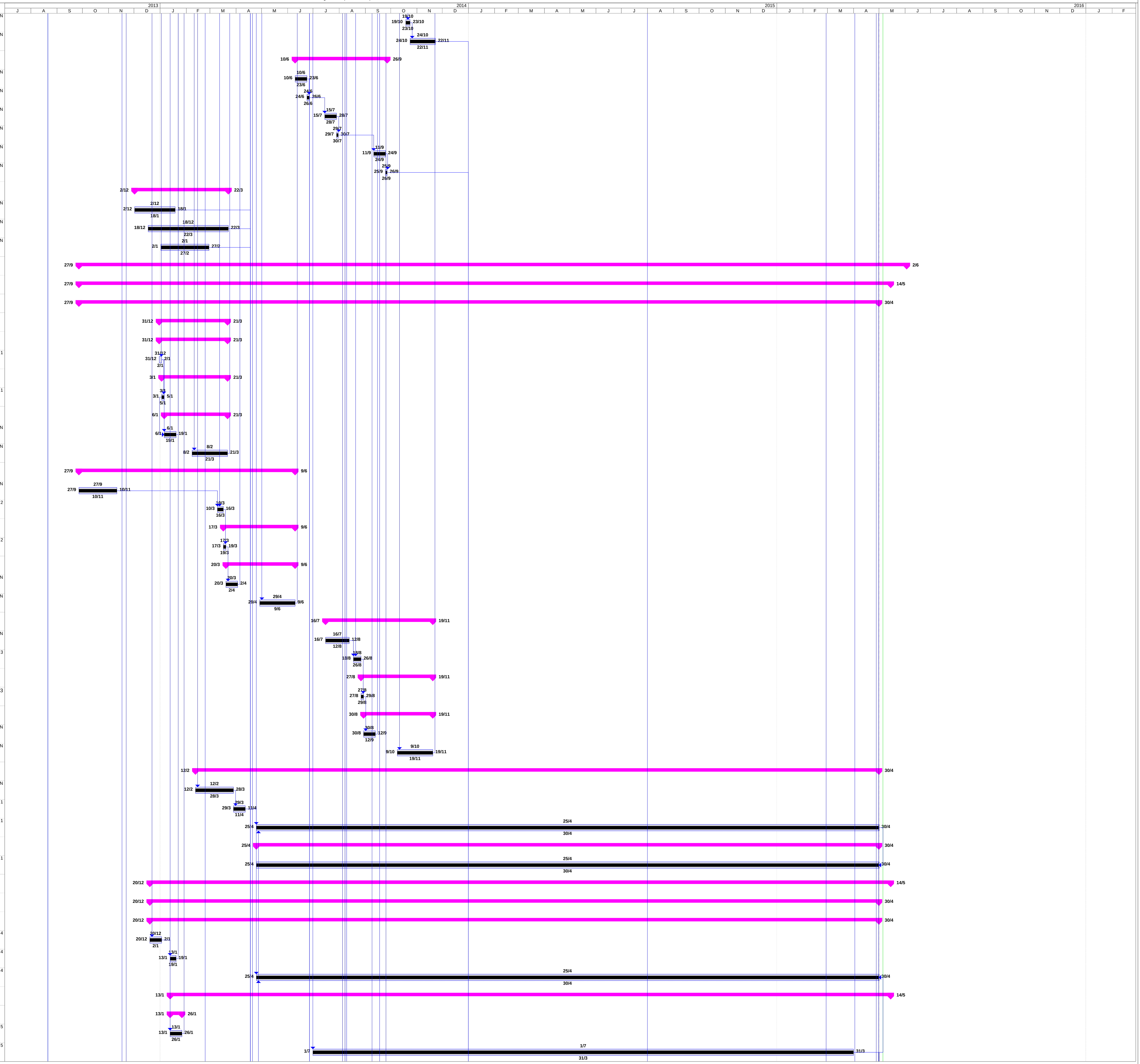
China International Water & Electric Corp.

Task | Critical Task | Milestone | Summary

* Subject to availability of working windows

Bar Left: Early Start, Bar Right: Early Finish
Bar Top: Late Start, Bar Bottom: Late Finish

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
113	Verified by IEC	5 days	Sun 19/10/14	Thu 23/10/14	112	114	N
114	Approval by EPD	30 days	Fri 24/10/14	Sat 22/11/14	113	196	N
115	**Method staement for dredging hard material**	**109 days**	**Tue 10/6/14**	**Fri 26/9/14**			
116	Preparation and submission	14 days	Tue 10/6/14	Mon 23/6/14		117	N
117	Comment	3 days	Tue 24/6/14	Thu 26/6/14	116	118	N
118	Resubmission	14 days	Tue 15/7/14	Mon 28/7/14	117	119	N
119	Further comment	2 days	Tue 29/7/14	Wed 30/7/14	118	120	N
120	Resubmission	14 days	Thu 11/9/14	Wed 24/9/14	119	121	N
121	Approval by Mott	2 days	Thu 25/9/14	Fri 26/9/14	120	197	N
122	**Dredging Works at Portions C, D and E**	**111 days**	**Mon 2/12/13**	**Sat 22/3/14**			
123	Marine Notice approval by Marine Departemnt	48 days	Mon 2/12/13	Sat 18/1/14		201	N
124	Noise Permit	95 days	Wed 18/12/13	Sat 22/3/14		201	N
125	Dumping Permit	57 days	Thu 2/1/14	Thu 27/2/14		201	N
126	**Works**	**980 days**	**Fri 27/9/13**	**Thu 2/6/16**			
127	**Routine Monitoring / Temporary Marine Traffic Management**	**961 days**	**Fri 27/9/13**	**Sat 14/5/16**			
128	**Environmental Management**	**947 days**	**Fri 27/9/13**	**Sat 30/4/16**			
129	**Baseline monitoring**	**81 days**	**Tue 31/12/13**	**Fri 21/3/14**			
130	**Monitoring (Location see Drg No. EM/401)**	**81 days**	**Tue 31/12/13**	**Fri 21/3/14**			
131	Mobilization	3 days	Tue 31/12/13	Thu 2/1/14	13	133,135	1
132	**Field works and Lab Test**	**78 days**	**Fri 3/1/14**	**Fri 21/3/14**			
133	Field works	3 days	Fri 3/1/14	Sun 5/1/14	131	135SS+3 days	1
134	**Lab test**	**75 days**	**Mon 6/1/14**	**Fri 21/3/14**			
135	Chemical test	14 days	Mon 6/1/14	Sun 19/1/14	133SS+3 days,131	15	N
136	Biological test	42 days	Sat 8/2/14	Fri 21/3/14	15	16	N
137	**Grab sample (Portions A, B & C)**	**256 days**	**Fri 27/9/13**	**Mon 9/6/14**			
138	Marine Department Notice	45 days	Fri 27/9/13	Sun 10/11/13		139	N
139	Grab sample specialist mobilization	7 days	Mon 10/3/14	Sun 16/3/14	19,138	141	2
140	**Grab sample (field works) and Lab Test**	**85 days**	**Mon 17/3/14**	**Mon 9/6/14**			
141	Field works	3 days	Mon 17/3/14	Wed 19/3/14	139	143	2
142	**Lab test**	**82 days**	**Thu 20/3/14**	**Mon 9/6/14**			
143	Chemical test	14 days	Thu 20/3/14	Wed 2/4/14	141	21	N
144	Biological test	42 days	Tue 29/4/14	Mon 9/6/14	21	22	N
145	**Vibro-coring (Portions A, B & C)**	**127 days**	**Wed 16/7/14**	**Wed 19/11/14**			
146	Marine Department Notice	28 days	Wed 16/7/14	Tue 12/8/14		147	N
147	Vibro-coring specialist mobilization	9 days	Mon 18/8/14	Tue 26/8/14	24,146	149	3
148	**Vibro-coring (field works) and Lab Test**	**85 days**	**Wed 27/8/14**	**Wed 19/11/14**			
149	Field works	3 days	Wed 27/8/14	Fri 29/8/14	147	151	3
150	**Lab test**	**82 days**	**Sat 30/8/14**	**Wed 19/11/14**			
151	Chemical test	14 days	Sat 30/8/14	Fri 12/9/14	149	26	N
152	Biological test	42 days	Thu 9/10/14	Wed 19/11/14	26	27	N
153	**24 Hours monitoring station and TIN Measuring Device (Location see Drg No. EM/401)**	**809 days**	**Wed 12/2/14**	**Sat 30/4/16**			
154	Procurement and delivery	45 days	Wed 12/2/14	Fri 28/3/14	29	155	N
155	Installation	14 days	Sat 29/3/14	Fri 11/4/14	154	156	1
156	Monitoring	737 days	Fri 25/4/14	Sat 30/4/16	155,201	158FF	1
157	**Impact monitoring (Location see Drg No. EM/401)**	**737 days**	**Fri 25/4/14**	**Sat 30/4/16**			
158	Impact monitoring and report submission	737 days	Fri 25/4/14	Sat 30/4/16	156FF		1
159	**Survey**	**877 days**	**Fri 20/12/13**	**Sat 14/5/16**			
160	**Land Survey (Container Basin & DSD Tsing Yi Plant)**	**863 days**	**Fri 20/12/13**	**Sat 30/4/16**			
161	**Settlement markers**	**863 days**	**Fri 20/12/13**	**Sat 30/4/16**			
162	Installation	14 days	Fri 20/12/13	Thu 2/1/14	35	163	4
163	Initial survey	7 days	Mon 13/1/14	Sun 19/1/14	162	36	4
164	Interim monitoring	737 days	Fri 25/4/14	Sat 30/4/16	168FF,201,36		4
165	**Hydrographic Survey (Portions A to E)**	**853 days**	**Mon 13/1/14**	**Sat 14/5/16**			
166	**Initial survey**	**14 days**	**Mon 13/1/14**	**Sun 26/1/14**			
167	Field works	14 days	Mon 13/1/14	Sun 26/1/14	38	39	5
168	Interim survey	640 days	Tue 1/7/14	Thu 31/3/16	39	169,164FF	5



China International Water & Electric Corp.

Task | Critical Task | Milestone | Summary

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
169	Final survey	7 days	Sun 1/5/16		97,198,213,208,205	170	5
170	Final survey report	7 days	Sun 8/5/16	Sat 14/5/16	169		N
171	**Temporary Marine Traffic Management (Portions A to E)**	**929 days**	**Mon 30/9/13**	**Fri 15/4/16**			
172	Organizing meeting for information collection	898 days	Mon 30/9/13	Tue 15/3/16			N
173	Temporary marine traffic management and TMTM meeting	876 days	Fri 22/11/13	Fri 15/4/16	42FS-60 days,43		N
174	**Dredging Works (Portions A to E)**	**899 days**	**Sun 1/12/13**	**Tue 17/5/16**			
175	**Interface with other contractors or utility undertakeings**	**867 days**	**Sun 1/12/13**	**Fri 15/4/16**			
176	Organizing coordination meeting	867 days	Sun 1/12/13	Fri 15/4/16			N
177	**Silt screen (Location see Drg No. EM/401)**	**807 days**	**Fri 21/2/14**	**Sat 7/5/16**			
178	Installation of silt screen	7 days	Fri 21/2/14	Thu 27/2/14	47	179,201	6
179	Maintenance of silt screen	738 days	Thu 24/4/14	Sat 30/4/16	178	180	6
180	Removal of silt screen	7 days	Sun 1/5/16	Sat 7/5/16	179		6
181	**Dredging Works at Portions A and B**	**709 days**	**Mon 9/6/14**	**Tue 17/5/16**			
182	**General seabed**	**692 days**	**Mon 9/6/14**	**Sat 30/4/16**			
183	Mobililzation	42 days	Fri 27/6/14	Thu 7/8/14	74,77,16,57	185	7
184	Fabrication of silt curtain	7 days	Mon 9/6/14	Sun 15/6/14		185	8
185	Pilot test for silt curtain	2 days	Fri 8/8/14	Sat 9/8/1	,184,74,16,47,55,57	187	7
186	Monitoring brief for unidentified sonar contacts & masked areas	3 days	Wed 2/7/14	Fri 4/7/14		187	N
187	Dredging works 1 (subject to availability of working windows)	30 days	Sun 10/8/14	Mon 8	,74,77,22,27FS-139 days	195	7
188	Dredging works 2 (subject to availability of working windows)	586 days	Tue 23/9/14	Sat 30/4/16	195,69	169	7
189	**Type 3 Cat Hf Sediment (Portion A)**	**291 days**	**Sat 1/8/15**	**Tue 17/5/16**			
190	Procurement and delivery of Geo-container	112 days	Sat 1/8/15	Fri 20/11/15	104	192	N
191	**Trial dumping operation of Type 2 sediment using geo-containers**	**34 days**	**Fri 26/2/16**	**Wed 30/3/16**			
192	Trial dumping	34 days	Fri 26/2/16	Wed 30/3/16	85,190	193,86	7
193	Dredging works	20 days	Thu 28/4/16	Tue 17/5/16	104,192,87		7
194	**Hot Spot (Portion A)**	**600 days**	**Tue 9/9/14**	**Sat 30/4/16**			
195	Field trial at Zone Z2C	14 days	Tue 9/9/14	Mon 22/9/14	187,108	188,110	7
196	Dredging works at Z2B *	484 days	Thu 1/1/15	Sat 30/4/16	114	169	7
197	Dredging of hard material *	484 days	Thu 1/1/15	Sat 30/4/16	121	169	7
198	Outfall demolition works*	61 days	Tue 1/3/16	Sat 30/4/16		169	7
199	**Dredging Works for Portions C, D and E**	**707 days**	**Fri 18/4/14**	**Thu 24/3/16**			
200	**Dredging Works for Portion D**	**666 days**	**Fri 18/4/14**	**Fri 12/2/16**			
201	Mobililzation	7 days	Fri 18/4/14	Th	,16,52,123,124,125	202,203,156,164	9
202	Pilot test of silt curtain	2 days	Fri 25/4/14	Sat 26/4/14	201	203FF	9
203	Trial dredging	2 days	Fri 25/4/14	Sat 26/4/14	201,202FF	204	9
204	Dredging works	153 days	Sun 27/4/14	Fri 26/9/14	203	207,205	9
205	Removal of high spots	1 day	Fri 12/2/16	Fri 12/2/16	204,208FF	169	9
206	**Dredging Works for Portion E**	**504 days**	**Sat 27/9/14**	**Fri 12/2/16**			
207	Dredging Works	51 days	Sat 27/9/14	Sun 16/11/14	204	208,210,212	9
208	Removal of high spots	1 day	Fri 12/2/16	Fri 12/2/16	207,213SS+20 days	169,205FF	9
209	**Dredging Works for Portion C**	**478 days**	**Wed 3/12/14**	**Thu 24/3/16**			
210	Norhern west section	260 days	Wed 3/12/14	Wed 19/8/15	207		7,9
211	Middle section	16 days	Thu 5/11/15	Fri 20/11/15	212FS+4 days	213	7
212	Southern east section	321 days	Mon 15/12/14	Sat 31/10/15	207	211FS+4 days	7,9
213	Removal of high spots	62 days	Sat 23/1/16	Thu 24/3/16	211	169,208SS+20 days	7,9
214	**Marine Ground Investigation Works near KC5 in Portion A**	**63 days**	**Fri 1/4/16**	**Thu 2/6/16**			
215	Mobilization	7 days	Fri 1/4/16	Thu 7/4/16		216	15
216	Drilling and field testing*	49 days	Fri 8/4/16	Thu 26/5/16	215	217	15
217	Report	7 days	Fri 27/5/16	Thu 2/6/16	216		15
218	**Section 2**	**1246 days**	**Fri 30/8/13**	**Tue 31/1/17**			
219	**Submission**	**1001 days**	**Wed 11/9/13**	**Tue 7/6/16**			
220	**Preliminaries (Portion F)**	**83 days**	**Wed 11/9/13**	**Mon 2/12/13**			
221	**Engineer Principal Accommodation**	**83 days**	**Wed 11/9/13**	**Mon 2/12/13**			
222	Preparation and submisssion of location and layout	0 days	Wed 11/9/13	Wed 11/9/13		223	N
223	Approval of location and layout	30 days	Thu 12/9/13	Fri 11/10/13	222	225	N
224	Independent Checking Engineer (ICE)	14 days	Mon 7/10/13	Sun 20/10/13	225FF-1 day		N

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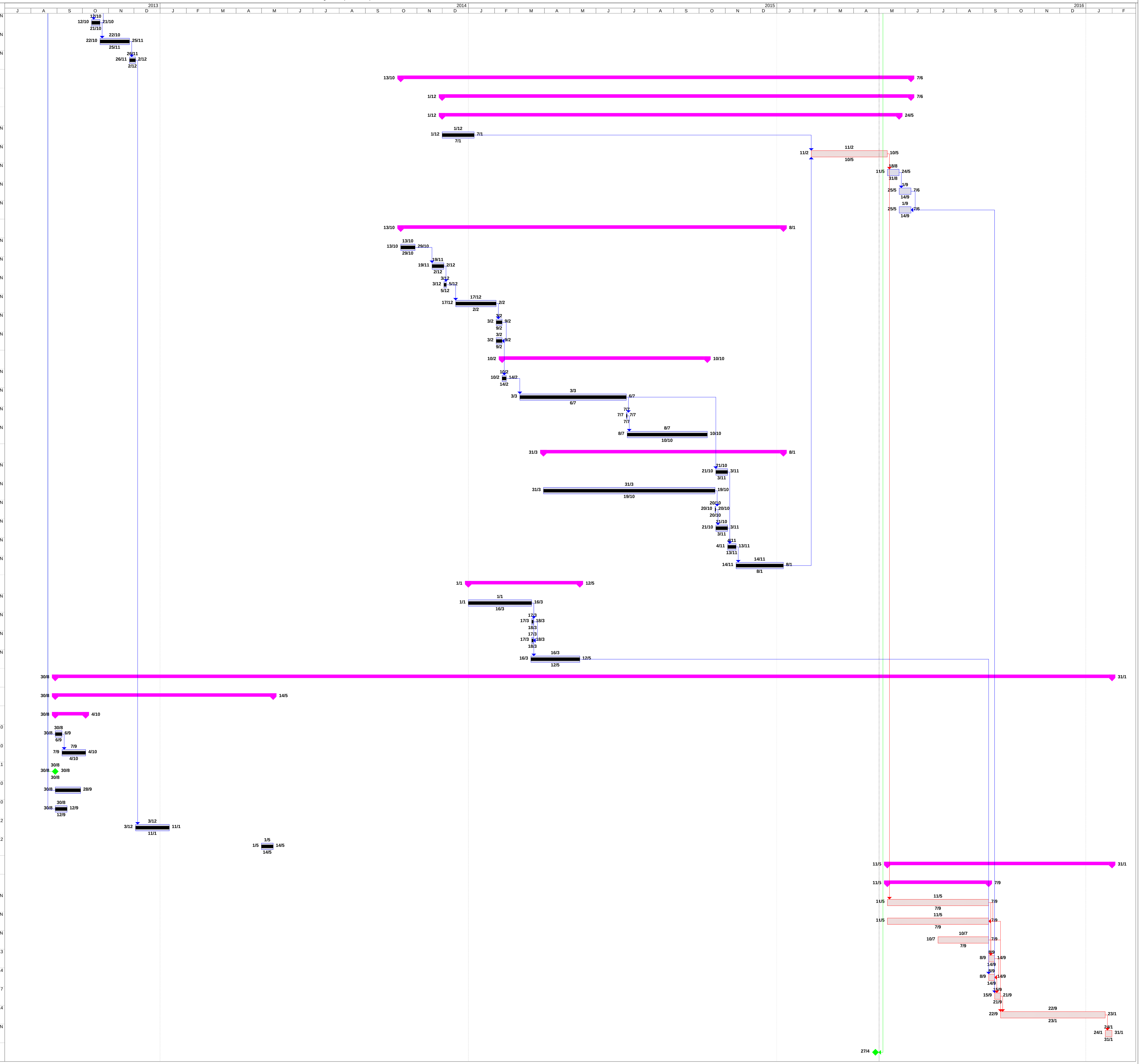
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
225	Preparation of calculation	10 days	Sat 12/10/13	Mon 21/10/13	223	226,224FF-1 day	N
226	Comment and resubmission of calculation	35 days	Tue 22/10/13	Mon 25/11/13	225	227	N
227	Approval of calculation	7 days	Tue 26/11/13	Mon 2/12/13	226	268	N
228	**Outfall Modification Works (Location see Drg No. S202)**	**604 days**	**Mon 13/10/14**	**Tue 7/6/16**			
229	**Method statement for modification works**	**555 days**	**Mon 1/12/14**	**Tue 7/6/16**			
230	**Preparation and submission**	**541 days**	**Mon 1/12/14**	**Tue 24/5/16**			
231	Preparation and submission	38 days	Mon 1/12/14	Wed 7/1/15		232	N
232	Awaiting resolving TMTA constraint	90 days	Thu 11/2/16	Tue 10/5/16	231,254	233,272	N
233	Resubmission	14 days	Wed 11/5/16	Tue 24/5/16	232	234	N
234	Approval by Mott	14 days	Wed 25/5/16	Tue 7/6/16	233	235FF	N
235	Approval by DSD	14 days	Wed 25/5/16	Tue 7/6/16	234FF	277	N
236	**Flow Measurement Survey**	**453 days**	**Mon 13/10/14**	**Fri 8/1/16**			
237	Preparation and submission	17 days	Mon 13/10/14	Wed 29/10/14		238	N
238	Resubmission	14 days	Wed 19/11/14	Tue 2/12/14	237	239	N
239	Further comment by Mott	3 days	Wed 3/12/14	Fri 5/12/14	238	240	N
240	Resubmission	48 days	Wed 17/12/14	Mon 2/2/15	239	241	N
241	Approval by Mott	7 days	Tue 3/2/15	Mon 9/2/15	240	242FF	N
242	Approval by DSD	7 days	Tue 3/2/15	Mon 9/2/15	241FF	244	N
243	**Flow Survey Measurement report**	**243 days**	**Tue 10/2/15**	**Sat 10/10/15**			
244	Analyzing survey data	5 days	Tue 10/2/15	Sat 14/2/15	242	245	N
245	Preparation and submission	126 days	Tue 3/3/15	Mon 6/7/15	244	249,246	N
246	Approval by Mott	1 day	Tue 7/7/15	Tue 7/7/15	245	247	N
247	Approval by DSD	95 days	Wed 8/7/15	Sat 10/10/15	246		N
248	**Engineer's Assessment Report on Flow Measurement Survey**	**284 days**	**Tue 31/3/15**	**Fri 8/1/16**			
249	Assessment calculations	14 days	Wed 21/10/15	Tue 3/11/15	245	253	N
250	Preparation and submission	203 days	Tue 31/3/15	Mon 19/10/15		251	N
251	Further comment by Mott	1 day	Tue 20/10/15	Tue 20/10/15	250	252	N
252	Resubmission	14 days	Wed 21/10/15	Tue 3/11/15	251	253	N
253	Approval by Mott	10 days	Wed 4/11/15	Fri 13/11/15	252,249	254	N
254	Approval by DSD	56 days	Sat 14/11/15	Fri 8/1/16	253	232	N
255	**Video Filming and Dye Test**	**132 days**	**Thu 1/1/15**	**Tue 12/5/15**			
256	Preparation and submission	75 days	Thu 1/1/15	Mon 16/3/15		257,259FS-1 day	N
257	Approval by Mott	2 days	Tue 17/3/15	Wed 18/3/15	256	258FF	N
258	Approval by DSD	2 days	Tue 17/3/15	Wed 18/3/15	257FF		N
259	Using digital camera in lieu of CCTV	58 days	Mon 16/3/15	Tue 12/5/15	256FS-1 day	276	N
260	**Works**	**1246 days**	**Fri 30/8/13**	**Tue 31/1/17**			
261	**Preliminaries (Portion F)**	**258 days**	**Fri 30/8/13**	**Wed 14/5/14**			
262	**Contractor's mobilization**	**36 days**	**Fri 30/8/13**	**Fri 4/10/13**			
263	Site clearance	8 days	Fri 30/8/13	Fri 6/9/13		4SS,264	10
264	Contractor's site office	28 days	Sat 7/9/13	Fri 4/10/13	263		10
265	Security Guard	0 days	Fri 30/8/13	Fri 30/8/13		4SS	11
266	Temporary electricity power supply	30 days	Fri 30/8/13	Sat 28/9/13		4SS	10
267	Engineer's Initial Temporary Accommodation	14 days	Fri 30/8/13	Thu 12/9/13		4SS	10
268	Engineer's Principal Accommodation	40 days	Tue 3/12/13	Sat 11/1/14	227		12
269	Engineer's Car Park	14 days	Thu 1/5/14	Wed 14/5/14			12
270	**Outfall Modification Works (Location see Drg No. S202)**	**261 days**	**Wed 11/5/16**	**Tue 31/1/17**			
271	**Procurement of material**	**120 days**	**Wed 11/5/16**	**Wed 7/9/16**			
272	Non return valves	120 days	Wed 11/5/16	Wed 7/9/16	232	273FF,275	N
273	Flange adaptors	120 days	Wed 11/5/16	Wed 7/9/16	272FF	278,275	N
274	1200mm diameter concret pipes	60 days	Sun 10/7/16	Wed 7/9/16		278,275	N
275	Dye test	7 days	Thu 8/9/16	Wed 14/9/16	274,272,273	276FF	13
276	Video filming	7 days	Thu 8/9/16	Wed 14/9/16	275FF,259	277	14
277	Dredging works	7 days	Thu 15/9/16	Wed 21/9/16	276,235	278	7
278	Modification works	120 days	Thu 22/9/16	Mon 23/1/17	273,274,277	279	14
279	As-built video submission	7 days	Tue 24/1/17	Tue 31/1/17	278		N
280	**Extended Contract Completion Date**	**0 days**	**Wed 27/4/16**	**Wed 27/4/16**	3FF		



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Appendix C

Action and Limit Levels

Action and Limit Levels for Routine Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5(mg/L) Depth- averaged		E.coli (CFU /100mL) Depth-averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth-averaged		Synthetic Detergent as MBAS (mg/L) Depth- averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																				
SR1 SR4 SR12	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
Fish Culture Zone																				
SR5	5.45	5.39[#]	5.43	5.27[+]	6.7 or 120%C*	10.1 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36	0.39
SR9 SR10 SR11	6.11	6.02[#]	6.11	6.04[+]	2.9 or 120%C*	4.8 or 130%C^	9 or 120%C*	18 or 130%C^											0.22	0.29
Gazetted Beach																				
SR2 SR3	5.45	5.39[#]	5.43	5.27[+]	6.7 or 120%C*	10.1 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	0.21 or 120%C*	0.24 or 130%C^	0.021	0.021	NA	NA	NA	NA
Corals																				
SR6 SR7 SR8	6.11	6.02[#]	6.11	6.04[+]	2.9 or 120%C*	4.8 or 130%C^	9 or 120%C*	18 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EMSD Cooling Water Intake																				
SR13	5.31	5.22[#]	5.29	5.12[+]	13.1 or 120%C*	15.7 or 130%C^	23 or 120%C*	38 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:
* Or 120% of upstream control station at the same tide of the day
^ Or 130% of upstream control station at the same tide of the day
# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.
+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data
For DO measurement, non-compliance occurs when monitoring result is lower than the limits;
For TIN, UIA, NH_3-N, SS, BOD_5, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;
AL/LL of TIN and NH_3-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.
Dry Season: November to March

Action and Limit Levels for Routine Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5 (mg/L) Depth- averaged		E.coli (CFU /100mL) Depth-averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth-averaged		Synthetic Detergent as MBAS (mg/L) Depth-averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																						
SR1 SR4 SR12	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
Fish Culture Zone																						
SR5	5.00#	5.00#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45	0.50
SR9 SR10 SR11	5.00	5.00#	4.41	4.25+	4.0 or 120%C*	8.7 or 130%C^	9 or 120%C*	18 or 130%C^											0.37	0.49
Gazetted Beach																						
SR2 SR3	4.68	4.62#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	0.21 or 120%C*	0.24 or 130%C^	0.021	0.021	NA	NA	NA	NA
Corals																						
SR6 SR7 SR8	5.00	4.82#	4.41	4.25+	4.0 or 120%C*	8.7 or 130%C^	9 or 120%C*	18 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EMSD Cooling Water Intake																						
SR13	4.24	4.17#	3.70	3.58+	13.1 or 120%C*	15.7 or 130%C^	23 or 120%C*	38 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:
* Or 120% of upstream control station at the same tide of the day
^ Or 130% of upstream control station at the same tide of the day
# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (5%ile & 1 %ile determined from wet season baseline data for cluster 1 (4.68mg/L & 4.62mg/L) and cluster 2 (5.00mg/L & 4.82mg/L) are 5mg/L or below, thus 5mg/L was adopted as the AL & LL for the SR in FCZ)
+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data
Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.
For DO measurement, non-compliance occurs when monitoring result is lower than the limits;
For TIN, UIA, NH_3-N, SS, BOD_5, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;
AL/LL of TIN and NH_3-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.
Wet season: April to October

Action and Limit Levels for 24-hr Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.46	5.39	6.0	7.9	NA	NA
SR9	6.12	5.97	2.8	4.7		
SR10						
SR11						
EMSD Cooling Water Intake						
SR13	5.28	5.22	11.9	13.3	NA	NA

Note: According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ**;** 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.

Dry Season: November to March.

Action and Limit Levels for 24-hr Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.24	5.13	9.7	14.4	NA	NA
SR9	5.13	5.00#	5.9	7.1		
SR10						
SR11						
EMSD Cooling Water Intake						
SR13	4.23	4.17	11.9	13.3	NA	NA

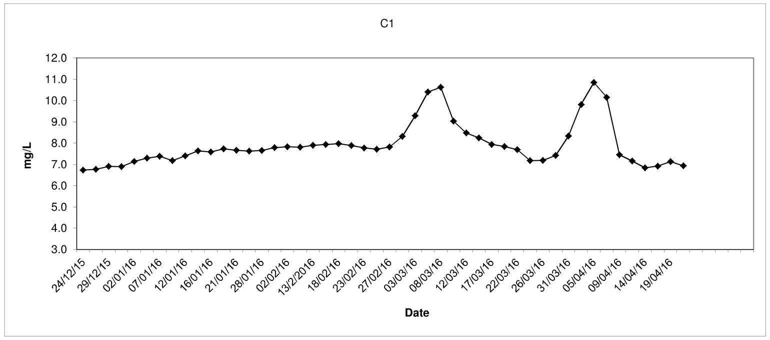
Note: # According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (1 %ile determined from wet season baseline data for cluster 2 (4.78mg/L) is below 5mg/L, thus 5mg/L was adopted as the DO (surface) LL for the SR in FCZ in cluster 2 stations)

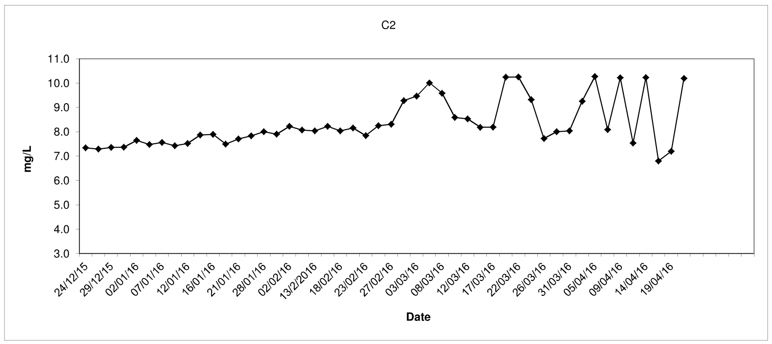
Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.
Wet Season: April to October

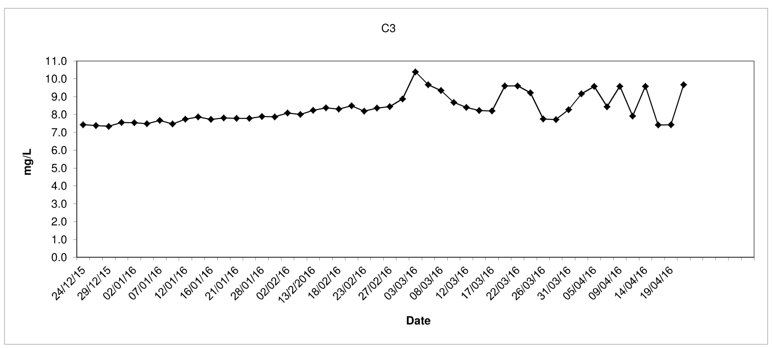
Appendix D

Graphical Presentation – Routine Impact Monitoring Results

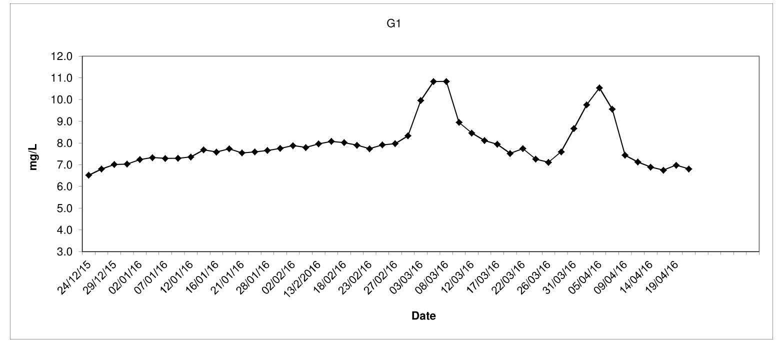
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

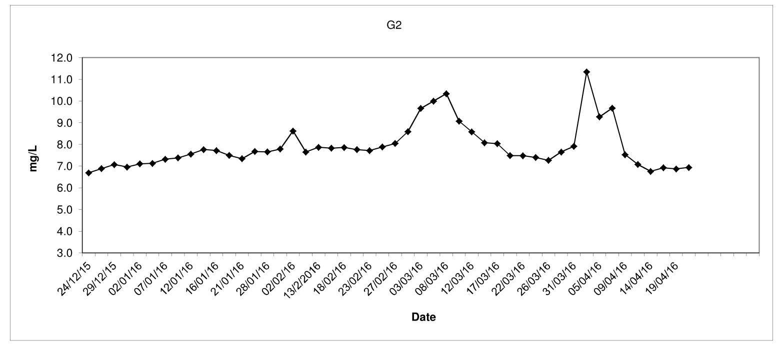


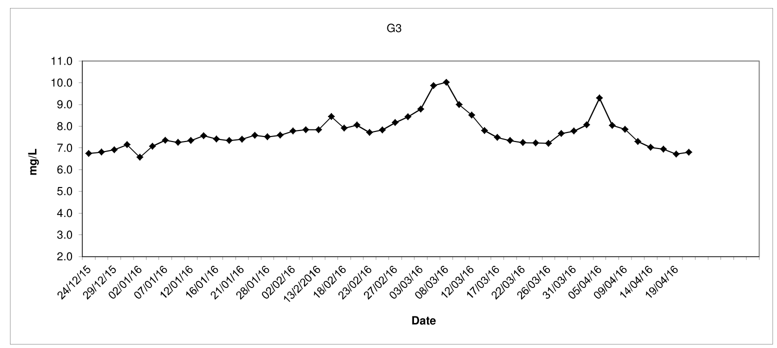




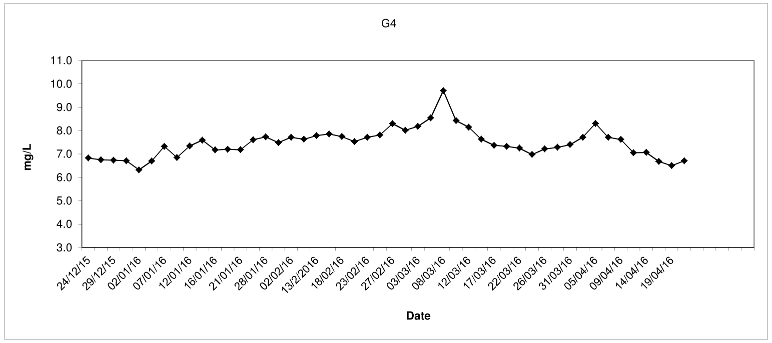
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

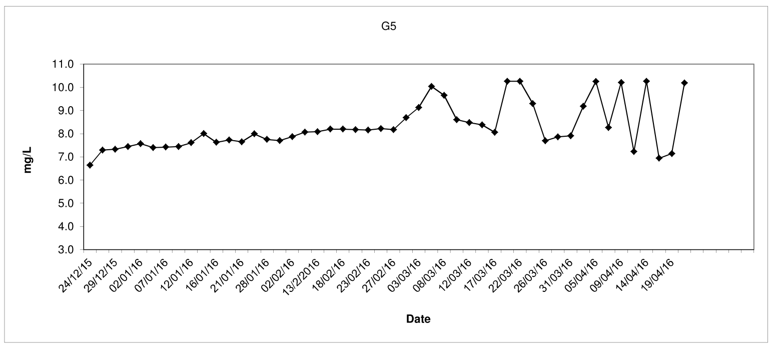


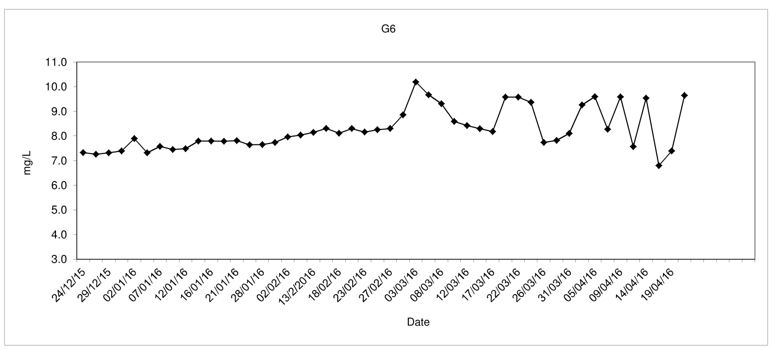




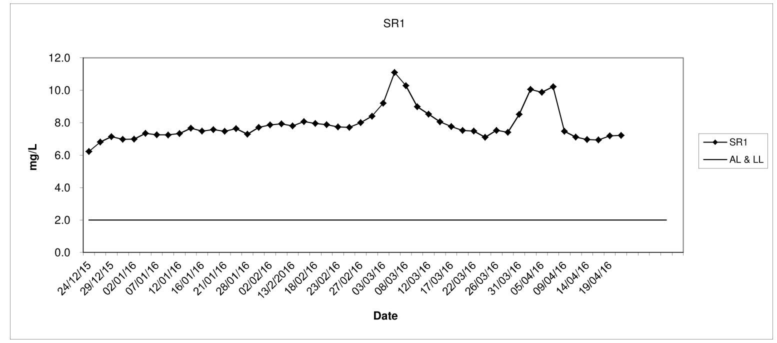
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

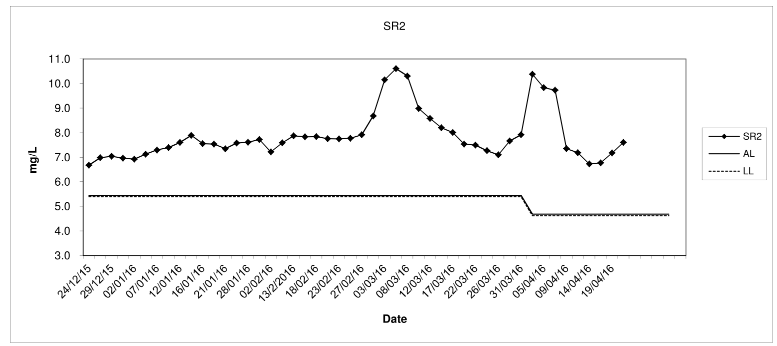


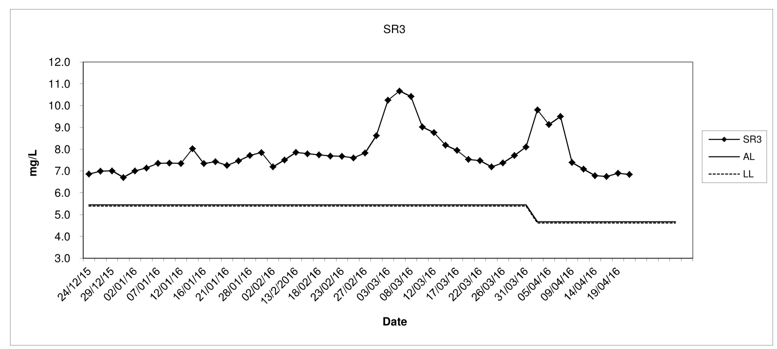




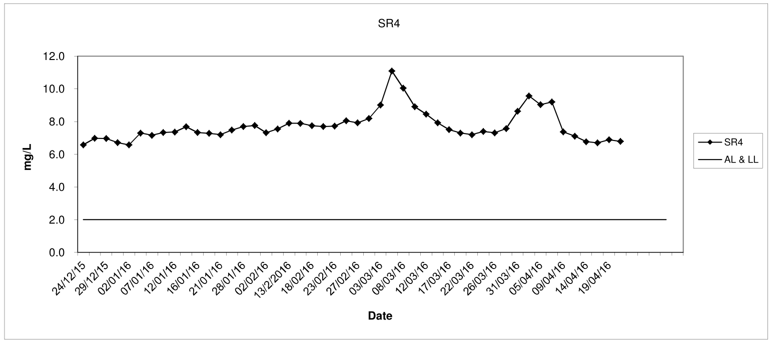
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

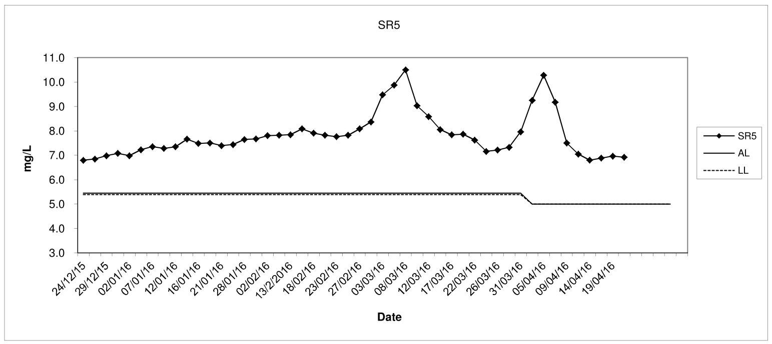


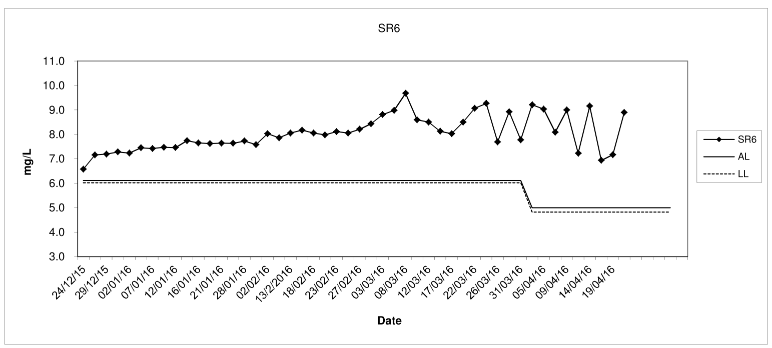




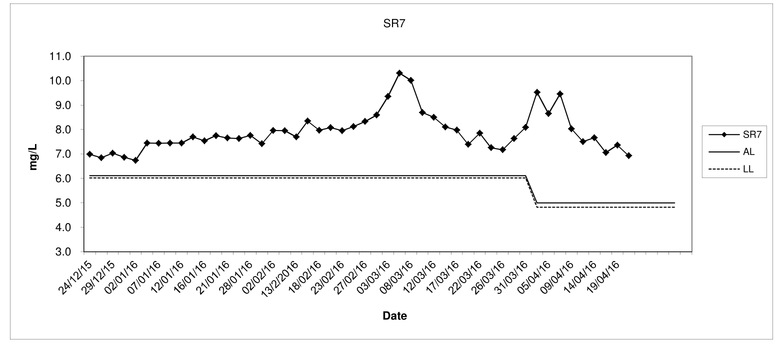
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

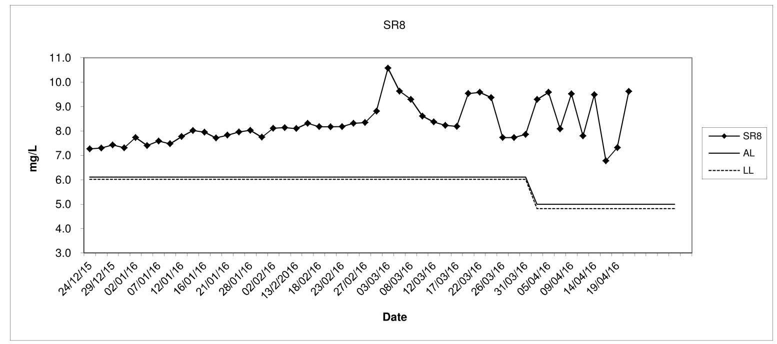


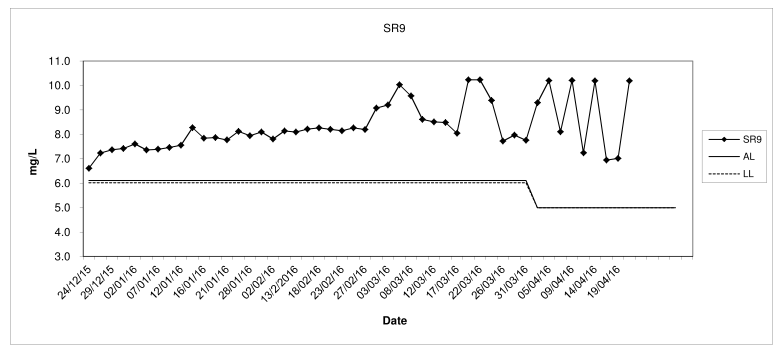




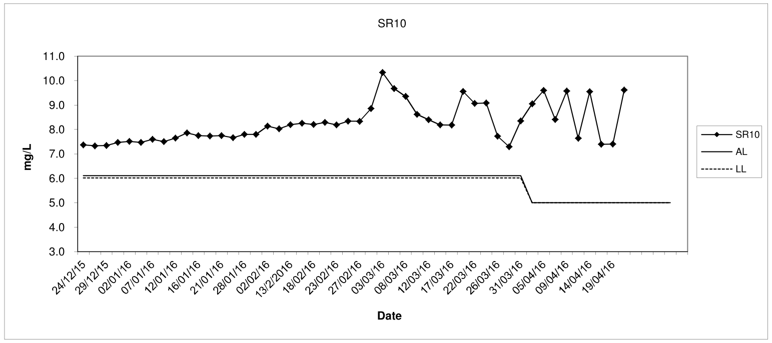
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

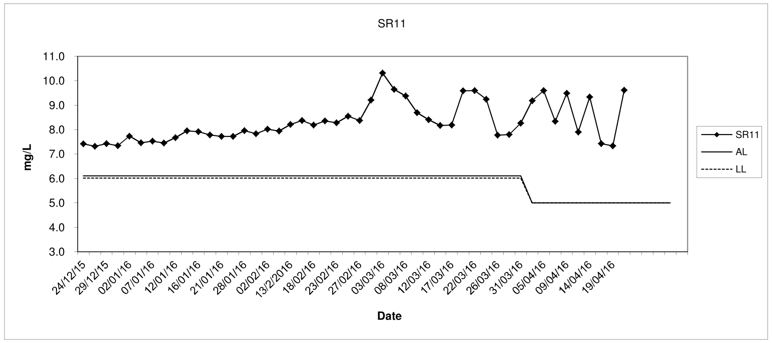


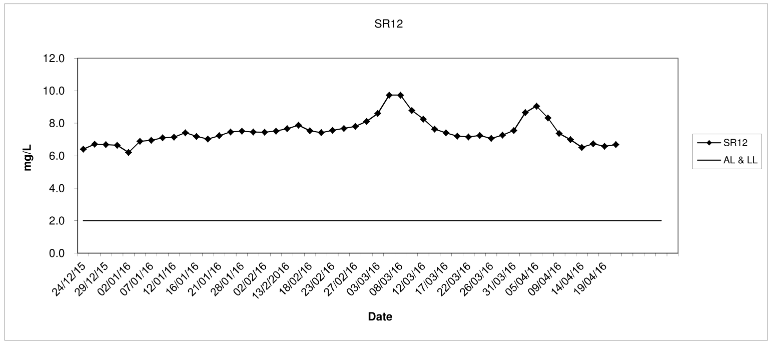




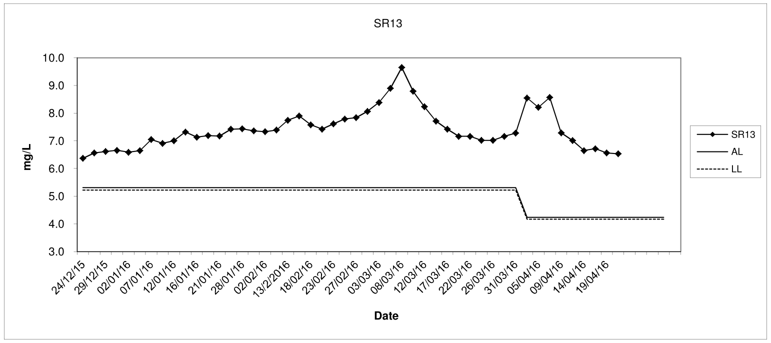
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide





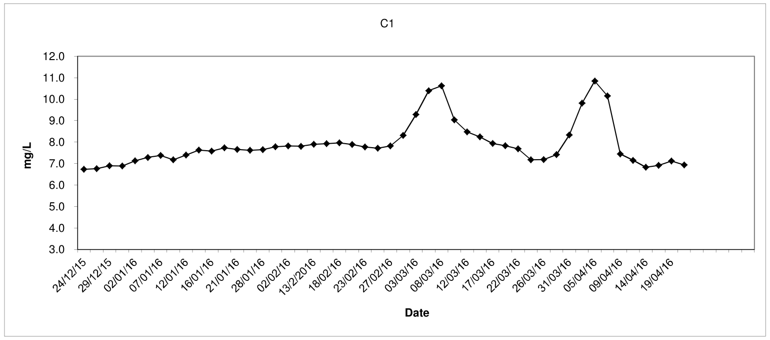


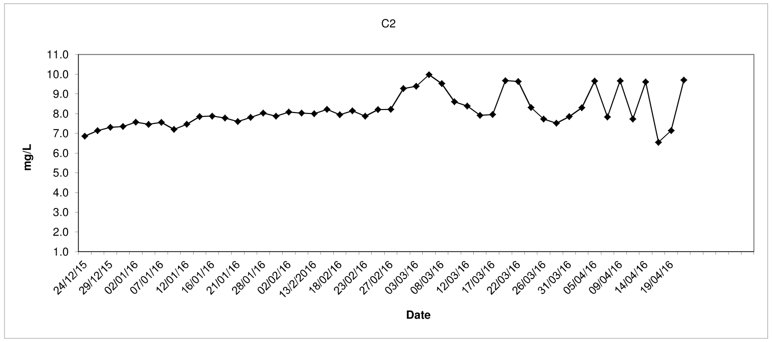
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide

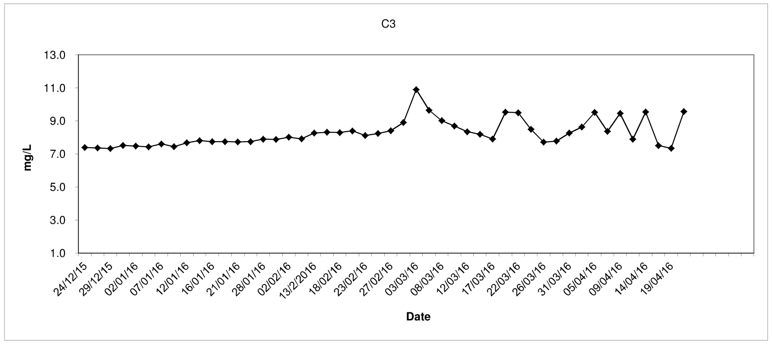


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

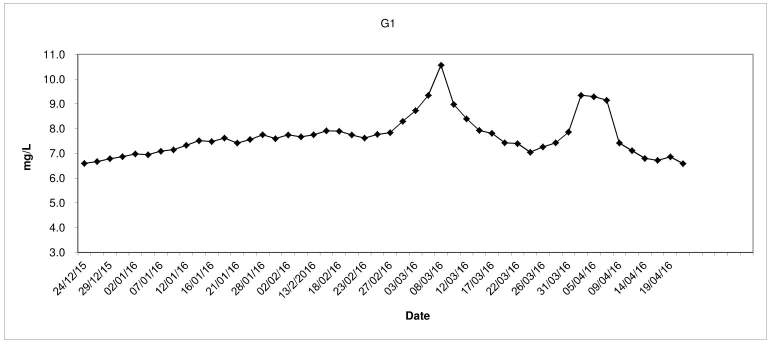
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

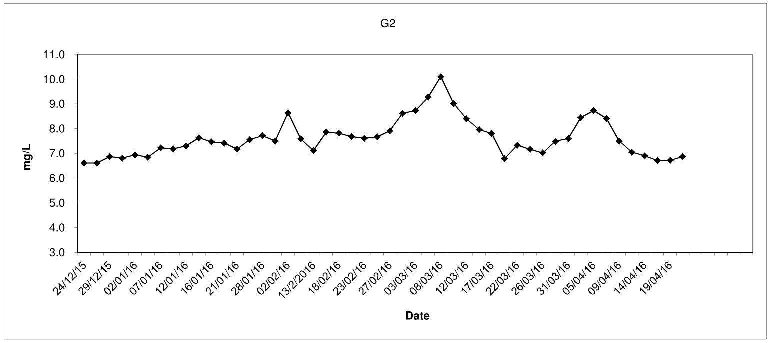


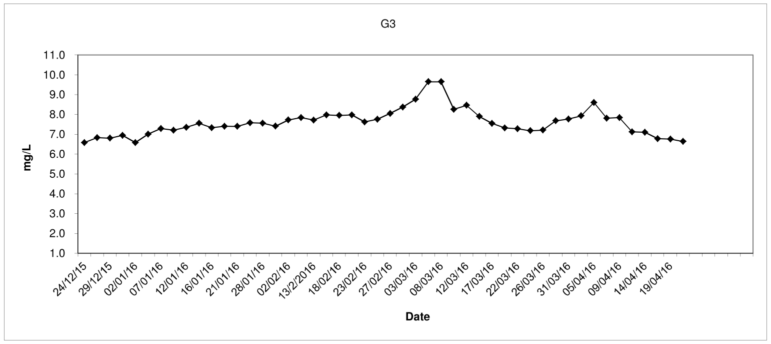




Dissolved Oxygen (Bottom) at Mid-Ebb Tide

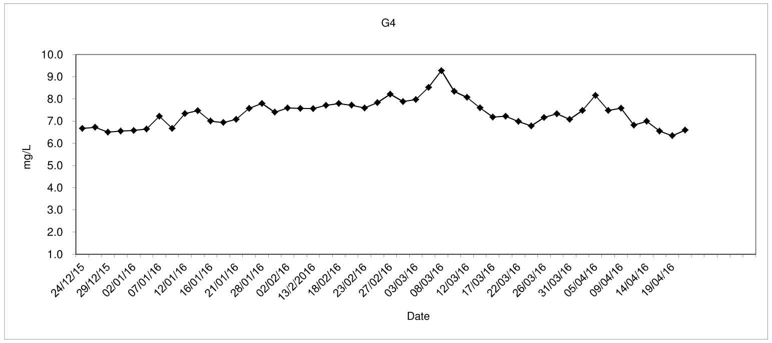


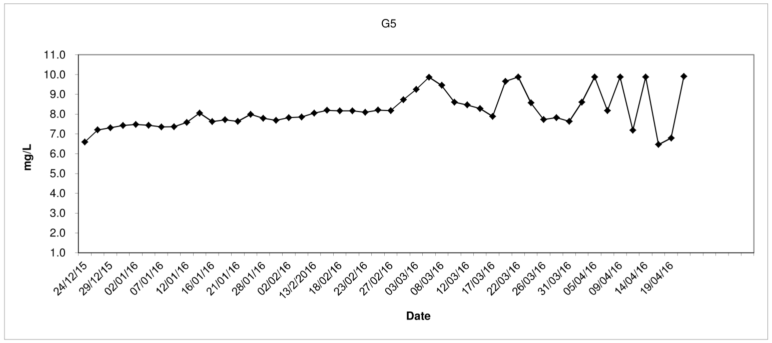


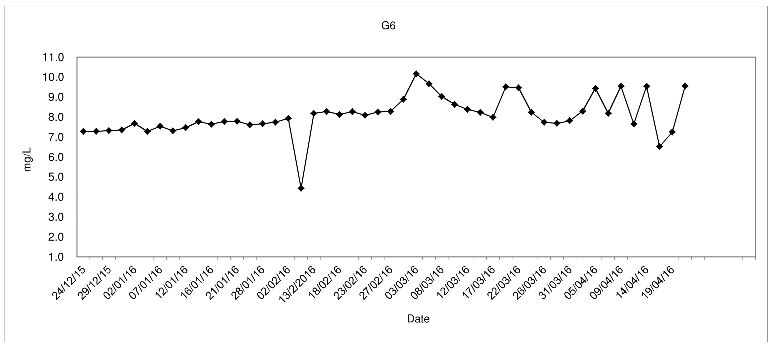


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

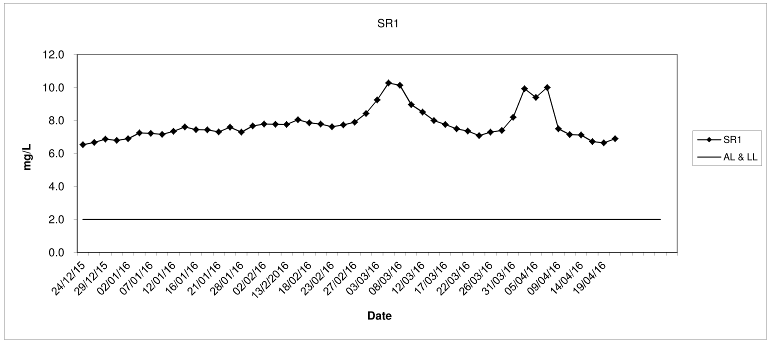
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

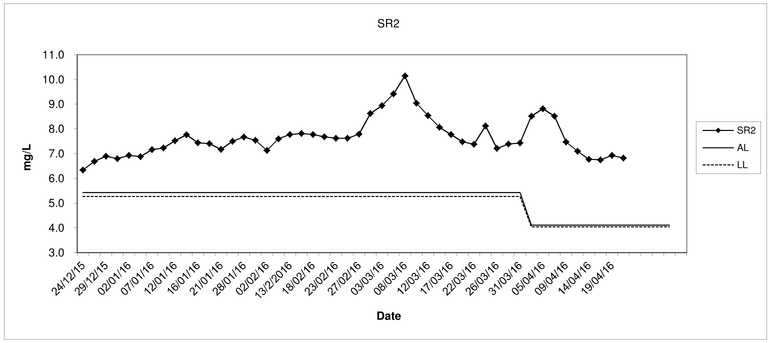


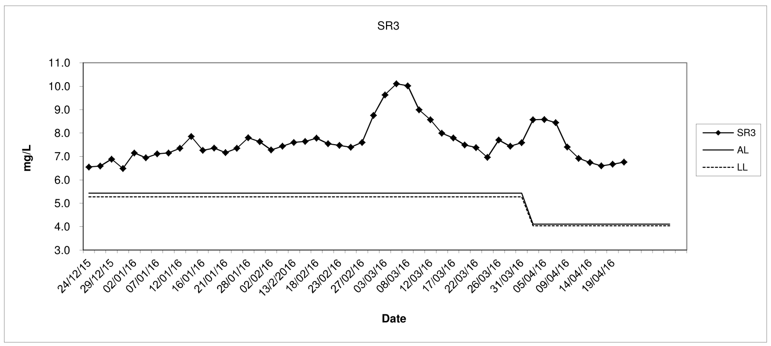




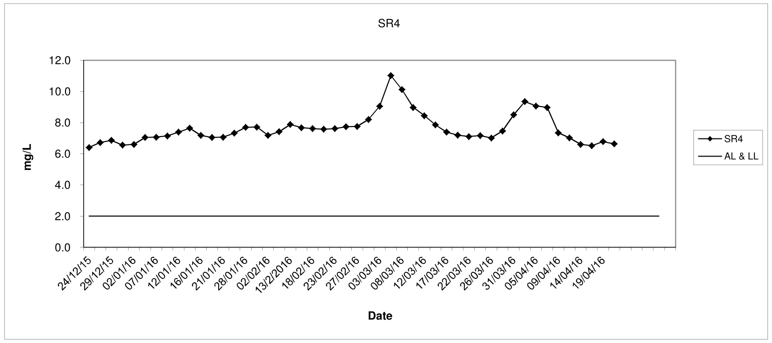
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

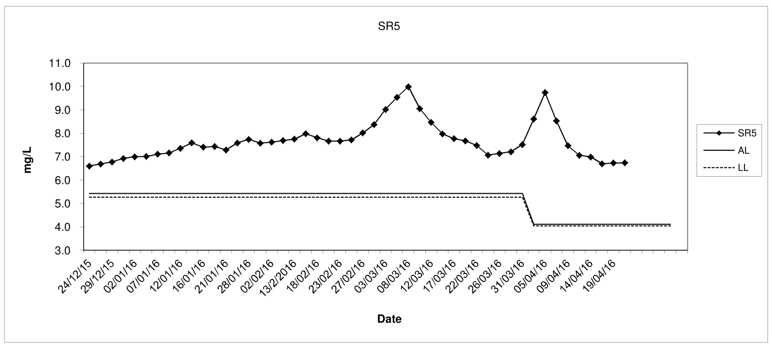


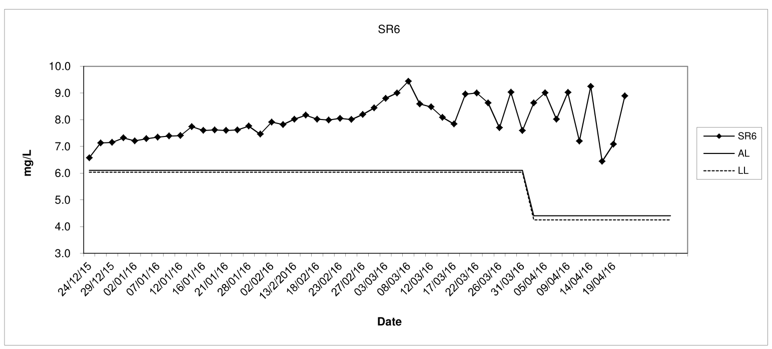




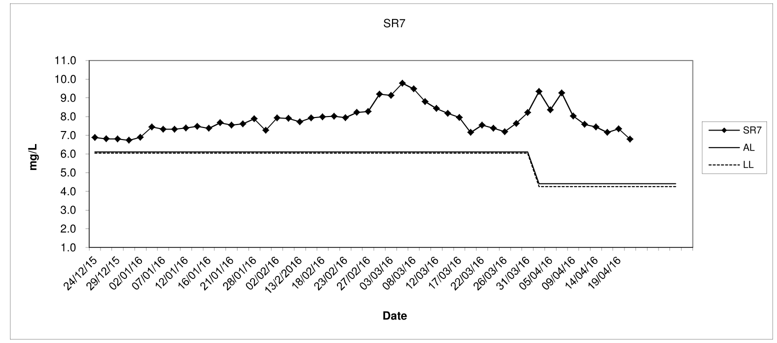
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

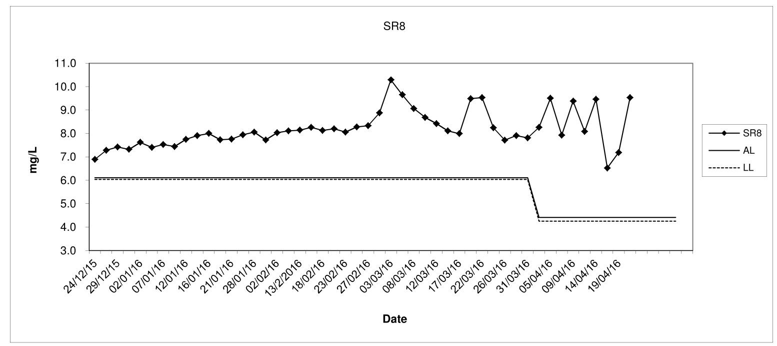


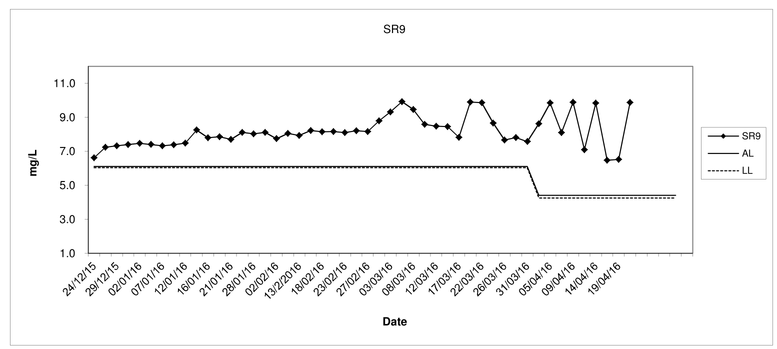




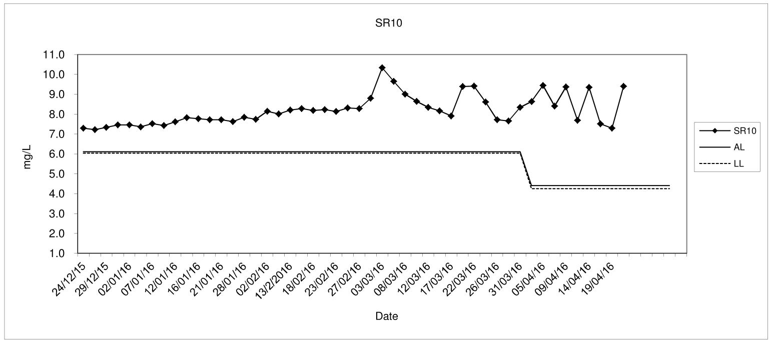
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

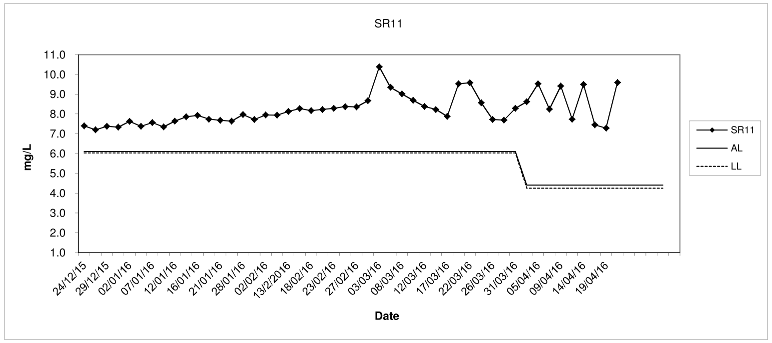


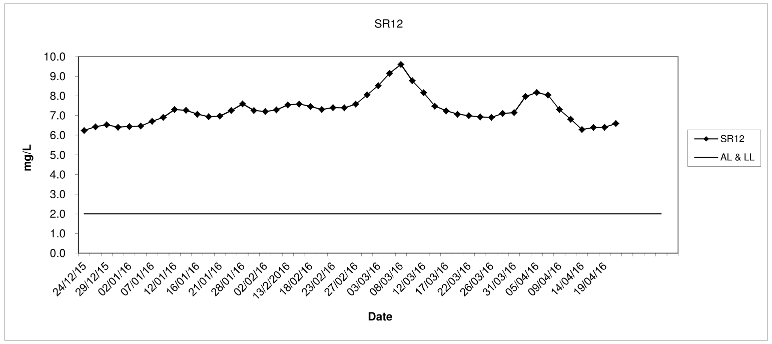




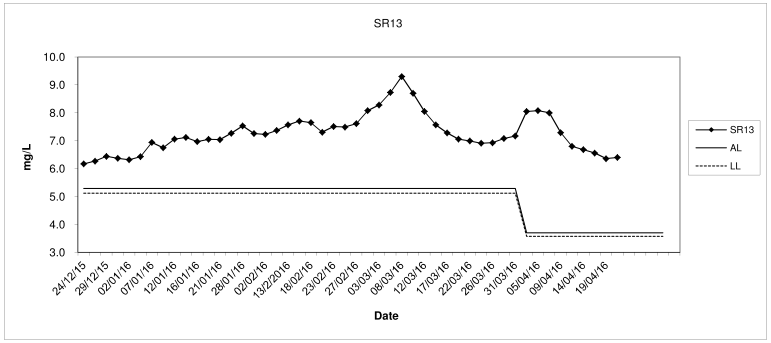
Dissolved Oxygen (Bottom) at Mid-Ebb Tide





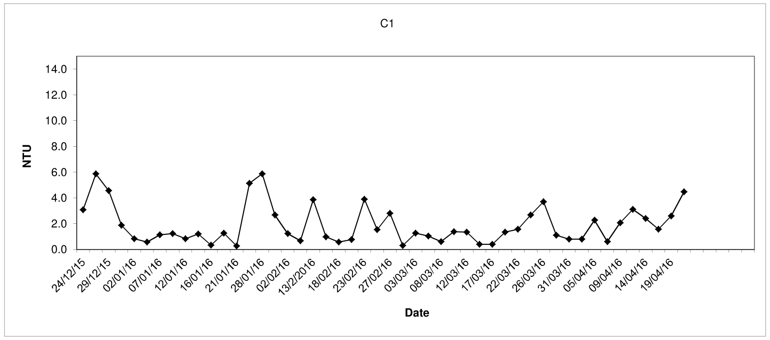


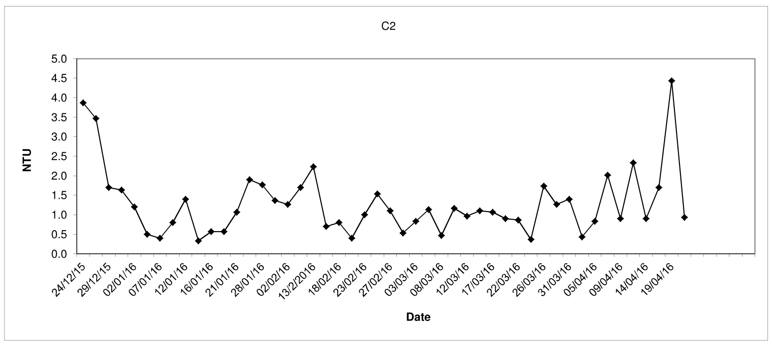
Dissolved Oxygen (Bottom) at Mid-Ebb Tide

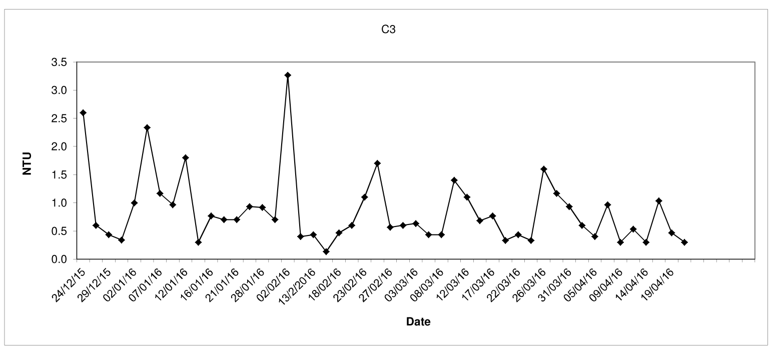


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

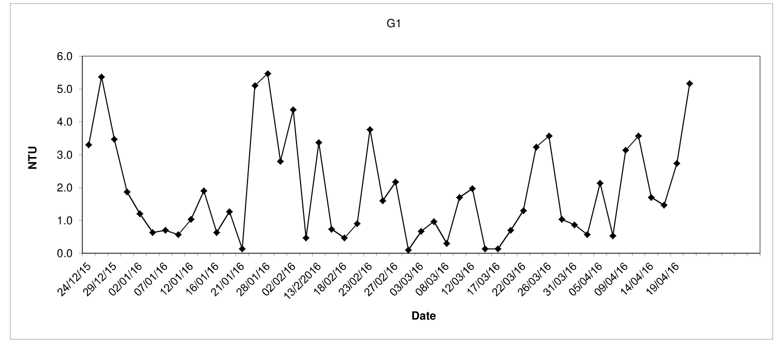
Turbidity (Depth average) at Mid-Ebb Tide

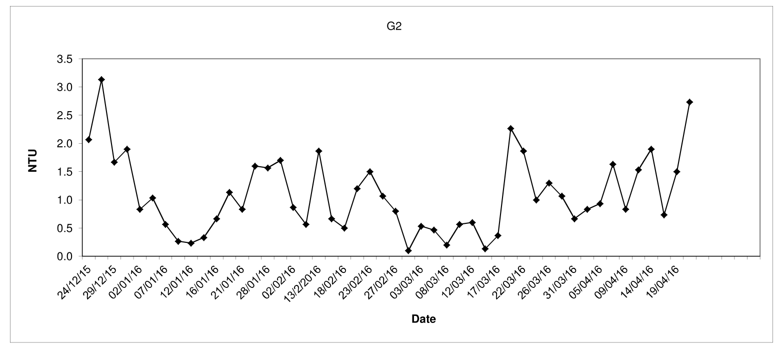


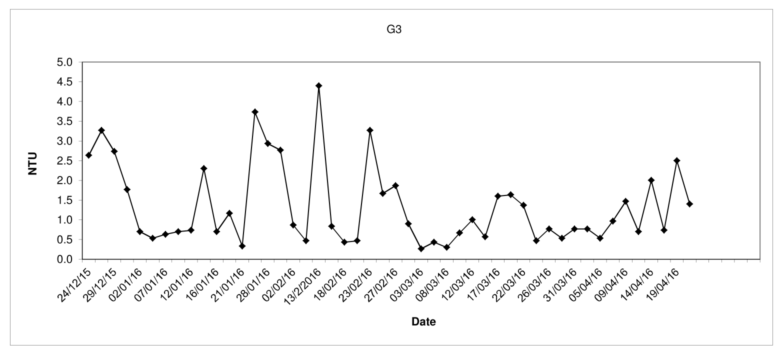




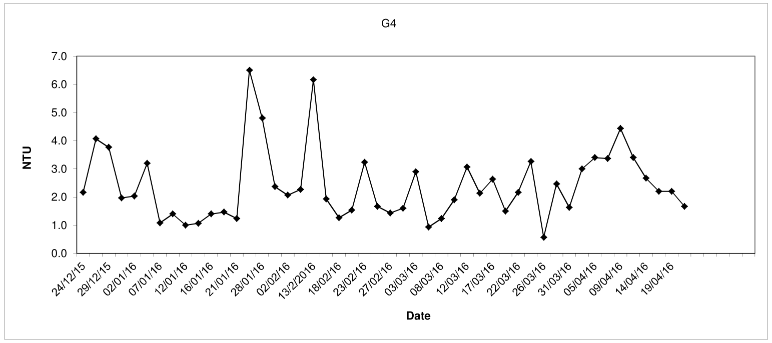
Turbidity (Depth average) at Mid-Ebb Tide

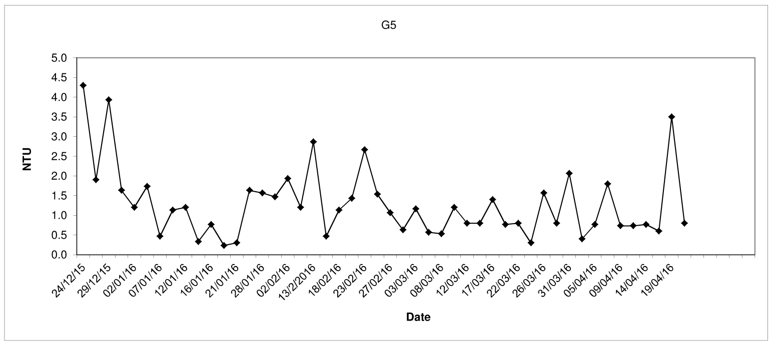


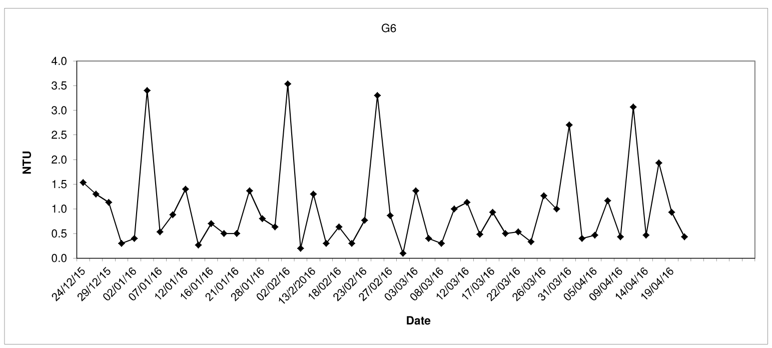




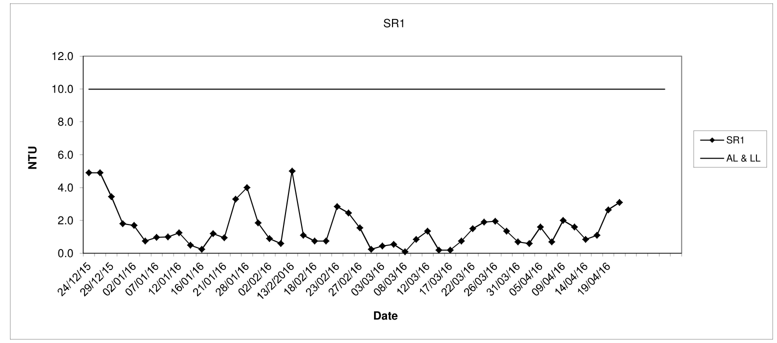
Turbidity (Depth average) at Mid-Ebb Tide

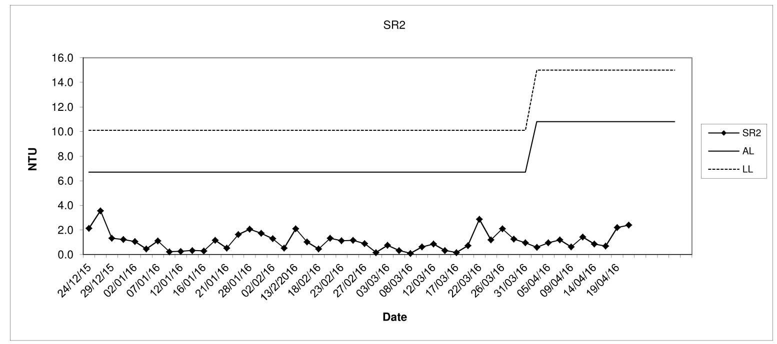


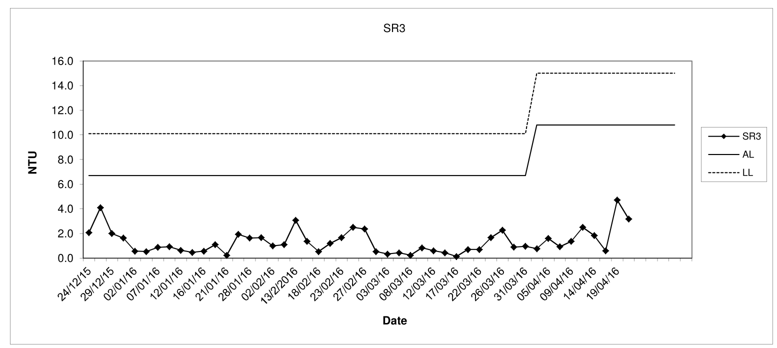




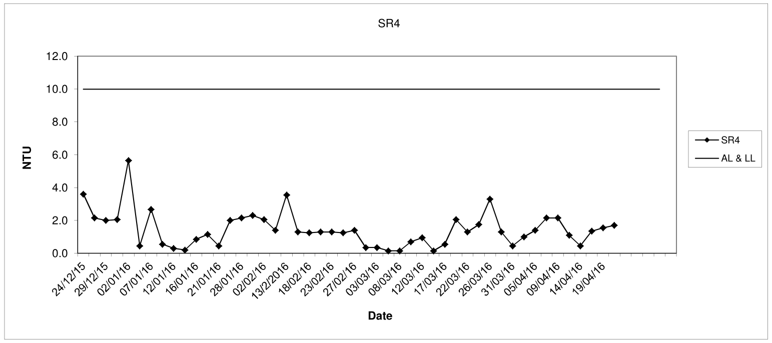
Turbidity (Depth average) at Mid-Ebb Tide

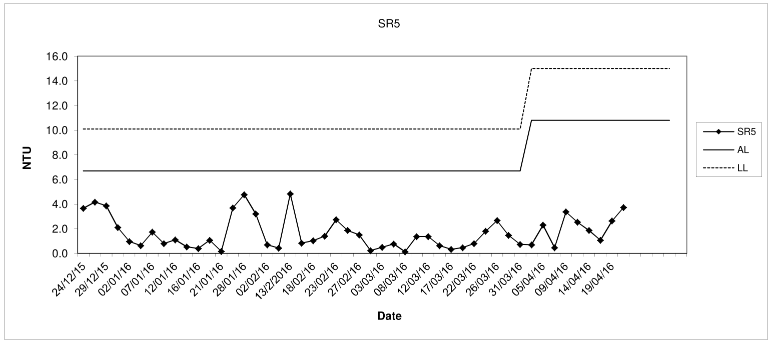


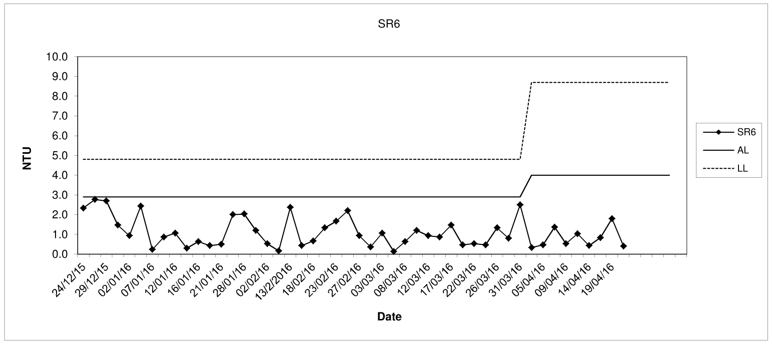




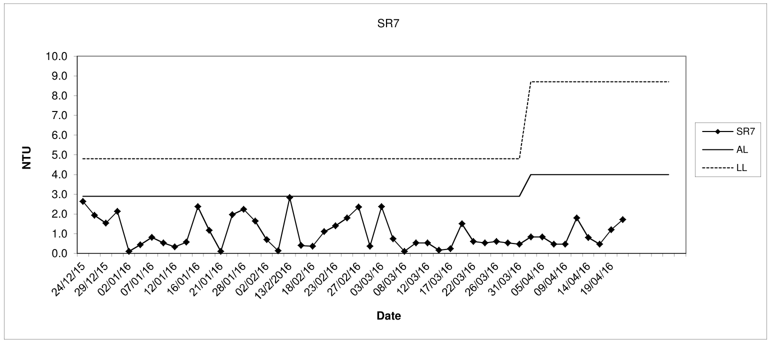
Turbidity (Depth average) at Mid-Ebb Tide

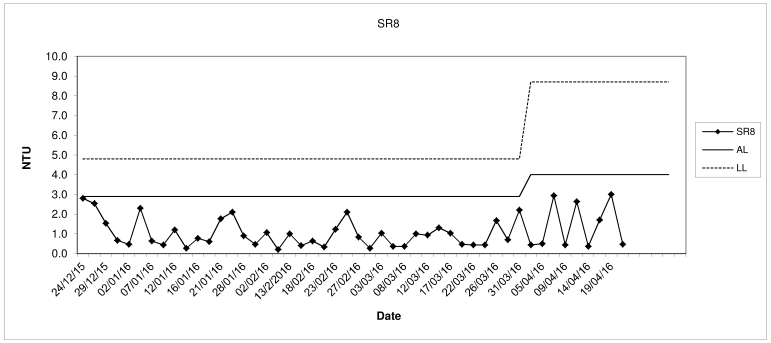


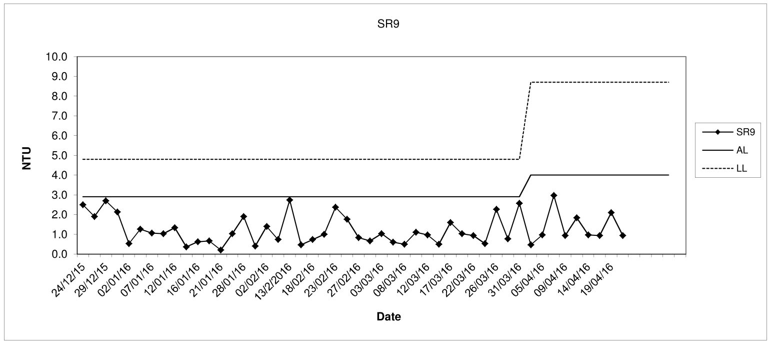




Turbidity (Depth average) at Mid-Ebb Tide

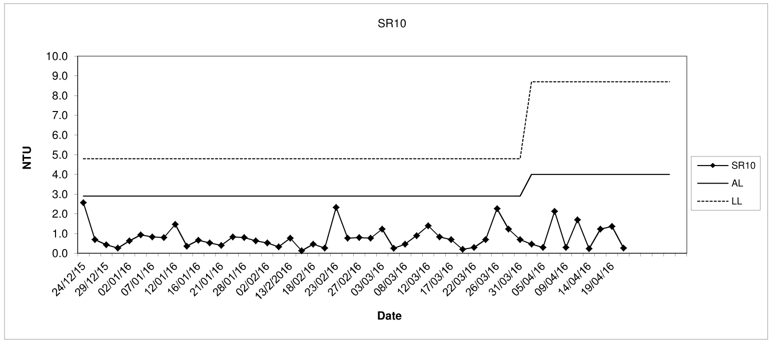


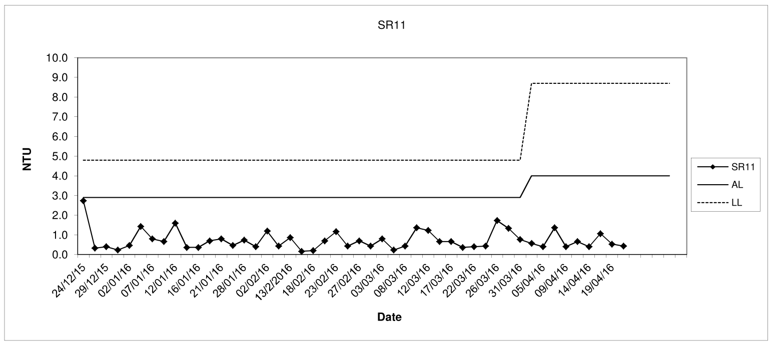


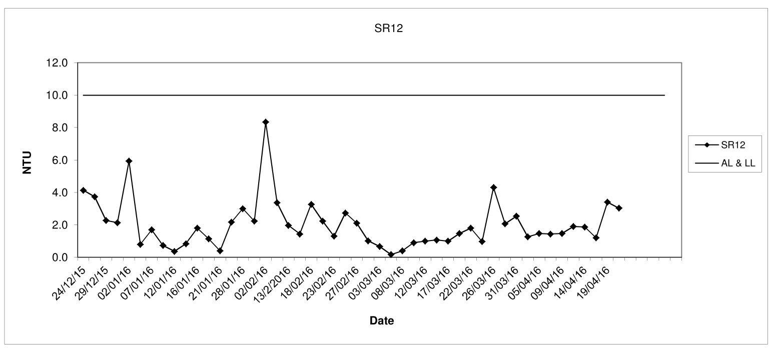


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

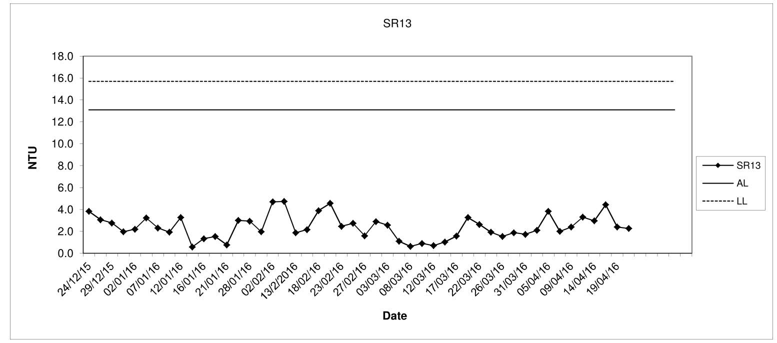
Turbidity (Depth average) at Mid-Ebb Tide





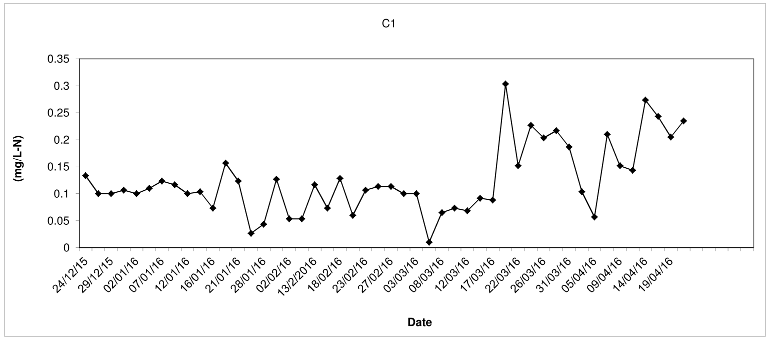


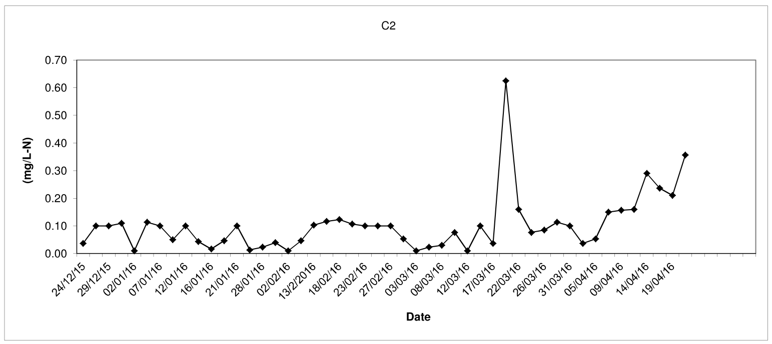
Turbidity (Depth average) at Mid-Ebb Tide

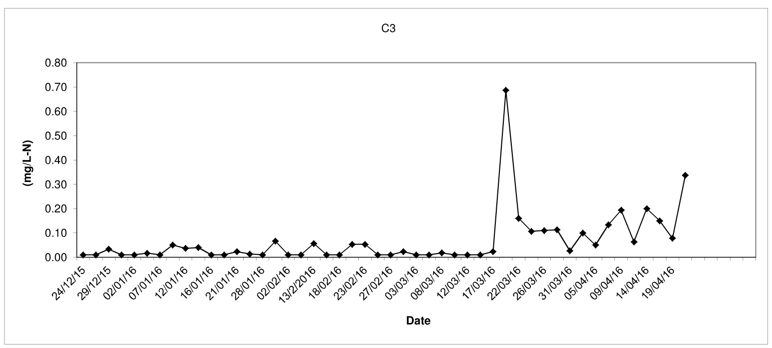


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

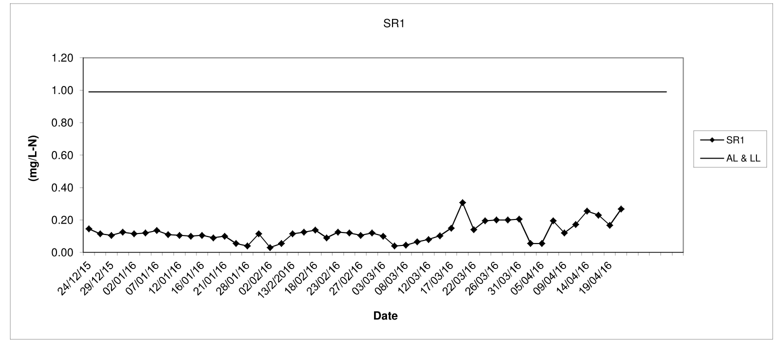
In-situ Ammonia (Depth average) at Mid-Ebb Tide

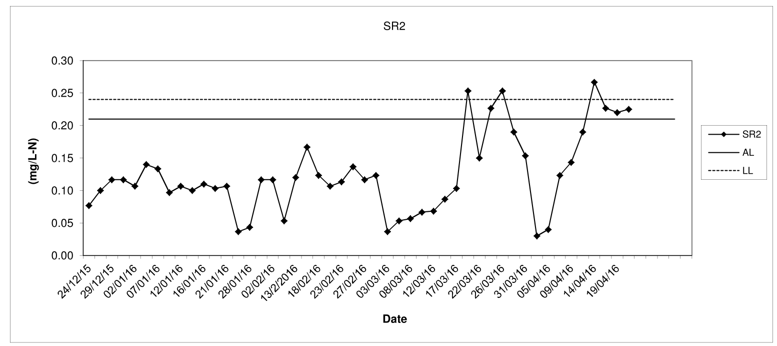


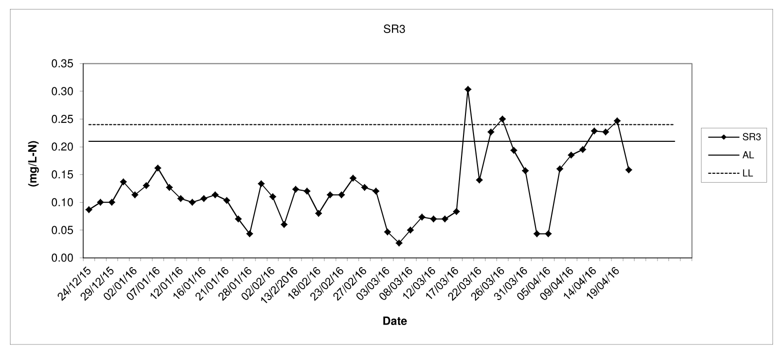




In-situ Ammonia (Depth average) at Mid-Ebb Tide

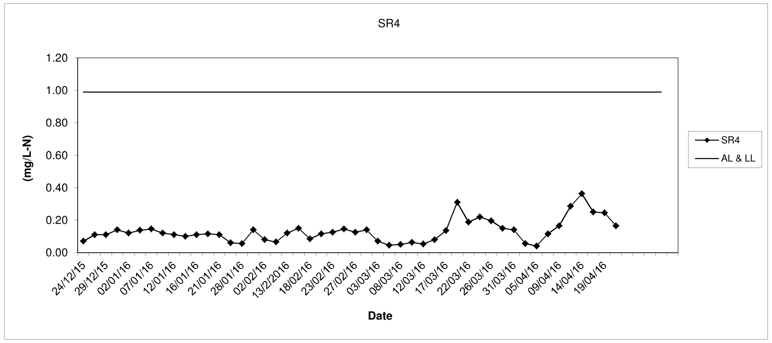


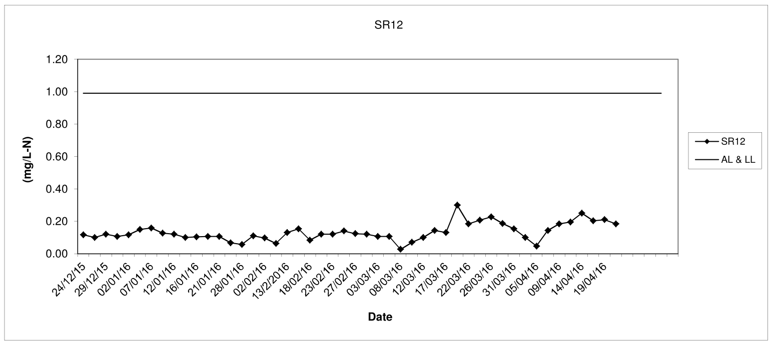




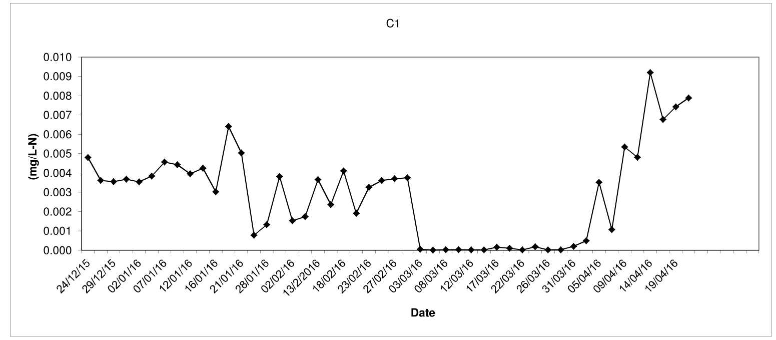
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

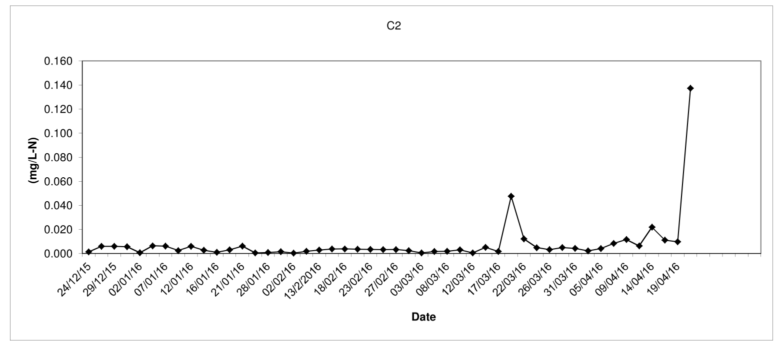
In-situ Ammonia (Depth average) at Mid-Ebb Tide

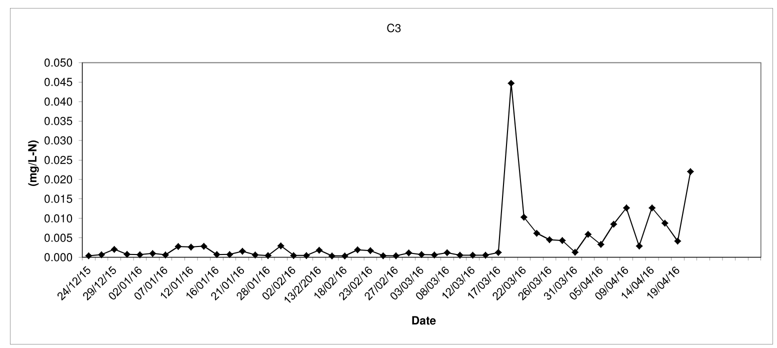




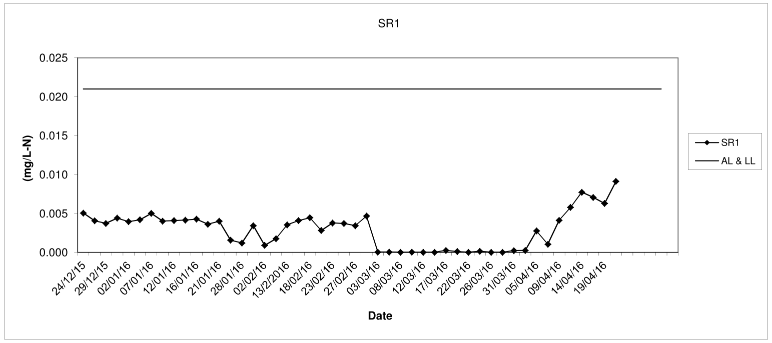
In-situ UIA (Depth average) at Mid-Ebb Tide

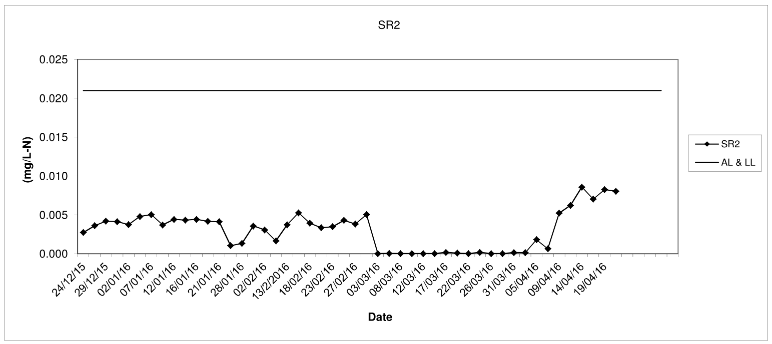


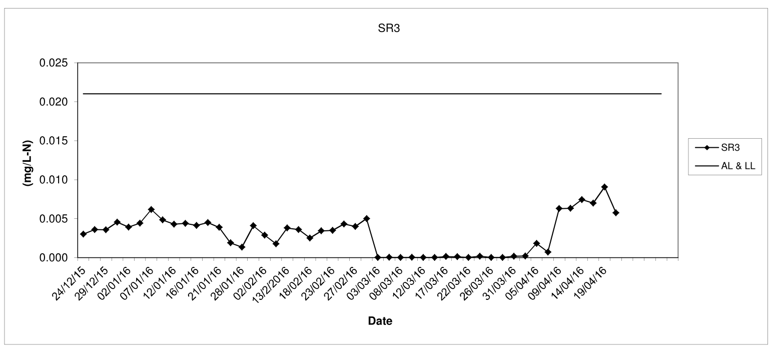




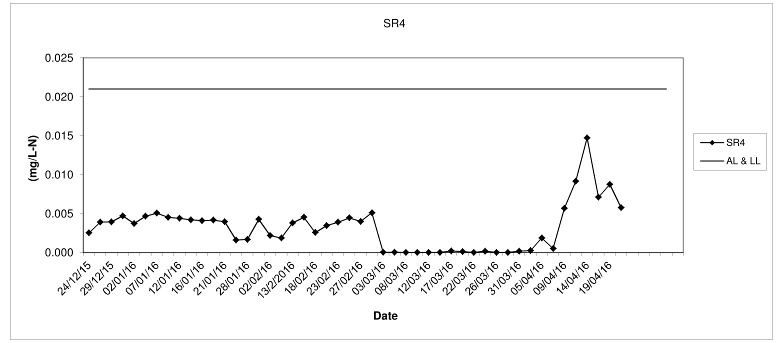
In-situ UIA (Depth average) at Mid-Ebb Tide

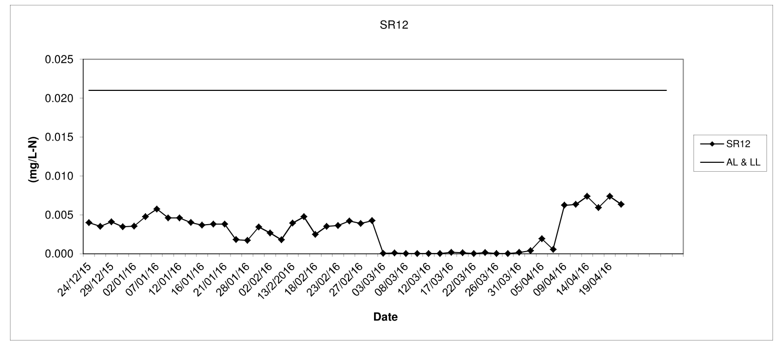




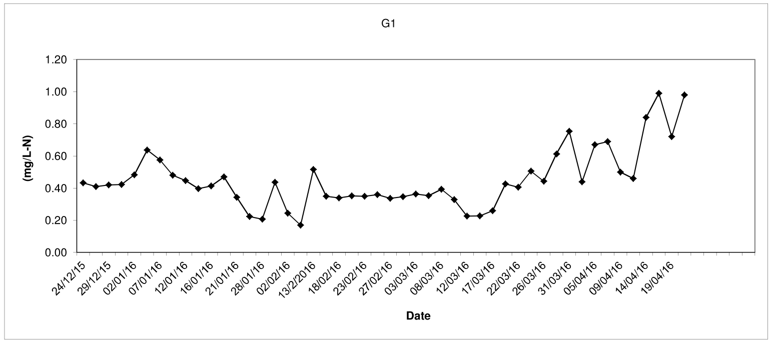


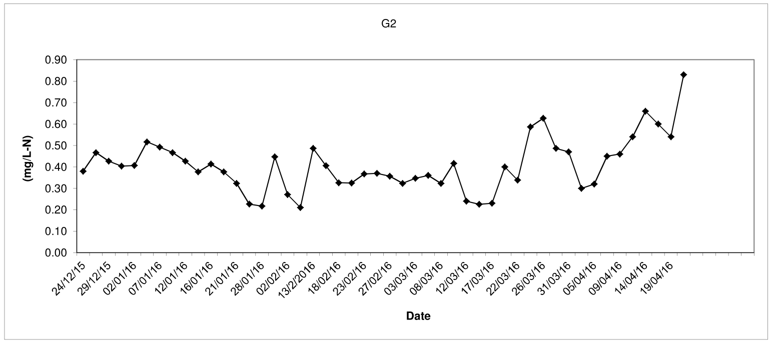
In-situ UIA (Depth average) at Mid-Ebb Tide

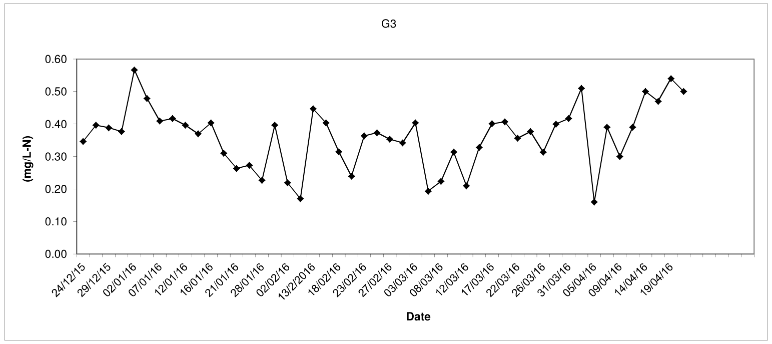




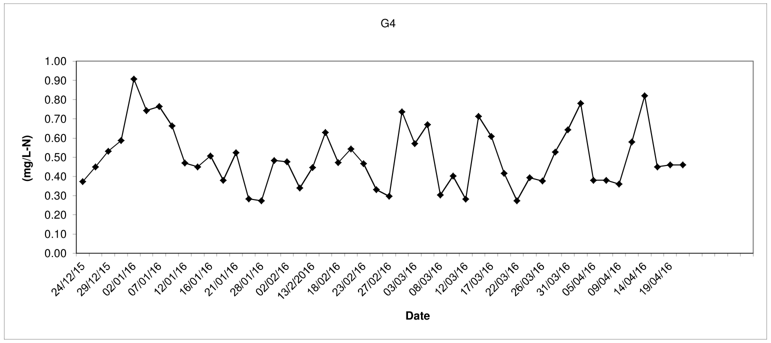
In-situ TIN (Depth average) at Mid-Ebb Tide

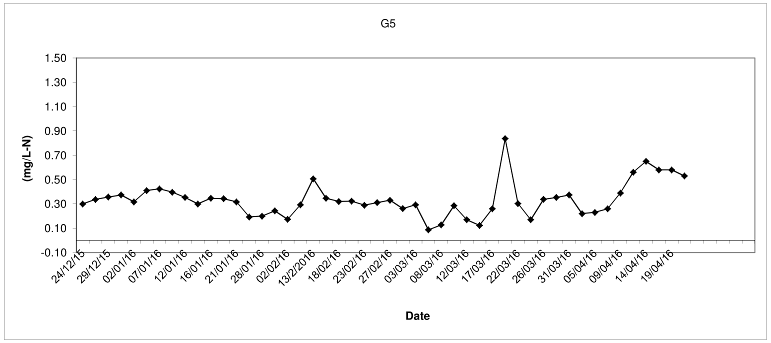


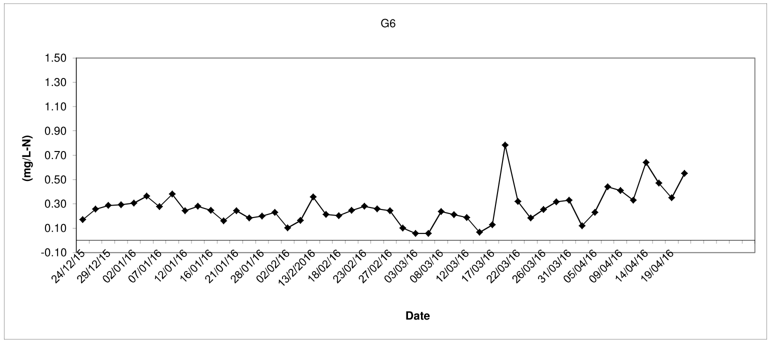




In-situ TIN (Depth average) at Mid-Ebb Tide

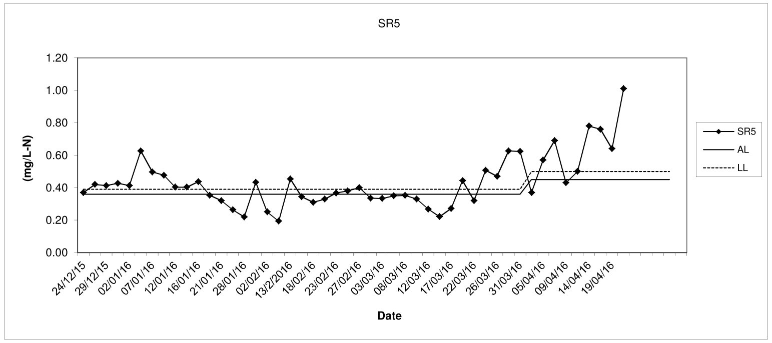


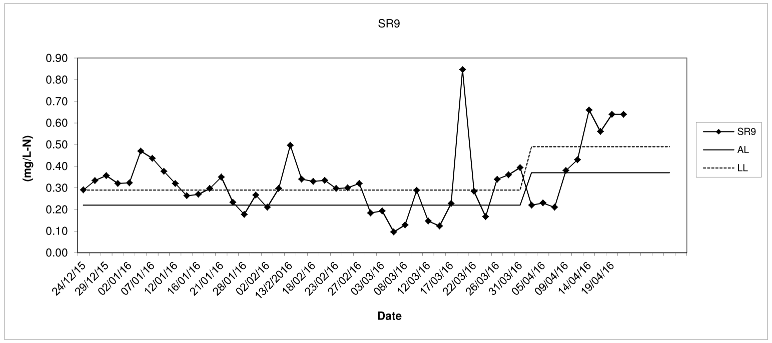


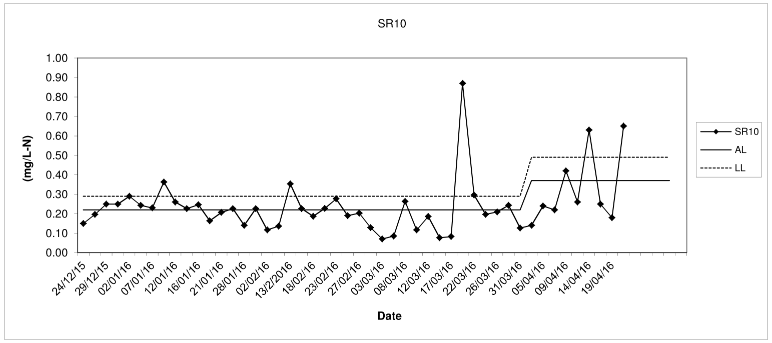


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

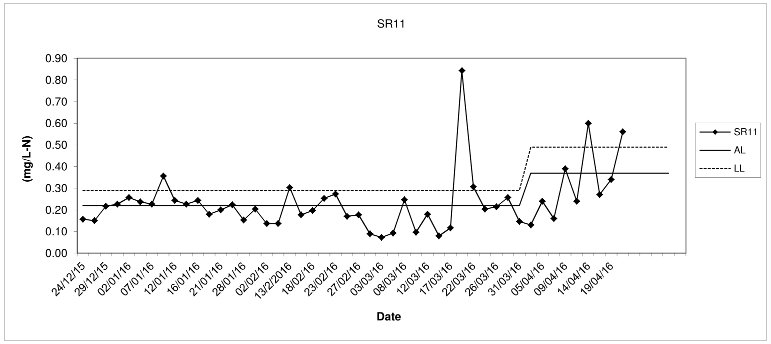
In-situ TIN (Depth average) at Mid-Ebb Tide



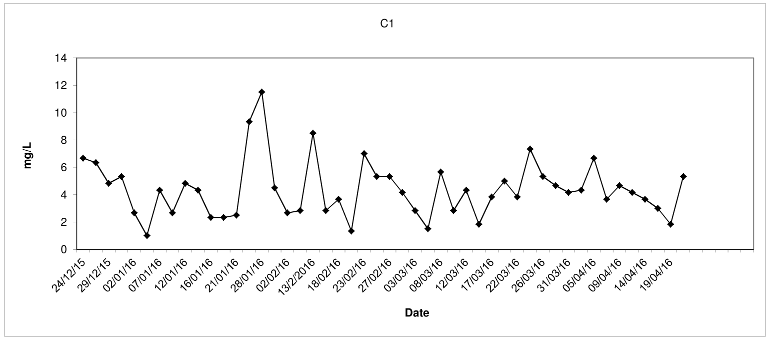


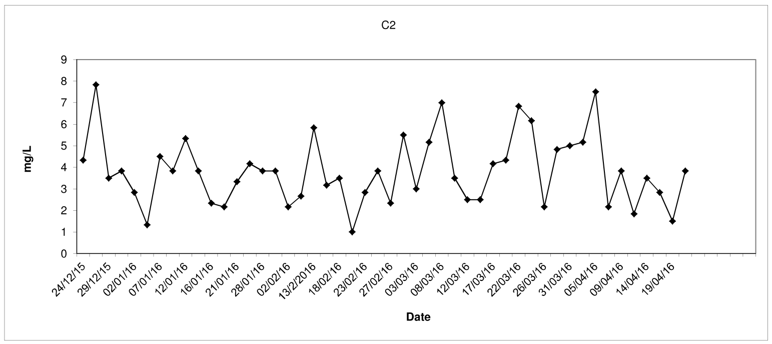


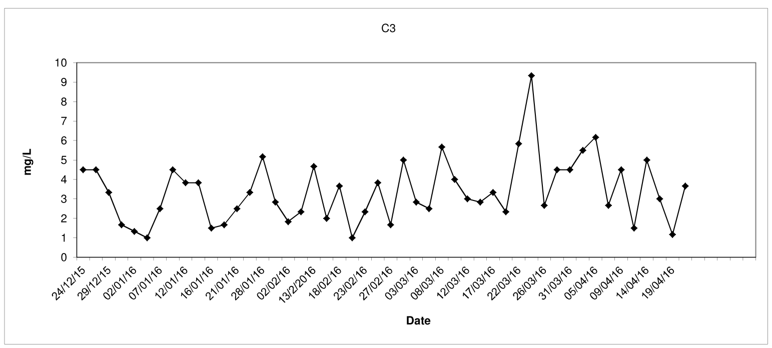
In-situ TIN (Depth average) at Mid-Ebb Tide



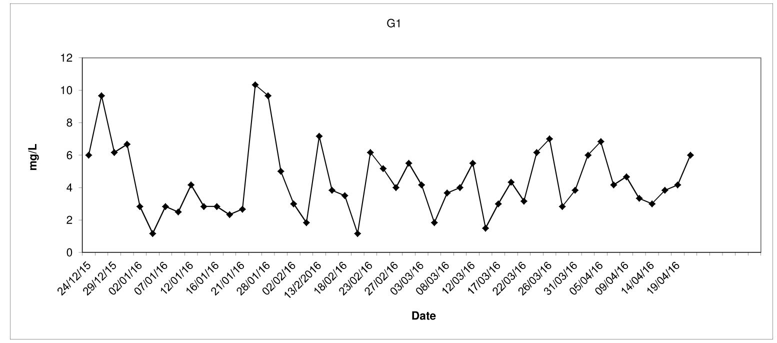
Total Suspended Solids (Depth average) at Mid-Ebb Tide

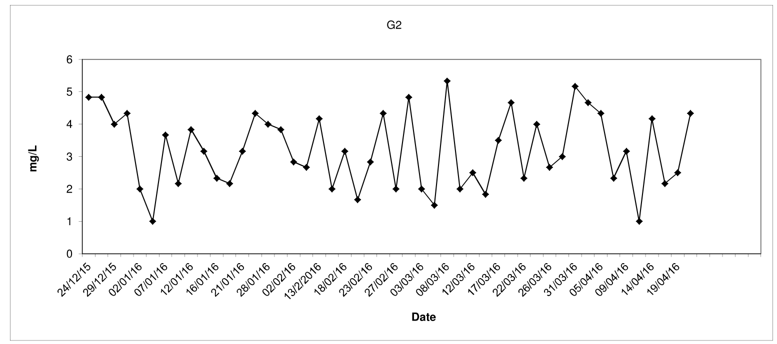


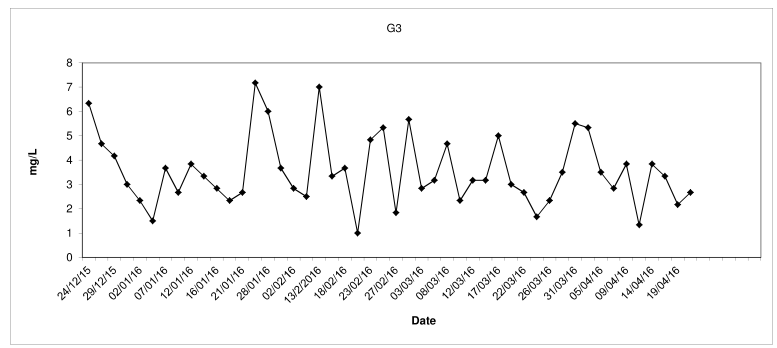




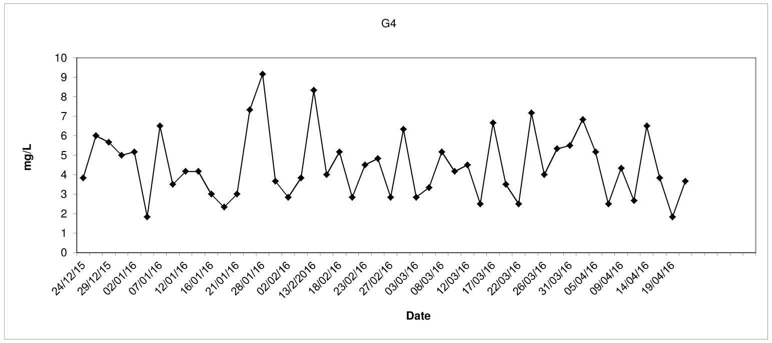
Total Suspended Solids (Depth average) at Mid-Ebb Tide

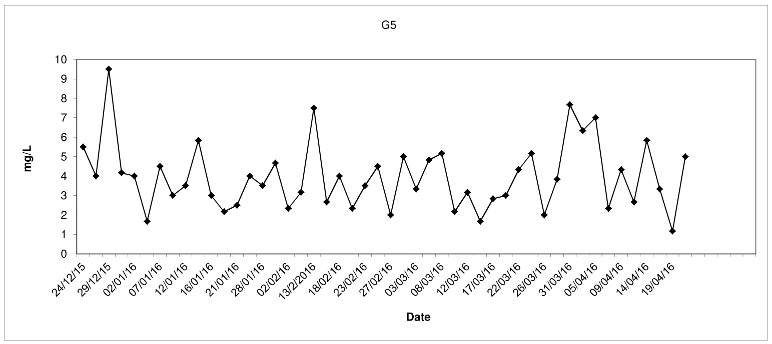


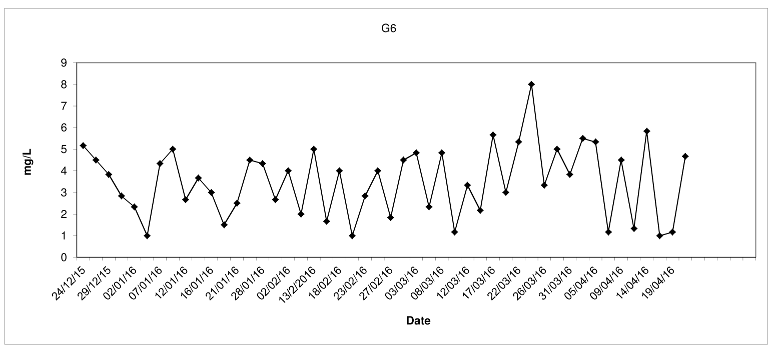




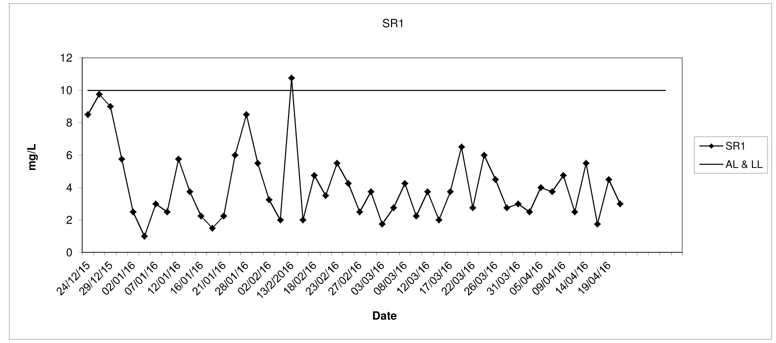
Total Suspended Solids (Depth average) at Mid-Ebb Tide

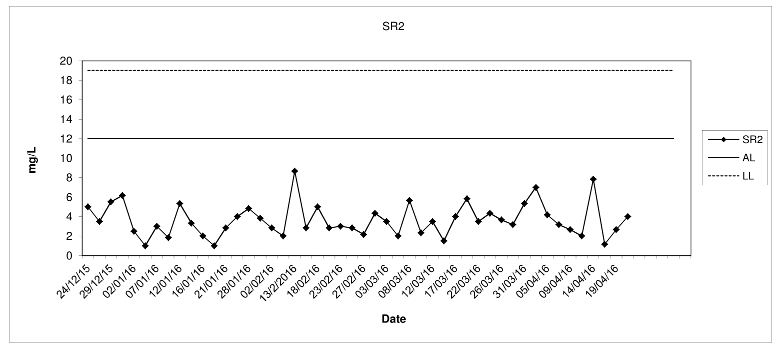


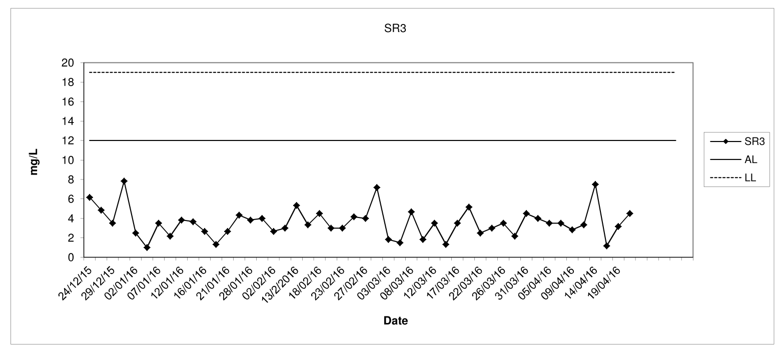




Total Suspended Solids (Depth average) at Mid-Ebb Tide

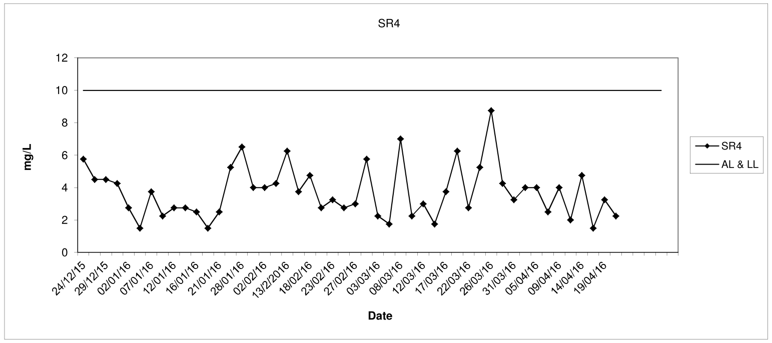


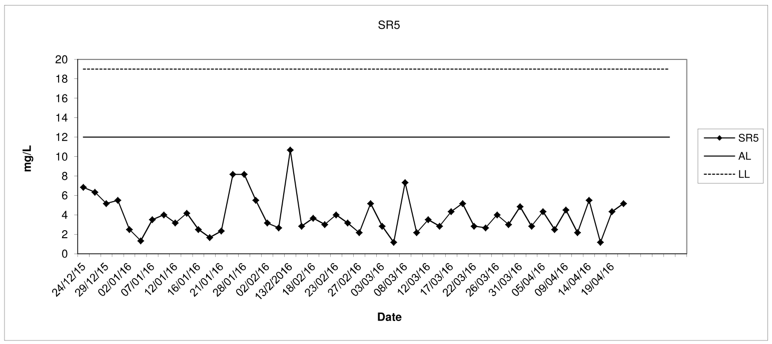


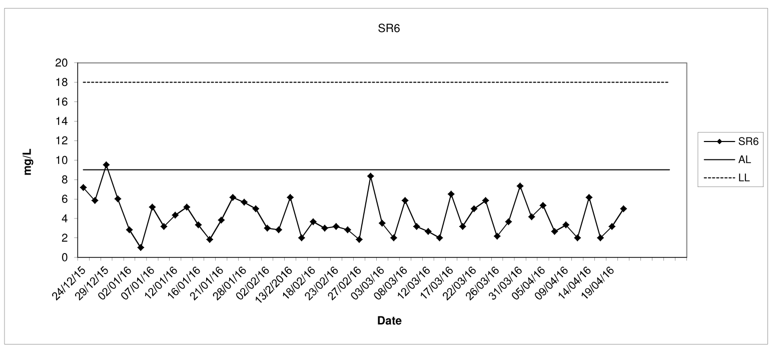


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

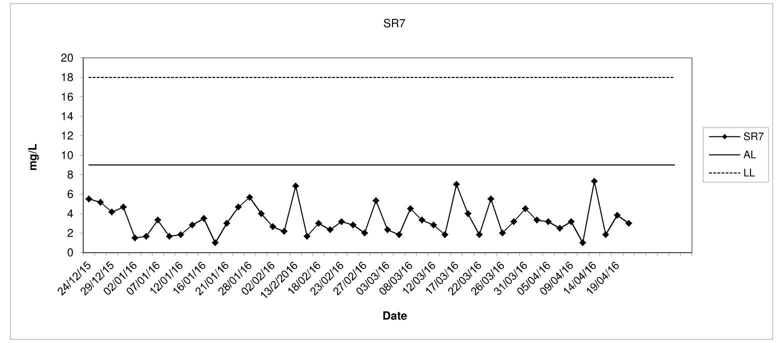
Total Suspended Solids (Depth average) at Mid-Ebb Tide

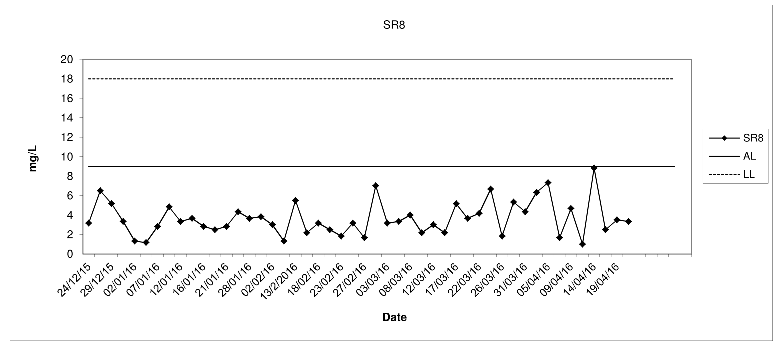


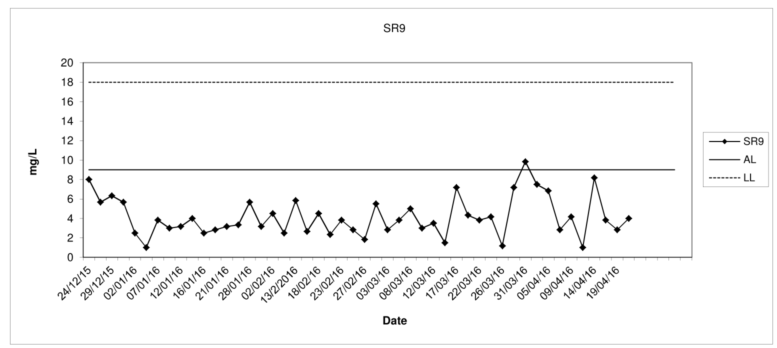




Total Suspended Solids (Depth average) at Mid-Ebb Tide

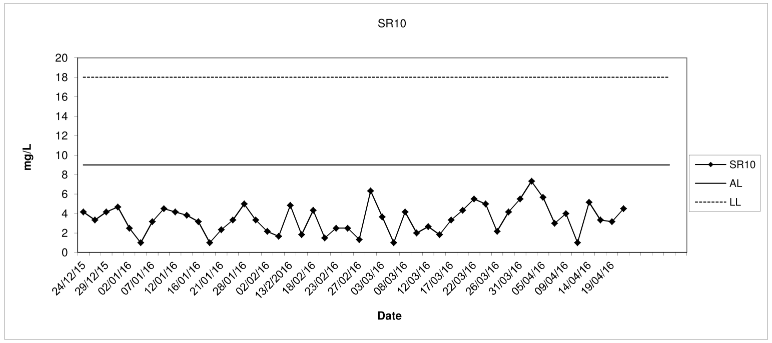


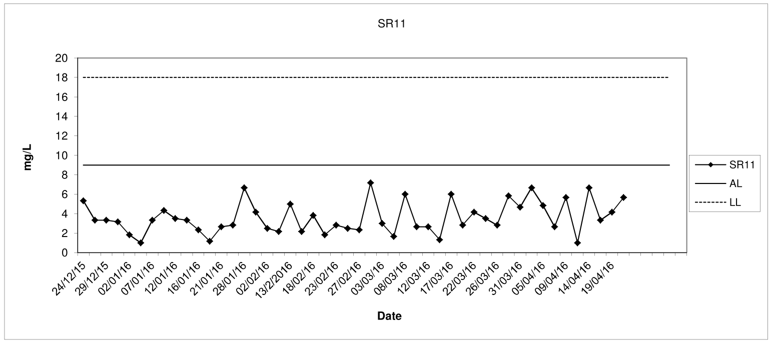


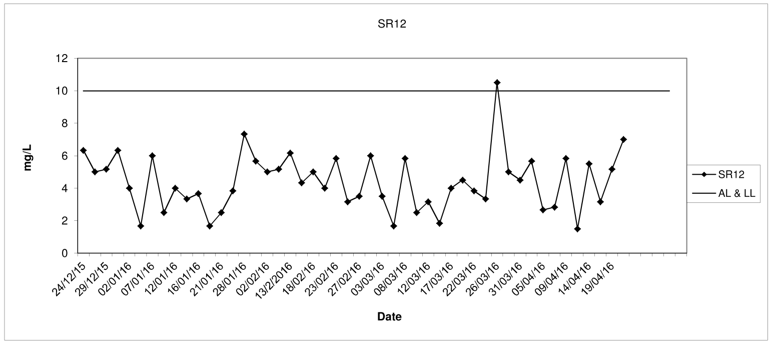


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

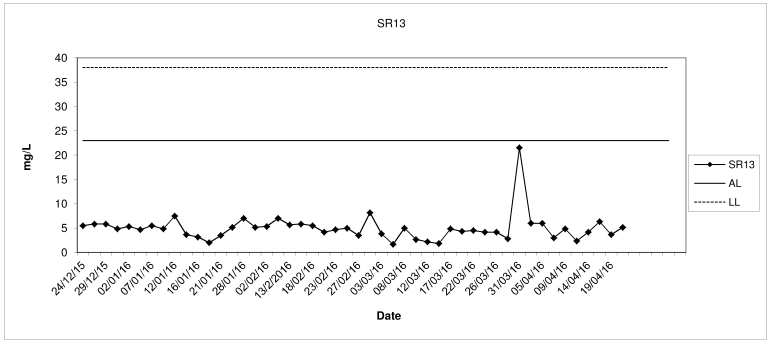
Total Suspended Solids (Depth average) at Mid-Ebb Tide



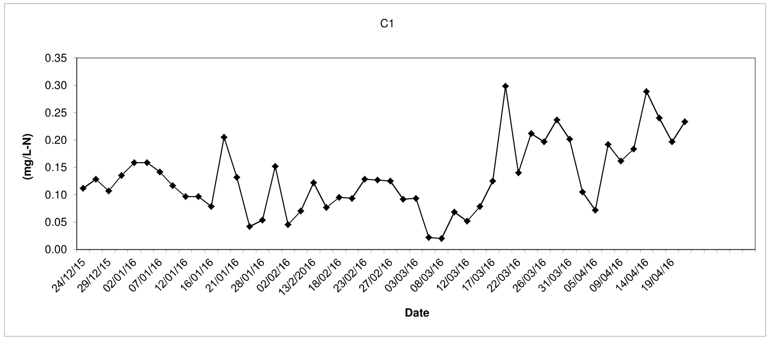


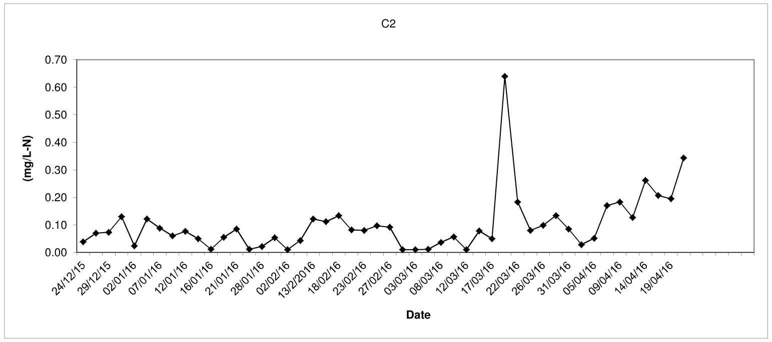


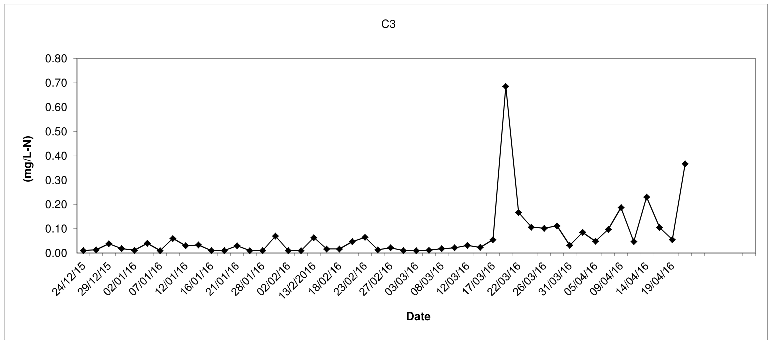
Total Suspended Solids (Depth average) at Mid-Ebb Tide



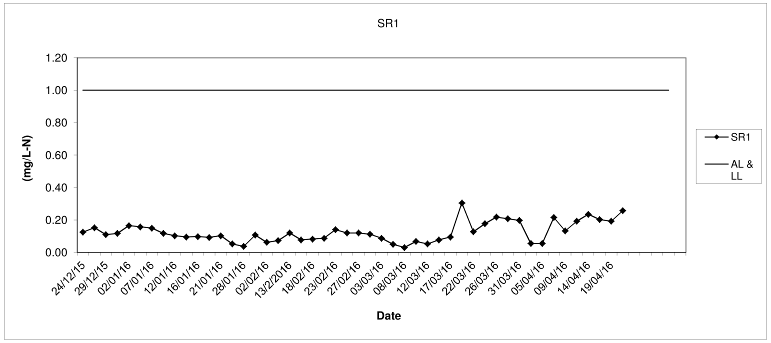
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide

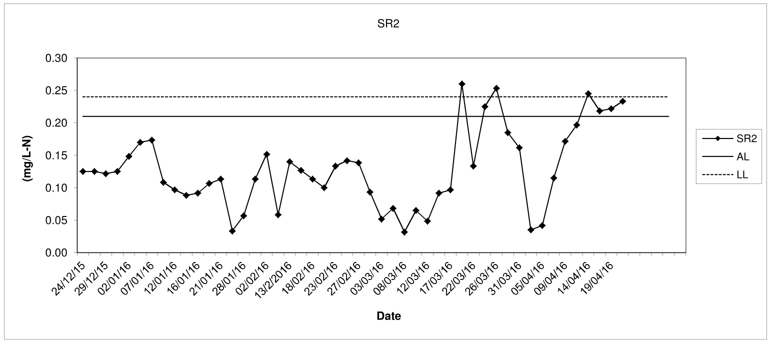


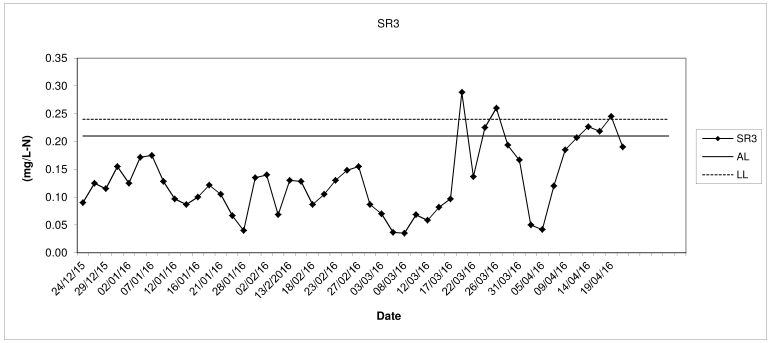




Ammonia Nitrogen (Depth average) at Mid-Ebb Tide

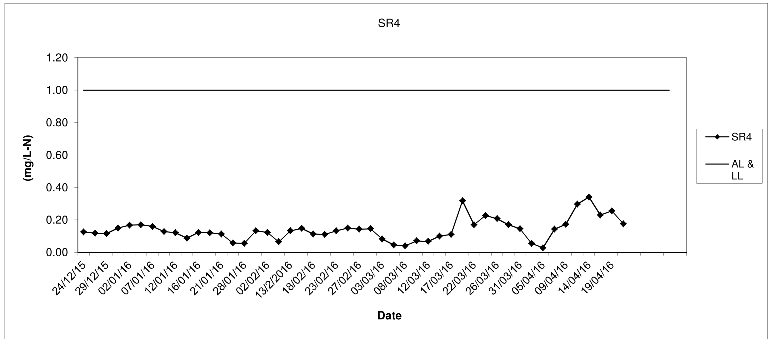


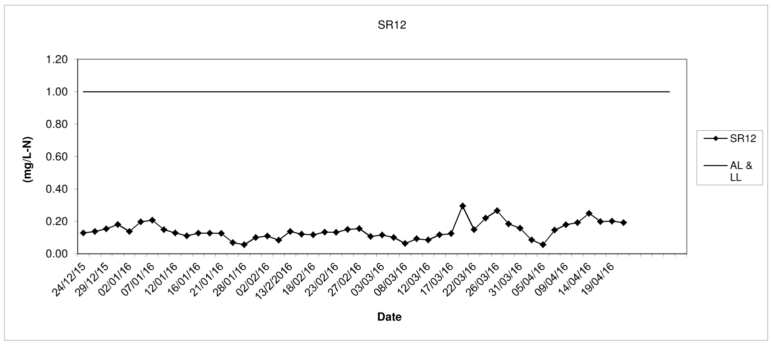




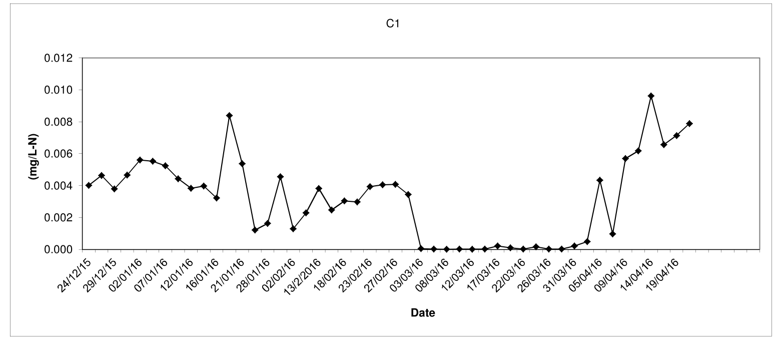
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

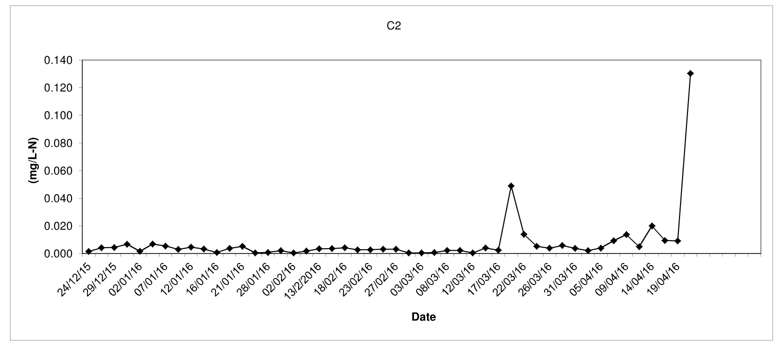
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide

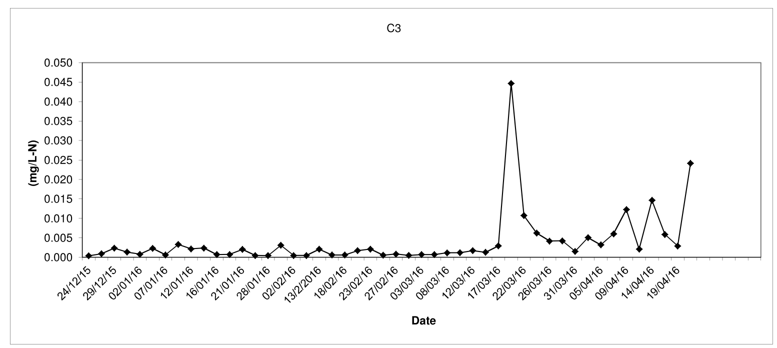




Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide

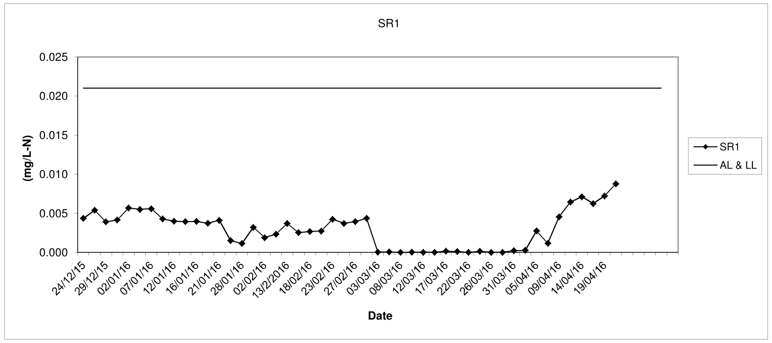


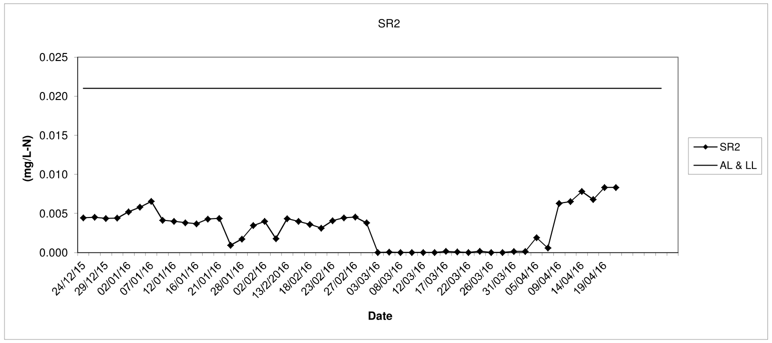


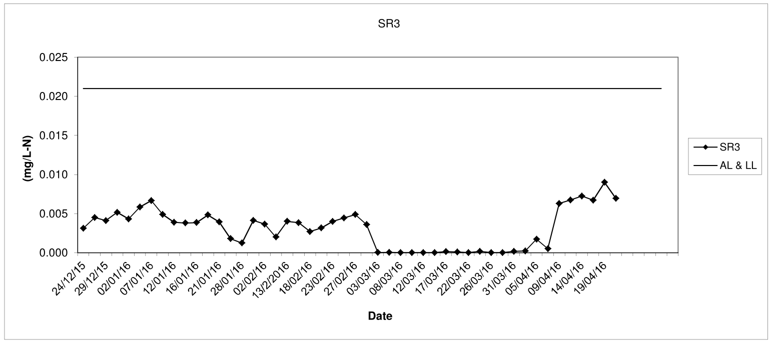


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

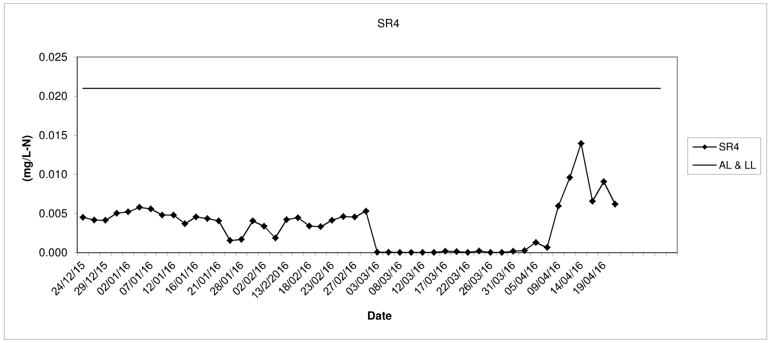
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide

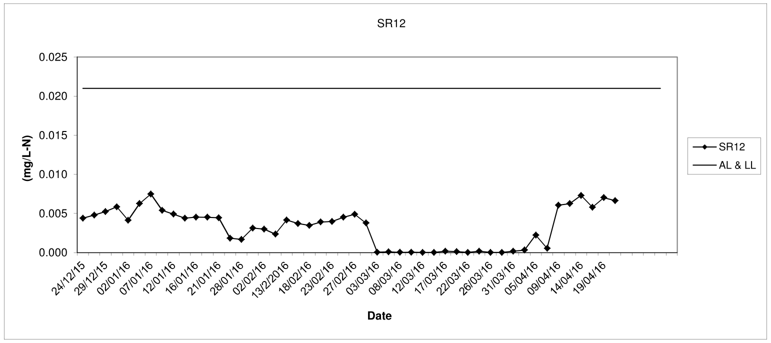






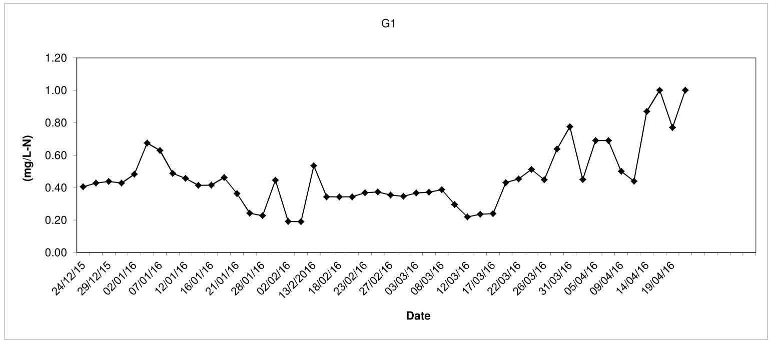
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide

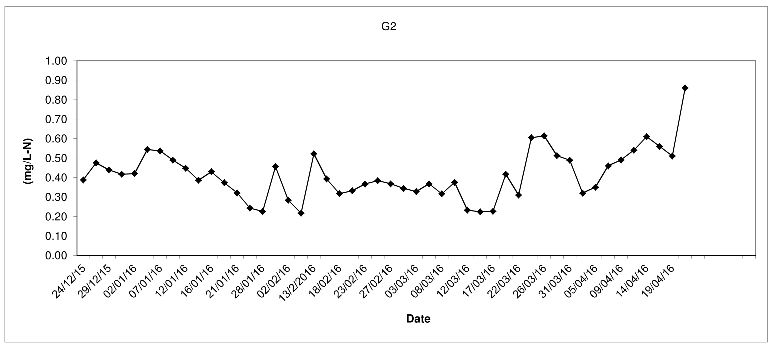


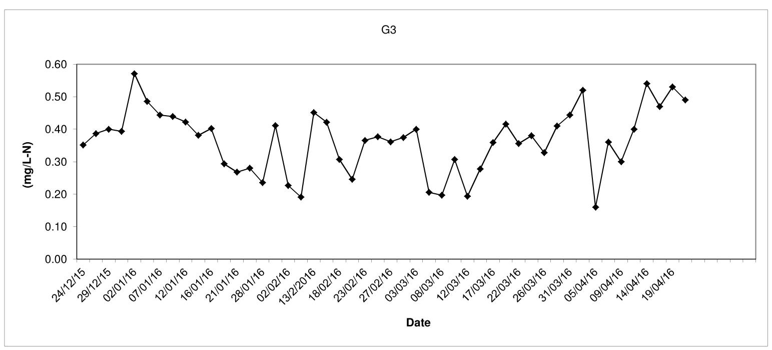


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

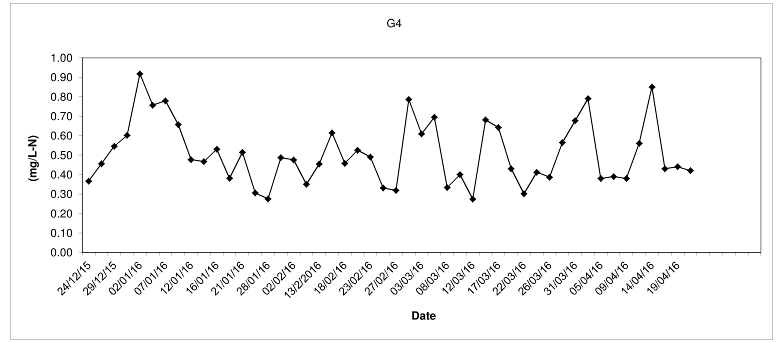
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide

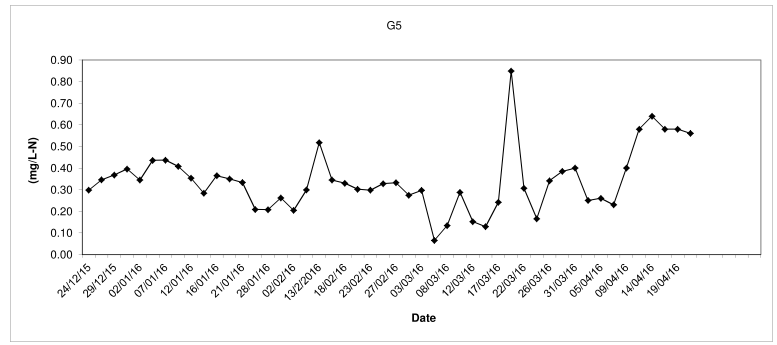


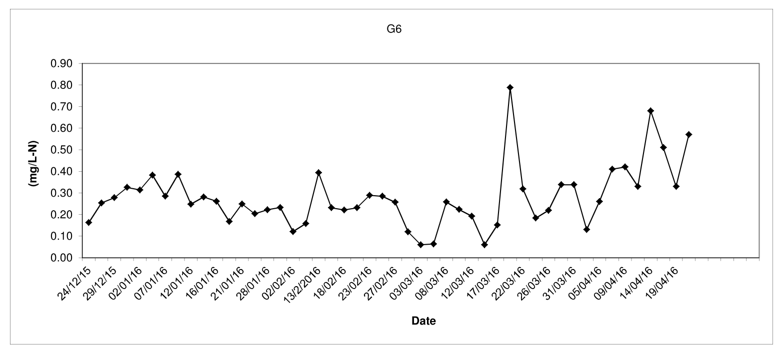




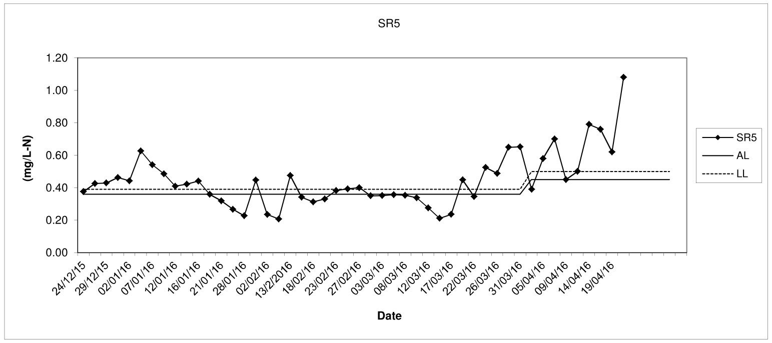
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide

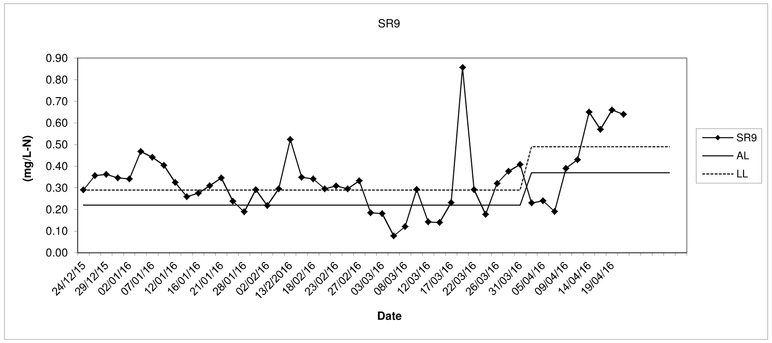


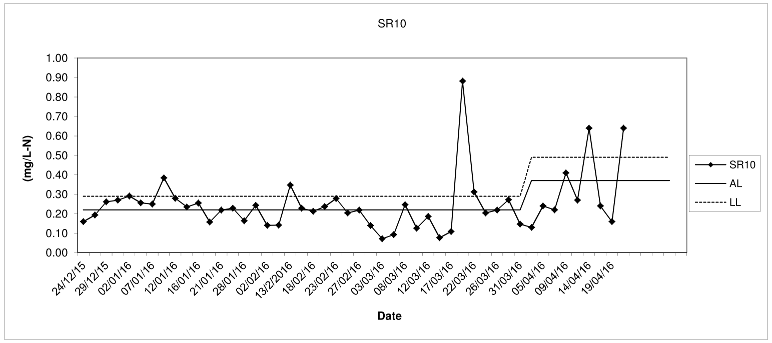




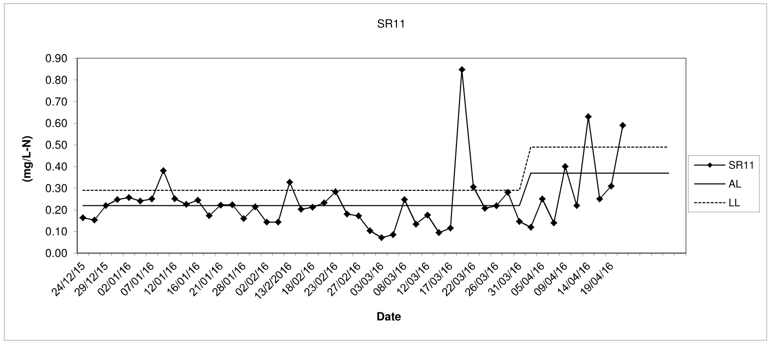
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



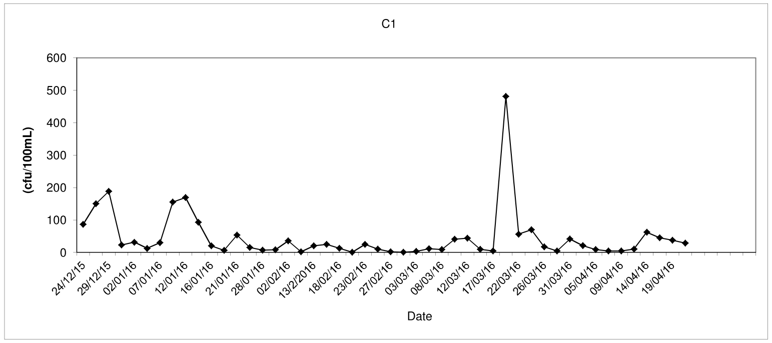


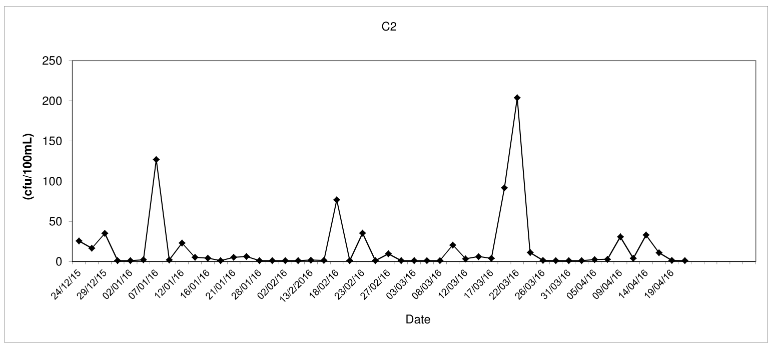


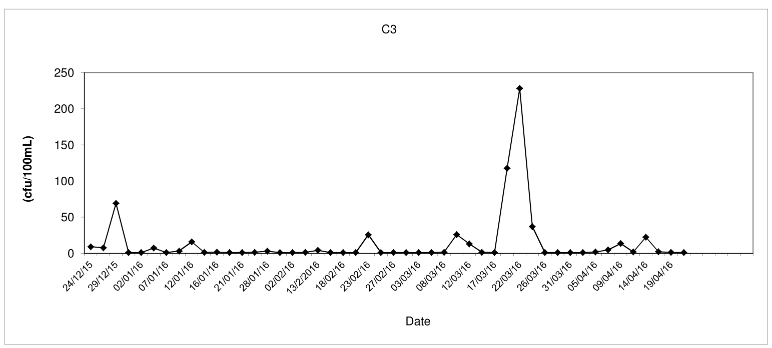
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



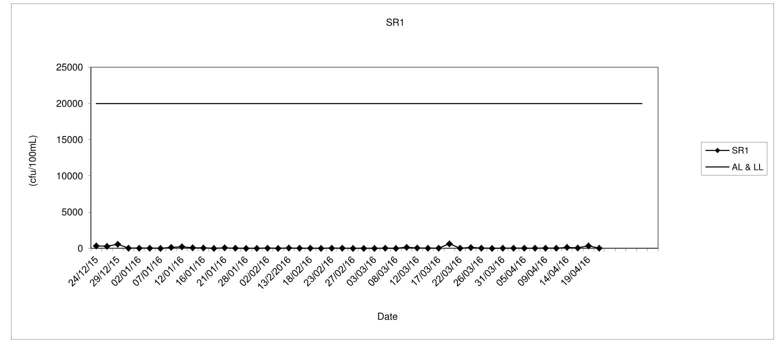
E.coli (Depth average) at Mid-Ebb Tide

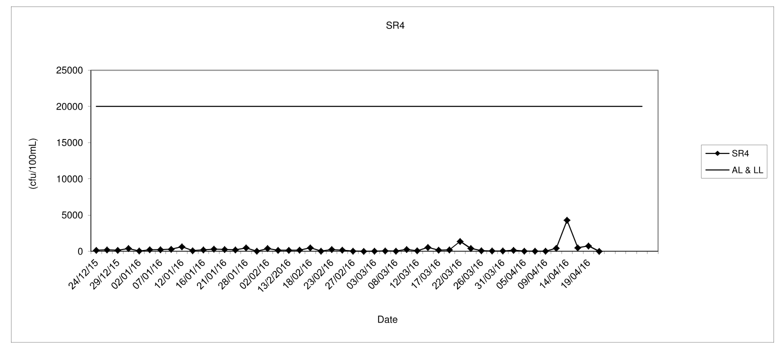


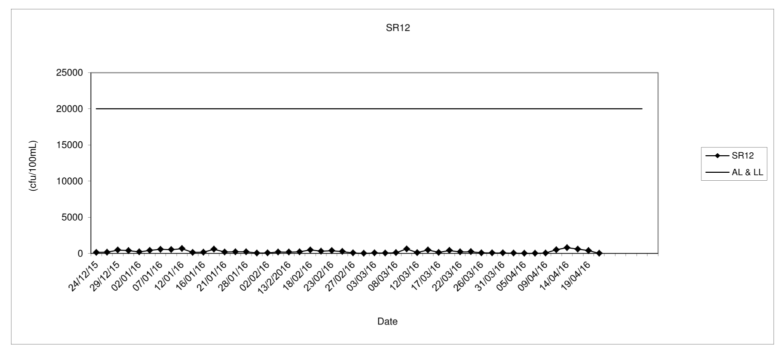




E.coli (Depth average) at Mid-Ebb Tide

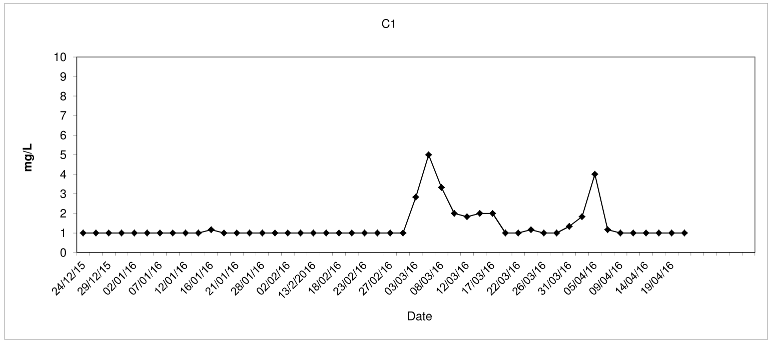


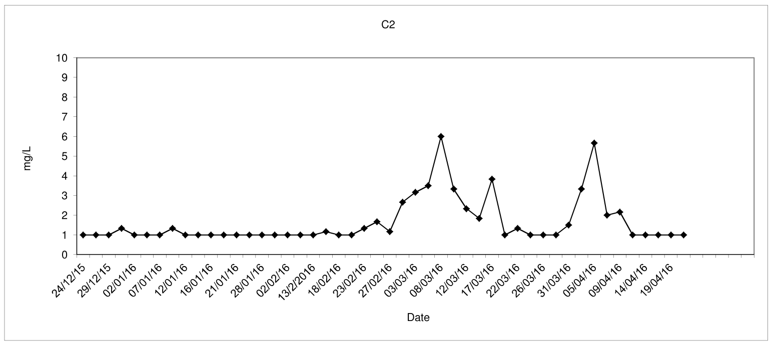


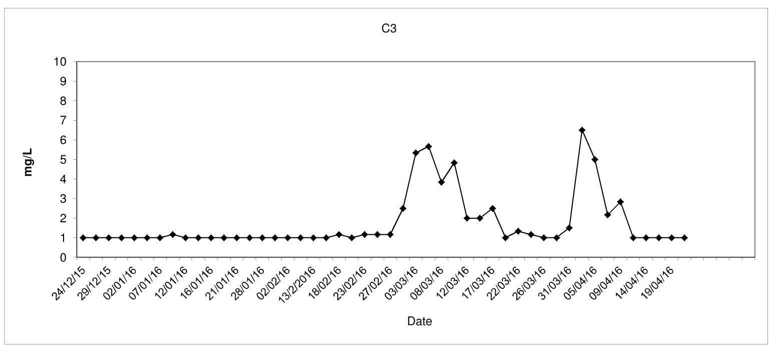


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

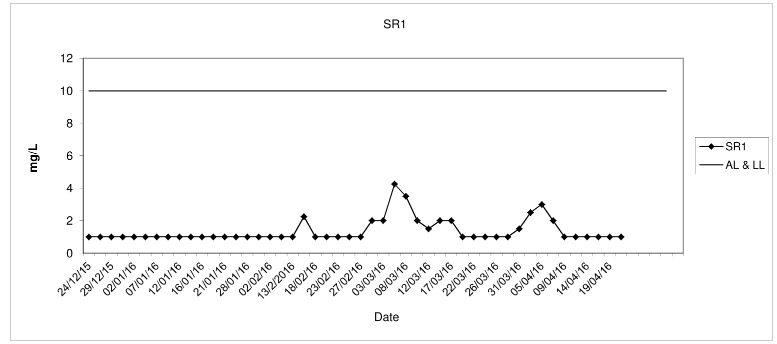
BOD_5 (Depth average) at Mid-Ebb Tide

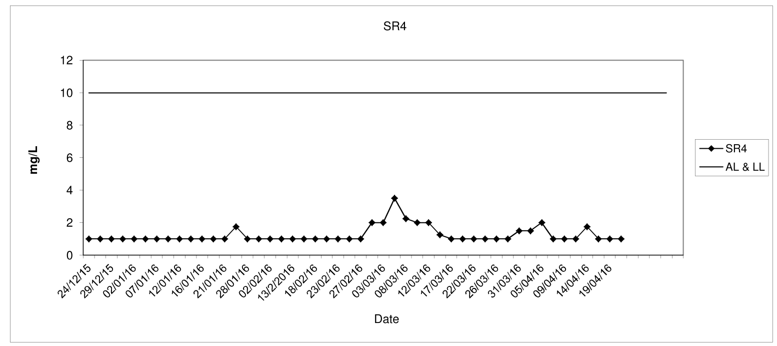


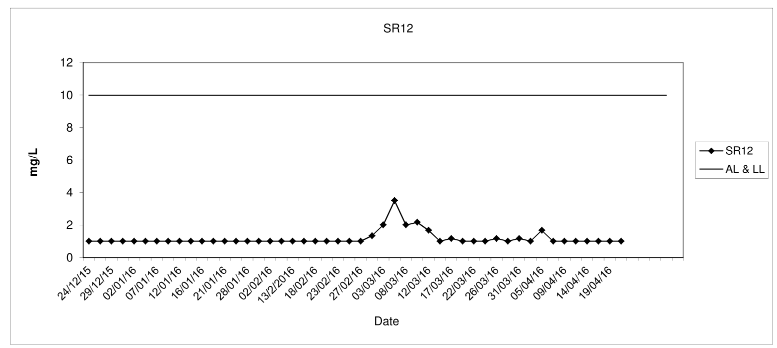




BOD_5 (Depth average) at Mid-Ebb Tide

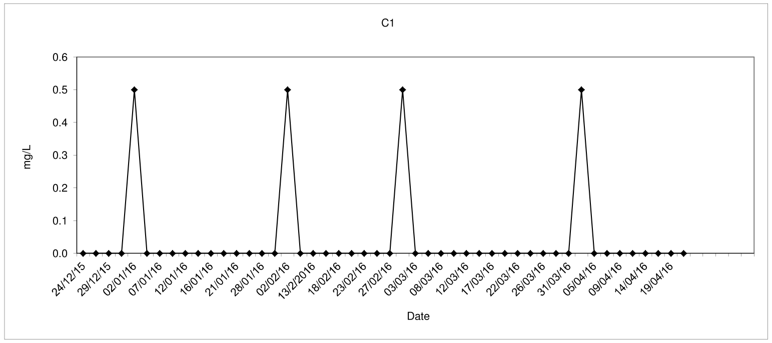


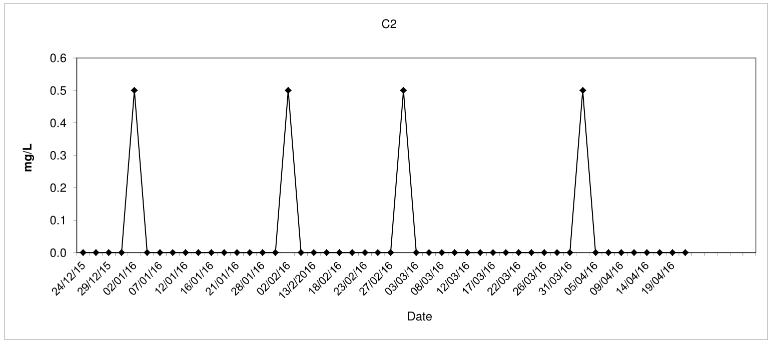


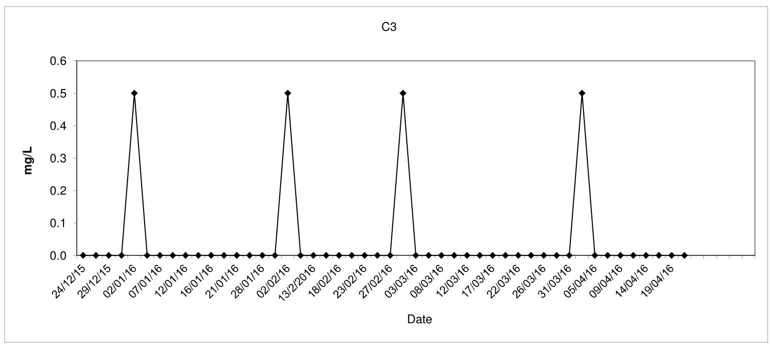


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

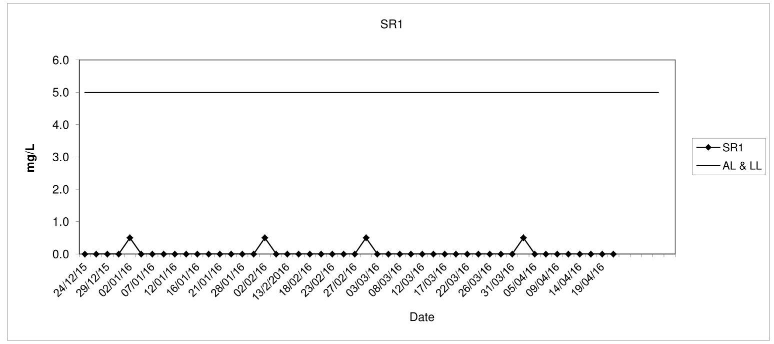
Synthetic Detergent (Depth average) at Mid-Ebb Tide

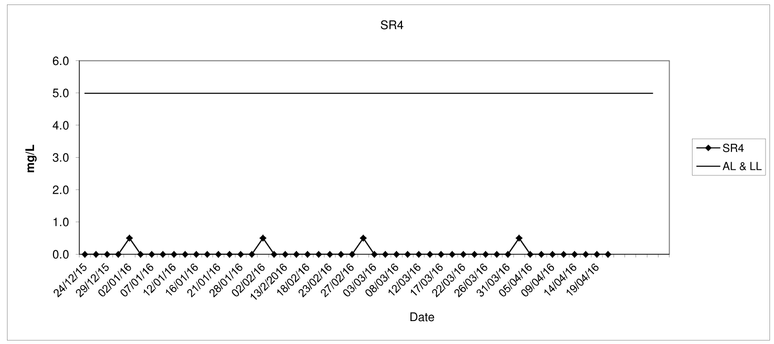


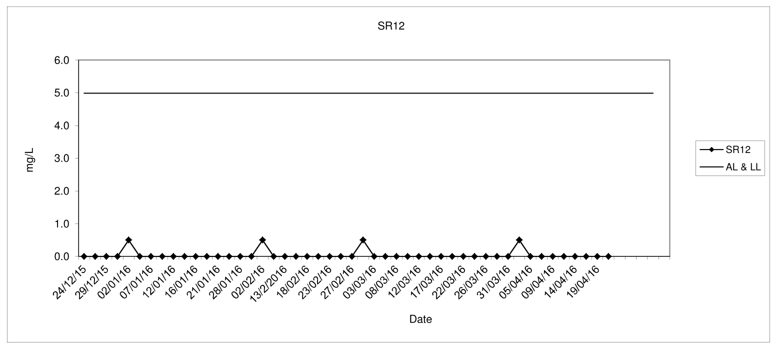




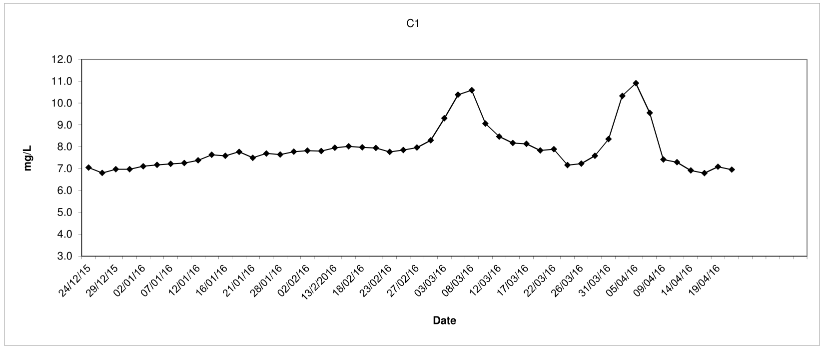
Synthetic Detergent (Depth average) at Mid-Ebb Tide

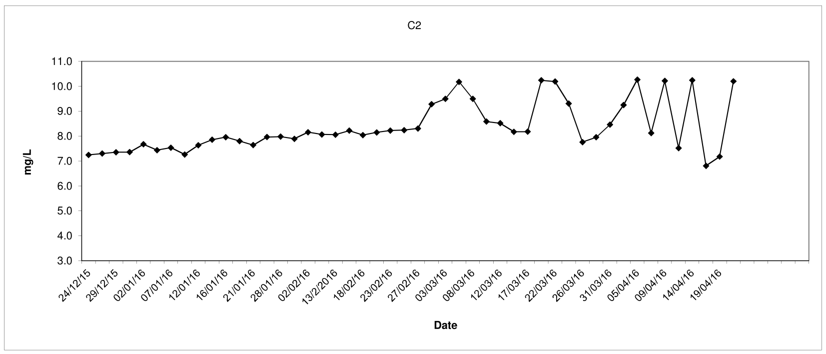


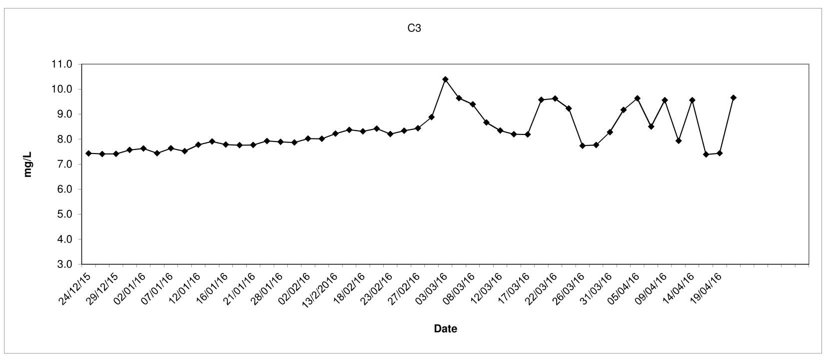




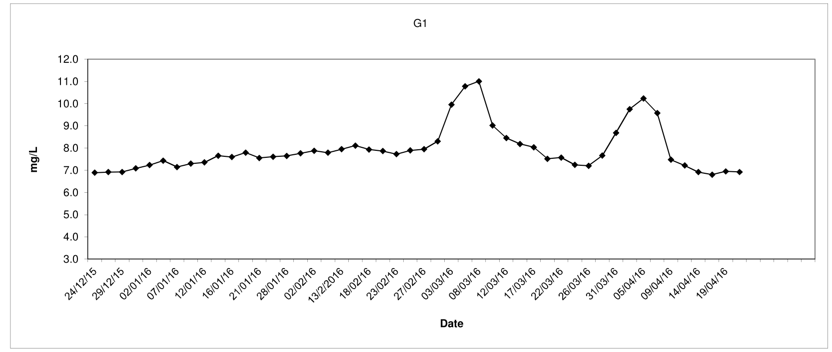
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

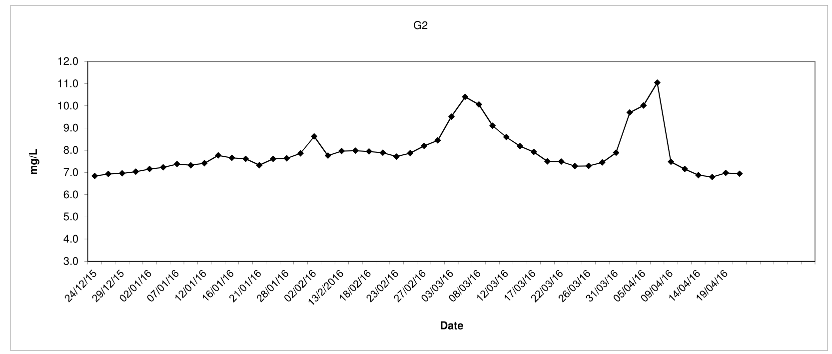


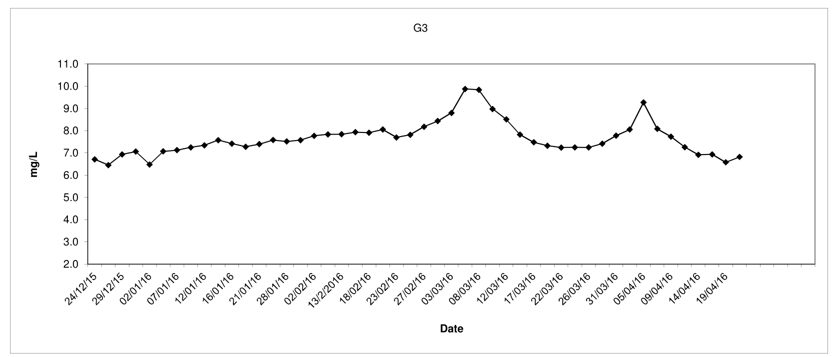




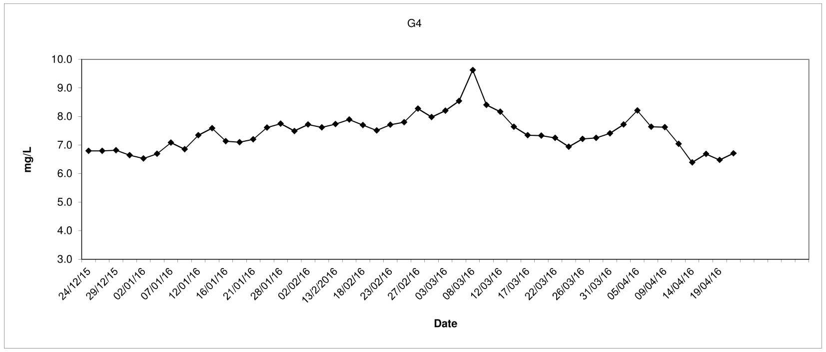
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

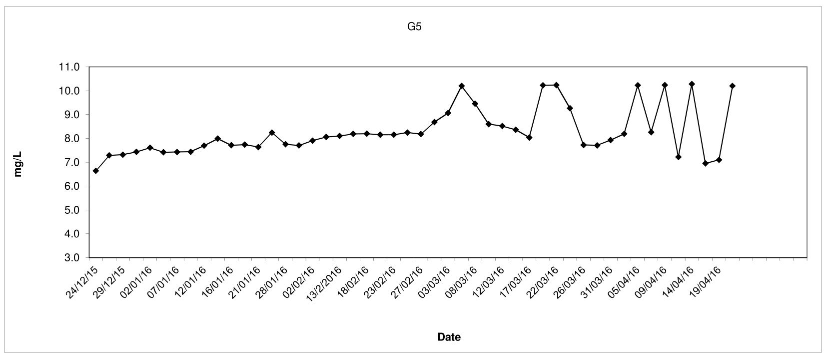


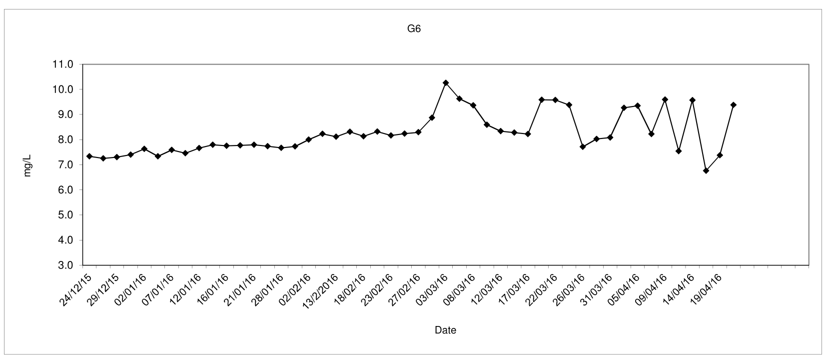




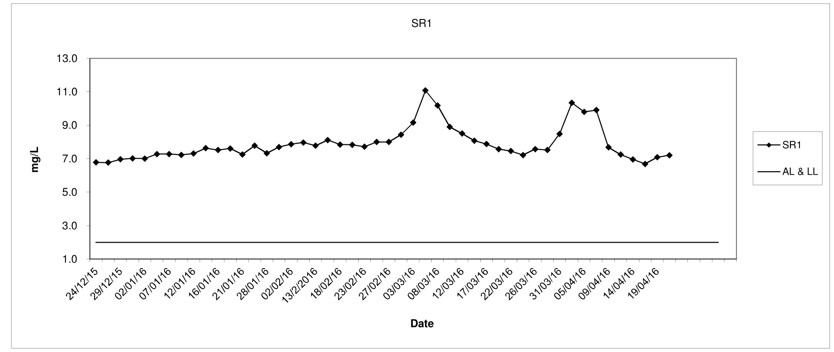
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

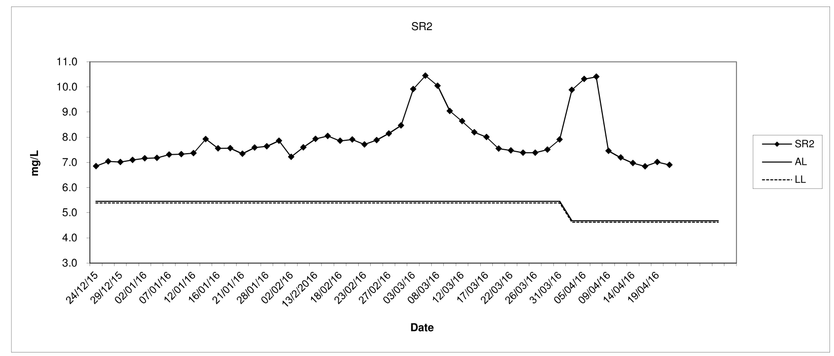


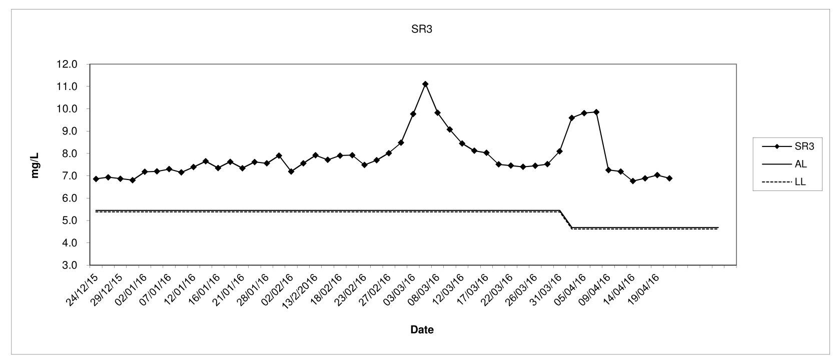




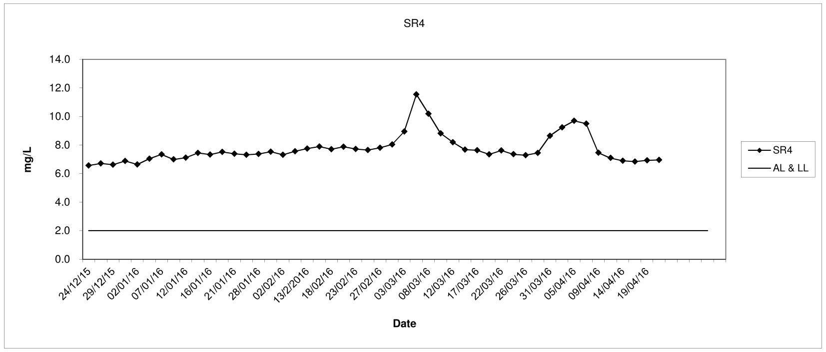
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

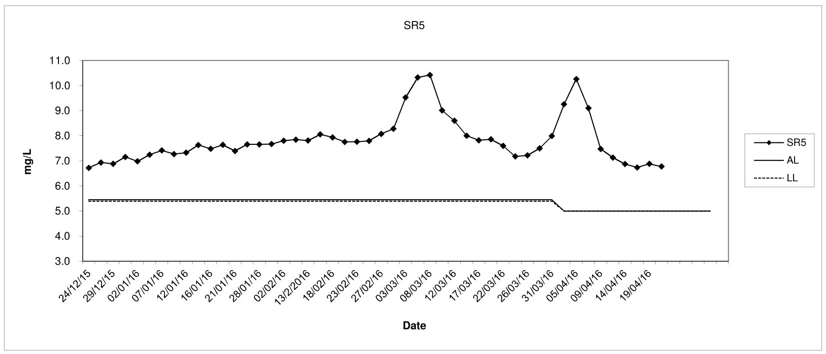


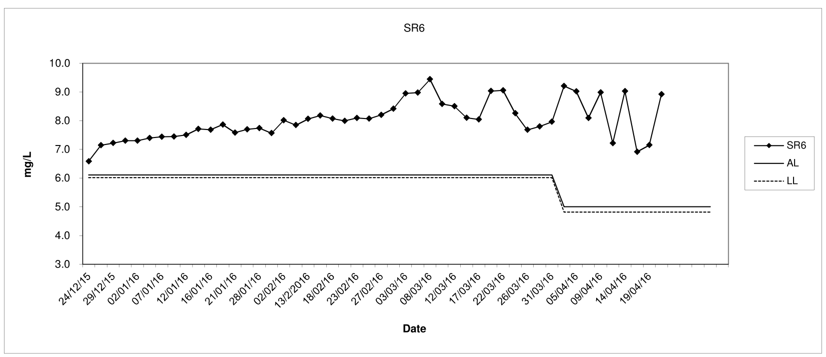




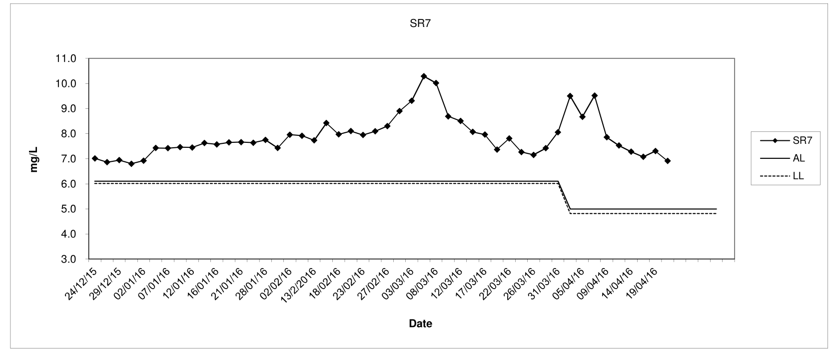
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

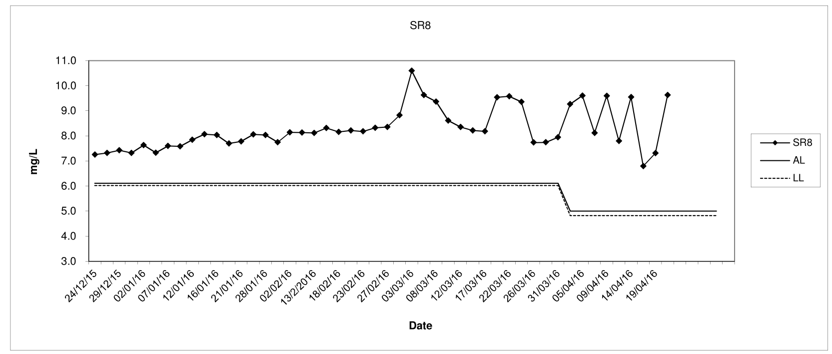


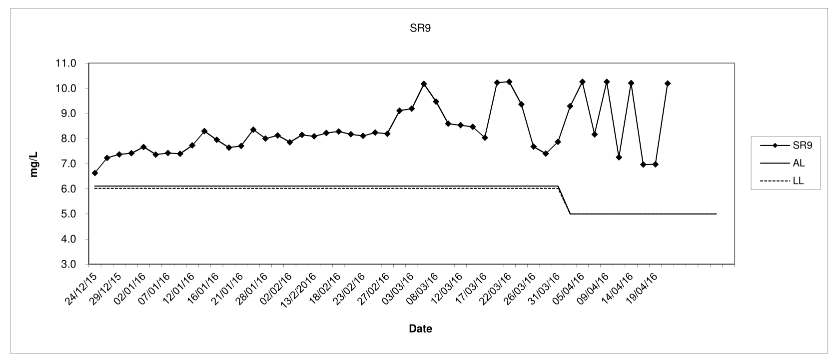




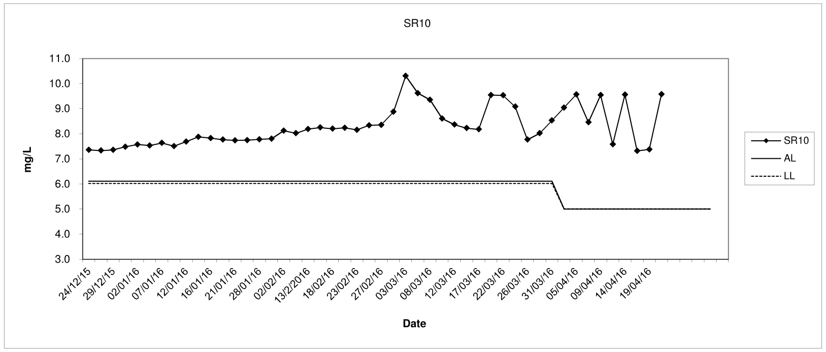
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

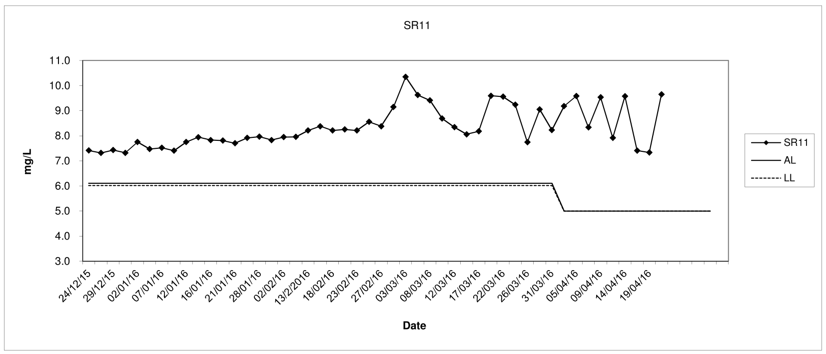


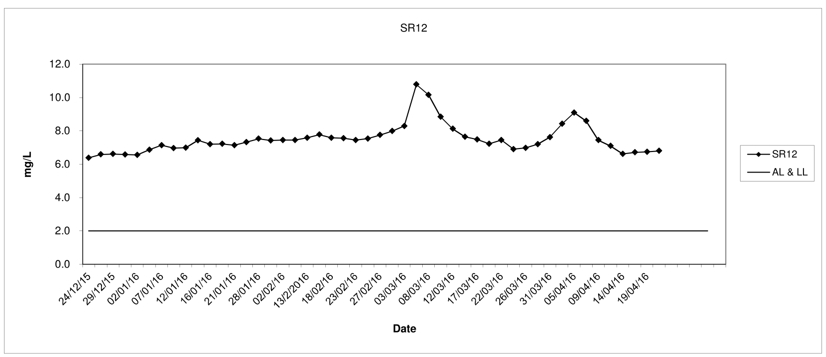




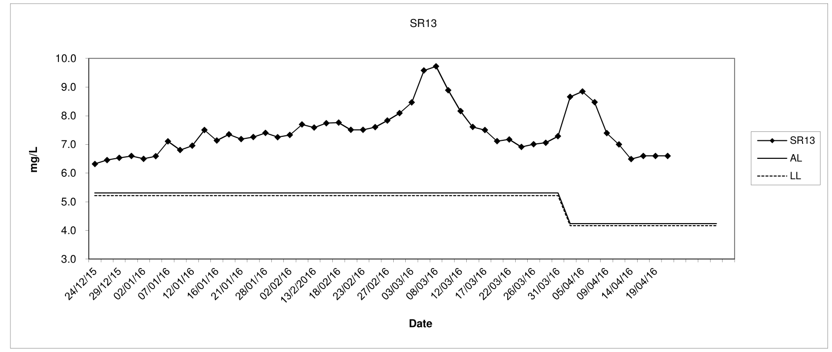
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



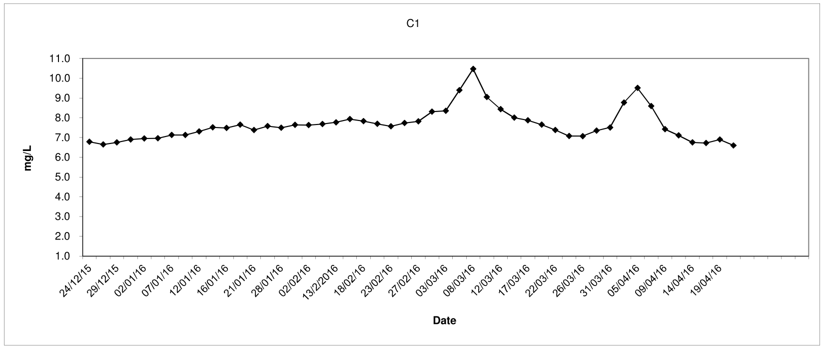


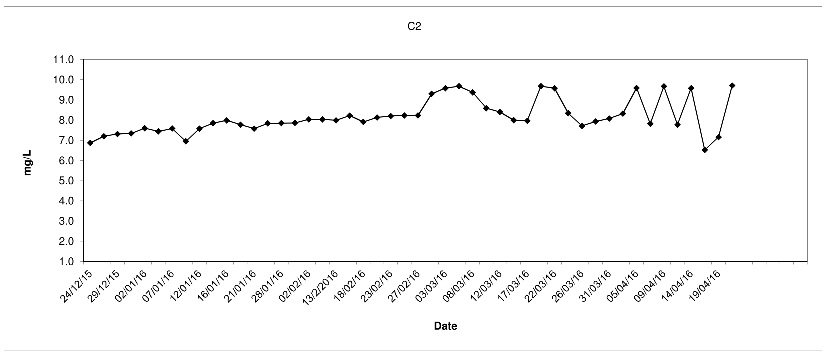


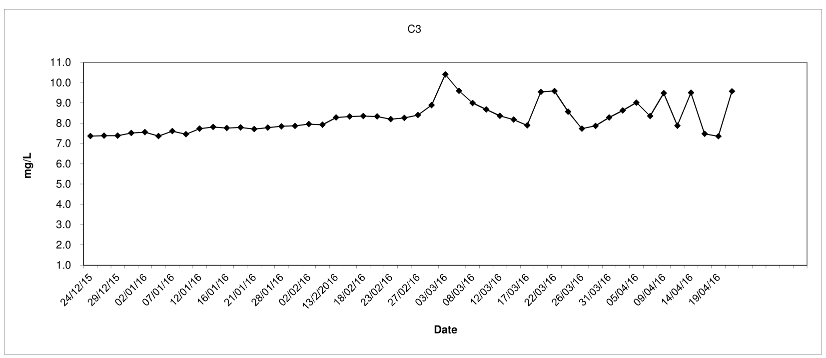
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



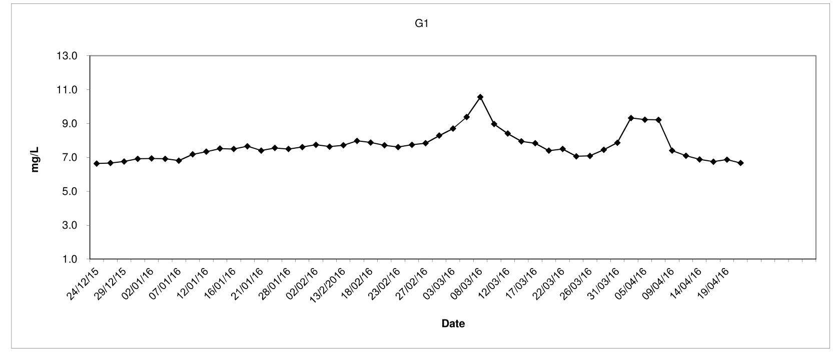
Dissolved Oxygen (Bottom) at Mid-Flood Tide

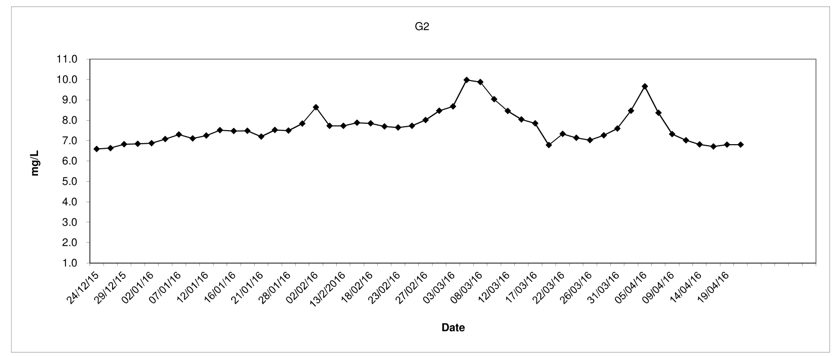


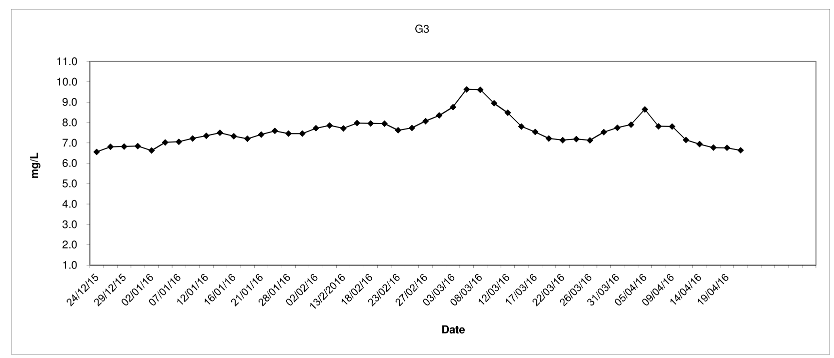




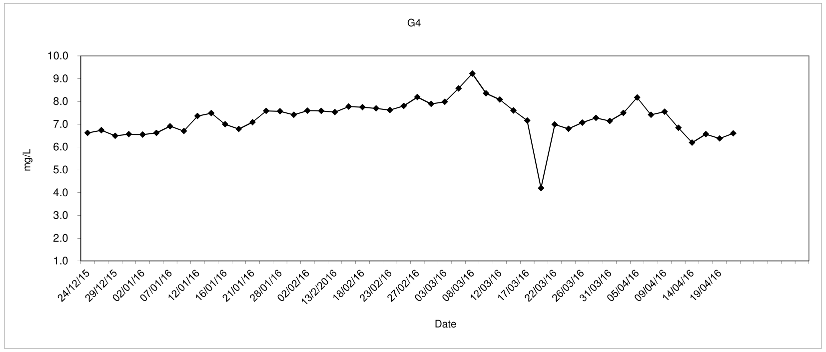
Dissolved Oxygen (Bottom) at Mid-Flood Tide

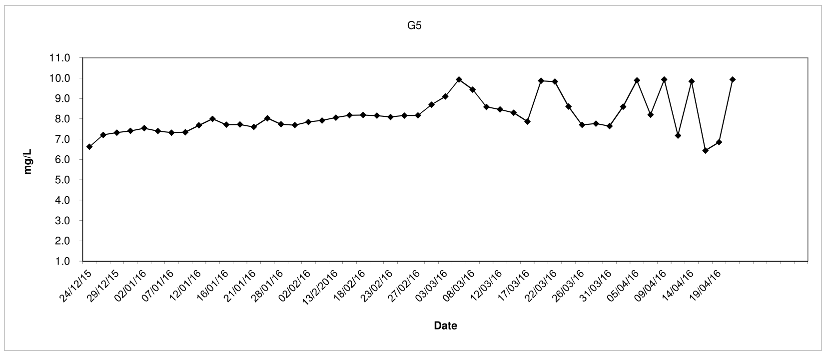


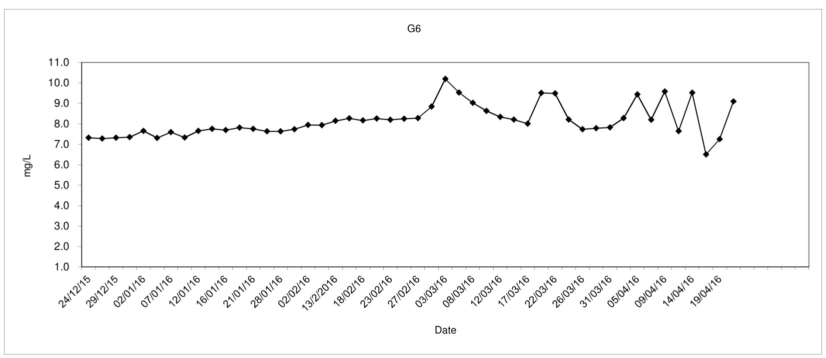




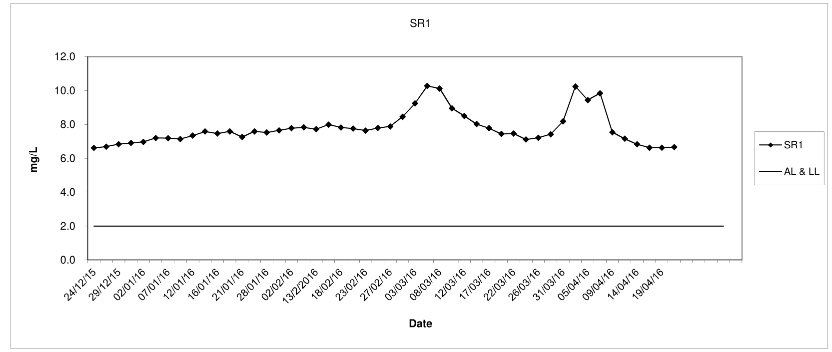
Dissolved Oxygen (Bottom) at Mid-Flood Tide

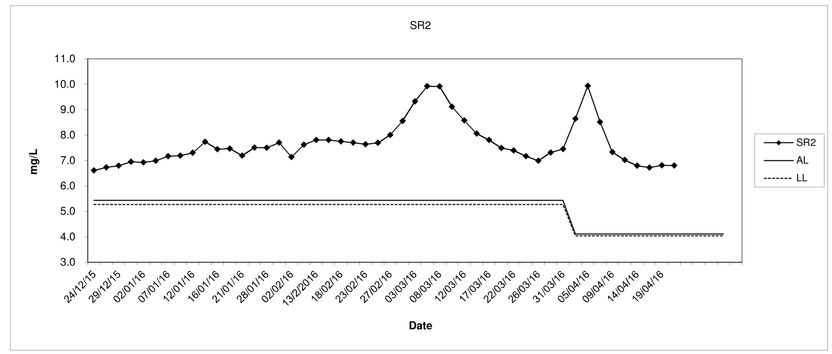


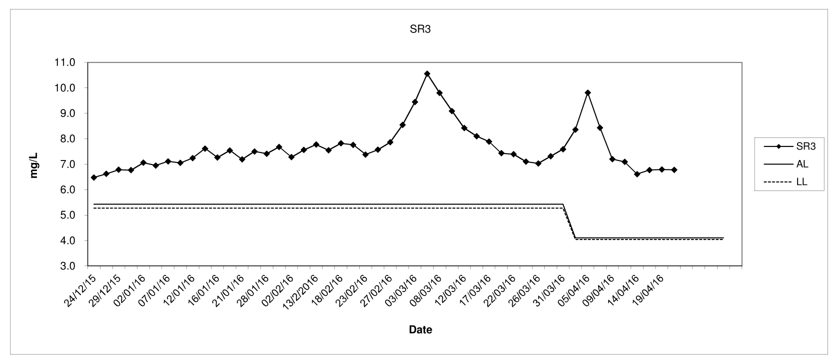




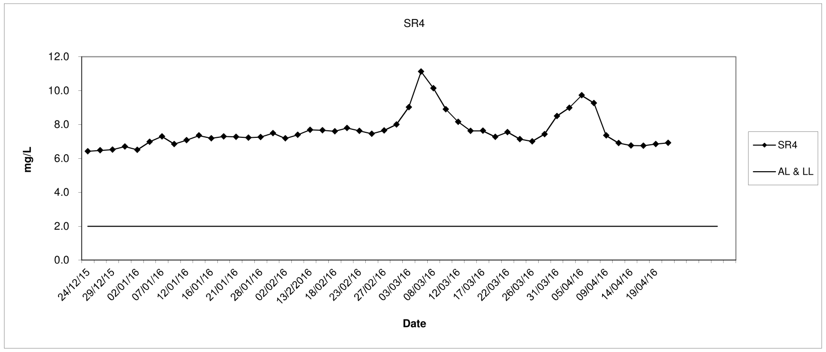
Dissolved Oxygen (Bottom) at Mid-Flood Tide

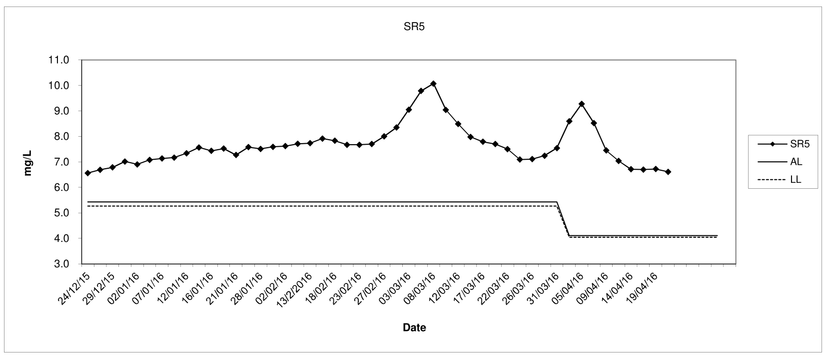


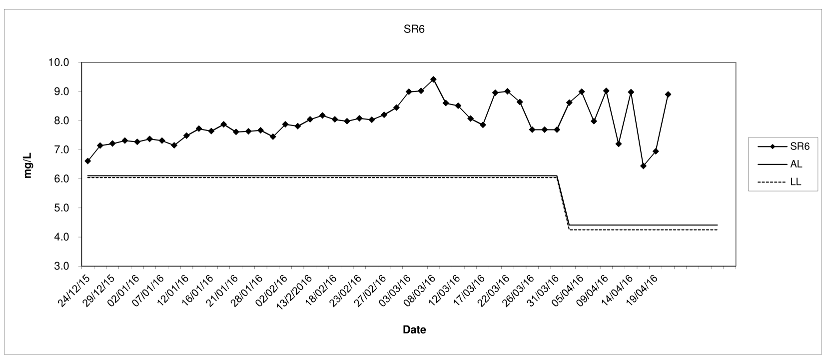




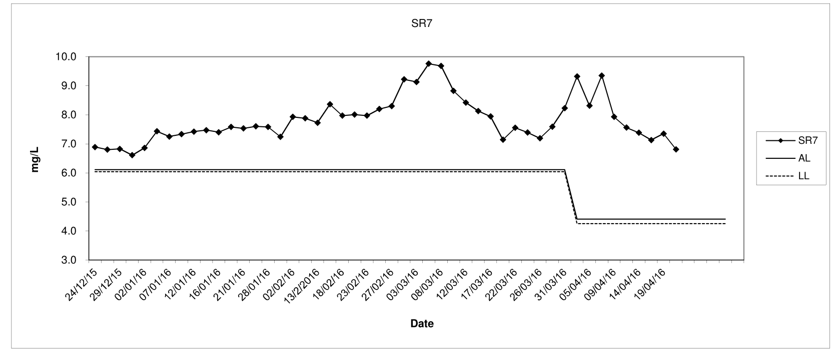
Dissolved Oxygen (Bottom) at Mid-Flood Tide

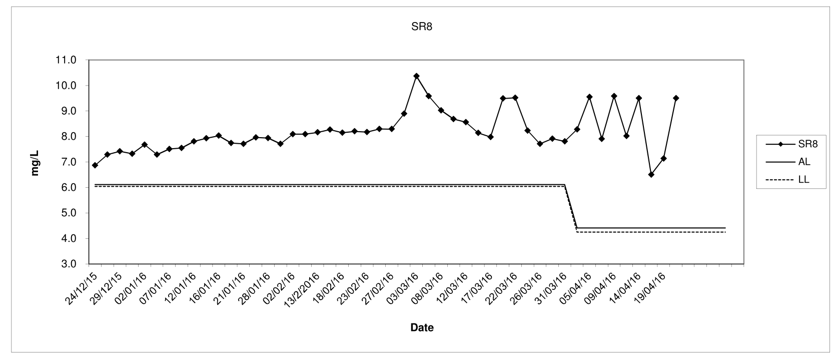


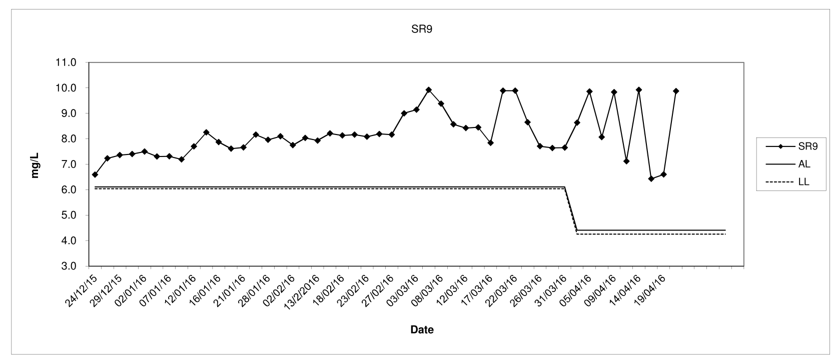




Dissolved Oxygen (Bottom) at Mid-Flood Tide

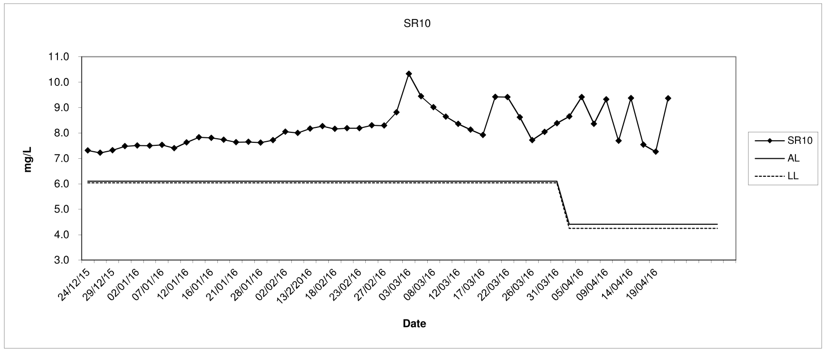


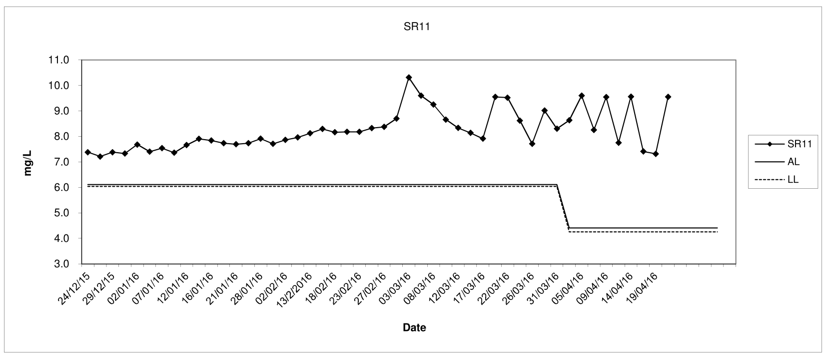


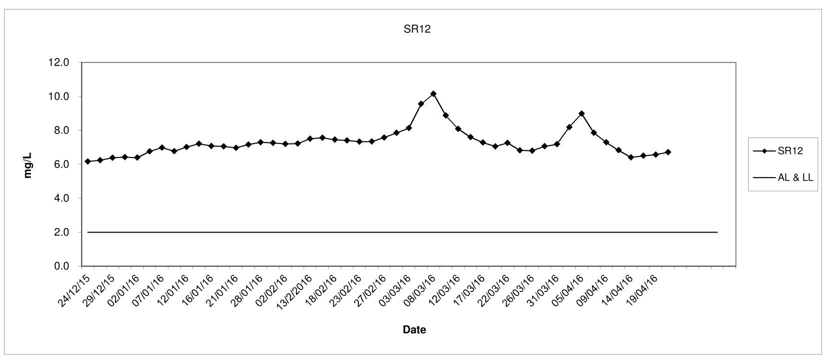


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

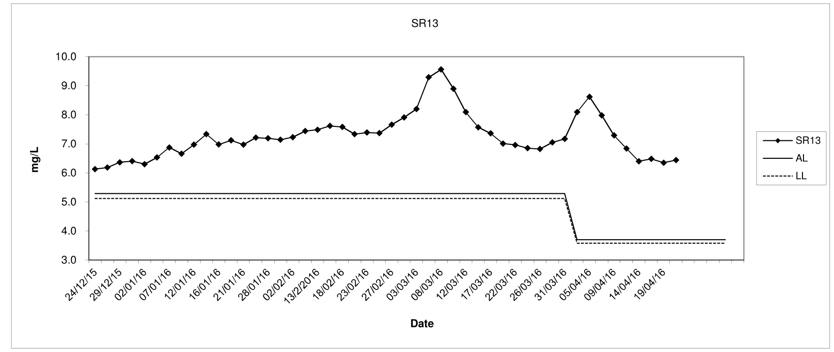
Dissolved Oxygen (Bottom) at Mid-Flood Tide





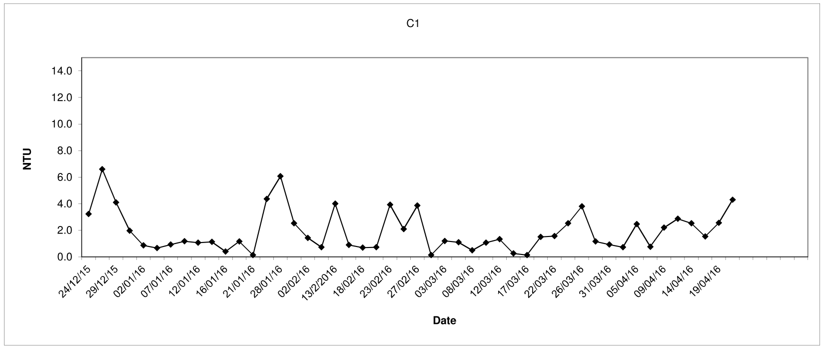


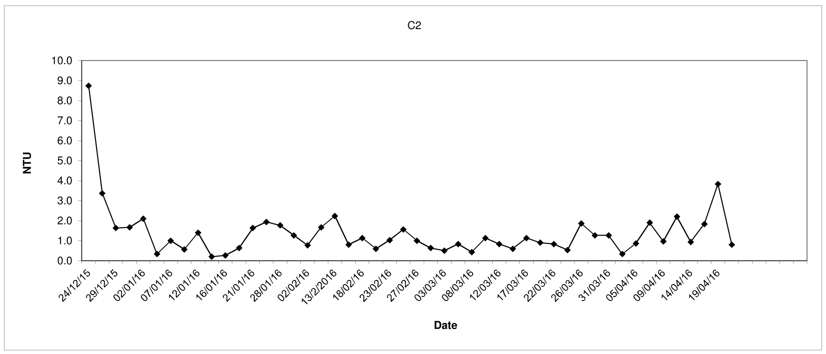
Dissolved Oxygen (Bottom) at Mid-Flood Tide

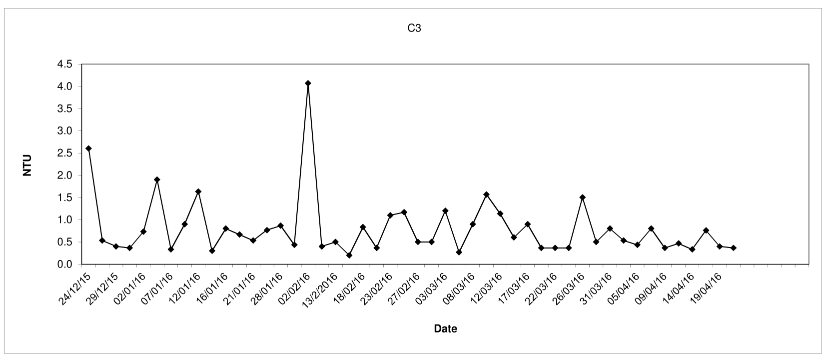


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

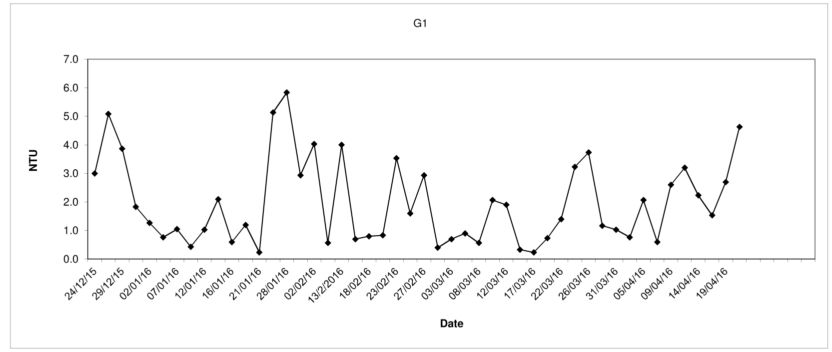
Turbidity (Depth average) at Mid-Flood Tide

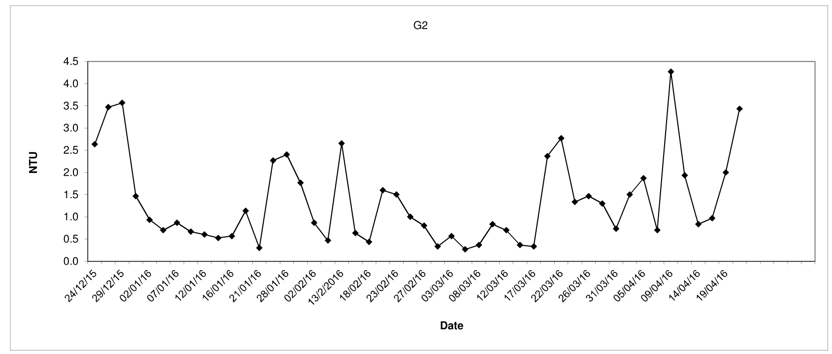


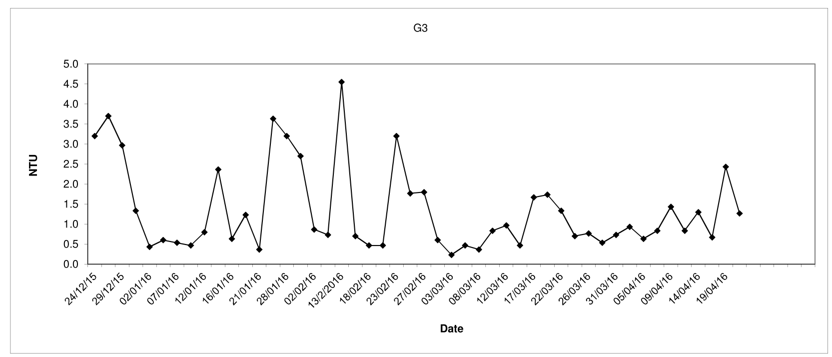




Turbidity (Depth average) at Mid-Flood Tide

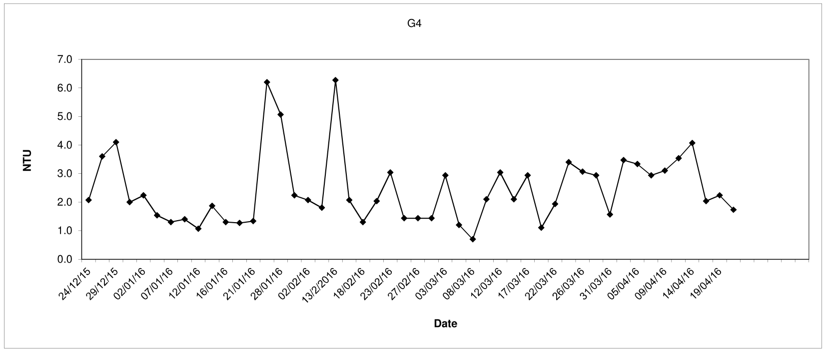


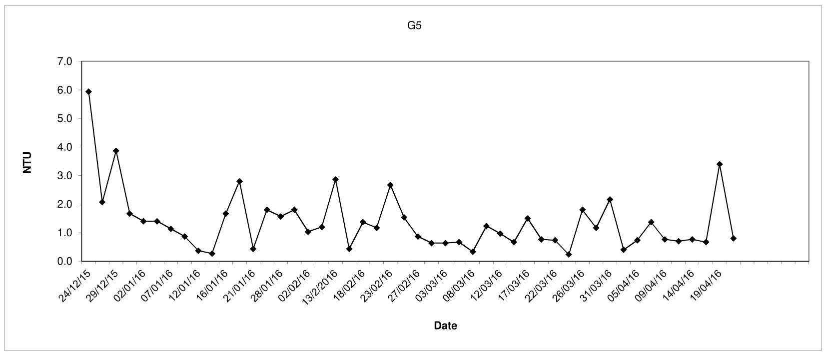


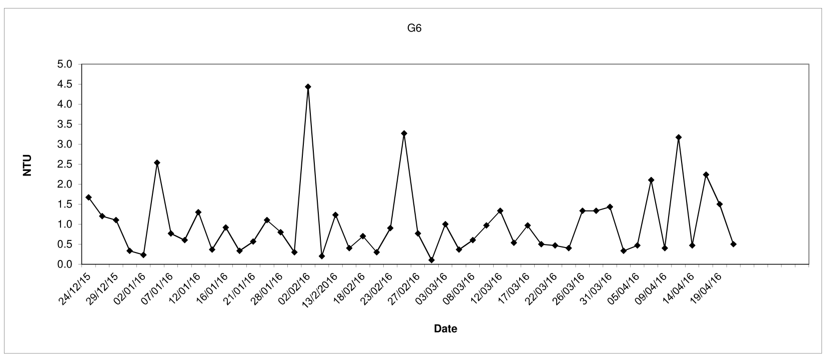


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

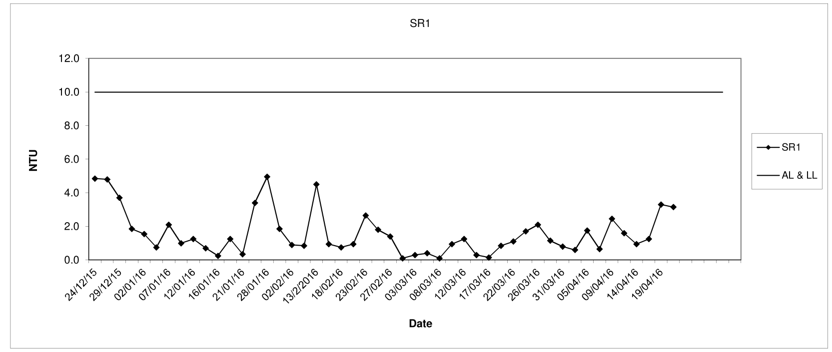
Turbidity (Depth average) at Mid-Flood Tide

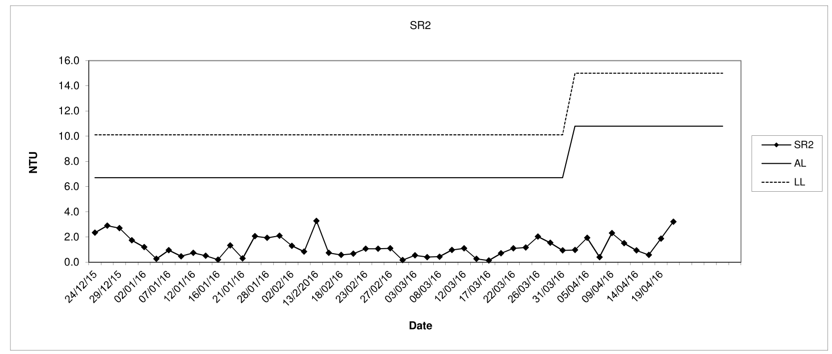


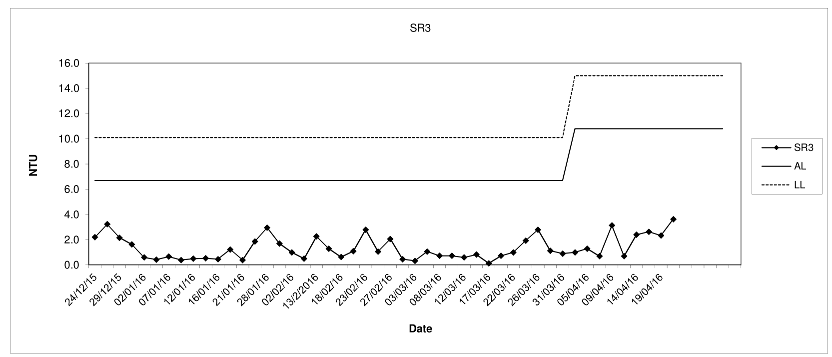




Turbidity (Depth average) at Mid-Flood Tide

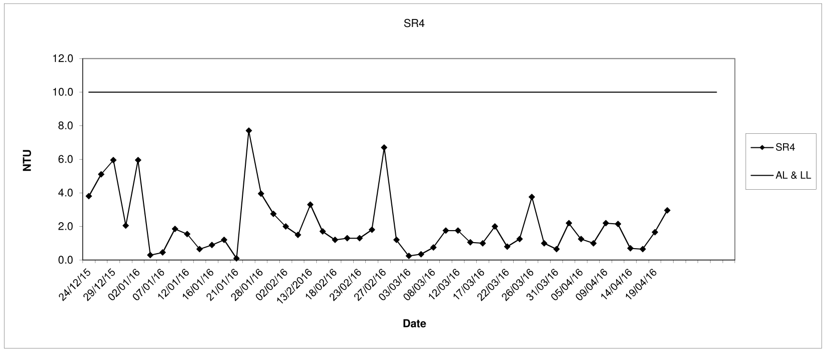


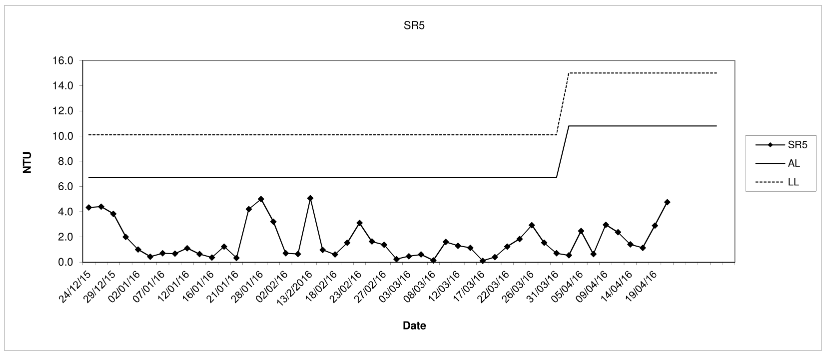


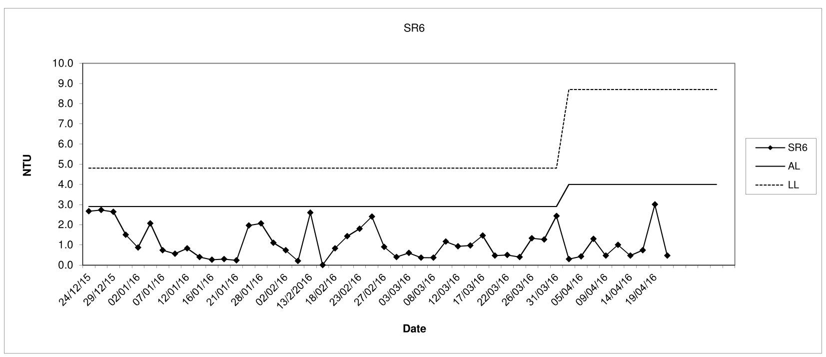


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

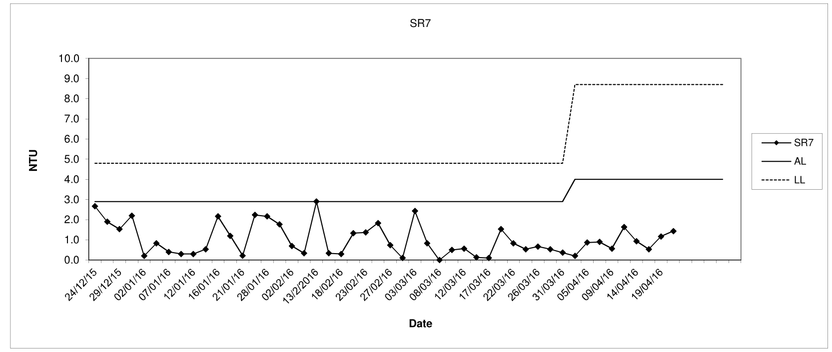
Turbidity (Depth average) at Mid-Flood Tide

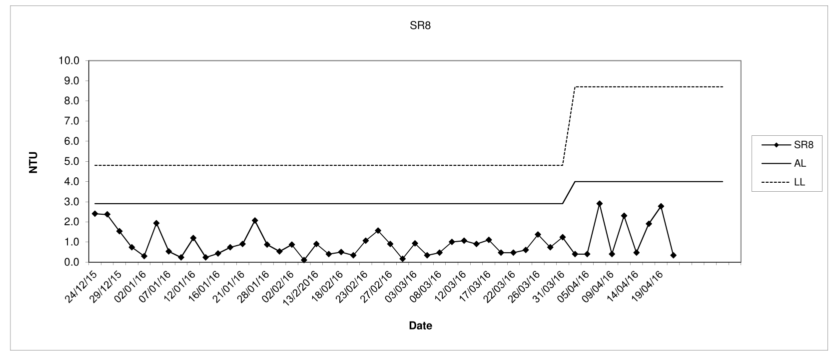


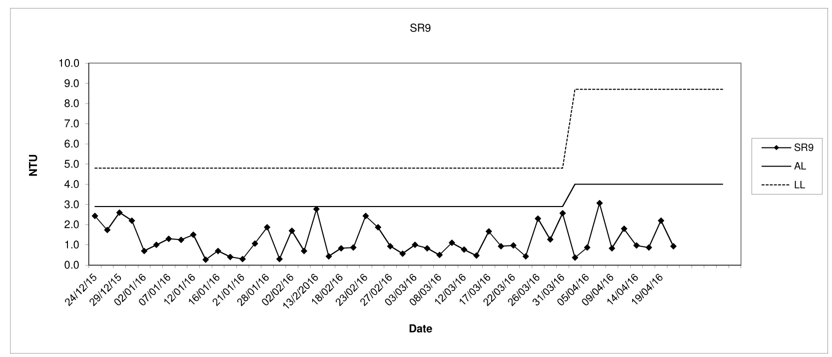




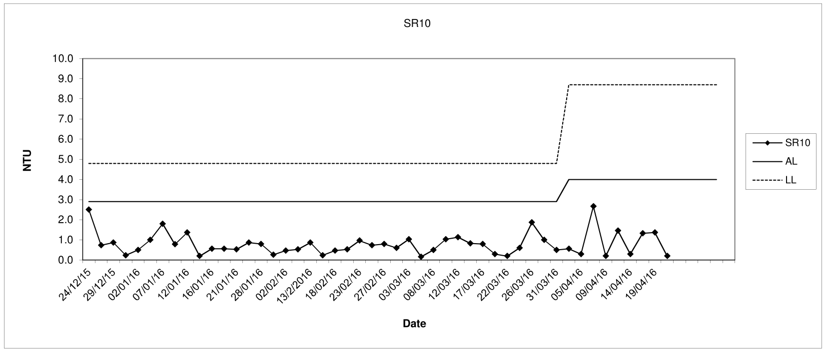
Turbidity (Depth average) at Mid-Flood Tide

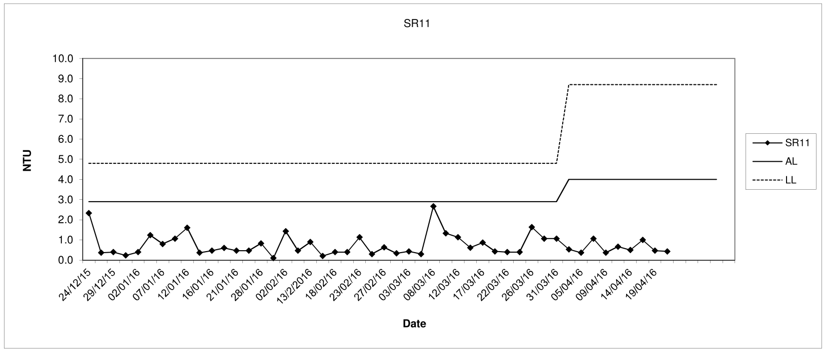


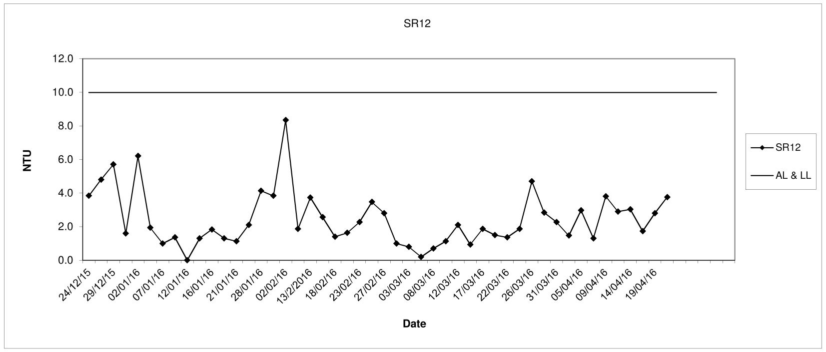




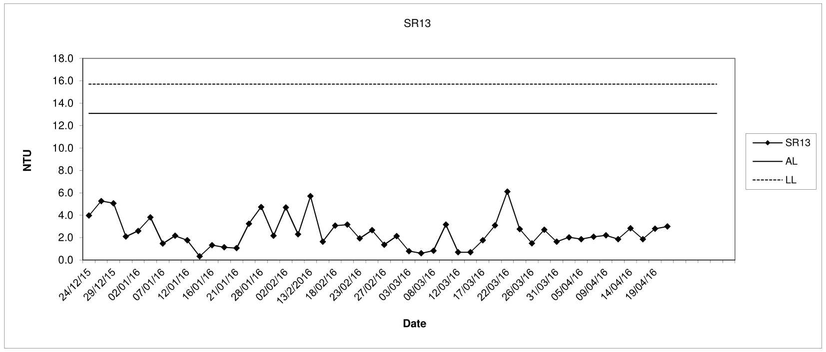
Turbidity (Depth average) at Mid-Flood Tide



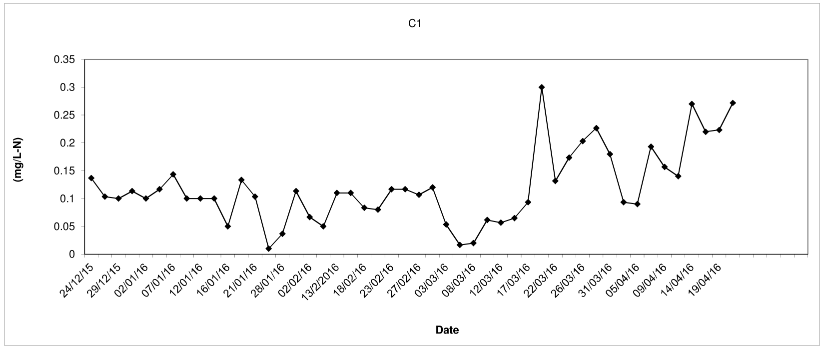


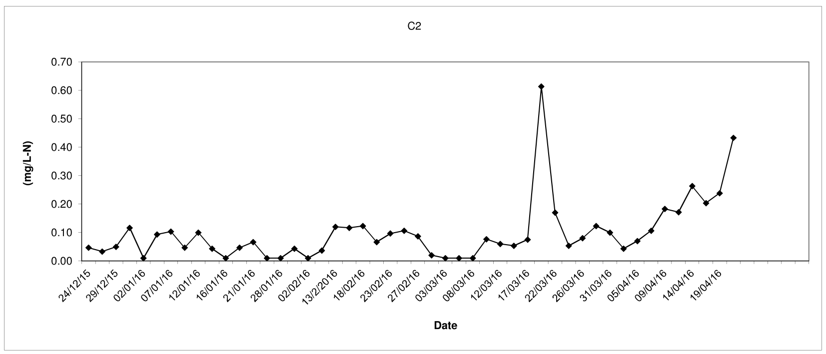


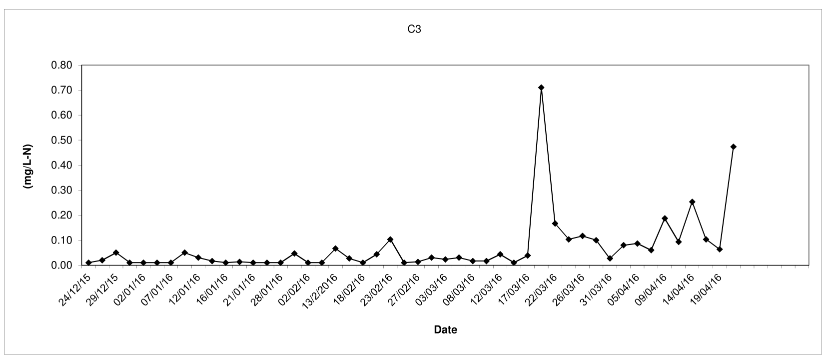
Turbidity (Depth average) at Mid-Flood Tide



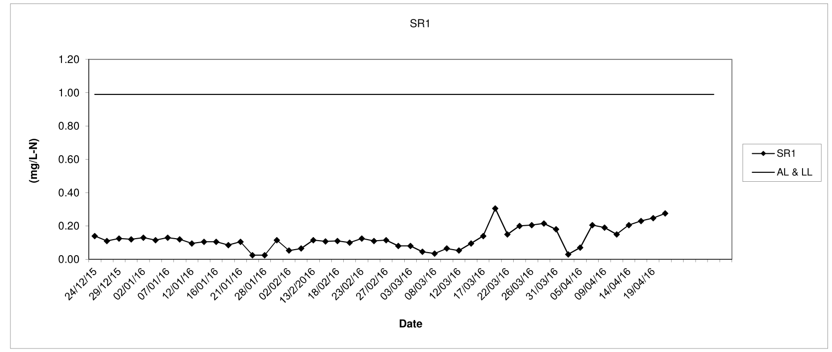
In-situ Ammonia (Depth average) at Mid-Flood Tide

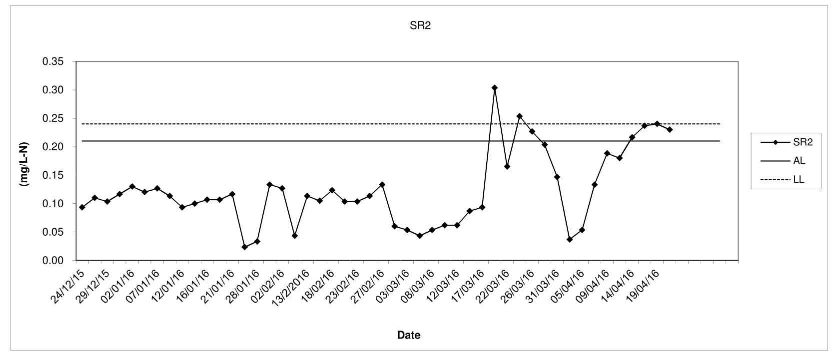


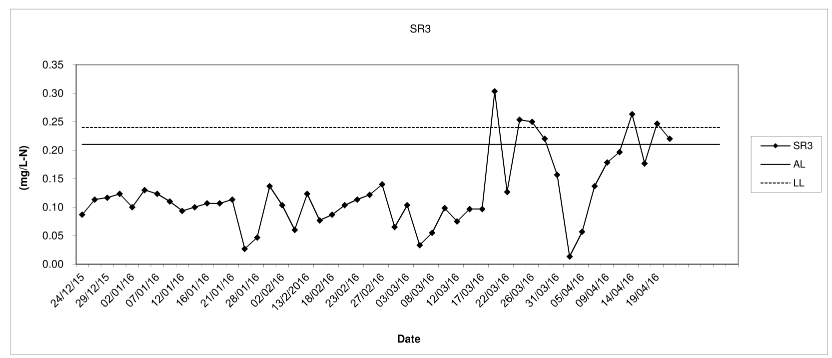




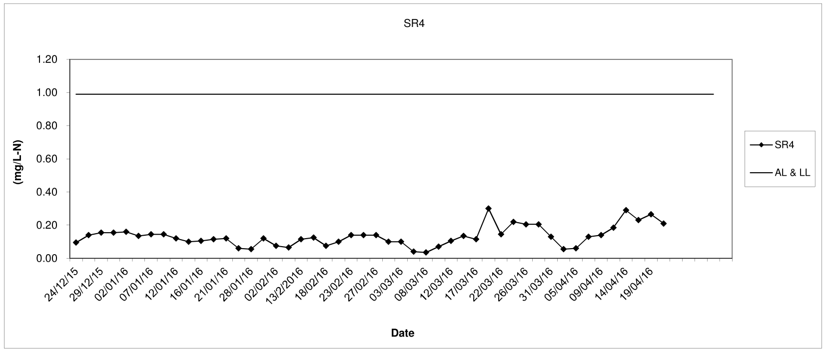
In-situ Ammonia (Depth average) at Mid-Flood Tide

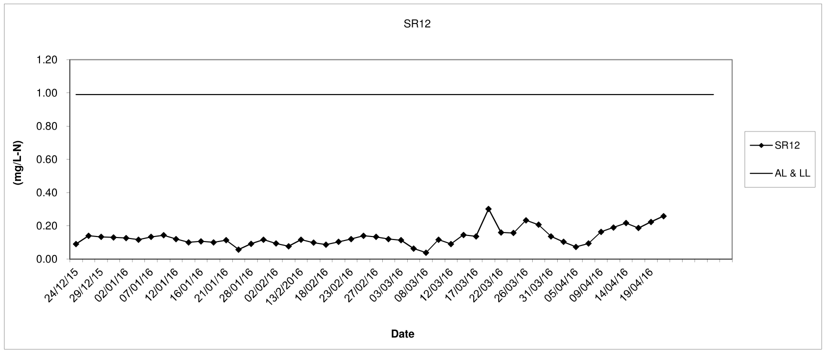




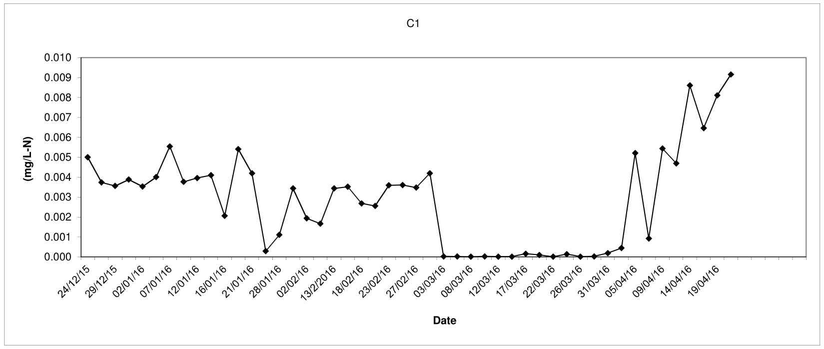


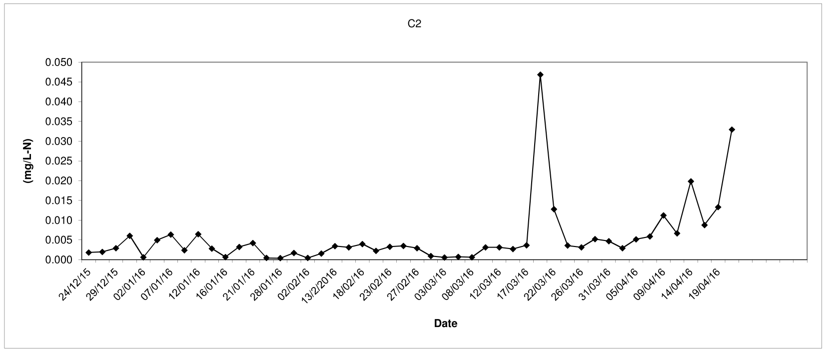
In-situ Ammonia (Depth average) at Mid-Flood Tide

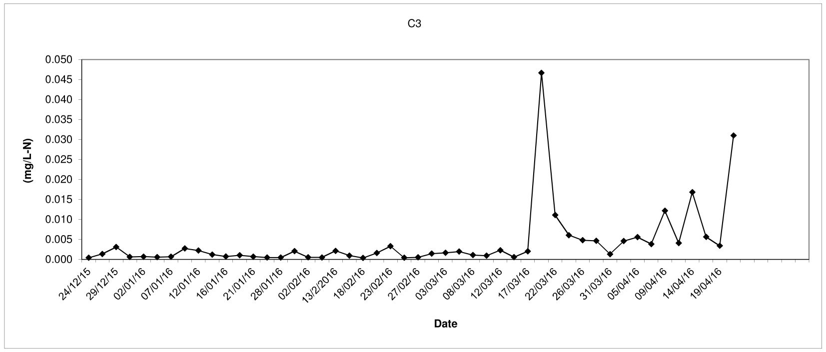




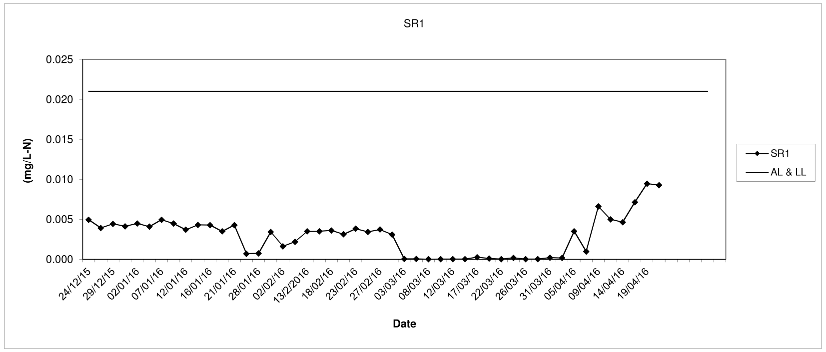
In-situ UIA (Depth average) at Mid-Flood Tide

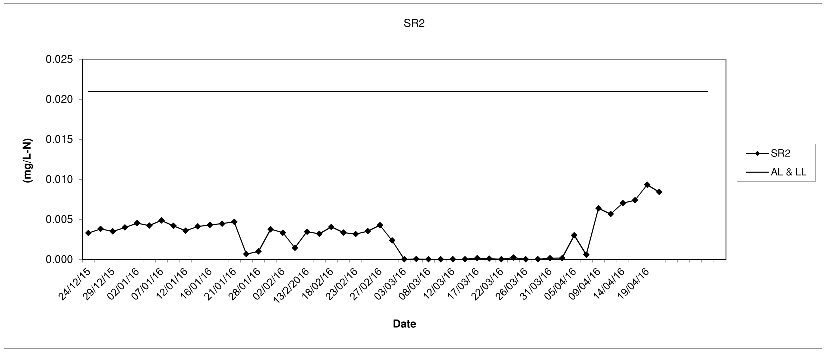


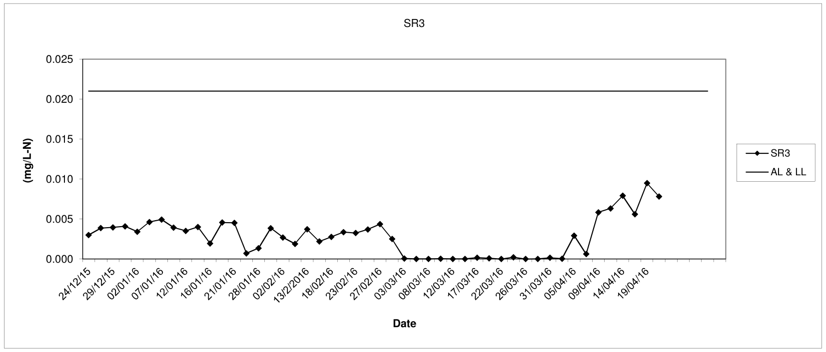




In-situ UIA (Depth average) at Mid-Flood Tide

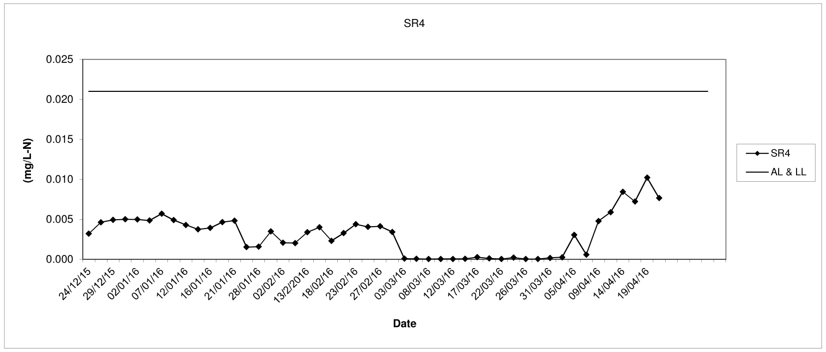


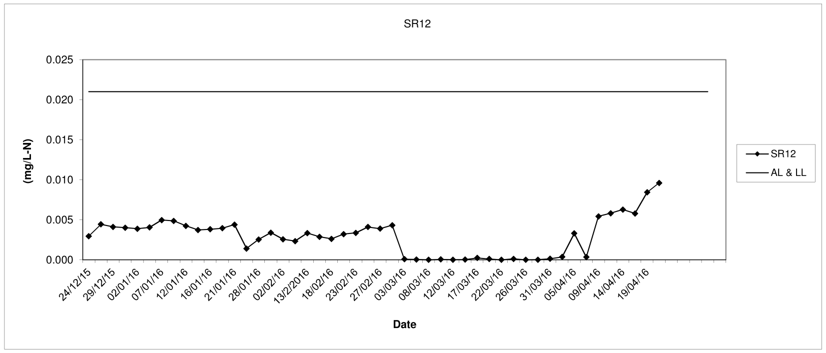




Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

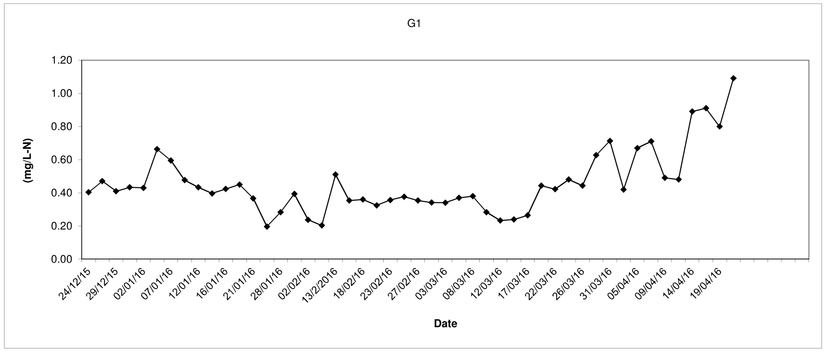
In-situ UIA (Depth average) at Mid-Flood Tide

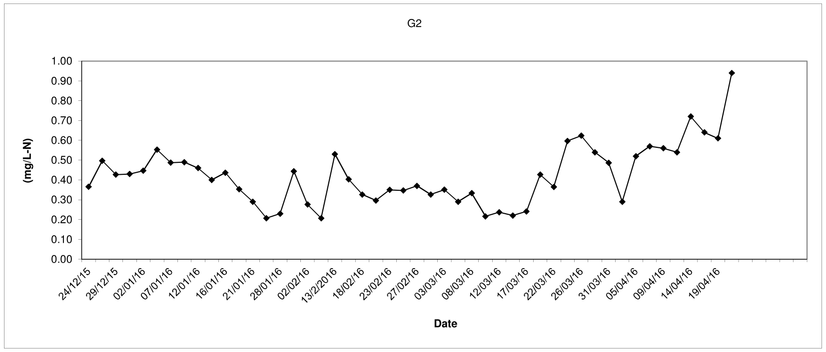


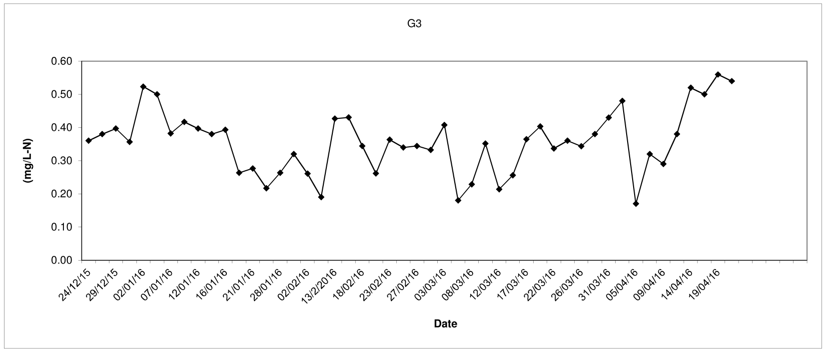


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

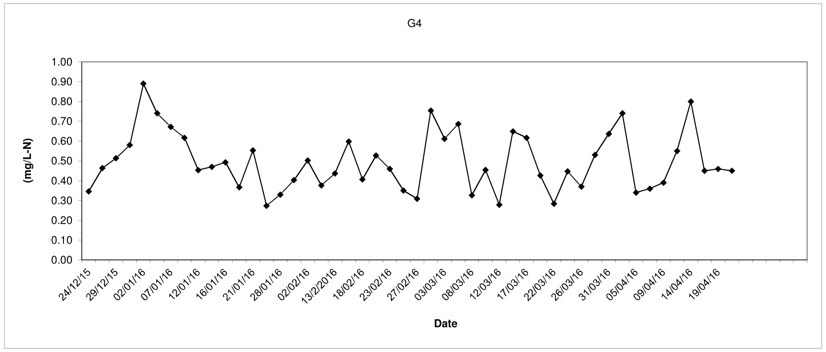
In-situ TIN (Depth average) at Mid-Flood Tide

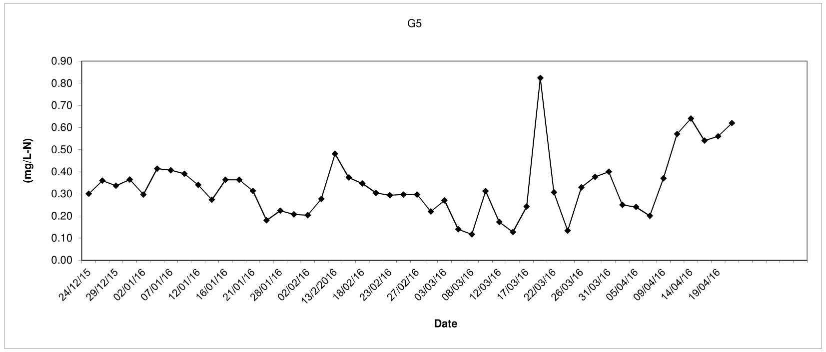


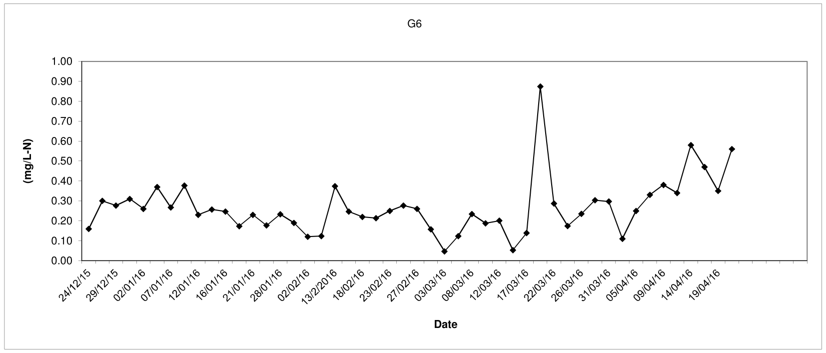




In-situ TIN (Depth average) at Mid-Flood Tide

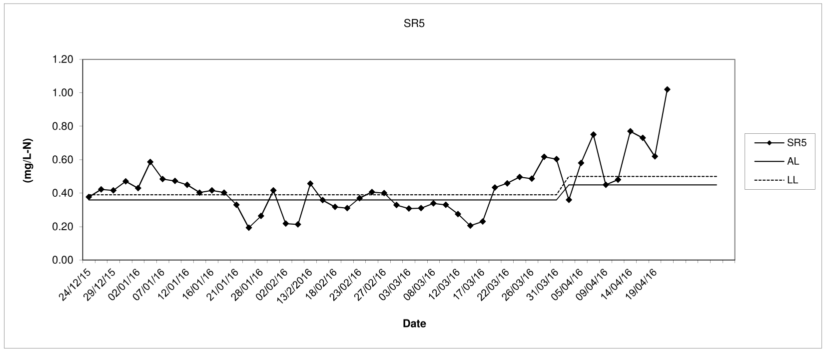


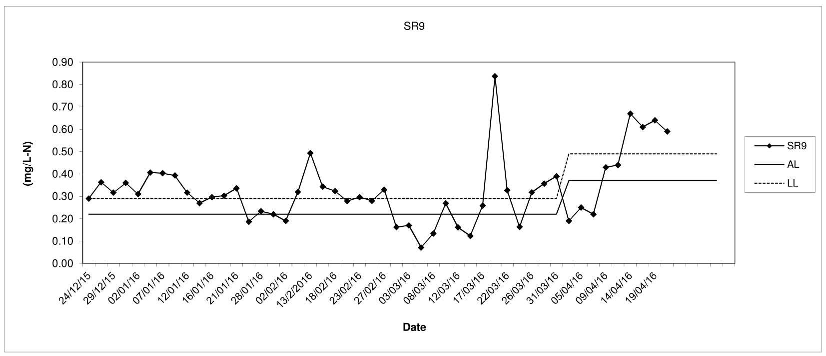


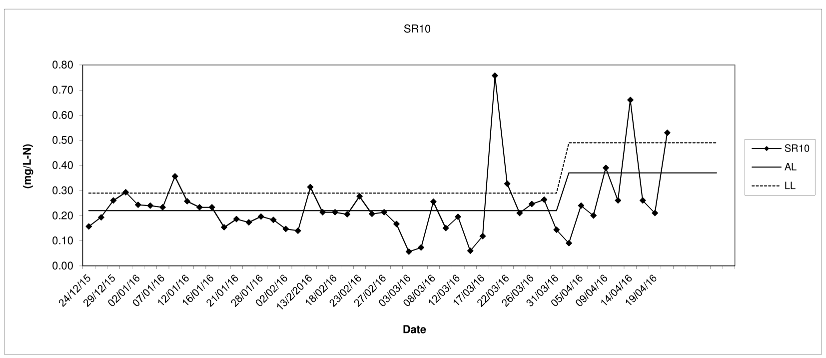


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

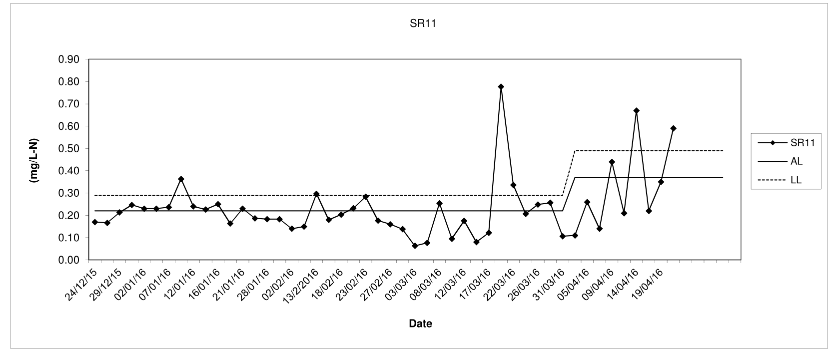
In-situ TIN (Depth average) at Mid-Flood Tide



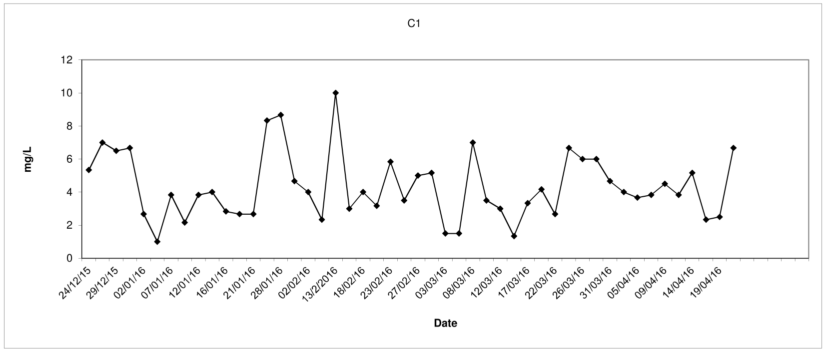


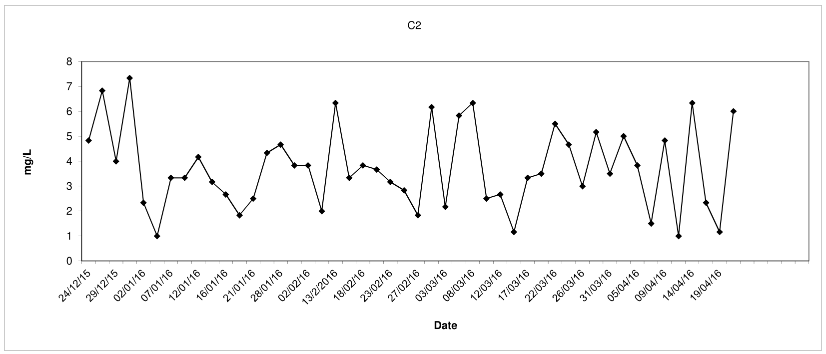


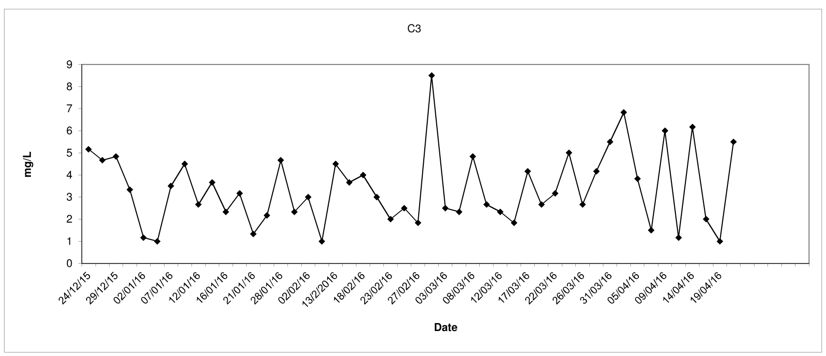
In-situ TIN (Depth average) at Mid-Flood Tide



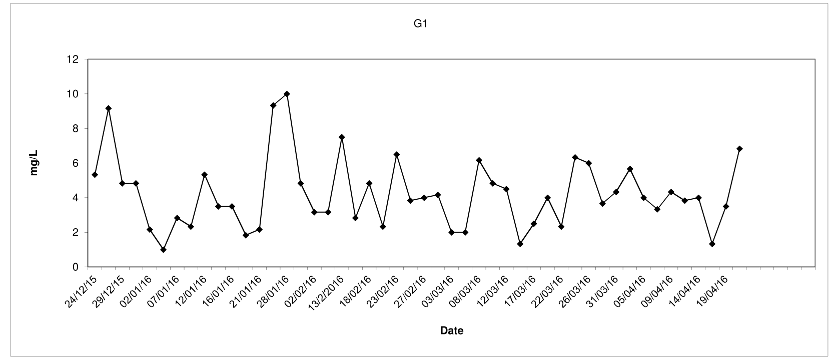
Total Suspended Solids (Depth average) at Mid-Flood Tide

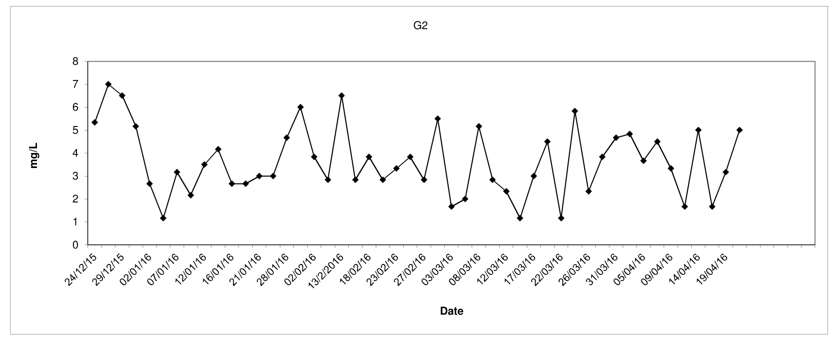


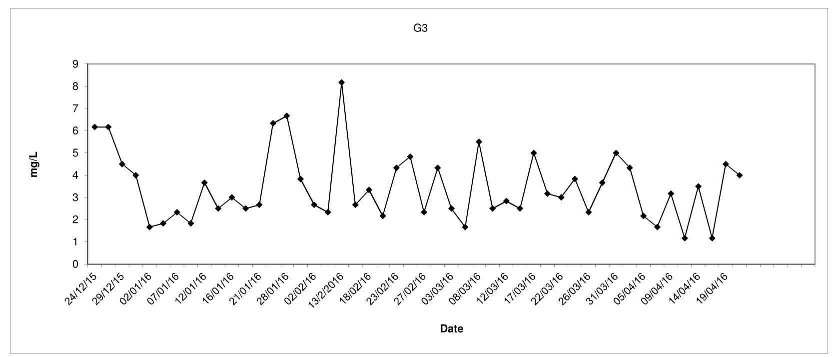




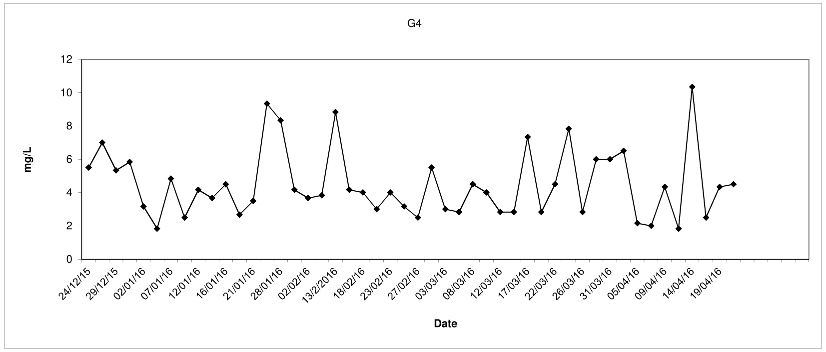
Total Suspended Solids (Depth average) at Mid-Flood Tide

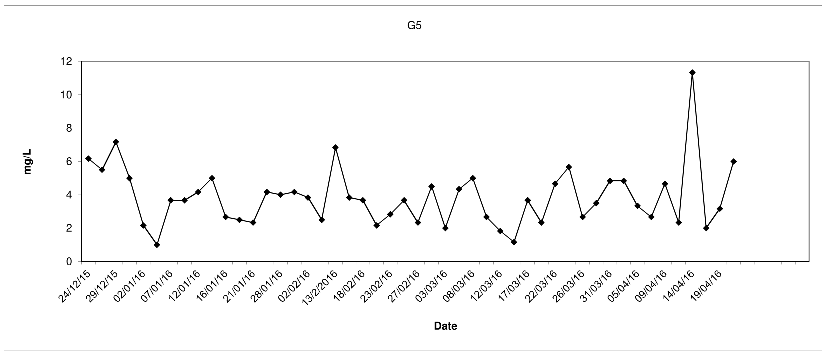


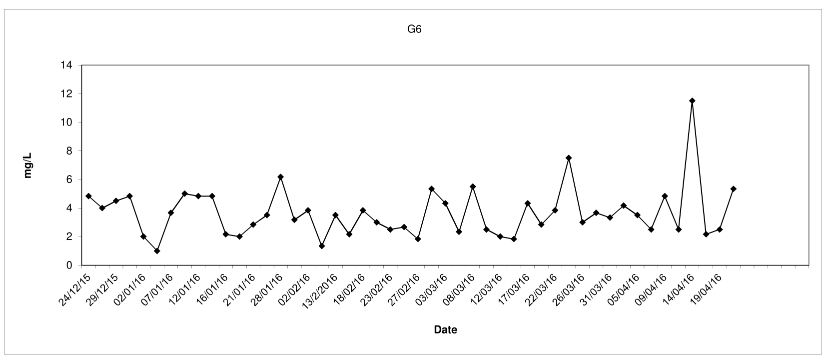




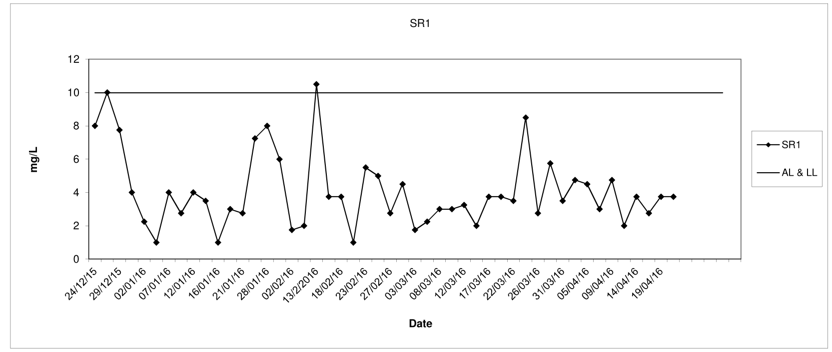
Total Suspended Solids (Depth average) at Mid-Flood Tide

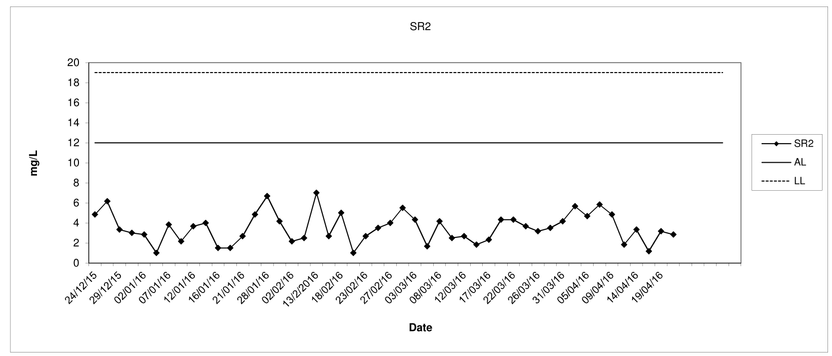


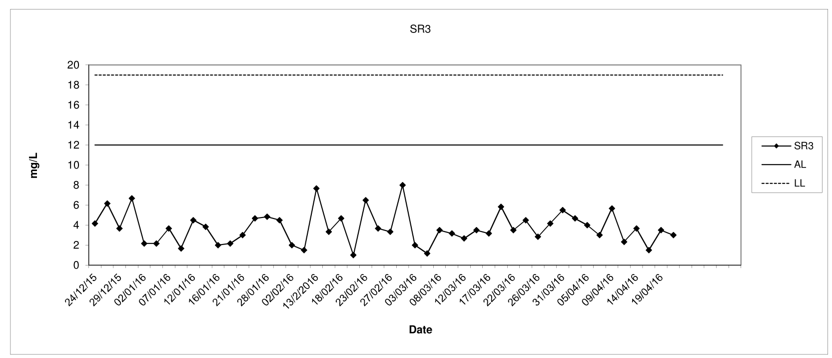




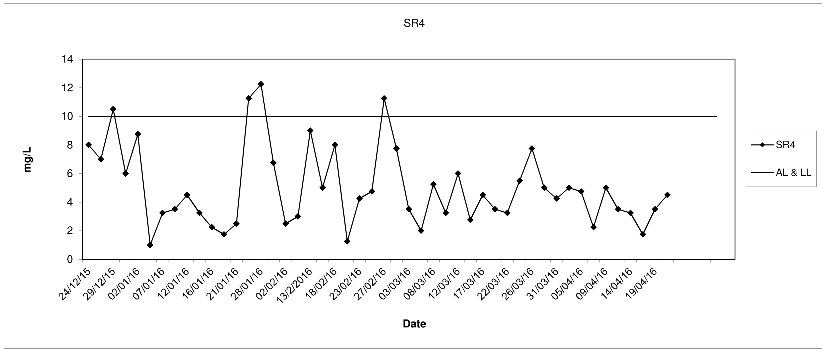
Total Suspended Solids (Depth average) at Mid-Flood Tide

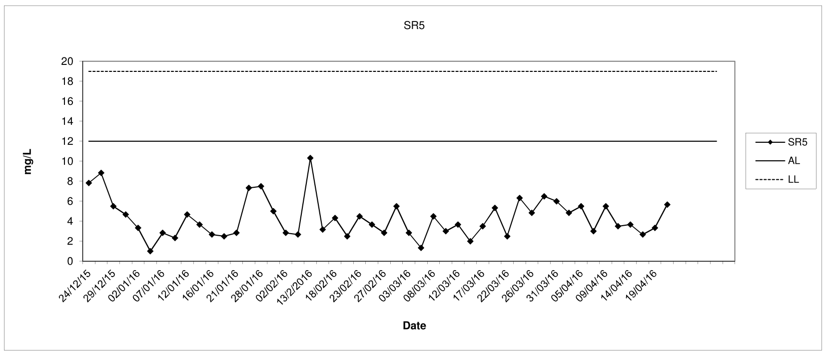


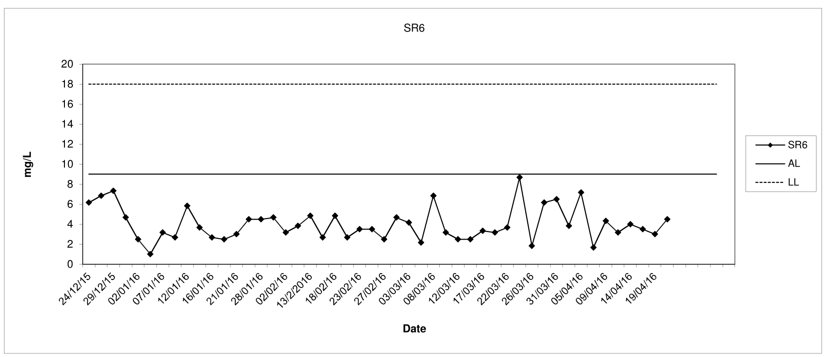




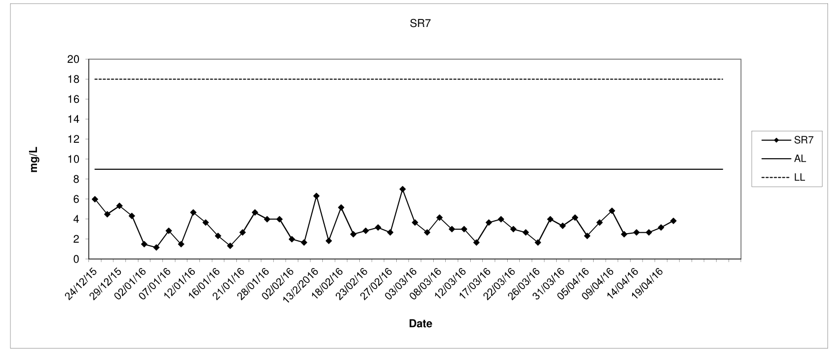
Total Suspended Solids (Depth average) at Mid-Flood Tide

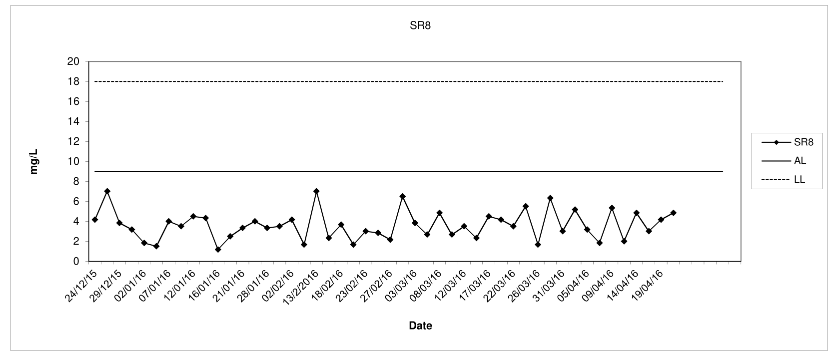


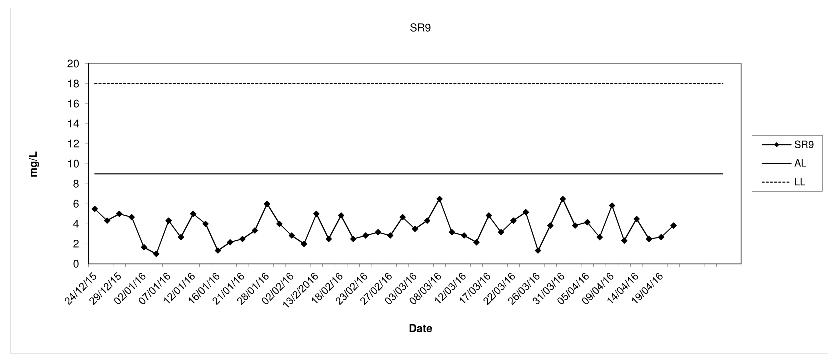




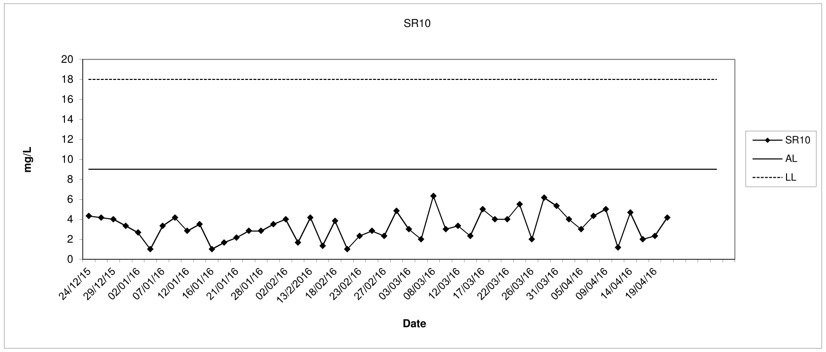
Total Suspended Solids (Depth average) at Mid-Flood Tide

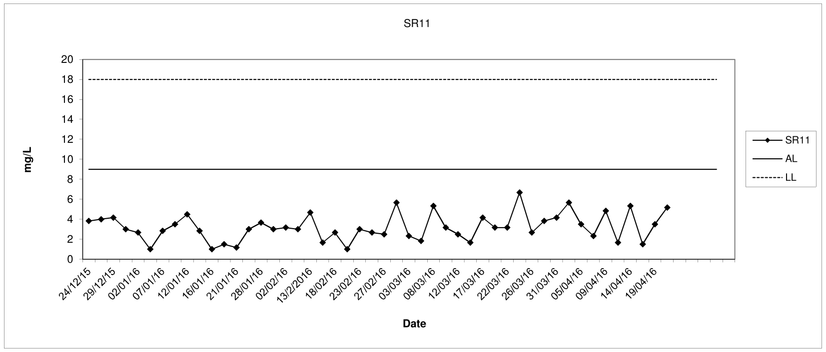


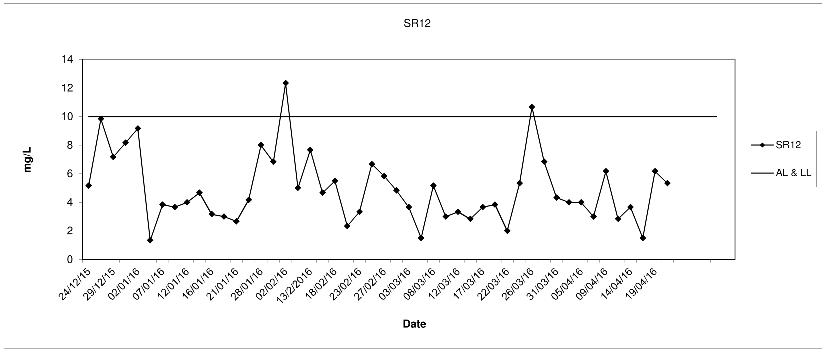




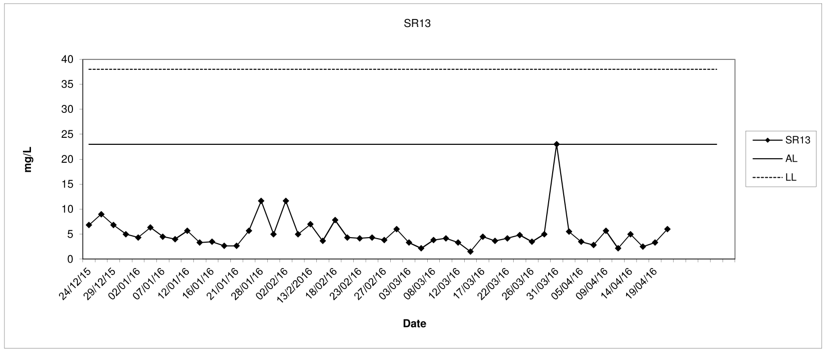
Total Suspended Solids (Depth average) at Mid-Flood Tide



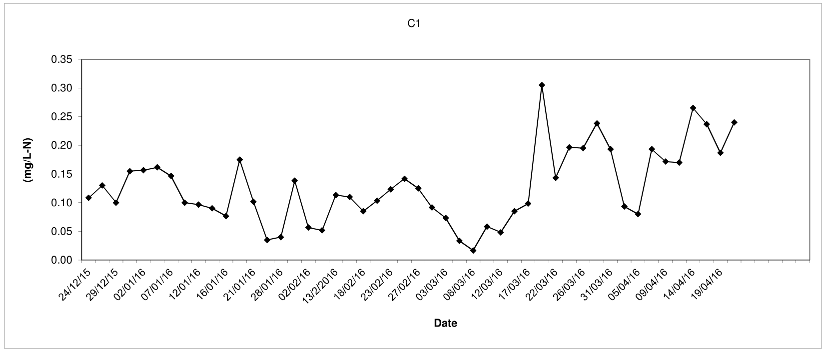


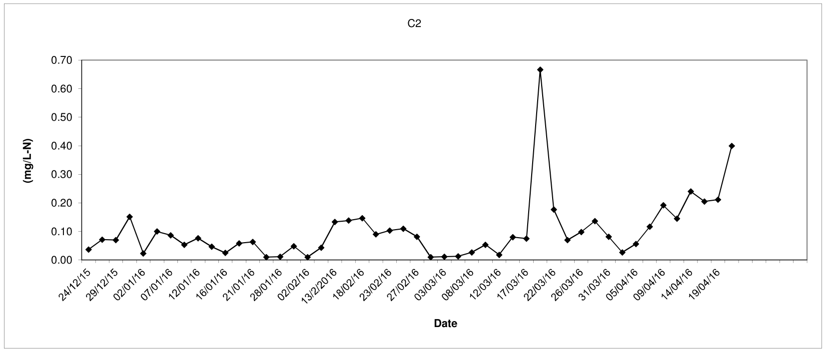


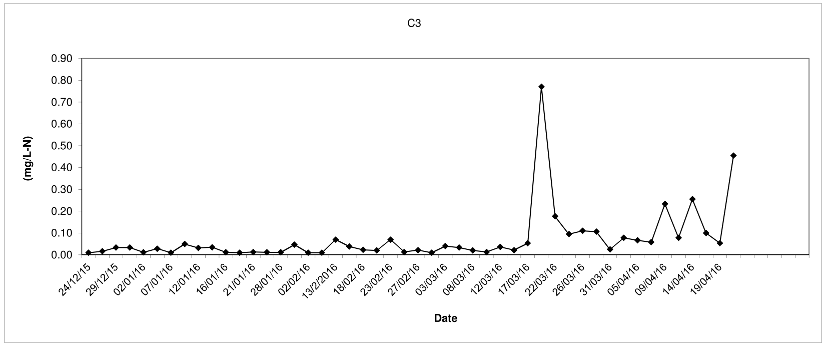
Total Suspended Solids (Depth average) at Mid-Flood Tide



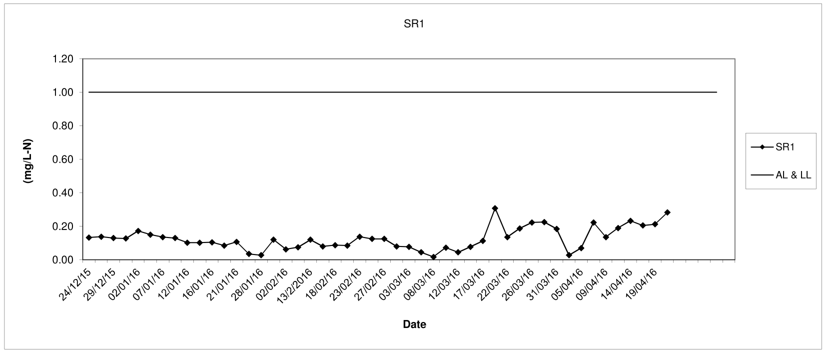
Ammonia Nitrogen (Depth average) at Mid-Flood Tide

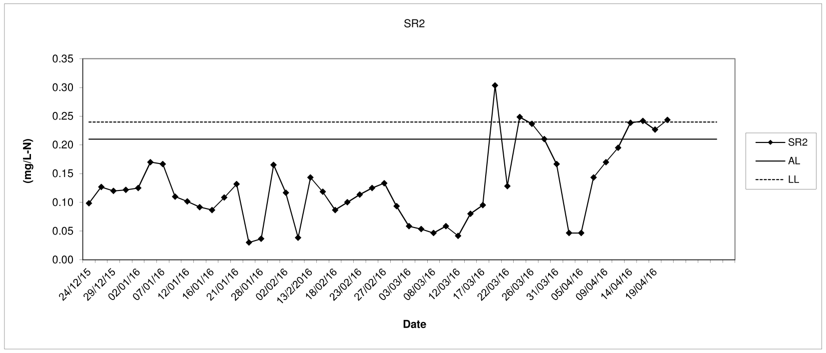


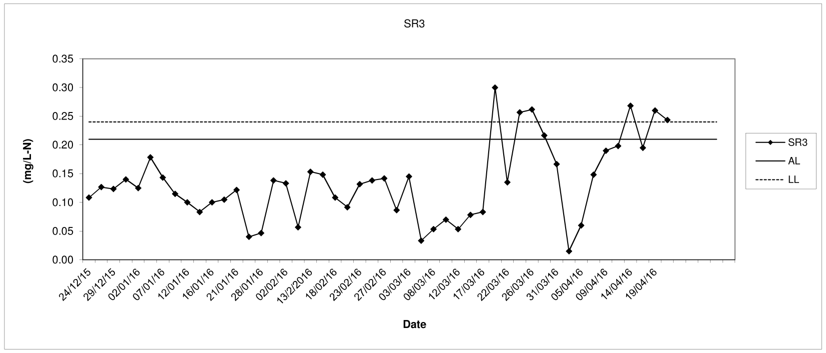




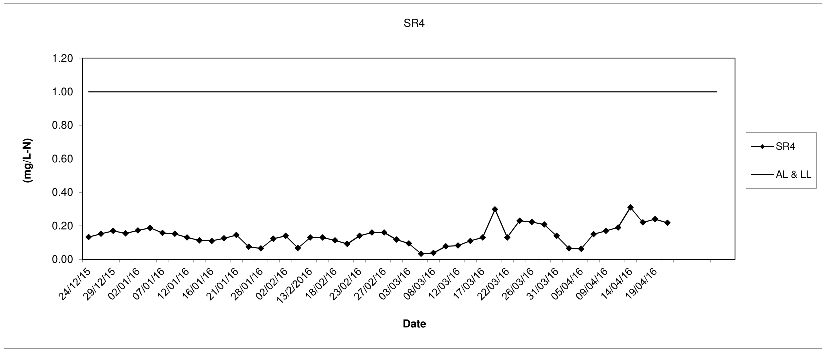
Ammonia Nitrogen (Depth average) at Mid-Flood Tide

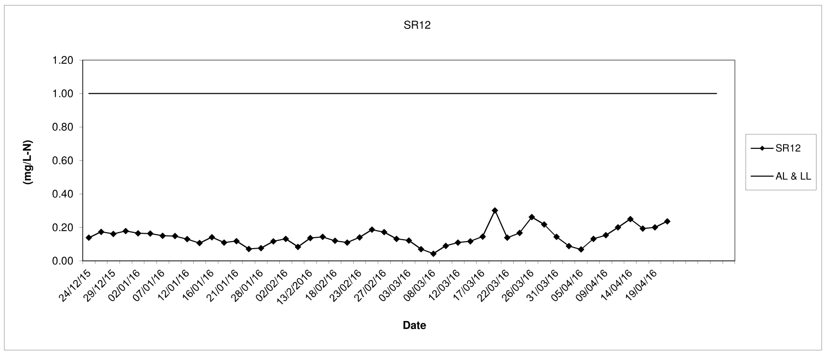






Ammonia Nitrogen (Depth average) at Mid-Flood Tide





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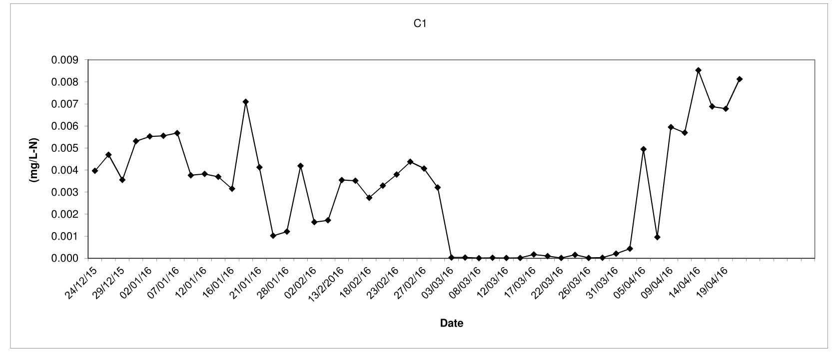

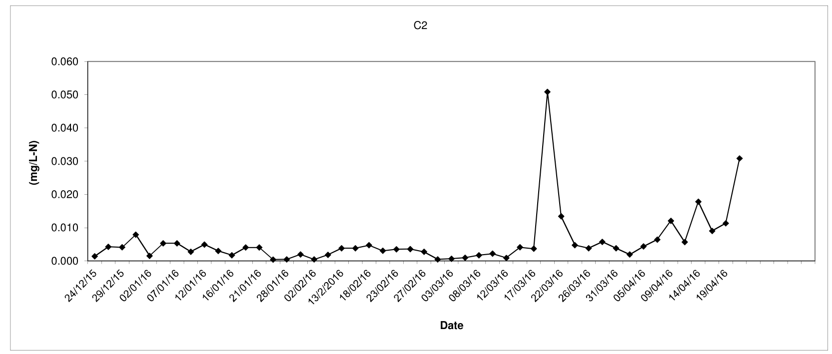

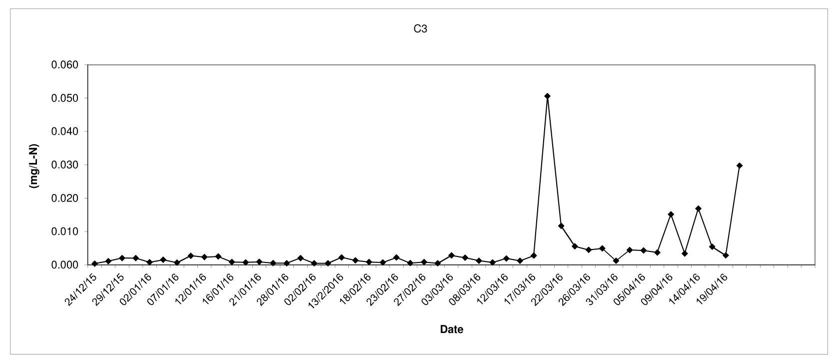

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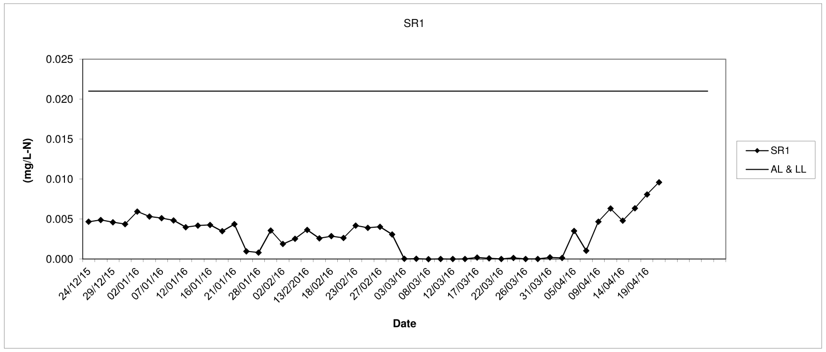
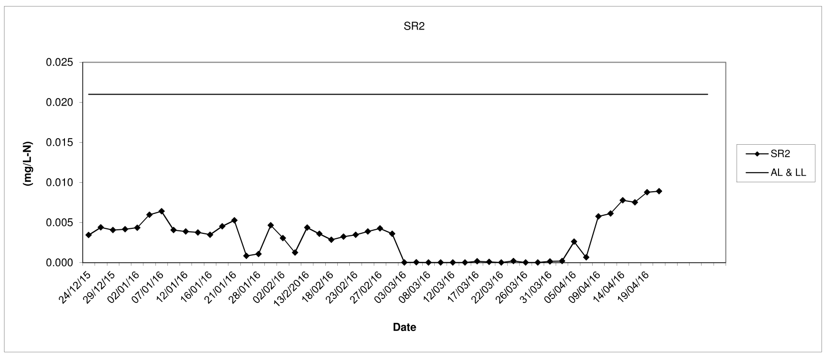
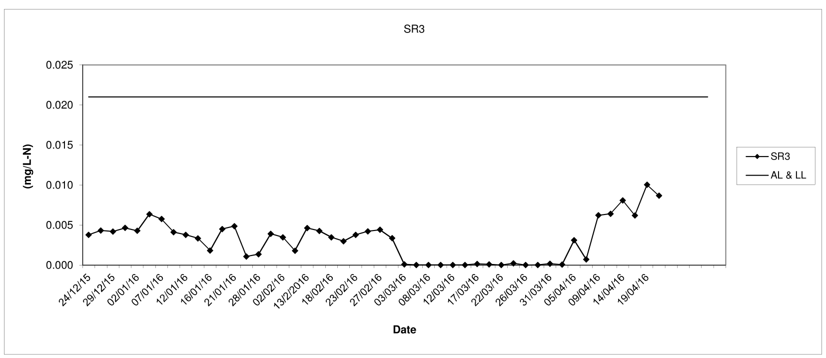
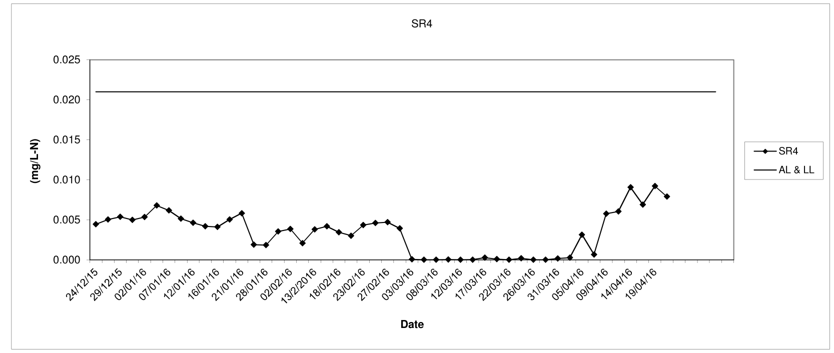
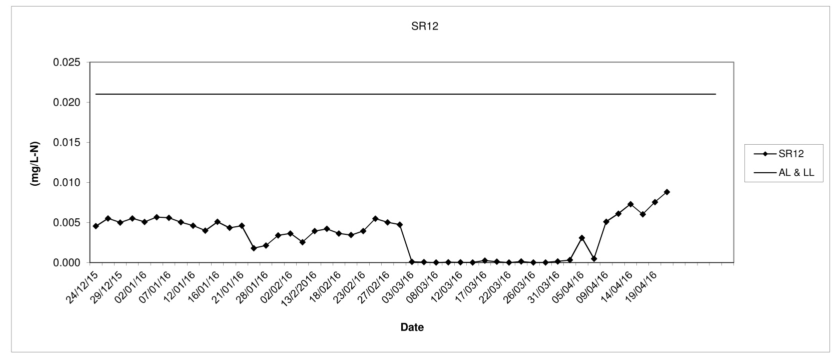






Laboratory Analysis UIA (Depth average) at Mid-Flood Tide





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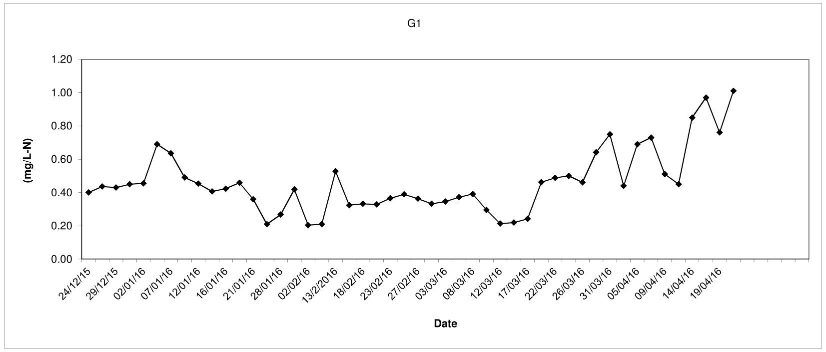

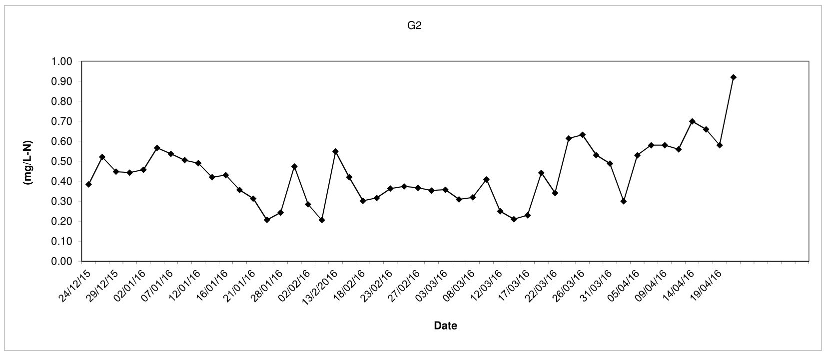

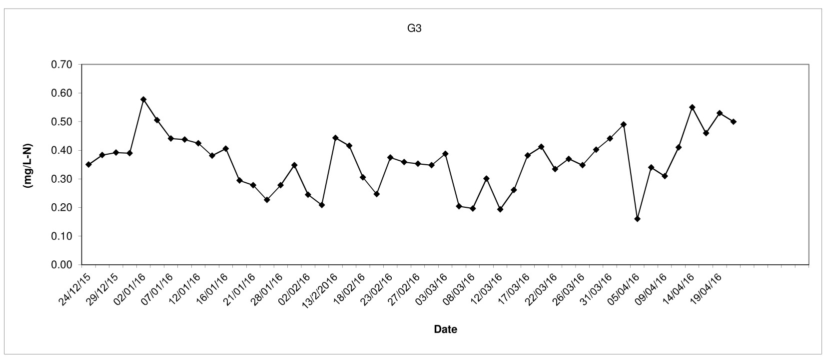

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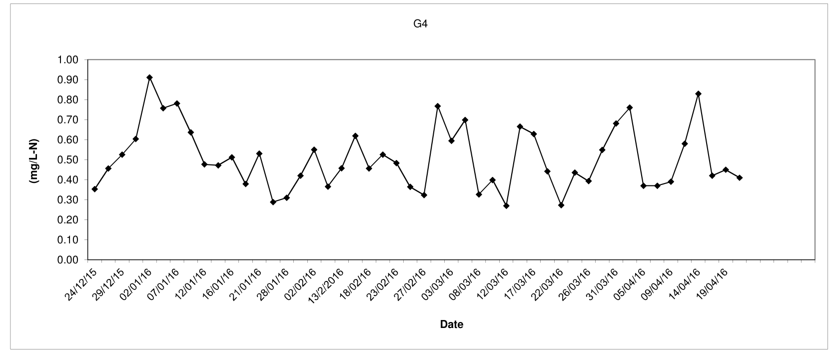
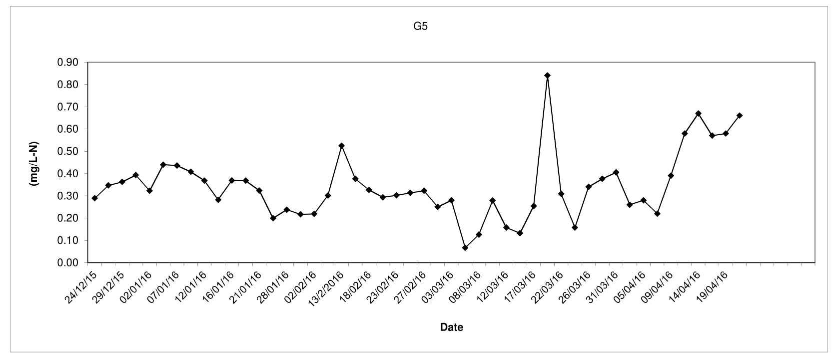
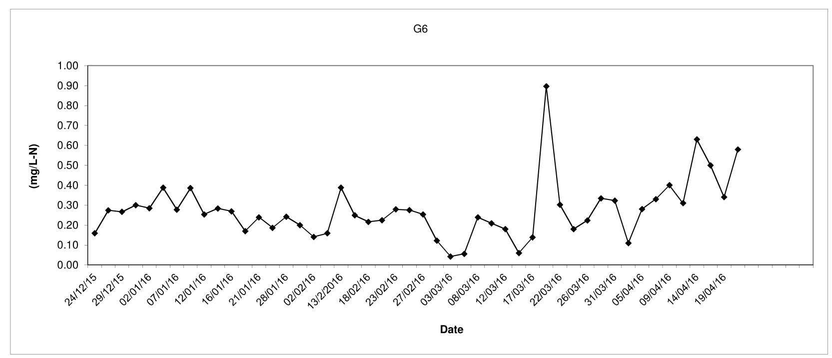
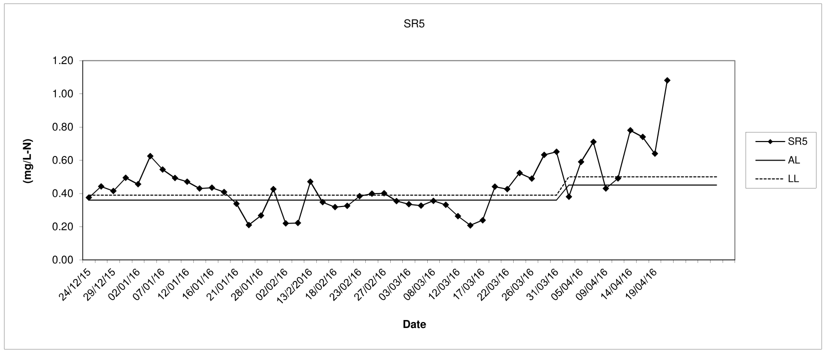
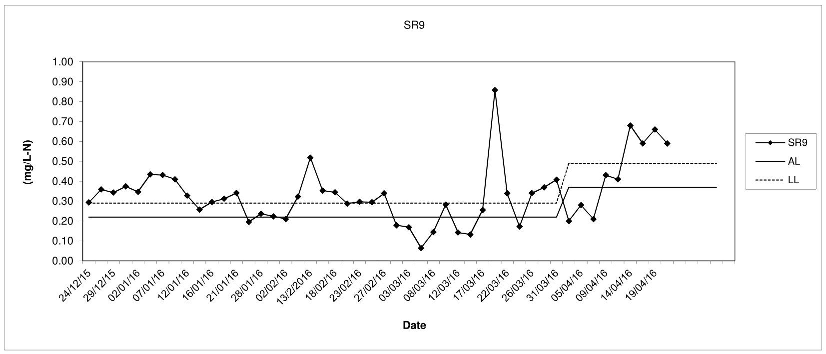


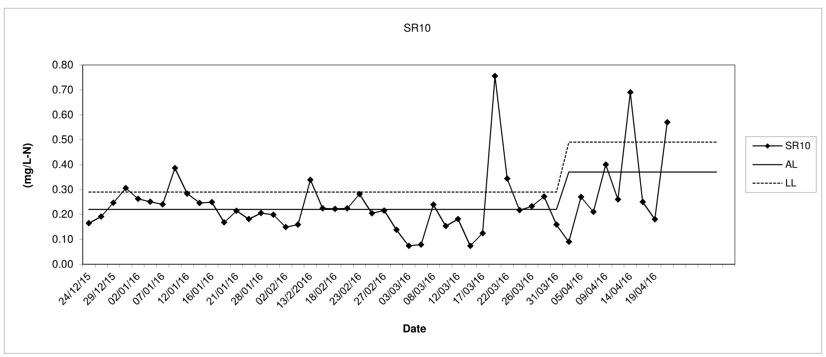




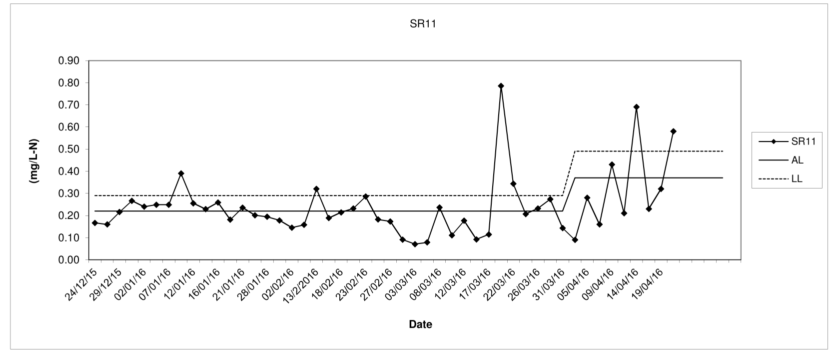
Laboratory Analysis TIN (Depth average) at Mid-Flood Tide



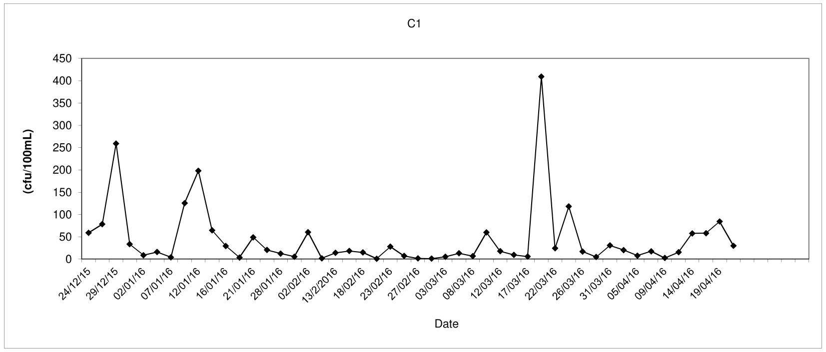


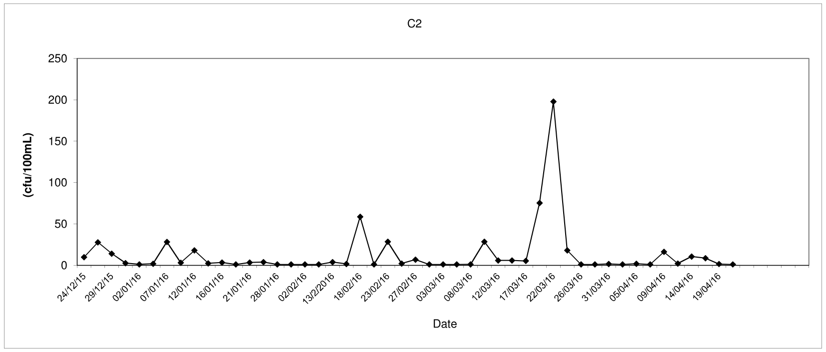


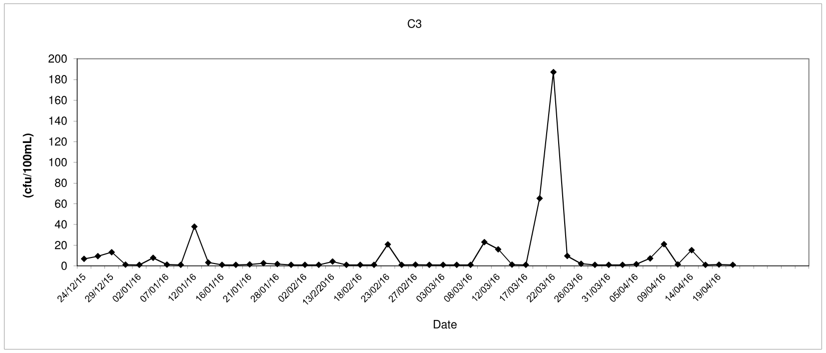
Laboratory Analysis TIN (Depth average) at Mid-Flood Tide



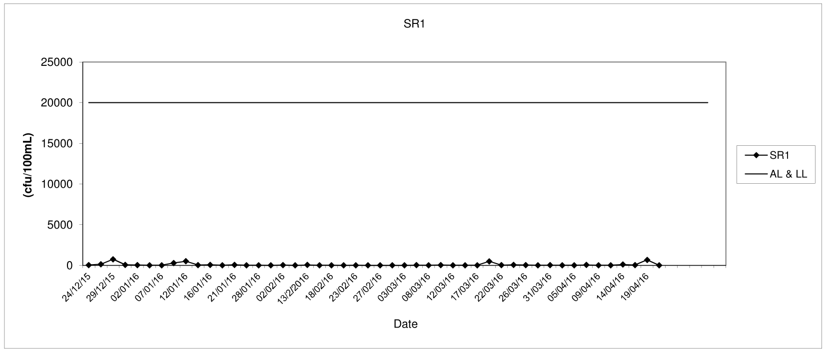
E.coli (Depth average) at Mid-Flood Tide

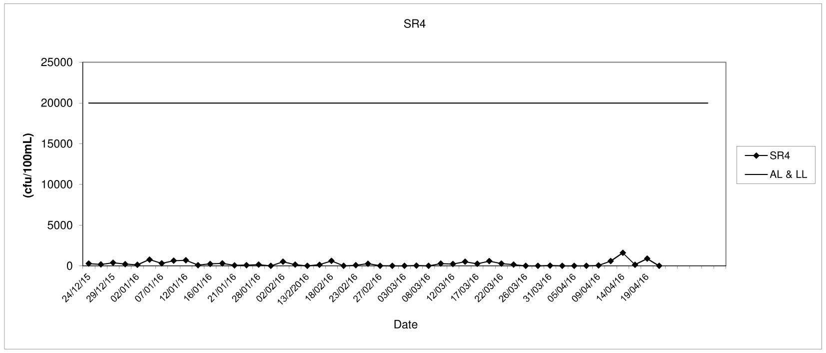


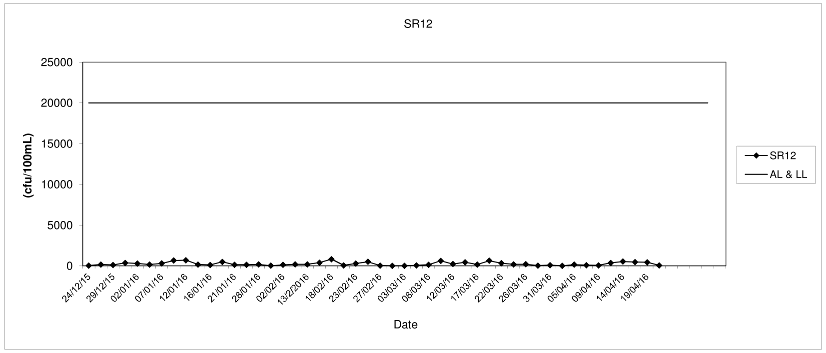




E.coli (Depth average) at Mid-Flood Tide

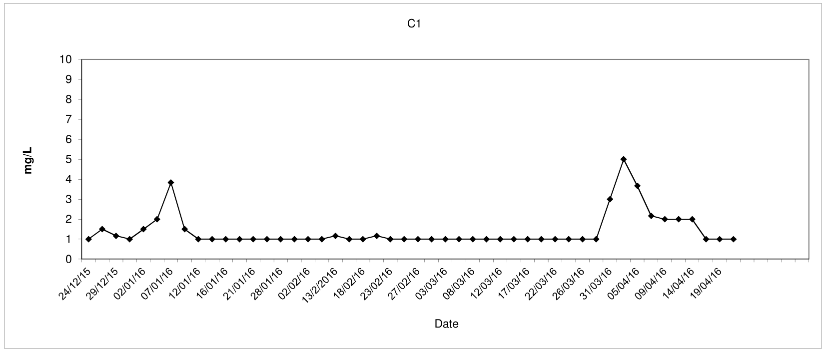


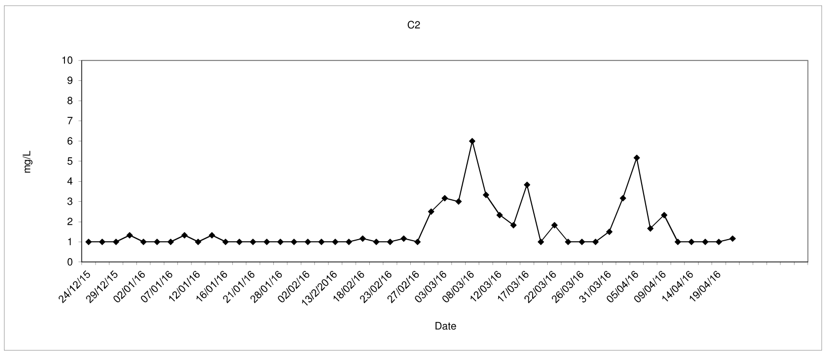


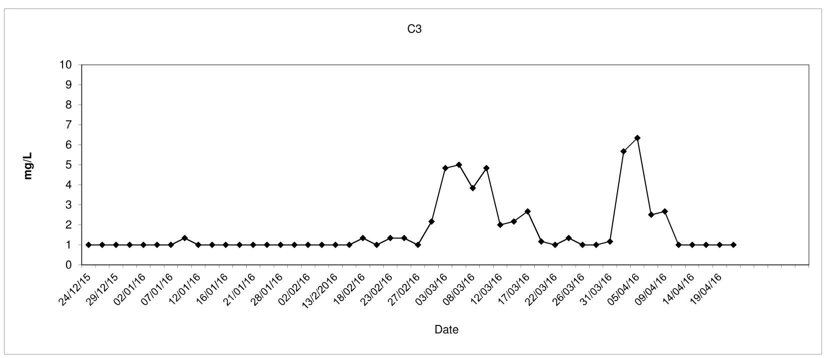


Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

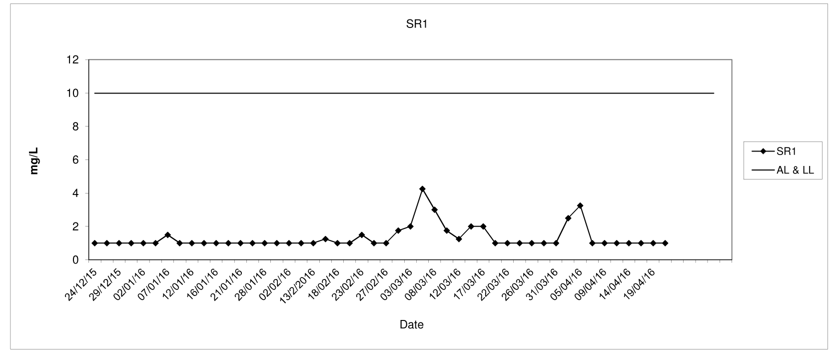
BOD_5 (Depth average) at Mid-Flood Tide

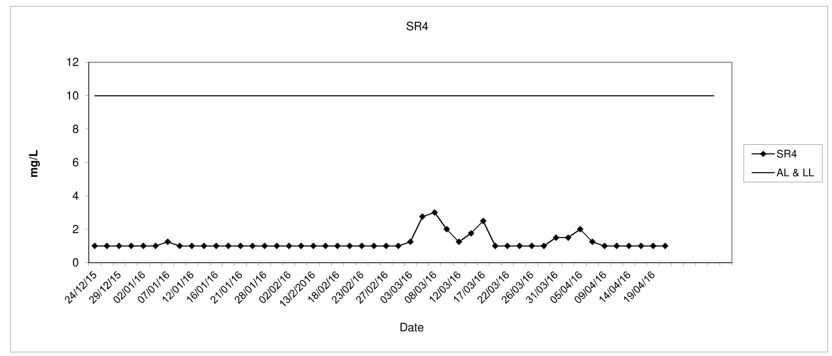


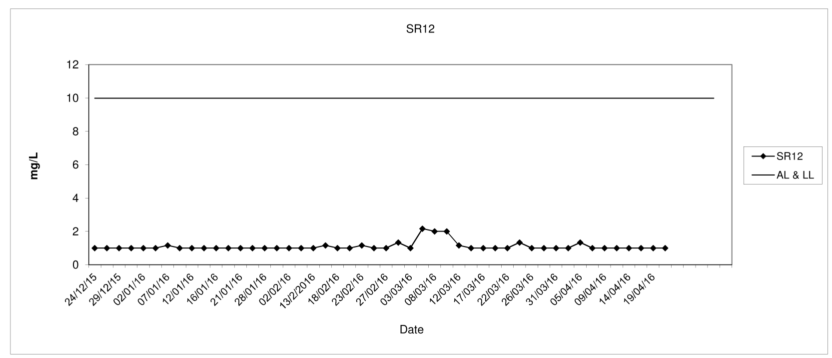




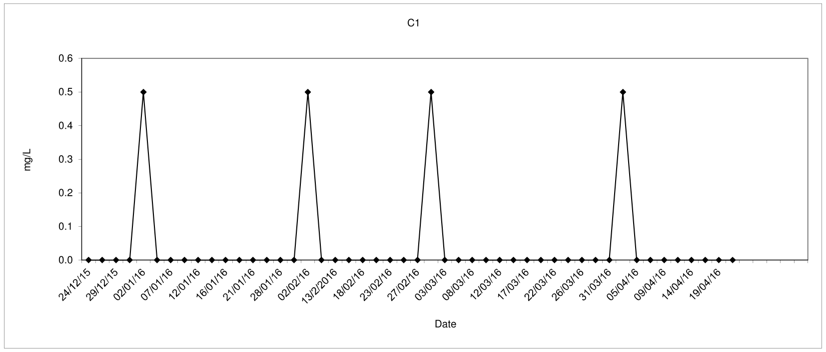
BOD_5 (Depth average) at Mid-Flood Tide

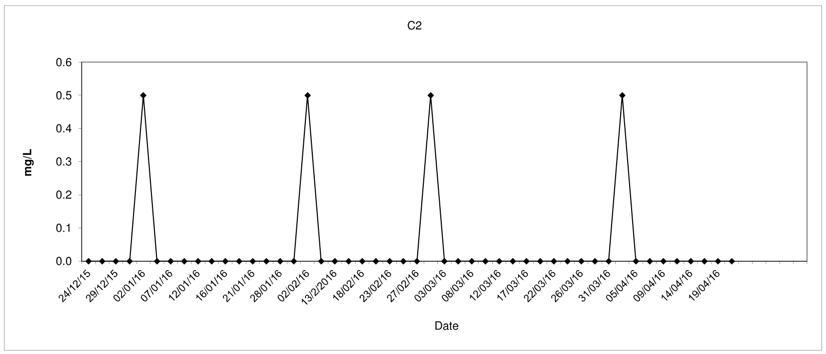


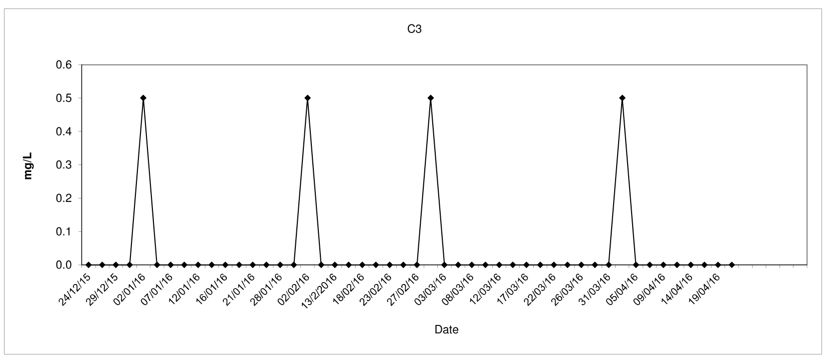




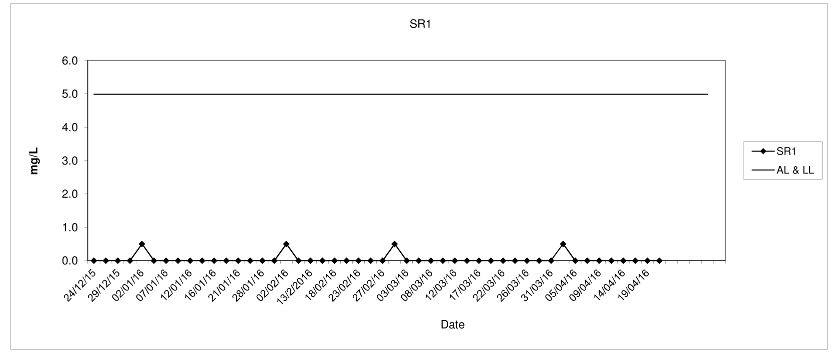
Synthetic Detergent (Depth average) at Mid-Flood Tide

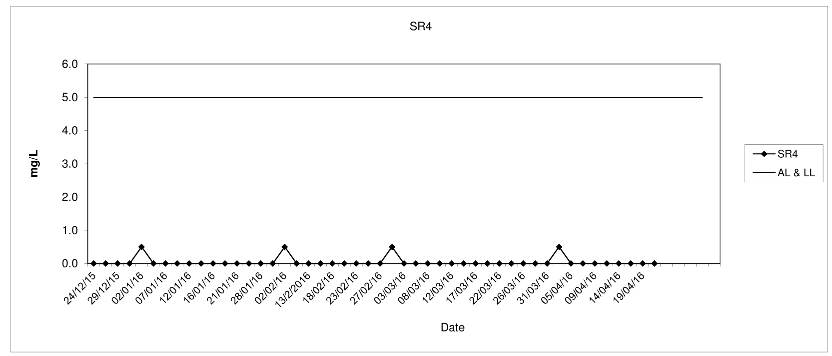


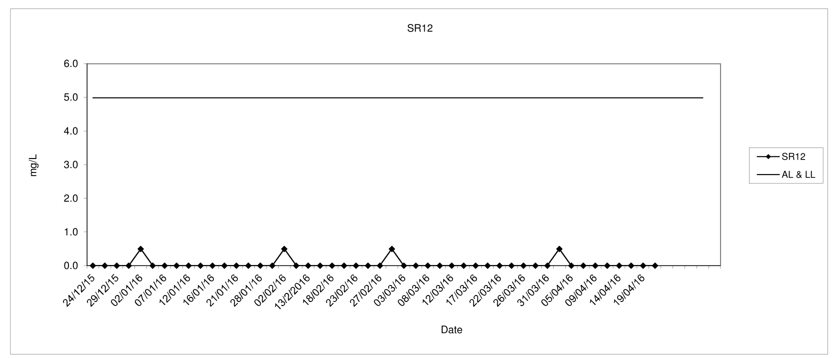




Synthetic Detergent (Depth average) at Mid-Flood Tide



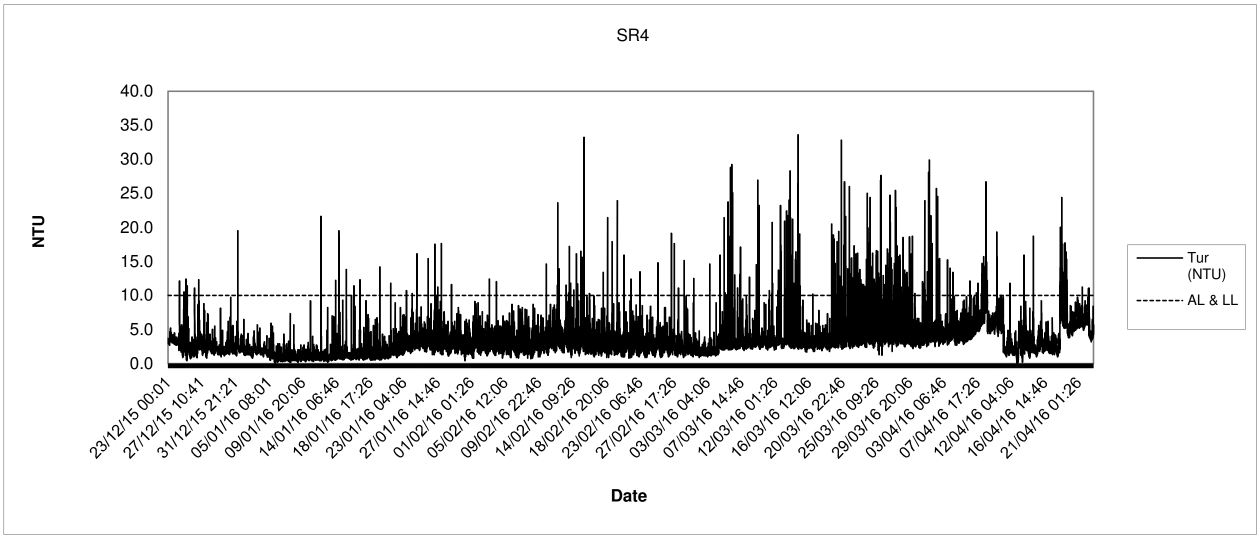


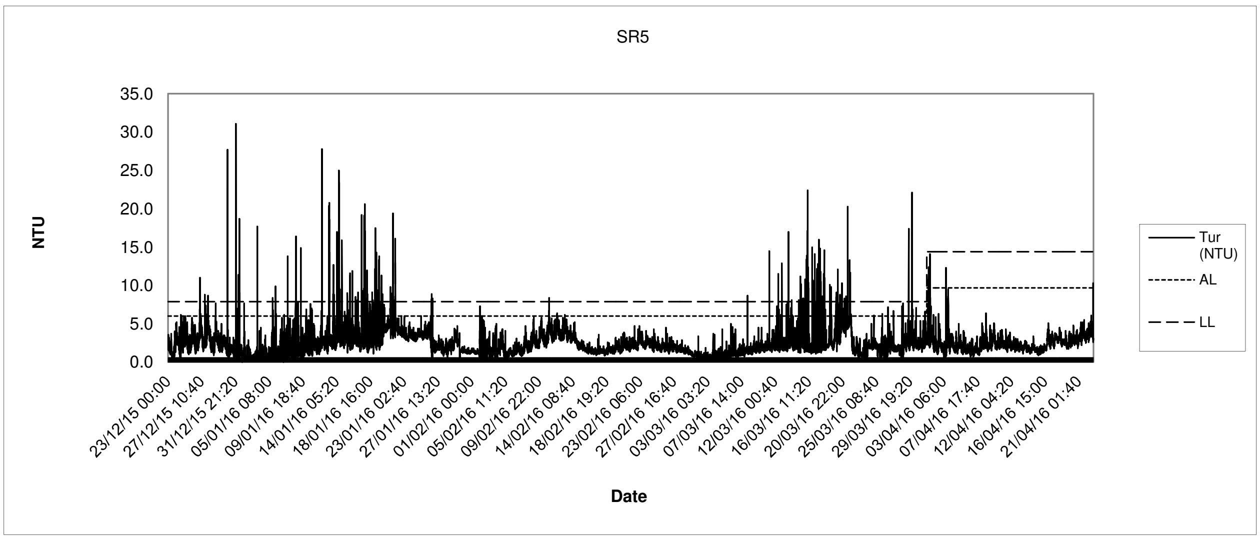


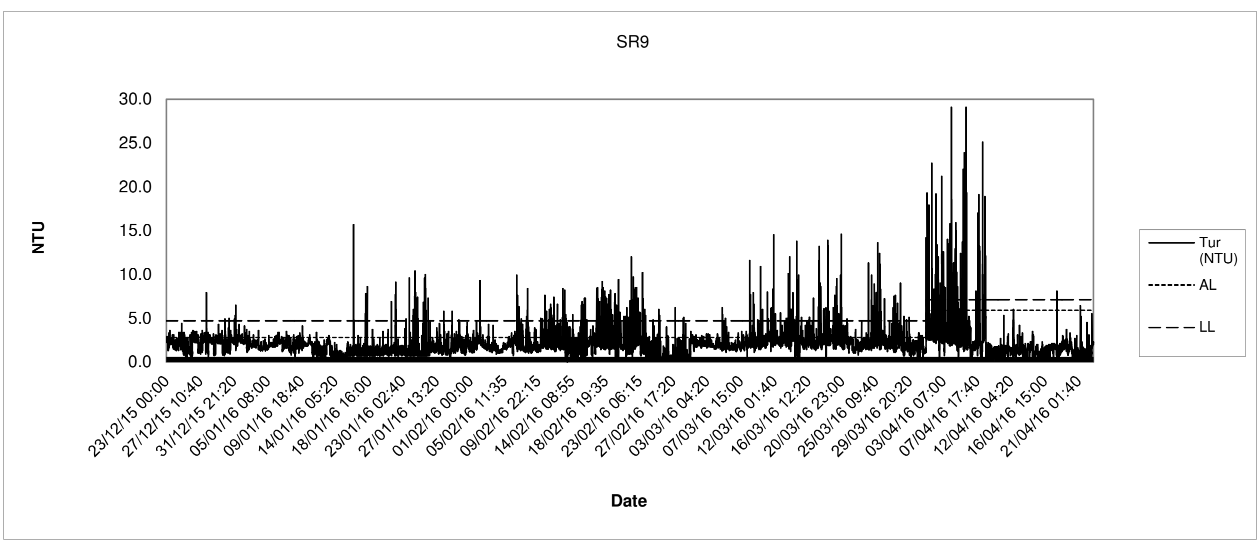
Appendix E

Graphical Presentation – 24-hr Monitoring Results

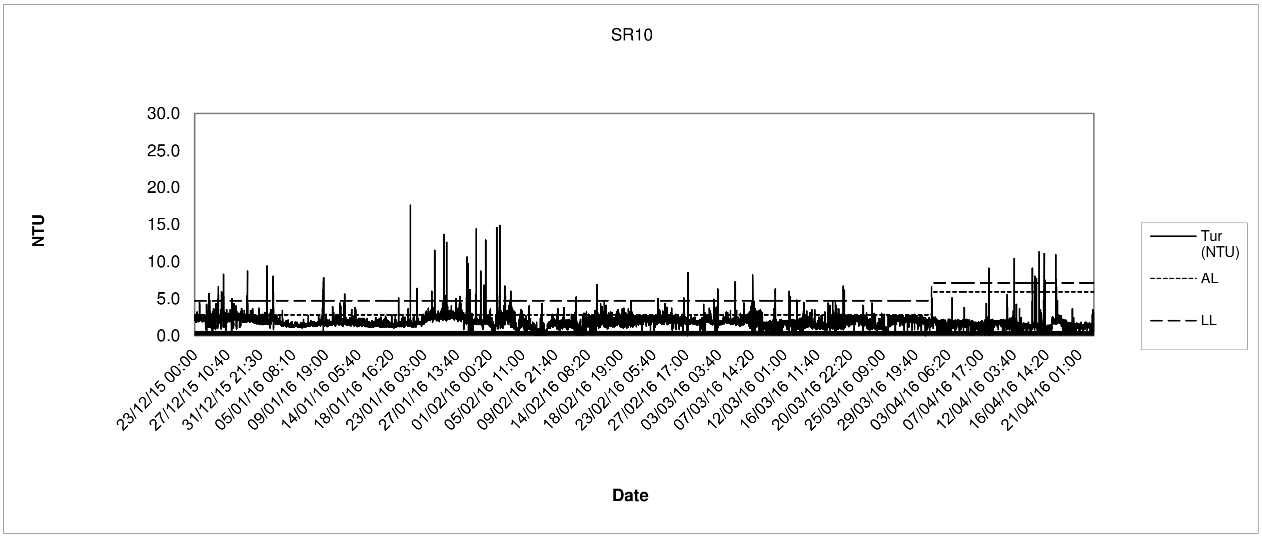
Turbidity
24-hr Water Quality Monitoring

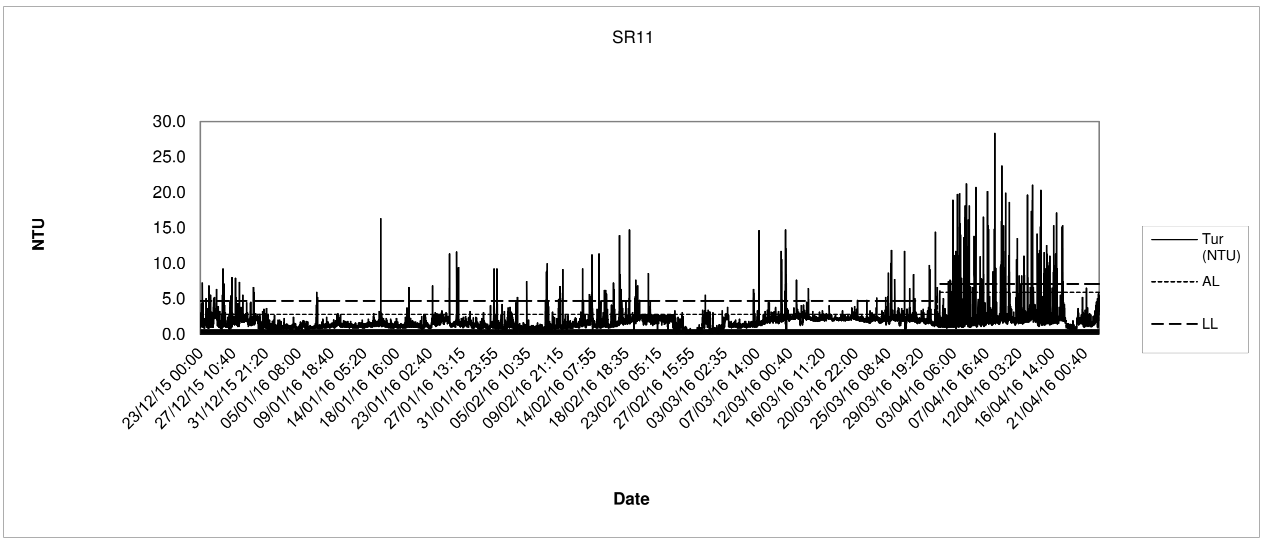


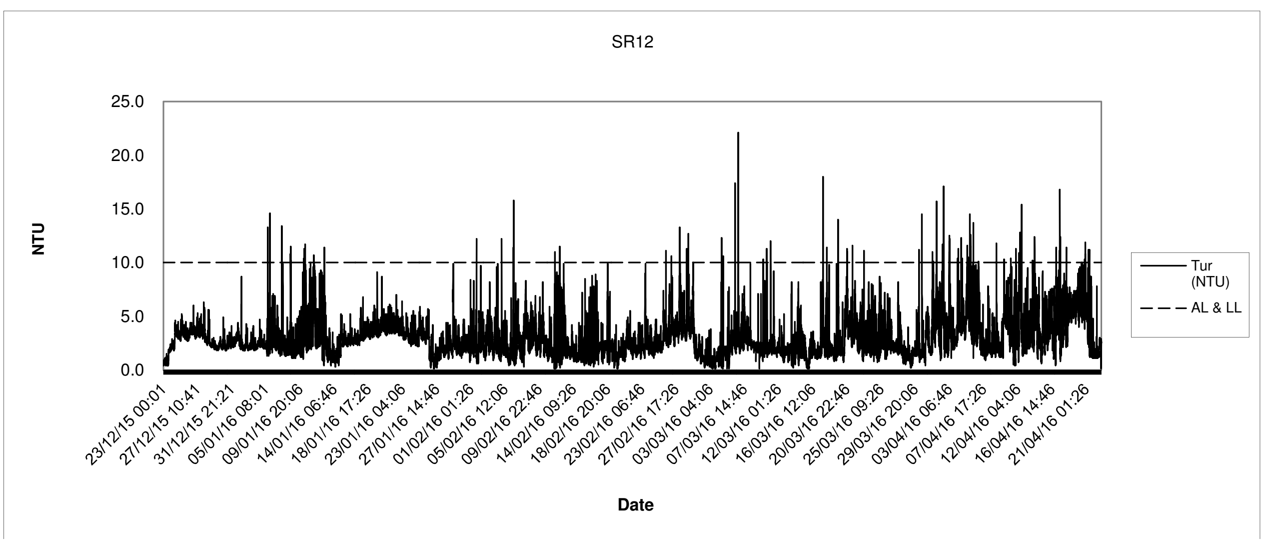




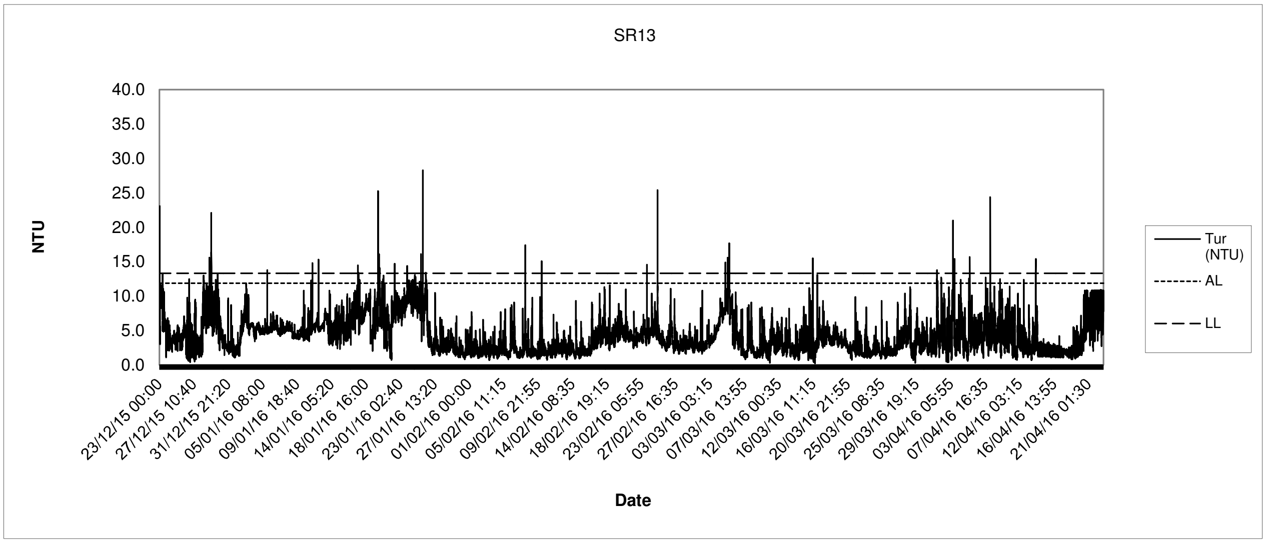
Turbidity
24-hr Water Quality Monitoring



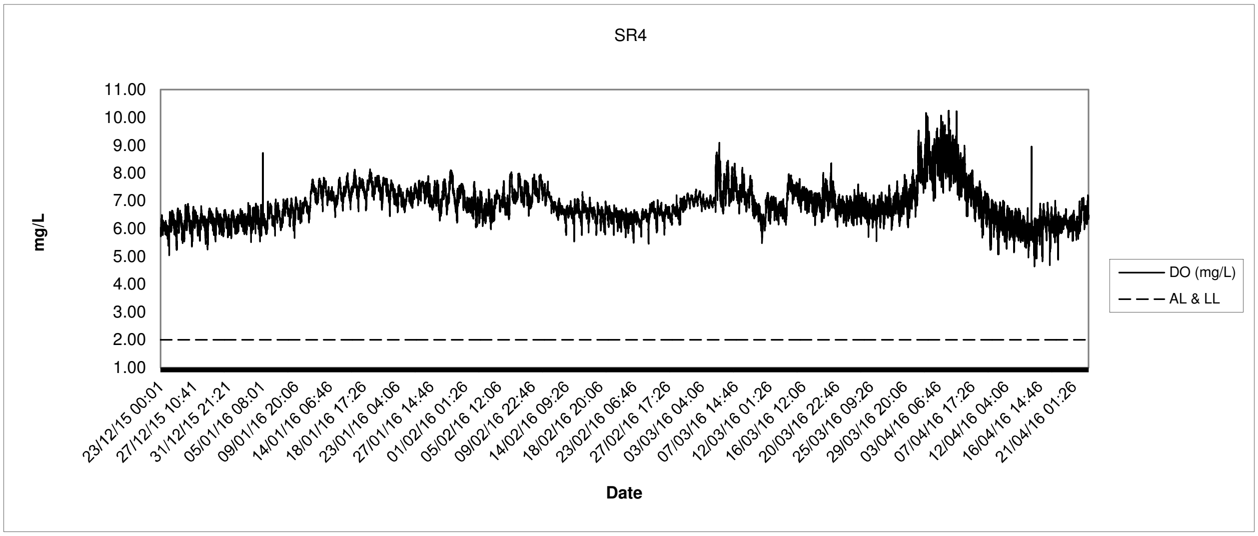


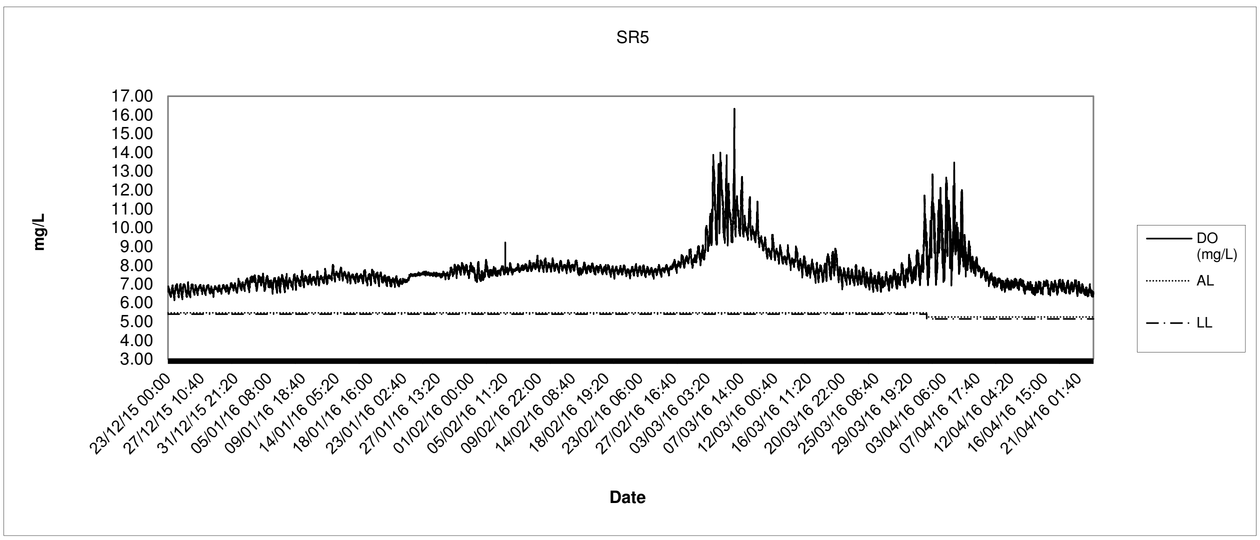


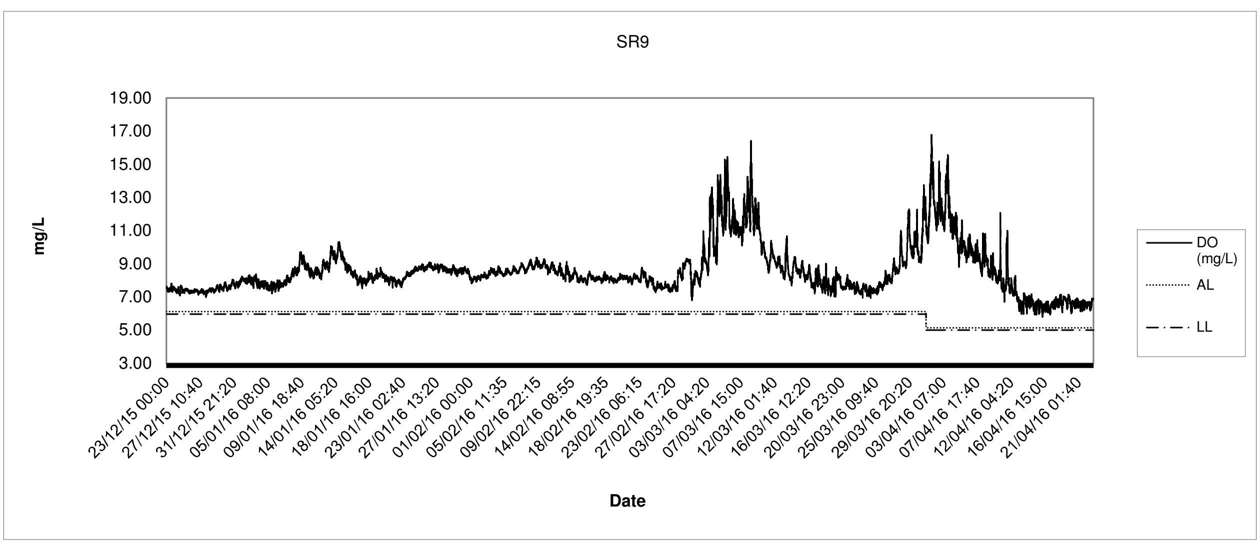
Turbidity
24-hr Water Quality Monitoring



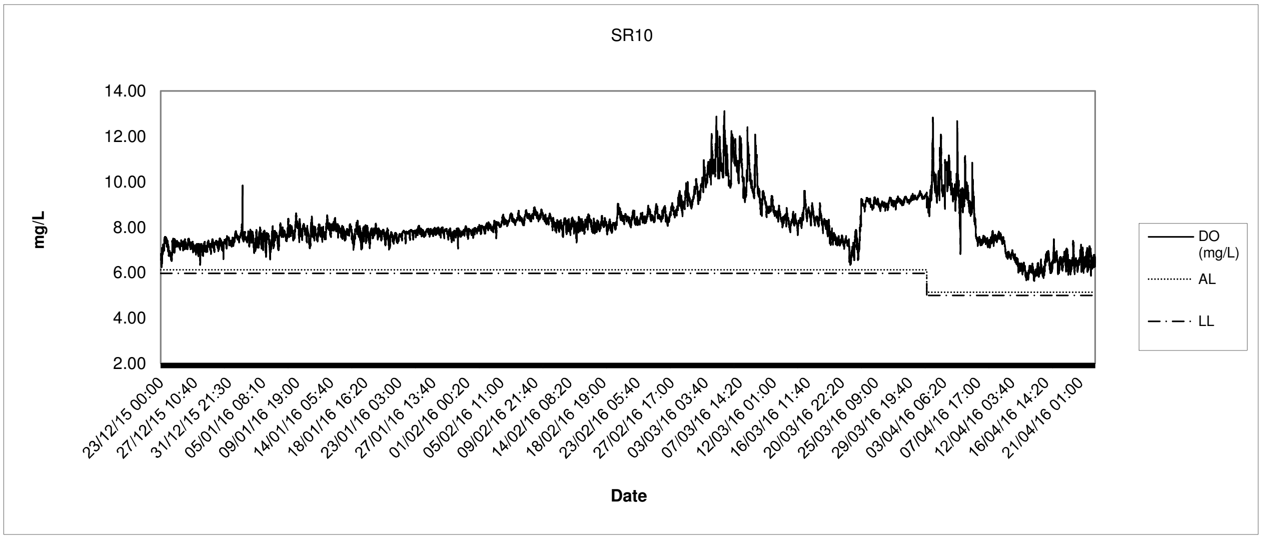
Dissolved Oxygen
24-hr Water Quality Monitoring

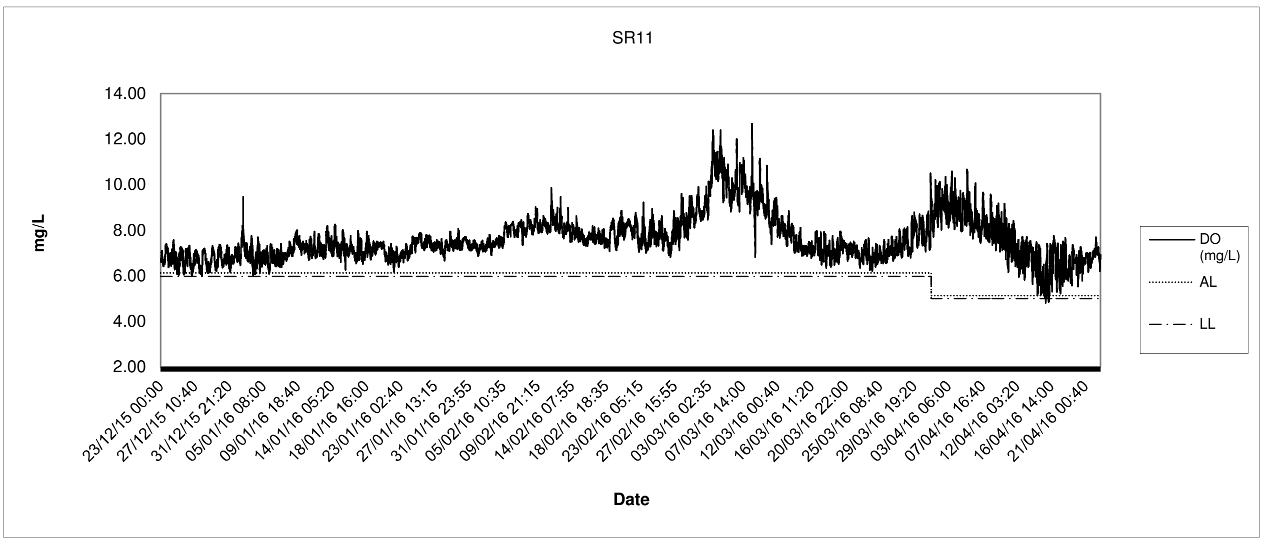


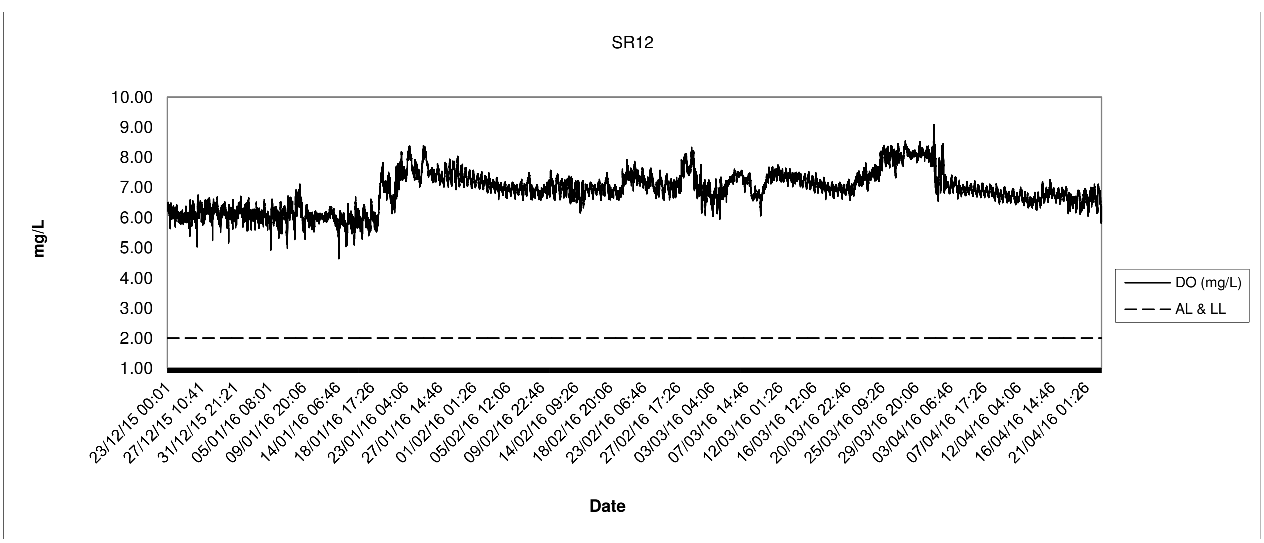




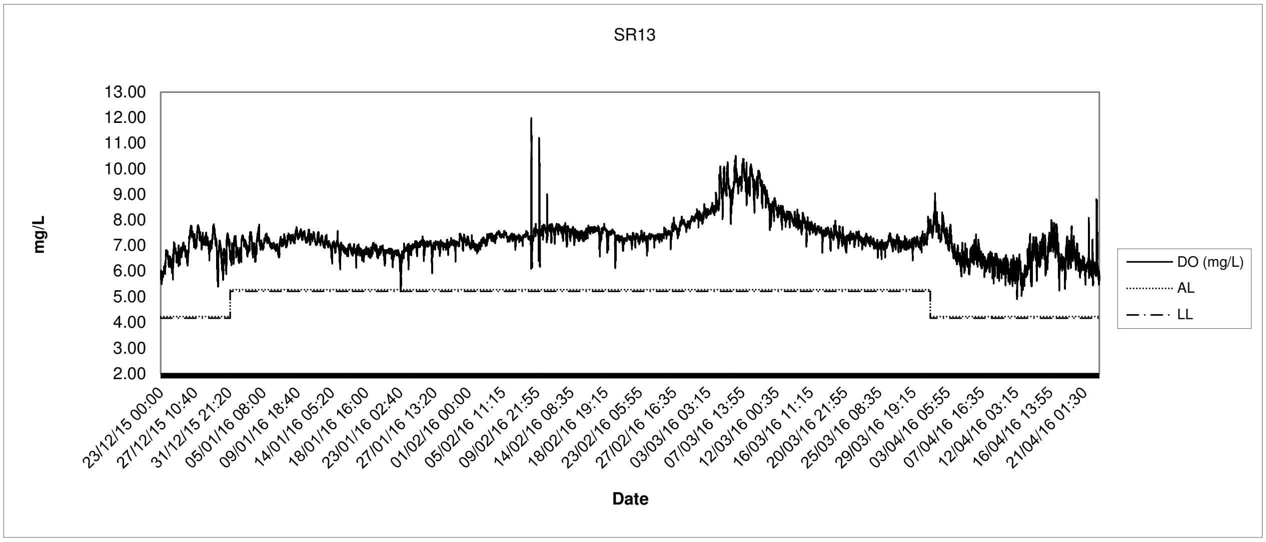
Dissolved Oxygen
24-hr Water Quality Monitoring



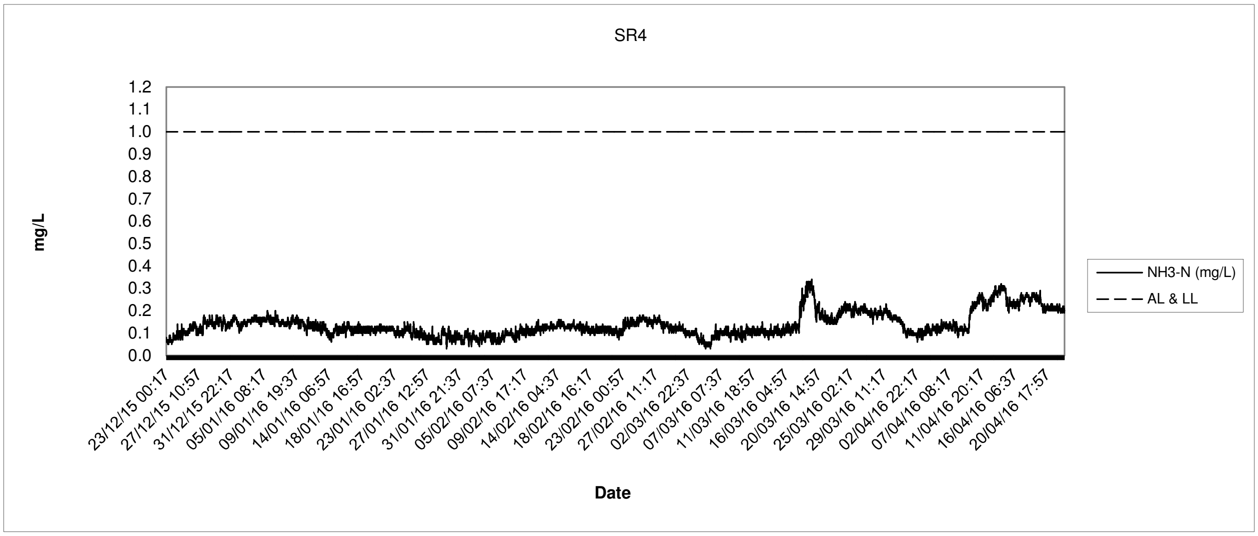


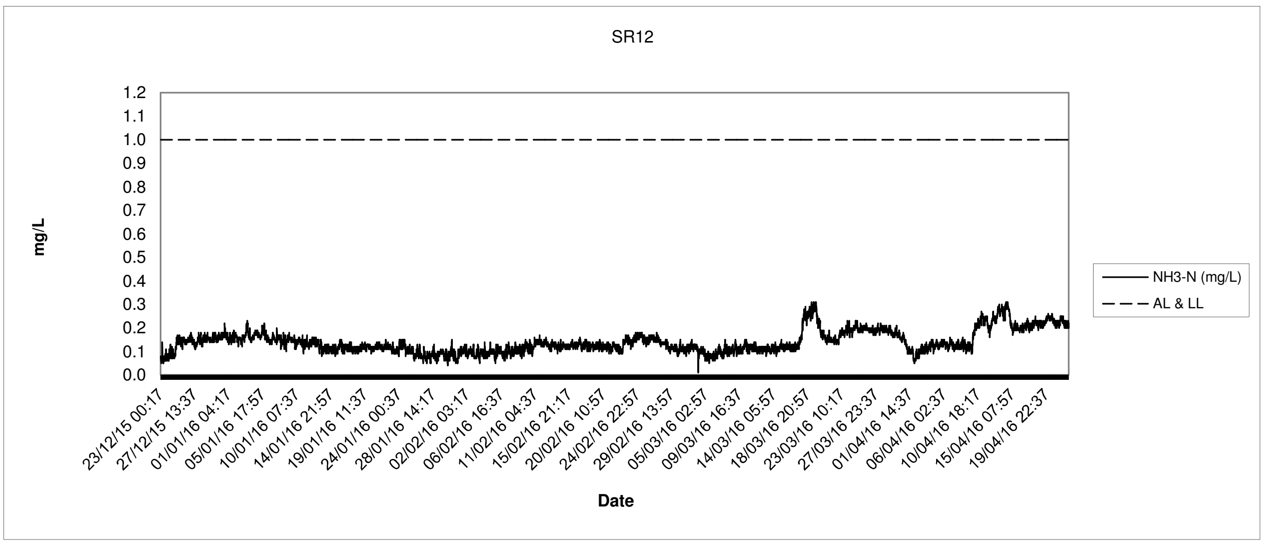


Dissolved Oxygen
24-hr Water Quality Monitoring



Ammonia-N
24-hr Water Quality Monitoring





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Appendix F

Environmental Mitigation Implementation Schedule

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
		A	Water Quality					
3.8	2.9		<u>Use of Silt Screens</u>	Minimize the effect of potential increase in SS levels at the seawater intakes	Contractor	WSD8, WSD9 and EMSD1	Construction Phase	
		A1	Silt Screens shall be installed at the flushing water intakes WSRs WSD1, WSD8~~, WSD9~~ and EMSD1 to minimise the effect of potential increase in SS levels at the seawater intakes.					Implemented
3.8	2.9		<u>Use of Silt Curtains</u>	Minimize the release of suspended soil from the dredging area	Contractor	Construction Work Sites	Construction Phase	
		A2	To minimize the potential SS impact from dredging, deployment of silt curtains around the grab dredgers is recommended; and Before commencement of dredging works, the holder of the Environmental Permit shall submit detailed proposal of the design and arrangement of the frame type silt curtain to EPD for approval.					Implemented
3.10	2.9	A3	Water Quality Monitoring Program	Perform water quality monitoring at sensitive receivers during construction phase	ET	Monitoring Locations as stated in Table 2.1 of the EM&A Manual	Construction Phase	
			Water quality monitoring shall be carried out in accordance with Section 2 of the Environmental Monitoring and Audit (EM&A) Manual. Event and Action Plan (EAP) for water quality shall be followed in case of any exceedance in action and limit level.					Implemented
3.8 (EP Ref 3)	-		Dredging Operation	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	
		A4	Only two types of dredgers are allowed for this Project: (a) grab dredger with closed grab, and (b) ~~cutter suction dredger~~ spud pole grab dredger.					Implemented
		A5	The speed of any construction vessels shall not exceed 10 knots when passing through the area of the Project.					Implemented
		A6	No more than ~~three~~ two grab dredgers with closed grab ~~(or one cutter suction dredger with two closed grab dredgers)~~ shall be operated within the Project Area at any one time for the Project.					Implemented
		A7	Only one closed grab dredger ~~or one cutter suction dredger~~ shall be operated in Zone 2B and during which no other closed grab dredger shall be allowed in other zones within the Project Area.					Implemented
		A8	No more than one grab dredger with closed ~~grab (or one cutter suction dredger)~~ shall be operated within each of the five main zones at any one time for the ~~Project in which the cutter suction dredger shall only be operated in Zones 2 and 4 with maximum dredging rate of 700 m³ in 30 minutes in any given hour (max. 8,400 m³/day, based on a 12-hour operation per day)~~.					Implemented
		A9	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 1 to 2 (subzones Z1A, Z1B, Z2A, Z2B and Z2C) shall follow the Dredging Plan for the Hotspot, as shown in EP-426/2011/A.					Implemented
		A10	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 3 to 4 (subzones Z3A to Z4B) shall not exceed 1,600 m³ per day during dry season or 3,440 m³ per day during wet season as shown in EP-426/2011/A.					Implemented
		A11	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 5 to 6 (subzones Z5A, Z5B and Z6A) shall not exceed 4,000 m³ per day during both dry and wet seasons as shown in EP-426/2011/A.					Implemented
		A12	The maximum dredging rate for closed grab dredger at Rambler Channel –					Implemented

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			Zones 5 to 8 (subzones Z5C, Z6B, Z6C, Z6D, Z7 and Z8) shall not exceed 4,000 m³ per day during both dry and wet seasons as shown in EP-426/2011/A.					
		A13	The maximum dredging rate for closed grab dredger at Northern Fairway – Zones 9 to 12 shall not exceed 4,000 m³ per day during both dry and wet seasons as shown in EP-426/2011/A.					Implemented
		A14	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13A shall not exceed 4,000 m³ per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A15	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13B shall not exceed 4,000 m³ per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A16	~~The dredging pump of cutter suction dredger shall be operated during cutting to reduce the sediment loss to water body.~~					NA-no CSD employed
		A17	Project dredging works within Zone 1 to 6 (including sub-zones) of the Container Basin shall not be carried out at the same time with Terminal Operator's maintenance dredging activities.					NA-No Terminal Operator's maintenance dredging carried out
		A18	~~Cutter suction dredger is only to be deployed for the removal of harder material during daytime only (07:00 to 19:00) in Zone 2 (including subzones) of the Container Basin.~~					NA-no CSD employed
		A19	In case of rainstorm warning in effect during dredging works, the dredged material on barge shall be covered properly before transportation to disposal site.					Implemented
		A20	In case of exceedance of SS and NH3-N at the Tsing Yi WSD flushing intake due to dredging operation is evidenced, the Contractor shall propose mitigation measures not limited to reducing dredging rate. If exceedance persists, the Contractor shall propose not to undertake dredging operation in close proximity to the Tsing Yi flushing water intake during flood tide. The Contractor shall liaise with the ETL, IEC, ER, EPD and WSD for the proposed mitigation measures.					NA-no exceedance due to dredging operation
		A21	If further mitigation measures are required due to continuous exceedance of SS and NH_3-N, consideration shall then be given to dredge only on the state of the tide which would avoid migration of SS towards the WSD and EMSD intakes.					NA-no exceedance due to dredging operation
		A22	Dredging sub-zone Z2B where high NH_3-N in sediment is found shall be isolated with dredging works to be carried out towards the end of construction programme.					Implemented
		A23	Administrative control in terms of dredging rate adjustment in controlling the release of contaminants shall be employed as mitigation measures.					Implemented
		A24	Field trials shall be carried out to propose the most effective dredging process and rate to control the release of ammoniacal nitrogen and UIA into the water column and achieve compliance at the WSD1 seawater intake					Implemented

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			(NH_3-N) and at the beaches for UIA. Capital dredging works in dredging sub-zone Z2B (Figure 1.2h refers) should not therefore be carried out until the proposed method and rate are confirmed.					
		A25	Detailed dredging plan shall be prepared providing details of individual dredging subzones and dredging rate taking into account of the field trial results.					Implemented
3.8	-		Other Good Site Practices for Dredging	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	
		A26	All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.					Implemented
		A27	The speed of all Contractor's vessels should be controlled within the works area to prevent propeller wash from stirring up the seabed sediments.					Implemented
		A28	All barges / dredgers used should be fitted with tight fitting seals to their bottom openings to prevent leakage of material.					Implemented
		A29	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds.					Implemented
		A30	No overflow of dredged mud should be allowed. Barges or hopper should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.					Implemented
		B	**Waste Management**					
			Good Site Practices	Minimize potential adverse effect arising from the handling of dredged material	Contractor	Construction Work Sites (General)	Construction Phase	
4.5	3.3	B1	Obtain the profile of different sediment categories and careful planning of sediment removal.					Implemented
		B2	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.					Implemented
		B3	Training of site personnel in proper waste management and chemical handling procedures.					Implemented
		B4	Provision of sufficient waste disposal points and regular collection of waste.					Implemented
		B5	Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting sediment material is not anticipated.					Implemented
		B6	Use well maintained PME on site.					Implemented
			General Refuse	Minimize the adverse effect arising from the handling of site general refuse	Contractor	Construction Work Sites (General)	Construction Phase	
4.5	3.3	B7	General refuse should be stored in enclosed bins. A reputable waste collector should be employed by the contractor to remove general refuse from the site.					Implemented
			Chemical Waste	Minimize the adverse effect arising from the handling of site chemical waste	Contractor	Construction Work Site	Construction Phase	
4.5	3.3	B8	If chemical wastes are produced at the construction site, the Contractor shall be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals should be stored separately. Appropriate labels shall be securely					Implemented

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					
4.5	3.3		<u>Marine Dredged Sediment</u>	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality	Contractor	Construction Work Site	Construction Phase	
		B9	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality.					Implemented
		B10	Bottom opening of barges will be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and dredgers before the vessel is moved.					Implemented
		B11	Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the EPD.					Implemented
		B12	Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.					Implemented
		B13	Sediment Quality Report shall be prepared and submit to EPD under DASO.					Implemented
		B14	If disposal of Type 3 sediment is identified, agreement with EPD shall be reached regarding the treatment of sediment before disposal.					NA – no type 3 material disposed
		B15	Project works shall not be carried out before obtaining confirmation from MFC on disposal option.					Implemented
		B16	Follow strictly all conditions stipulated in the dumping permit.					Implemented
		C	**Marine Ecology**	Review and assess the potential adverse effect on marine ecology	Contractor	Construction Work Sites	Construction Phase	
5.7	4.1	C1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to marine ecology due to dredging operation.					Implemented
		D	**Fisheries**	Review and assess the potential adverse effect on fisheries	Contractor	Construction Work Sites	Construction Phase	
6.7	5.1	D1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to fisheries due to dredging operation.					Implemented
		E	**Hazard to Life**		Contractor	Construction Work Sites (General)	Construction Phase	
7.8.2	6.2	E1	Sound communication channel shall be established with the oil companies, Marine Department, and Fire Services Department for effective notification and emergency evacuation in case of accidents.					Implemented
		E2	Proper safety and emergency training shall be given to the relevant operation staff at the dredging site. Emergency plans and procedures should be prepared and drills should be performed periodically.					Implemented
		F	**Landscape Visual and Glare**	Minimize landscape and visual impacts during construction phase	Contractor	Construction activities' area	Throughout design, construction phase	
8.9 Table 8-3 & 8-6	7.2	F1	Visa shields to the lights of dredgers shall be provided.					Implemented
		F2	The light source shall not point directly to any VSRs.					Implemented
		F3	Lights shall be switched off if they are not in use.					Implemented

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
		G	**Cultural Heritage**	Minimize potential marine archaeological impact during dredging activities	Contractor	Locations of the 20 unidentified sonar contacts and masked areas	During Construction works	
9.5	8		Monitoring Brief					
		G1	A monitoring brief shall be conducted during the dredging. It shall only be required during dredging at the locations of the 20 unidentified sonar contacts and masked areas and does not need to cover all of the dredging activities. Dredging staff should be briefed about the possibility of locating archaeological objects and a marine archaeologist shall be available to monitor the dredged spoil and provide advice. If material indicative of archaeological remains is retrieved, the AMO should be contacted as soon as possible.					NA- no archaeological deposit was found during reporting period.
		H	**Noise**					
10.8	9		Good Site Practices	Control and minimize the generation of undue noise nuisance	Contractor	Construction Work Sites (Along the alignment of dredging	Construction Phase	
		H1	Only well-maintained plant shall be operated on-site and plant should be serviced regularly during the construction program.					Implemented
		H2	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.					Implemented
		H3	Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby NSRs.					Implemented
		H4	If dredging is to be carried out during restricted hours, work locations close to NSRs shall be avoided.					Implemented
		I	**Construction Dust**					
11.7	10		Dust Control	Good site practice to control dust and odour impact to the nearby sensitive receivers	Contractor	Construction Work Sites (General)	Construction Phase	
		I1	Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during the construction period.					Implemented
			Odour		Contractor	Construction Work Sites (General)	Construction Phase	
		I2	To minimize potential odour emissions, if dredged sediment is anticipated to be placed on barge for more than a day the load shall be properly covered as far as practicable to minimise the exposed area and potential odour.					NA-no work in such condition
		I3	If dredged sediment is found to be malodorous it shall be removed from site as soon as possible within one hour after the barge being filled up.					NA-no work in such condition

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Appendix G

Waste Generation in Reporting Period

Name of Department : Civil Engineering and Development Department
Contract No. : CV/2013/04

Monthly Summary Waste Flow Table for _2016_ (year)

Month/Year	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete (see Note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m^3)
Jan/2016	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Feb/2016	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Mar/2016	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Apr/2016	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
May/2016										
Jun/2016										
Jul/2016										
Aug/2016										
Sep/2016										
Oct/2016										
Nov/2016										
Dec/2016										
Total	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.04

Notes:

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

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates

Yearly Summary Waste Flow Table

Year	Estimated Annual Quantities of Inert C&D Materials (in ‘000m3)										Estimated Annual of C&D Wastes									
	Total Quantity Generated		Broken Concrete (see Note 3)		Reused in the Contract		Reused in other Projects		Disposed as Public Fill		Metals		Paper/cardboard packaging		Plastics (see Note 2)		Chemical Waste		Others, e.g. general refuse	
	(a)		(b)		(c)		(d)		(a-b-c-d)		(in ‘000 kg)		(in ‘000 kg)		(in ‘000 kg)		(in ‘000 kg)		(in ‘000 m3)	
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
2013	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.003	0.01
2014	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.2	0.16
2015	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	13	14.4	0.2	0.12
2016	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	17	-	0.2	-
2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020																				
2021																				
Grand Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	30	-	0.603	-

Notes:

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

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(3) Broken concrete for recycling into aggregates.

Monthly Summary of Sediment Disposal (2014-2016)

Marine Sediment Type	Type 1 – Open Sea Disposal	Type 2 – Confined Marine Disposal	Type 3 – Special Treatment / Disposal
Month	Monthly Quantity (m^3)	Monthly Quantity (m^3)	Monthly Quantity (m^3)
2014			
Jan-Dec	549,430	99,660	nil
2015			
January	126,750	47,580	nil
February	153,770	12,440	nil
March	101,370	65,870	nil
April	173,760	29,840	nil
May	99,550	29,180	nil
June	49,460	9,360	nil
July	30,680	5,180	nil
August	36,960	21,520	nil
September	49,270	32,500	nil
October	41,200	27,550	nil
November	34,490	34,120	nil
December	41,300	57,230	nil
2016			
January	12,580	22,290	nil
February	47,980	30,300	nil
March	34,550	20,070	nil
April	31,040	14,540	nil
Total	1,614,140	559,230	nil

Appendix H

Quarterly Assessment of Construction Impact

Cluster 2 TIN(In-situ)
1.3 x Baseline vs Impact

Baseline x 1.3 TIN (Insitu) (mg/L)			
SR9	1/4/2014	Mid-Ebb	0.09
SR9	1/7/2014	Mid-Ebb	0.46
SR9	1/9/2014	Mid-Ebb	0.35
SR9	1/11/2014	Mid-Ebb	0.40
SR9	1/14/2014	Mid-Ebb	0.34
SR9	1/16/2014	Mid-Ebb	0.40
SR9	1/18/2014	Mid-Ebb	0.24
SR9	1/21/2014	Mid-Ebb	0.28
SR9	1/23/2014	Mid-Ebb	0.17
SR9	1/25/2014	Mid-Ebb	0.20
SR9	1/27/2014	Mid-Ebb	0.11
SR9	1/29/2014	Mid-Ebb	0.14
SR10	1/4/2014	Mid-Ebb	0.26
SR10	1/7/2014	Mid-Ebb	0.49
SR10	1/9/2014	Mid-Ebb	0.30
SR10	1/11/2014	Mid-Ebb	0.32
SR10	1/14/2014	Mid-Ebb	0.29
SR10	1/16/2014	Mid-Ebb	0.30
SR10	1/18/2014	Mid-Ebb	0.29
SR10	1/21/2014	Mid-Ebb	0.29
SR10	1/23/2014	Mid-Ebb	0.20
SR10	1/25/2014	Mid-Ebb	0.29
SR10	1/27/2014	Mid-Ebb	0.15
SR10	1/29/2014	Mid-Ebb	0.20
SR11	1/4/2014	Mid-Ebb	0.23
SR11	1/7/2014	Mid-Ebb	0.51
SR11	1/9/2014	Mid-Ebb	0.26
SR11	1/11/2014	Mid-Ebb	0.33
SR11	1/14/2014	Mid-Ebb	0.26
SR11	1/16/2014	Mid-Ebb	0.26
SR11	1/18/2014	Mid-Ebb	0.26
SR11	1/21/2014	Mid-Ebb	0.23
SR11	1/23/2014	Mid-Ebb	0.17
SR11	1/25/2014	Mid-Ebb	0.23
SR11	1/27/2014	Mid-Ebb	0.14
SR11	1/29/2014	Mid-Ebb	0.20

Impact TIN (Insitu) (mg/L)							
SR9	1/26/2016	Mid-Ebb	0.23	SR11	1/26/2016	Mid-Ebb	0.22
SR9	1/28/2016	Mid-Ebb	0.2	SR11	1/28/2016	Mid-Ebb	0.15
SR9	1/30/2016	Mid-Ebb	0.27	SR11	1/30/2016	Mid-Ebb	0.20
SR9	2/2/2016	Mid-Ebb	0.21	SR11	2/2/2016	Mid-Ebb	0.14
SR9	2/4/2016	Mid-Ebb	0.30	SR11	2/4/2016	Mid-Ebb	0.14
SR9	13/2/2016	Mid-Ebb	0.50	SR11	13/2/2016	Mid-Ebb	0.30
SR9	2/16/2016	Mid-Ebb	0.34	SR11	2/16/2016	Mid-Ebb	0.18
SR9	2/18/2016	Mid-Ebb	0.33	SR11	2/18/2016	Mid-Ebb	0.20
SR9	2/20/2016	Mid-Ebb	0.33	SR11	2/20/2016	Mid-Ebb	0.25
SR9	2/23/2016	Mid-Ebb	0.30	SR11	2/23/2016	Mid-Ebb	0.27
SR9	2/25/2016	Mid-Ebb	0.30	SR11	2/25/2016	Mid-Ebb	0.17
SR9	2/27/2016	Mid-Ebb	0.32	SR11	2/27/2016	Mid-Ebb	0.18
SR9	3/1/2016	Mid-Ebb	0.18	SR11	3/1/2016	Mid-Ebb	0.09
SR9	3/3/2016	Mid-Ebb	0.19	SR11	3/3/2016	Mid-Ebb	0.07
SR9	3/5/2016	Mid-Ebb	0.10	SR11	3/5/2016	Mid-Ebb	0.09
SR9	3/8/2016	Mid-Ebb	0.13	SR11	3/8/2016	Mid-Ebb	0.25
SR9	3/10/2016	Mid-Ebb	0.29	SR11	3/10/2016	Mid-Ebb	0.10
SR9	3/12/2016	Mid-Ebb	0.15	SR11	3/12/2016	Mid-Ebb	0.18
SR9	3/15/2016	Mid-Ebb	0.12	SR11	3/15/2016	Mid-Ebb	0.08
SR9	3/17/2016	Mid-Ebb	0.23	SR11	3/17/2016	Mid-Ebb	0.12
SR9	3/19/2016	Mid-Ebb	0.85	SR11	3/19/2016	Mid-Ebb	0.84
SR9	3/22/2016	Mid-Ebb	0.28	SR11	3/22/2016	Mid-Ebb	0.31
SR9	3/24/2016	Mid-Ebb	0.17	SR11	3/24/2016	Mid-Ebb	0.20
SR9	3/26/2016	Mid-Ebb	0.34	SR11	3/26/2016	Mid-Ebb	0.21
SR9	3/29/2016	Mid-Ebb	0.36	SR11	3/29/2016	Mid-Ebb	0.26
SR9	3/31/2016	Mid-Ebb	0.39	SR11	3/31/2016	Mid-Ebb	0.15
SR9	4/2/2016	Mid-Ebb	0.22	SR11	4/2/2016	Mid-Ebb	0.13
SR9	4/5/2016	Mid-Ebb	0.23	SR11	4/5/2016	Mid-Ebb	0.24
SR9	4/7/2016	Mid-Ebb	0.21	SR11	4/7/2016	Mid-Ebb	0.16
SR9	4/9/2016	Mid-Ebb	0.38	SR11	4/9/2016	Mid-Ebb	0.39
SR9	4/12/2016	Mid-Ebb	0.43	SR11	4/12/2016	Mid-Ebb	0.24
SR9	4/14/2016	Mid-Ebb	0.66	SR11	4/14/2016	Mid-Ebb	0.60
SR9	4/16/2016	Mid-Ebb	0.56	SR11	4/16/2016	Mid-Ebb	0.27
SR9	4/19/2016	Mid-Ebb	0.64	SR11	4/19/2016	Mid-Ebb	0.34
SR9	4/21/2016	Mid-Ebb	0.64	SR11	4/21/2016	Mid-Ebb	0.56
SR10	1/26/2016	Mid-Ebb	0.23				
SR10	1/28/2016	Mid-Ebb	0.1				
SR10	1/30/2016	Mid-Ebb	0.23				
SR10	2/2/2016	Mid-Ebb	0.12				
SR10	2/4/2016	Mid-Ebb	0.14				
SR10	13/2/2016	Mid-Ebb	0.35				
SR10	2/16/2016	Mid-Ebb	0.23				
SR10	2/18/2016	Mid-Ebb	0.19				
SR10	2/20/2016	Mid-Ebb	0.23				
SR10	2/23/2016	Mid-Ebb	0.28				
SR10	2/25/2016	Mid-Ebb	0.19				
SR10	2/27/2016	Mid-Ebb	0.20				
SR10	3/1/2016	Mid-Ebb	0.13				
SR10	3/3/2016	Mid-Ebb	0.07				
SR10	3/5/2016	Mid-Ebb	0.09				
SR10	3/8/2016	Mid-Ebb	0.26				
SR10	3/10/2016	Mid-Ebb	0.12				
SR10	3/12/2016	Mid-Ebb	0.19				
SR10	3/15/2016	Mid-Ebb	0.08				
SR10	3/17/2016	Mid-Ebb	0.08				
SR10	3/19/2016	Mid-Ebb	0.87				
SR10	3/22/2016	Mid-Ebb	0.30				
SR10	3/24/2016	Mid-Ebb	0.20				
SR10	3/26/2016	Mid-Ebb	0.21				
SR10	3/29/2016	Mid-Ebb	0.24				
SR10	3/31/2016	Mid-Ebb	0.13				
SR10	4/2/2016	Mid-Ebb	0.14				
SR10	4/5/2016	Mid-Ebb	0.24				
SR10	4/7/2016	Mid-Ebb	0.22				
SR10	4/9/2016	Mid-Ebb	0.42				
SR10	4/12/2016	Mid-Ebb	0.26				
SR10	4/14/2016	Mid-Ebb	0.63				
SR10	4/16/2016	Mid-Ebb	0.25				
SR10	4/19/2016	Mid-Ebb	0.18				
SR10	4/21/2016	Mid-Ebb	0.65				

Cluster 2 TIN(In-situ)
1.3 x Baseline vs Impact

Baseline (Insitu) x 1.3		Impact (Insitu)	
Raw Statistics		Raw Statistics	
Number of Valid Observations	36	Number of Valid Observations	105
Number of Distinct Observations	35	Number of Distinct Observations	89
Minimum	0.0867	Minimum	0.07
Maximum	0.506	Maximum	0.87
Mean of Raw Data	0.268	Mean of Raw Data	0.267
Standard Deviation of Raw Data	0.0995	Standard Deviation of Raw Data	0.17
Kstar	6.577	Kstar	3.113
Mean of Log Transformed Data	-1.39	Mean of Log Transformed Data	-1.483
Standard Deviation of Log Transformed Data	0.397	Standard Deviation of Log Transformed Data	0.566
Normal Distribution Test Results		Normal Distribution Test Results	
Correlation Coefficient R	0.982	Correlation Coefficient R	0.906
Shapiro Wilk Test Statistic	0.959	Approximate Shapiro Wilk Test Statistic	0.814
Shapiro Wilk Critical (0.95) Value	0.935	Approximate Shapiro Wilk P Value	0
Approximate Shapiro Wilk P Value	2.58E-01	Lilliefors Test Statistic	0.171
Lilliefors Test Statistic	0.123	Lilliefors Critical (0.95) Value	0.0865
Lilliefors Critical (0.95) Value	0.148	Data not Normal at (0.05) Significance Level	
Data appear Normal at (0.05) Significance Level			

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options	
From File	
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Impact (Insitu)
Background Data: Baseline (Insitu) x 1.3

Raw Statistics

	Site	Background
Number of Valid Observations	105	36
Number of Distinct Observations	89	35
Minimum	0.07	0.0867
Maximum	0.87	0.506
Mean	0.267	0.268
Median	0.227	0.26
SD	0.17	0.0995
SE of Mean	0.0166	0.0166

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat	7165
WMW Test U-Stat	-1.374
WMW Critical Value (0.050)	1.645
P-Value	8.48E-02

Conclusion with Alpha = 0.05
Do Not Reject H0, Conclude Site <= Background
P-Value >= alpha (0.05)

Cluster 1 TIN(Lab)
1.3 x Baseline vs Impact

1.3 x Baseline TIN (lab) (mg/L) data			
SR5	1/4/2014	Mid-Flood	0.48
SR5	1/7/2014	Mid-Flood	0.52
SR5	1/9/2014	Mid-Flood	0.48
SR5	1/11/2014	Mid-Flood	0.53
SR5	1/14/2014	Mid-Flood	0.35
SR5	1/16/2014	Mid-Flood	0.43
SR5	1/18/2014	Mid-Flood	0.59
SR5	1/21/2014	Mid-Flood	0.32
SR5	1/23/2014	Mid-Flood	0.55
SR5	1/25/2014	Mid-Flood	0.47
SR5	1/27/2014	Mid-Flood	0.40
SR5	1/29/2014	Mid-Flood	0.66

Impact TIN (lab) (mg/L) data			
SR5	1/26/2016	Mid-Flood	0.21
SR5	1/28/2016	Mid-Flood	0.27
SR5	1/30/2016	Mid-Flood	0.43
SR5	2/2/2016	Mid-Flood	0.22
SR5	2/4/2016	Mid-Flood	0.22
SR5	13/2/2016	Mid-Flood	0.47
SR5	2/16/2016	Mid-Flood	0.35
SR5	2/18/2016	Mid-Flood	0.32
SR5	2/20/2016	Mid-Flood	0.33
SR5	2/23/2016	Mid-Flood	0.38
SR5	2/25/2016	Mid-Flood	0.40
SR5	2/27/2016	Mid-Flood	0.40
SR5	3/1/2016	Mid-Flood	0.35
SR5	3/3/2016	Mid-Flood	0.34
SR5	3/5/2016	Mid-Flood	0.33
SR5	3/8/2016	Mid-Flood	0.36
SR5	3/10/2016	Mid-Flood	0.33
SR5	3/12/2016	Mid-Flood	0.26
SR5	3/15/2016	Mid-Flood	0.21
SR5	3/17/2016	Mid-Flood	0.24
SR5	3/19/2016	Mid-Flood	0.44
SR5	3/22/2016	Mid-Flood	0.43
SR5	3/24/2016	Mid-Flood	0.52
SR5	3/26/2016	Mid-Flood	0.49
SR5	3/29/2016	Mid-Flood	0.63
SR5	3/31/2016	Mid-Flood	0.65
SR5	4/2/2016	Mid-Flood	0.38
SR5	4/5/2016	Mid-Flood	0.59
SR5	4/7/2016	Mid-Flood	0.71
SR5	4/9/2016	Mid-Flood	0.43
SR5	4/12/2016	Mid-Flood	0.49
SR5	4/14/2016	Mid-Flood	0.78
SR5	4/16/2016	Mid-Flood	0.74
SR5	4/19/2016	Mid-Flood	0.64
SR5	4/21/2016	Mid-Flood	1.08

Cluster 1 TIN(Lab)
1.3 x Baseline vs Impact

Baseline (Lab) x 1.3		Impact (Lab)	
Raw Statistics		Raw Statistics	
Number of Valid Observations	12	Number of Valid Observations	35
Number of Distinct Observations	12	Number of Distinct Observations	34
Minimum	0.324	Minimum	0.208
Maximum	0.661	Maximum	1.08
Mean of Raw Data	0.482	Mean of Raw Data	0.44
Standard Deviation of Raw Data	0.0971	Standard Deviation of Raw Data	0.191
Kstar	19.61	Kstar	5.754
Mean of Log Transformed Data	-0.749	Mean of Log Transformed Data	-0.903
Standard Deviation of Log Transformed Data	0.208	Standard Deviation of Log Transformed Data	0.404
Normal Distribution Test Results		Normal Distribution Test Results	
Correlation Coefficient R	0.994	Correlation Coefficient R	0.943
Shapiro Wilk Test Statistic	0.986	Shapiro Wilk Test Statistic	0.895
Shapiro Wilk Critical (0.95) Value	0.859	Shapiro Wilk Critical (0.95) Value	0.934
Approximate Shapiro Wilk P Value	0.993	Approximate Shapiro Wilk P Value	0.00264
Lilliefors Test Statistic	0.108	Lilliefors Test Statistic	0.155
Lilliefors Critical (0.95) Value	0.256	Lilliefors Critical (0.95) Value	0.15
Data appear Normal at (0.05) Significance Level		Data not Normal at (0.05) Significance Level	

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options

From File	
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Impact (Lab)
Background Data: Baseline (Lab) x 1.3

Raw Statistics

	Site	Background
Number of Valid Observations	35	12
Number of Distinct Observations	34	12
Minimum	0.208	0.324
Maximum	1.08	0.661
Mean	0.44	0.482
Median	0.399	0.48
SD	0.191	0.0971
SE of Mean	0.0324	0.028

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat	779
WMW Test U-Stat	-1.5
WMW Critical Value (0.050)	1.645
P-Value	6.67E-02

Conclusion with Alpha = 0.05
Do Not Reject H0, Conclude Site <= Background
P-Value >= alpha (0.05)

Cluster 2 TIN(Lab)
1.3 x Baseline vs Impact

Baseline x 1.3 TIN (lab) (mg/L)			
SR9	1/4/2014	Mid-Ebb	0.10
SR9	1/7/2014	Mid-Ebb	0.16
SR9	1/9/2014	Mid-Ebb	0.38
SR9	1/11/2014	Mid-Ebb	0.40
SR9	1/14/2014	Mid-Ebb	0.23
SR9	1/16/2014	Mid-Ebb	0.22
SR9	1/18/2014	Mid-Ebb	0.13
SR9	1/21/2014	Mid-Ebb	0.04
SR9	1/23/2014	Mid-Ebb	0.03
SR9	1/25/2014	Mid-Ebb	0.03
SR9	1/27/2014	Mid-Ebb	0.03
SR9	1/29/2014	Mid-Ebb	0.03
SR10	1/4/2014	Mid-Ebb	0.19
SR10	1/7/2014	Mid-Ebb	0.20
SR10	1/9/2014	Mid-Ebb	0.20
SR10	1/11/2014	Mid-Ebb	0.21
SR10	1/14/2014	Mid-Ebb	0.14
SR10	1/16/2014	Mid-Ebb	0.13
SR10	1/18/2014	Mid-Ebb	0.13
SR10	1/21/2014	Mid-Ebb	0.12
SR10	1/23/2014	Mid-Ebb	0.15
SR10	1/25/2014	Mid-Ebb	0.08
SR10	1/27/2014	Mid-Ebb	0.09
SR10	1/29/2014	Mid-Ebb	0.12
SR11	1/4/2014	Mid-Ebb	0.18
SR11	1/7/2014	Mid-Ebb	0.17
SR11	1/9/2014	Mid-Ebb	0.19
SR11	1/11/2014	Mid-Ebb	0.21
SR11	1/14/2014	Mid-Ebb	0.14
SR11	1/16/2014	Mid-Ebb	0.12
SR11	1/18/2014	Mid-Ebb	0.10
SR11	1/21/2014	Mid-Ebb	0.12
SR11	1/23/2014	Mid-Ebb	0.18
SR11	1/25/2014	Mid-Ebb	0.12
SR11	1/27/2014	Mid-Ebb	0.07
SR11	1/29/2014	Mid-Ebb	0.09

Impact TIN (lab) (mg/L)							
SR9	1/26/2016	Mid-Ebb	0.24	SR11	1/26/2016	Mid-Ebb	0.22
SR9	1/28/2016	Mid-Ebb	0.2	SR11	1/28/2016	Mid-Ebb	0.2
SR9	1/30/2016	Mid-Ebb	0.29	SR11	1/30/2016	Mid-Ebb	0.21
SR9	2/2/2016	Mid-Ebb	0.22	SR11	2/2/2016	Mid-Ebb	0.14
SR9	2/4/2016	Mid-Ebb	0.30	SR11	2/4/2016	Mid-Ebb	0.14
SR9	13/2/2016	Mid-Ebb	0.52	SR11	13/2/2016	Mid-Ebb	0.33
SR9	2/16/2016	Mid-Ebb	0.35	SR11	2/16/2016	Mid-Ebb	0.20
SR9	2/18/2016	Mid-Ebb	0.34	SR11	2/18/2016	Mid-Ebb	0.21
SR9	2/20/2016	Mid-Ebb	0.30	SR11	2/20/2016	Mid-Ebb	0.23
SR9	2/23/2016	Mid-Ebb	0.31	SR11	2/23/2016	Mid-Ebb	0.28
SR9	2/25/2016	Mid-Ebb	0.30	SR11	2/25/2016	Mid-Ebb	0.18
SR9	2/27/2016	Mid-Ebb	0.33	SR11	2/27/2016	Mid-Ebb	0.17
SR9	3/1/2016	Mid-Ebb	0.18	SR11	3/1/2016	Mid-Ebb	0.10
SR9	3/3/2016	Mid-Ebb	0.18	SR11	3/3/2016	Mid-Ebb	0.07
SR9	3/5/2016	Mid-Ebb	0.08	SR11	3/5/2016	Mid-Ebb	0.09
SR9	3/8/2016	Mid-Ebb	0.12	SR11	3/8/2016	Mid-Ebb	0.25
SR9	3/10/2016	Mid-Ebb	0.29	SR11	3/10/2016	Mid-Ebb	0.13
SR9	3/12/2016	Mid-Ebb	0.14	SR11	3/12/2016	Mid-Ebb	0.18
SR9	3/15/2016	Mid-Ebb	0.14	SR11	3/15/2016	Mid-Ebb	0.09
SR9	3/17/2016	Mid-Ebb	0.23	SR11	3/17/2016	Mid-Ebb	0.12
SR9	3/19/2016	Mid-Ebb	0.86	SR11	3/19/2016	Mid-Ebb	0.85
SR9	3/22/2016	Mid-Ebb	0.29	SR11	3/22/2016	Mid-Ebb	0.31
SR9	3/24/2016	Mid-Ebb	0.18	SR11	3/24/2016	Mid-Ebb	0.21
SR9	3/26/2016	Mid-Ebb	0.32	SR11	3/26/2016	Mid-Ebb	0.22
SR9	3/29/2016	Mid-Ebb	0.38	SR11	3/29/2016	Mid-Ebb	0.28
SR9	3/31/2016	Mid-Ebb	0.41	SR11	3/31/2016	Mid-Ebb	0.15
SR9	4/2/2016	Mid-Ebb	0.23	SR11	4/2/2016	Mid-Ebb	0.12
SR9	4/5/2016	Mid-Ebb	0.24	SR11	4/5/2016	Mid-Ebb	0.25
SR9	4/7/2016	Mid-Ebb	0.19	SR11	4/7/2016	Mid-Ebb	0.14
SR9	4/9/2016	Mid-Ebb	0.39	SR11	4/9/2016	Mid-Ebb	0.40
SR9	4/12/2016	Mid-Ebb	0.43	SR11	4/12/2016	Mid-Ebb	0.22
SR9	4/14/2016	Mid-Ebb	0.65	SR11	4/14/2016	Mid-Ebb	0.63
SR9	4/16/2016	Mid-Ebb	0.57	SR11	4/16/2016	Mid-Ebb	0.25
SR9	4/19/2016	Mid-Ebb	0.66	SR11	4/19/2016	Mid-Ebb	0.31
SR9	4/21/2016	Mid-Ebb	0.64	SR11	4/21/2016	Mid-Ebb	0.59
SR10	1/26/2016	Mid-Ebb	0.23				
SR10	1/28/2016	Mid-Ebb	0.2				
SR10	1/30/2016	Mid-Ebb	0.24				
SR10	2/2/2016	Mid-Ebb	0.14				
SR10	2/4/2016	Mid-Ebb	0.14				
SR10	13/2/2016	Mid-Ebb	0.35				
SR10	2/16/2016	Mid-Ebb	0.23				
SR10	2/18/2016	Mid-Ebb	0.21				
SR10	2/20/2016	Mid-Ebb	0.24				
SR10	2/23/2016	Mid-Ebb	0.28				
SR10	2/25/2016	Mid-Ebb	0.20				
SR10	2/27/2016	Mid-Ebb	0.22				
SR10	3/1/2016	Mid-Ebb	0.14				
SR10	3/3/2016	Mid-Ebb	0.07				
SR10	3/5/2016	Mid-Ebb	0.09				
SR10	3/8/2016	Mid-Ebb	0.25				
SR10	3/10/2016	Mid-Ebb	0.13				
SR10	3/12/2016	Mid-Ebb	0.19				
SR10	3/15/2016	Mid-Ebb	0.08				
SR10	3/17/2016	Mid-Ebb	0.11				
SR10	3/19/2016	Mid-Ebb	0.88				
SR10	3/22/2016	Mid-Ebb	0.31				
SR10	3/24/2016	Mid-Ebb	0.20				
SR10	3/26/2016	Mid-Ebb	0.22				
SR10	3/29/2016	Mid-Ebb	0.27				
SR10	3/31/2016	Mid-Ebb	0.15				
SR10	4/2/2016	Mid-Ebb	0.13				
SR10	4/5/2016	Mid-Ebb	0.24				
SR10	4/7/2016	Mid-Ebb	0.22				
SR10	4/9/2016	Mid-Ebb	0.41				
SR10	4/12/2016	Mid-Ebb	0.27				
SR10	4/14/2016	Mid-Ebb	0.64				
SR10	4/16/2016	Mid-Ebb	0.24				
SR10	4/19/2016	Mid-Ebb	0.16				
SR10	4/21/2016	Mid-Ebb	0.64				

Baseline (Lab) x 1.3		Impact (Lab)	
Raw Statistics		Raw Statistics	
Number of Valid Observations	36	Number of Valid Observations	105
Number of Distinct Observations	31	Number of Distinct Observations	90
Minimum	0.026	Minimum	0.0711
Maximum	0.396	Maximum	0.881
Mean of Raw Data	0.145	Mean of Raw Data	0.272
Standard Deviation of Raw Data	0.0824	Standard Deviation of Raw Data	0.171
Kstar	2.637	Kstar	3.208
Mean of Log Transformed Data	-2.115	Mean of Log Transformed Data	-1.46
Standard Deviation of Log Transformed Data	0.68	Standard Deviation of Log Transformed Data	0.556
Normal Distribution Test Results		Normal Distribution Test Results	
Correlation Coefficient R	0.947	Correlation Coefficient R	0.903
Shapiro Wilk Test Statistic	0.9	Approximate Shapiro Wilk Test Statistic	0.809
Shapiro Wilk Critical (0.95) Value	0.935	Approximate Shapiro Wilk P Value	0.00E+00
Approximate Shapiro Wilk P Value	3.19E-03	Lilliefors Test Statistic	0.18
Lilliefors Test Statistic	0.114	Lilliefors Critical (0.95) Value	0.0865
Lilliefors Critical (0.95) Value	0.148	Data not Normal at (0.05) Significance Level	
Data not Normal at (0.05) Significance Level			

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options	
From File	
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Impact (Lab)
Background Data: Baseline (Lab) x 1.3

Raw Statistics

	Site	Background
Number of Valid Observations	105	36
Number of Distinct Observations	90	31
Minimum	0.0711	0.026
Maximum	0.881	0.396
Mean	0.272	0.145
Median	0.229	0.133
SD	0.171	0.0824
SE of Mean	0.0167	0.0137

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat	8531
WMW Test U-Stat	5.085
WMW Critical Value (0.050)	1.65E+00
P-Value	1.84E-07

Conclusion with Alpha = 0.05
Reject H0, Conclude Site > Background
P-Value < alpha (0.05)

Cluster 2 TIN(Lab)
G1 vs Impact

G1 TIN (lab) (mg/L)		
G1	1/26/2016 Mid-Ebb	0.24
G1	1/28/2016 Mid-Ebb	0.2
G1	1/30/2016 Mid-Ebb	0.45
G1	2/2/2016 Mid-Ebb	0.19
G1	2/4/2016 Mid-Ebb	0.19
G1	13/2/2016 Mid-Ebb	0.53
G1	2/16/2016 Mid-Ebb	0.34
G1	2/18/2016 Mid-Ebb	0.34
G1	2/20/2016 Mid-Ebb	0.34
G1	2/23/2016 Mid-Ebb	0.37
G1	2/25/2016 Mid-Ebb	0.37
G1	2/27/2016 Mid-Ebb	0.35
G1	3/1/2016 Mid-Ebb	0.35
G1	3/3/2016 Mid-Ebb	0.37
G1	3/5/2016 Mid-Ebb	0.37
G1	3/8/2016 Mid-Ebb	0.39
G1	3/10/2016 Mid-Ebb	0.30
G1	3/12/2016 Mid-Ebb	0.22
G1	3/15/2016 Mid-Ebb	0.24
G1	3/17/2016 Mid-Ebb	0.24
G1	3/19/2016 Mid-Ebb	0.43
G1	3/22/2016 Mid-Ebb	0.45
G1	3/24/2016 Mid-Ebb	0.51
G1	3/26/2016 Mid-Ebb	0.45
G1	3/29/2016 Mid-Ebb	0.64
G1	3/31/2016 Mid-Ebb	0.78
G1	4/2/2016 Mid-Ebb	0.45
G1	4/5/2016 Mid-Ebb	0.69
G1	4/7/2016 Mid-Ebb	0.69
G1	4/9/2016 Mid-Ebb	0.50
G1	4/12/2016 Mid-Ebb	0.44
G1	4/14/2016 Mid-Ebb	0.87
G1	4/16/2016 Mid-Ebb	1.00
G1	4/19/2016 Mid-Ebb	0.77
G1	4/21/2016 Mid-Ebb	1.00

Impact TIN (lab) (mg/L)					
SR9	1/26/2016 Mid-Ebb	0.24	SR11	1/26/2016 Mid-Ebb	0.22
SR9	1/28/2016 Mid-Ebb	0.2	SR11	1/28/2016 Mid-Ebb	0.2
SR9	1/30/2016 Mid-Ebb	0.29	SR11	1/30/2016 Mid-Ebb	0.21
SR9	2/2/2016 Mid-Ebb	0.22	SR11	2/2/2016 Mid-Ebb	0.14
SR9	2/4/2016 Mid-Ebb	0.30	SR11	2/4/2016 Mid-Ebb	0.14
SR9	13/2/2016 Mid-Ebb	0.52	SR11	13/2/2016 Mid-Ebb	0.33
SR9	2/16/2016 Mid-Ebb	0.35	SR11	2/16/2016 Mid-Ebb	0.20
SR9	2/18/2016 Mid-Ebb	0.34	SR11	2/18/2016 Mid-Ebb	0.21
SR9	2/20/2016 Mid-Ebb	0.30	SR11	2/20/2016 Mid-Ebb	0.23
SR9	2/23/2016 Mid-Ebb	0.31	SR11	2/23/2016 Mid-Ebb	0.28
SR9	2/25/2016 Mid-Ebb	0.30	SR11	2/25/2016 Mid-Ebb	0.18
SR9	2/27/2016 Mid-Ebb	0.33	SR11	2/27/2016 Mid-Ebb	0.17
SR9	3/1/2016 Mid-Ebb	0.18	SR11	3/1/2016 Mid-Ebb	0.10
SR9	3/3/2016 Mid-Ebb	0.18	SR11	3/3/2016 Mid-Ebb	0.07
SR9	3/5/2016 Mid-Ebb	0.08	SR11	3/5/2016 Mid-Ebb	0.09
SR9	3/8/2016 Mid-Ebb	0.12	SR11	3/8/2016 Mid-Ebb	0.25
SR9	3/10/2016 Mid-Ebb	0.29	SR11	3/10/2016 Mid-Ebb	0.13
SR9	3/12/2016 Mid-Ebb	0.14	SR11	3/12/2016 Mid-Ebb	0.18
SR9	3/15/2016 Mid-Ebb	0.14	SR11	3/15/2016 Mid-Ebb	0.09
SR9	3/17/2016 Mid-Ebb	0.23	SR11	3/17/2016 Mid-Ebb	0.12
SR9	3/19/2016 Mid-Ebb	0.86	SR11	3/19/2016 Mid-Ebb	0.85
SR9	3/22/2016 Mid-Ebb	0.29	SR11	3/22/2016 Mid-Ebb	0.31
SR9	3/24/2016 Mid-Ebb	0.18	SR11	3/24/2016 Mid-Ebb	0.21
SR9	3/26/2016 Mid-Ebb	0.32	SR11	3/26/2016 Mid-Ebb	0.22
SR9	3/29/2016 Mid-Ebb	0.38	SR11	3/29/2016 Mid-Ebb	0.28
SR9	3/31/2016 Mid-Ebb	0.41	SR11	3/31/2016 Mid-Ebb	0.15
SR9	4/2/2016 Mid-Ebb	0.23	SR11	4/2/2016 Mid-Ebb	0.12
SR9	4/5/2016 Mid-Ebb	0.24	SR11	4/5/2016 Mid-Ebb	0.25
SR9	4/7/2016 Mid-Ebb	0.19	SR11	4/7/2016 Mid-Ebb	0.14
SR9	4/9/2016 Mid-Ebb	0.39	SR11	4/9/2016 Mid-Ebb	0.40
SR9	4/12/2016 Mid-Ebb	0.43	SR11	4/12/2016 Mid-Ebb	0.22
SR9	4/14/2016 Mid-Ebb	0.65	SR11	4/14/2016 Mid-Ebb	0.63
SR9	4/16/2016 Mid-Ebb	0.57	SR11	4/16/2016 Mid-Ebb	0.25
SR9	4/19/2016 Mid-Ebb	0.66	SR11	4/19/2016 Mid-Ebb	0.31
SR9	4/21/2016 Mid-Ebb	0.64	SR11	4/21/2016 Mid-Ebb	0.59
SR10	1/26/2016 Mid-Ebb	0.23			
SR10	1/28/2016 Mid-Ebb	0.2			
SR10	1/30/2016 Mid-Ebb	0.24			
SR10	2/2/2016 Mid-Ebb	0.14			
SR10	2/4/2016 Mid-Ebb	0.14			
SR10	13/2/2016 Mid-Ebb	0.35			
SR10	2/16/2016 Mid-Ebb	0.23			
SR10	2/18/2016 Mid-Ebb	0.21			
SR10	2/20/2016 Mid-Ebb	0.24			
SR10	2/23/2016 Mid-Ebb	0.28			
SR10	2/25/2016 Mid-Ebb	0.20			
SR10	2/27/2016 Mid-Ebb	0.22			
SR10	3/1/2016 Mid-Ebb	0.14			
SR10	3/3/2016 Mid-Ebb	0.07			
SR10	3/5/2016 Mid-Ebb	0.09			
SR10	3/8/2016 Mid-Ebb	0.25			
SR10	3/10/2016 Mid-Ebb	0.13			
SR10	3/12/2016 Mid-Ebb	0.19			
SR10	3/15/2016 Mid-Ebb	0.08			
SR10	3/17/2016 Mid-Ebb	0.11			
SR10	3/19/2016 Mid-Ebb	0.88			
SR10	3/22/2016 Mid-Ebb	0.31			
SR10	3/24/2016 Mid-Ebb	0.20			
SR10	3/26/2016 Mid-Ebb	0.22			
SR10	3/29/2016 Mid-Ebb	0.27			
SR10	3/31/2016 Mid-Ebb	0.15			
SR10	4/2/2016 Mid-Ebb	0.13			
SR10	4/5/2016 Mid-Ebb	0.24			
SR10	4/7/2016 Mid-Ebb	0.22			
SR10	4/9/2016 Mid-Ebb	0.41			
SR10	4/12/2016 Mid-Ebb	0.27			
SR10	4/14/2016 Mid-Ebb	0.64			
SR10	4/16/2016 Mid-Ebb	0.24			
SR10	4/19/2016 Mid-Ebb	0.16			
SR10	4/21/2016 Mid-Ebb	0.64			

Impact (Lab)		G1 (Lab)	
Raw Statistics		Raw Statistics	
Number of Valid Observations	104	Number of Valid Observations	35
Number of Distinct Observations	90	Number of Distinct Observations	32
Minimum	0.0711	Minimum	0.19
Maximum	0.881	Maximum	1
Mean of Raw Data	0.269	Mean of Raw Data	0.46
Standard Deviation of Raw Data	0.168	Standard Deviation of Raw Data	0.219
Kstar	3.272	Kstar	4.674
Mean of Log Transformed Data	-1.47	Mean of Log Transformed Data	-0.879
Standard Deviation of Log Transformed Data	0.549	Standard Deviation of Log Transformed Data	0.453
Normal Distribution Test Results		Normal Distribution Test Results	
Correlation Coefficient R	0.9	Correlation Coefficient R	0.945
Approximate Shapiro Wilk Test Statistic	0.806	Shapiro Wilk Test Statistic	0.882
Approximate Shapiro Wilk P Value	0.00E+00	Shapiro Wilk Critical (0.95) Value	0.934
Lilliefors Test Statistic	0.179	Approximate Shapiro Wilk P Value	0.0011
Lilliefors Critical (0.95) Value	0.0869	Lilliefors Test Statistic	0.197
Data not Normal at (0.05) Significance Level		Lilliefors Critical (0.95) Value	0.15
		Data not Normal at (0.05) Significance Level	

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options	
From File	
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Impact (Lab)
Background Data: G1 (Lab)

Raw Statistics

	Site	Background
Number of Valid Observations	104	35
Number of Distinct Observations	90	32
Minimum	0.0711	0.19
Maximum	0.881	1
Mean	0.269	0.46
Median	0.229	0.388
SD	0.168	0.219
SE of Mean	0.0165	0.037

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat	6162
WMW Test U-Stat	-5.428
WMW Critical Value (0.050)	1.65E+00
P-Value	2.86E-08

Conclusion with Alpha = 0.05
Do Not Reject H0, Conclude Site <= Background
P-Value < alpha (0.05)