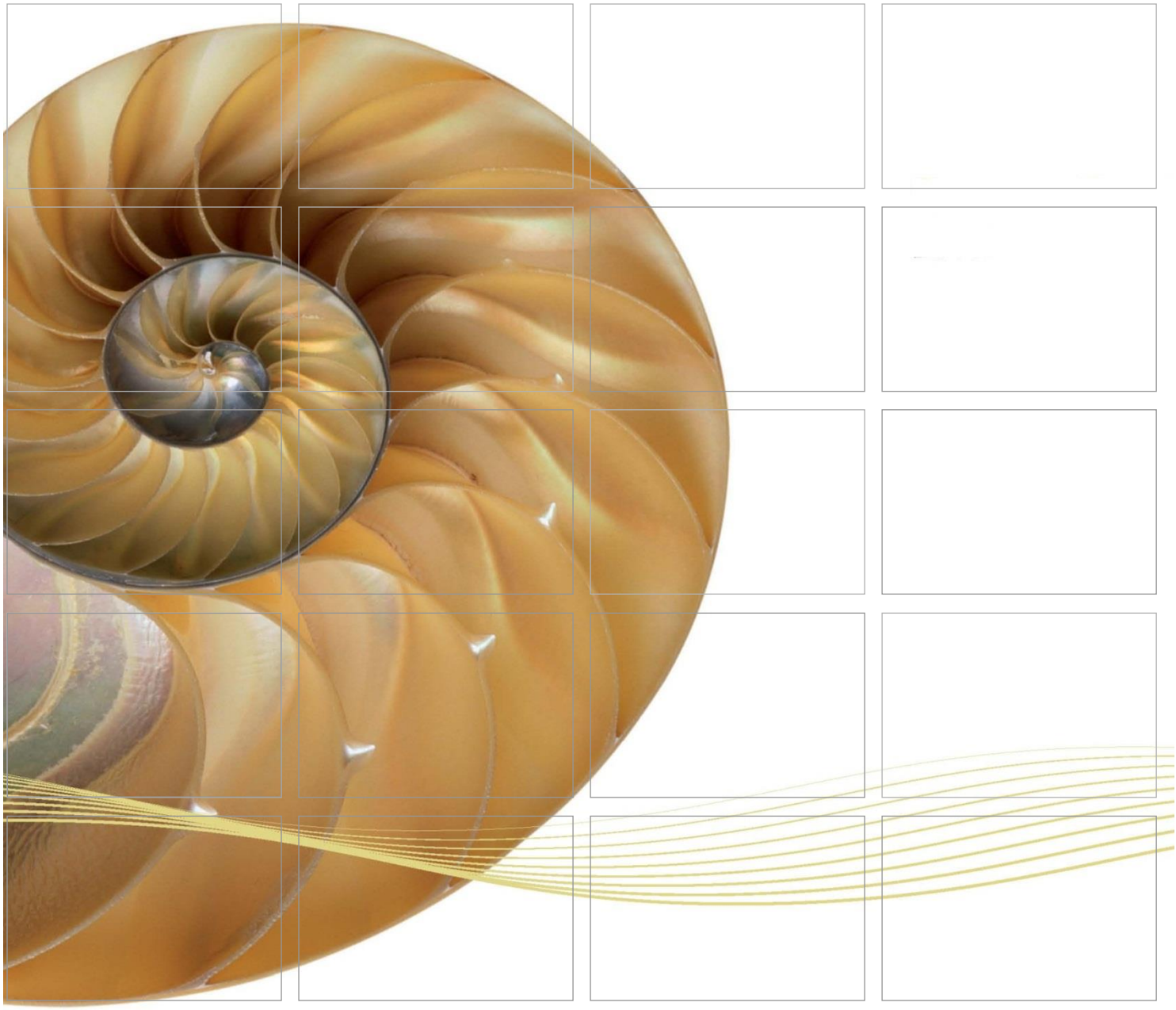
REPORT



Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

Thirty-sixth Monthly EM&A Report

11 November 2016

Environmental Resources Management
16/F, Berkshire House
25 Westlands Road
Quarry Bay, Hong Kong
Telephone 2271 3000
Facsimile 2723 5660

www.erm.com

ERM

The business of sustainability

RAMBOLL ENVIRON

Ref.: HYDHZMBEEM00_0_4745L.16 11 November 2016

AECOM By Fax (3691 2899) and By Post
Supervising Officer's Representative's Office
780 Cheung Tung Road, Lantau, N.T.

Attention: Mr. Daniel Ip

Dear Mr. Ip,

Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section
36th Monthly EM&A Report for October 2016 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Oct. 2016) (ET's ref.: "0215660_36th Monthly EM&A_20161111.doc" dated 11 Nov. 2016) certified by the ET Leader and provided to us via e-mail on 11 Nov. 2016.

Please be informed that we have no adverse comments on the captioned monthly EM&A report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,

F. C. Tsang
Independent Environmental Checker
Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614)
HyD – Mr. Vico Cheung (By Fax: 3188 6614)
AECOM – Mr. Conrad Ng (By Fax: 3922 9797)
ERM – Mr. Jovy Tam (By Fax: 2723 5660)
Gammon – Mr. Roy Leung (By Fax: 3520 0486)

Internal: DY, YH, ENPO Site

Q:\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\HYDHZMBEEM00_0_4745L.16.docx

Ramboll Environ Hong Kong Limited 英環香港有限公司
Room 2403, 24/F., Jubilee Centre, 18 Fenwick Street, Wanchai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899
www.Ramboll-Environ.com

Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

Thirty-sixth Monthly EM&A Report

Environmental Resources Management

16/F, Berkshire House
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660
E-mail: post.hk@erm.com
http://www.erm.com

Document Code: 0215660_36th Monthly EM&A_20161111.doc

Client: Gammon	Project No: 0215660
Summary: This document presents the Thirty-sixth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.	Date: 11 November 2016 Approved by: *Mr Craig Reid* *Partner* Certified by: *Mr Jovy Tam* *ET Leader*

Revision	Description	By	Checked	Approved	Date
	Thirty-sixth Monthly EM&A Report	VAR	JT	CAR	11/11/16

Distribution

☐ Internal

☒ Public

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OHSAS 18001:2007 Certificate No. OHS 515956

ISO 9001 : 2008 Certificate No. FS 32515

TABLE OF CONTENTS

List of Appendices

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Environ Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07*. Another part of the southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2018. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the Thirty-sixth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 October 2016 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and

- Installation of deck segment and pier head segment.

Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour TSP Monitoring	4 sessions
1-hour TSP Monitoring	4 sessions
Noise Monitoring	4 sessions
Impact Water Quality Monitoring	12 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	4 sessions

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for construction air quality monitoring in the reporting month.

Breaches of Action and Limit Levels for Noise

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting month.

Breaches of Action and Limit Levels for Water Quality

No exceedance of Action and Limit Levels was recorded for water quality impact monitoring in the reporting period.

Impact Dolphin Monitoring

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where

comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in October 2016 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the next monitoring period of November 2016 include the following:

Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

F**uture Key Issues**

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of November 2016 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

1 INTRODUCTION

1.1 BACKGROUND

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process* (*EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (*EP-354/2009*) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (*EP-354/2009/A*) was issued on 8 December 2010.

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of TM-CLKL ("the Contract") while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-*

354/2009/D was handed-over to *Contract No. HY/2012/07*. Another part of the southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well environmental site inspections, commenced on 31 October 2013.

The general layout plan of the Contract components is presented in *Figures 1.1 & 1.2a to l.*

1.2 SCOPE OF REPORT

This is the Thirty-sixth Monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section*. This report presents a summary of the environmental monitoring and audit works in October 2016.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

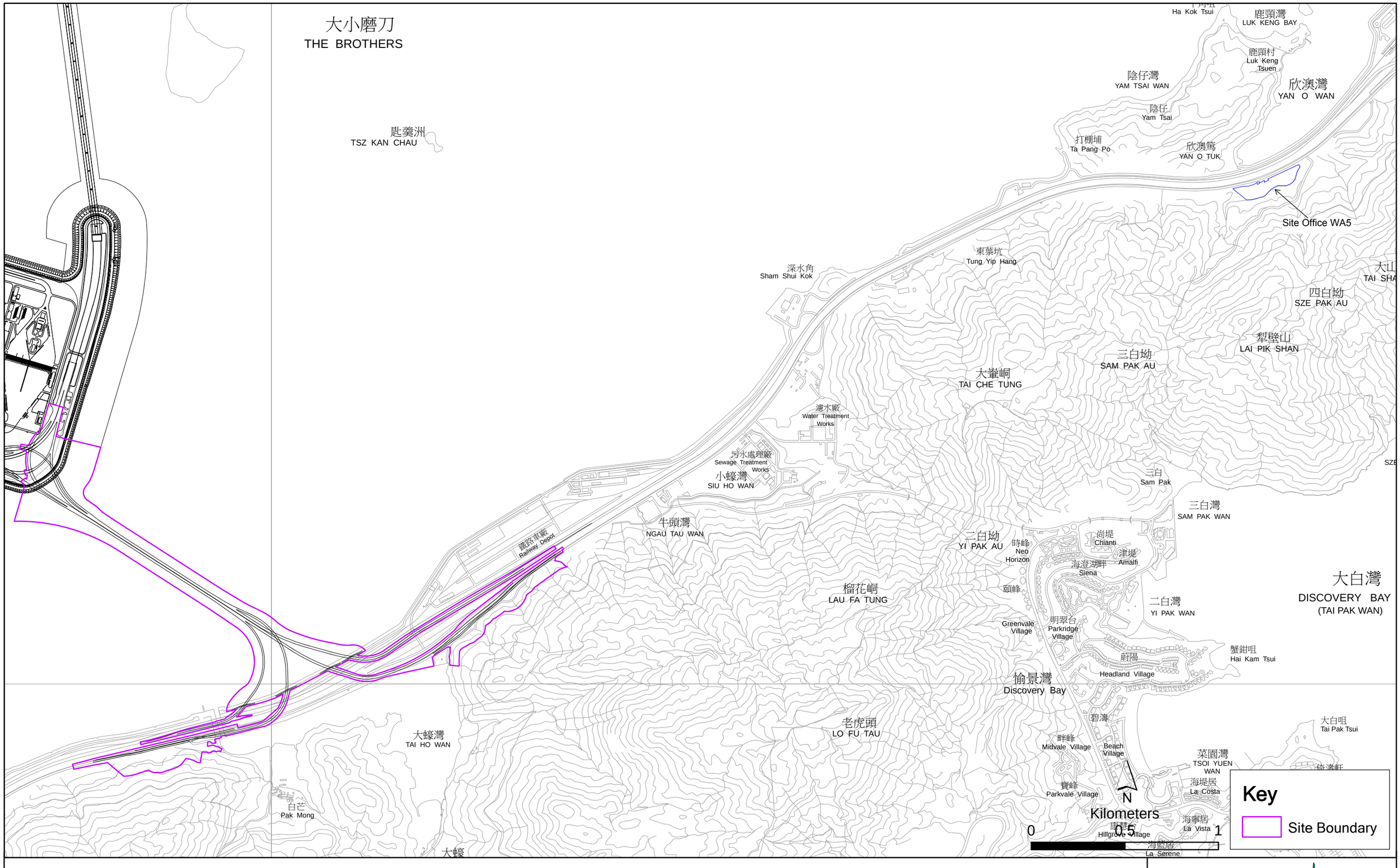

Figure 1.1

General Layout Plan of the Project

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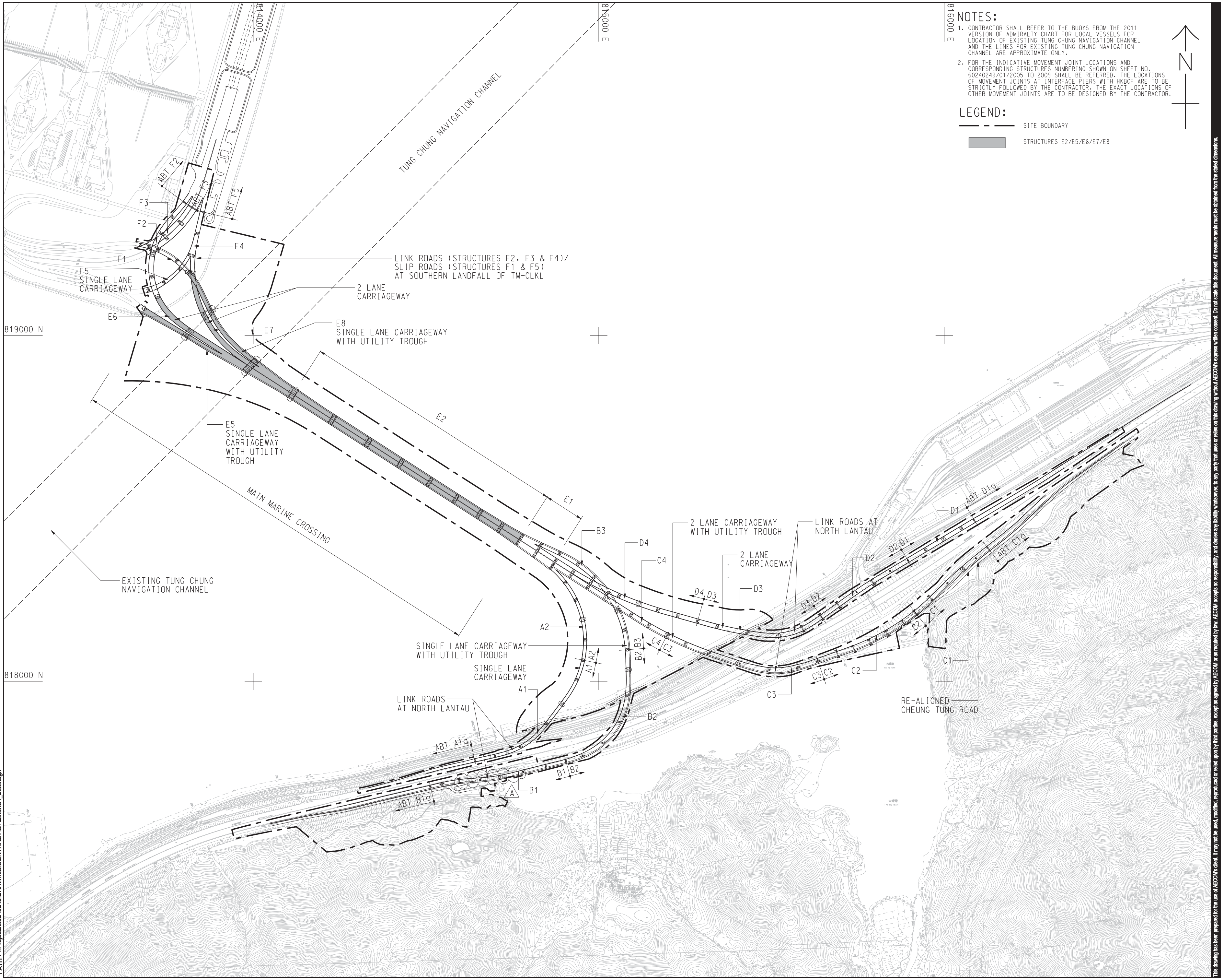
Date: 6/8/2014

Environmental Resources Management

ERM



NOTES:

1. CONTRACTOR SHALL REFER TO THE BUOYS FROM THE 2011 VERSION OF ADMIRALTY CHART FOR LOCAL VESSELS FOR LOCATION OF EXISTING TUNG CHUNG NAVIGATION CHANNEL AND THE LINES FOR EXISTING TUNG CHUNG NAVIGATION CHANNEL ARE APPROXIMATE ONLY.
2. FOR THE INDICATIVE MOVEMENT JOINT LOCATIONS AND CORRESPONDING STRUCTURES NUMBERING SHOWN ON SHEET NO. 60240249/C1/2005 TO 2009 SHALL BE REFERRED. THE LOCATIONS OF MOVEMENT JOINTS AT INTERFACE PIERS WITH HKBCF ARE TO BE STRICTLY FOLLOWED BY THE CONTRACTOR. THE EXACT LOCATIONS OF OTHER MOVEMENT JOINTS ARE TO BE DESIGNED BY THE CONTRACTOR.

LEGEND:

SITE BOUNDARY

STRUCTURES E2/E5/E6/E7/E8

N

Project Management Initials: Designer: LKWB Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

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AECOM

PROJECT 項目

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

CLIENT 業主

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

Figure 1.2a

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
A	NOV. 12	TENDER ADDENDUM NO. 1	CWN
-	OCT. 12	TENDER DRAWING	CWN

STATUS 階段

SCALE 比例: A1 1 : 5000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號: 60240249

CONTRACT NO. 合約編號: HY/2012/07

SHEET TITLE 圖紙名稱

SOUTHERN CONNECTION GENERAL LAYOUT PLAN

SHEET NUMBER 圖紙編號

60240249/C1/2000A

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.

KEY PLAN

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBH01 PROPOSED BOREHOLE
- TP01 PROPOSED TRIAL PIT
- CH01 PROPOSED COREHOLE
- SS01 SS02 PROPOSED SLOPE STRIPPING

Rev	Description	By	Date	Rev	Description	By	Date
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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

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Checked: DS — Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT, Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Project Title: Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Drawing title: **Figure 1.2b**

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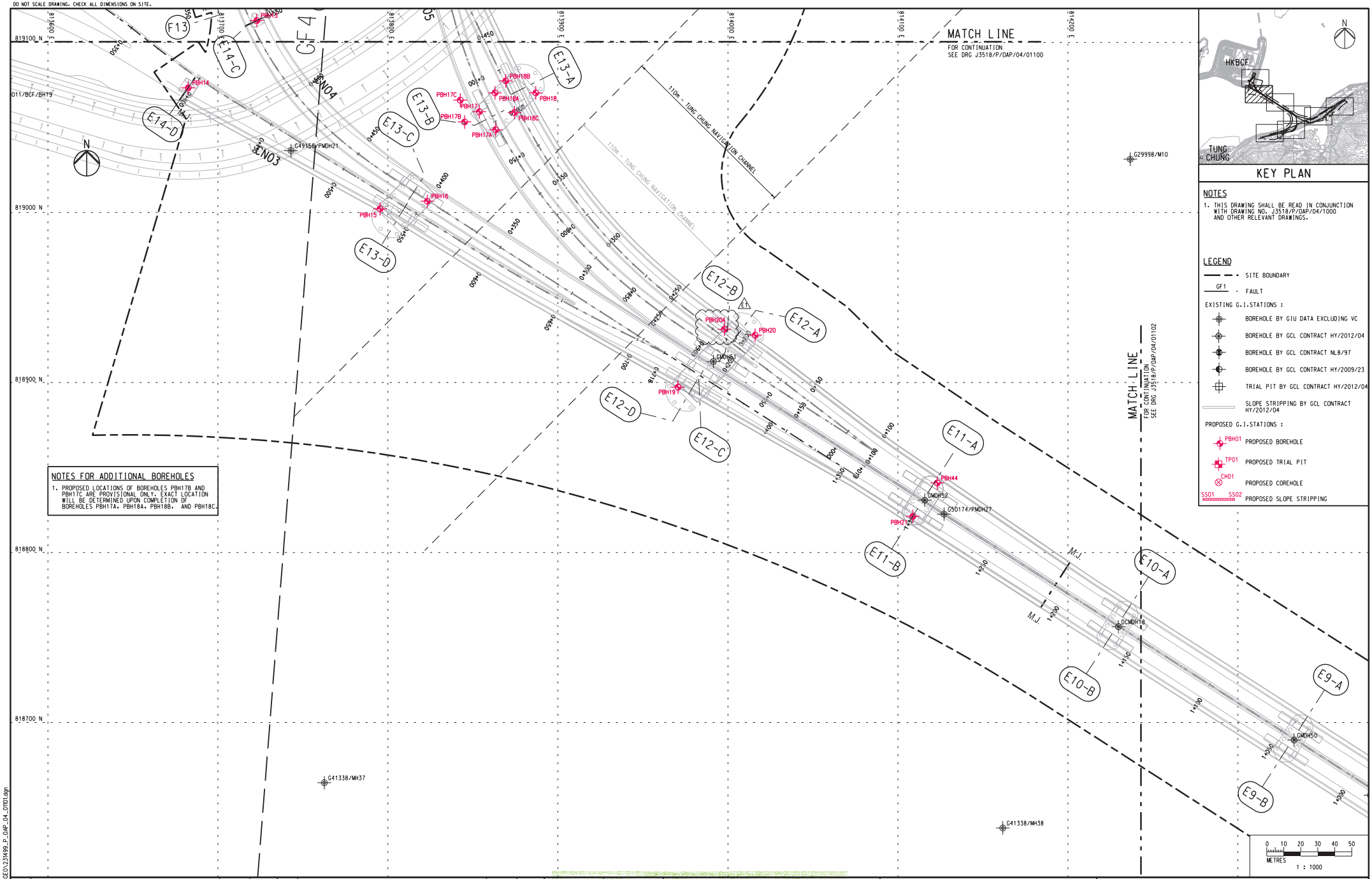

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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				
D	SUBMISSION	RC	10/13				
E1	FOR INTERNAL REVIEW	RC	11/13				

Drawn: RL — Date: 07/13
Checked: DS — Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT 香港項大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Drawing title: **Figure 1.2c**

Drawing no. J3518/P/OAP/04/01101 Rev. E1

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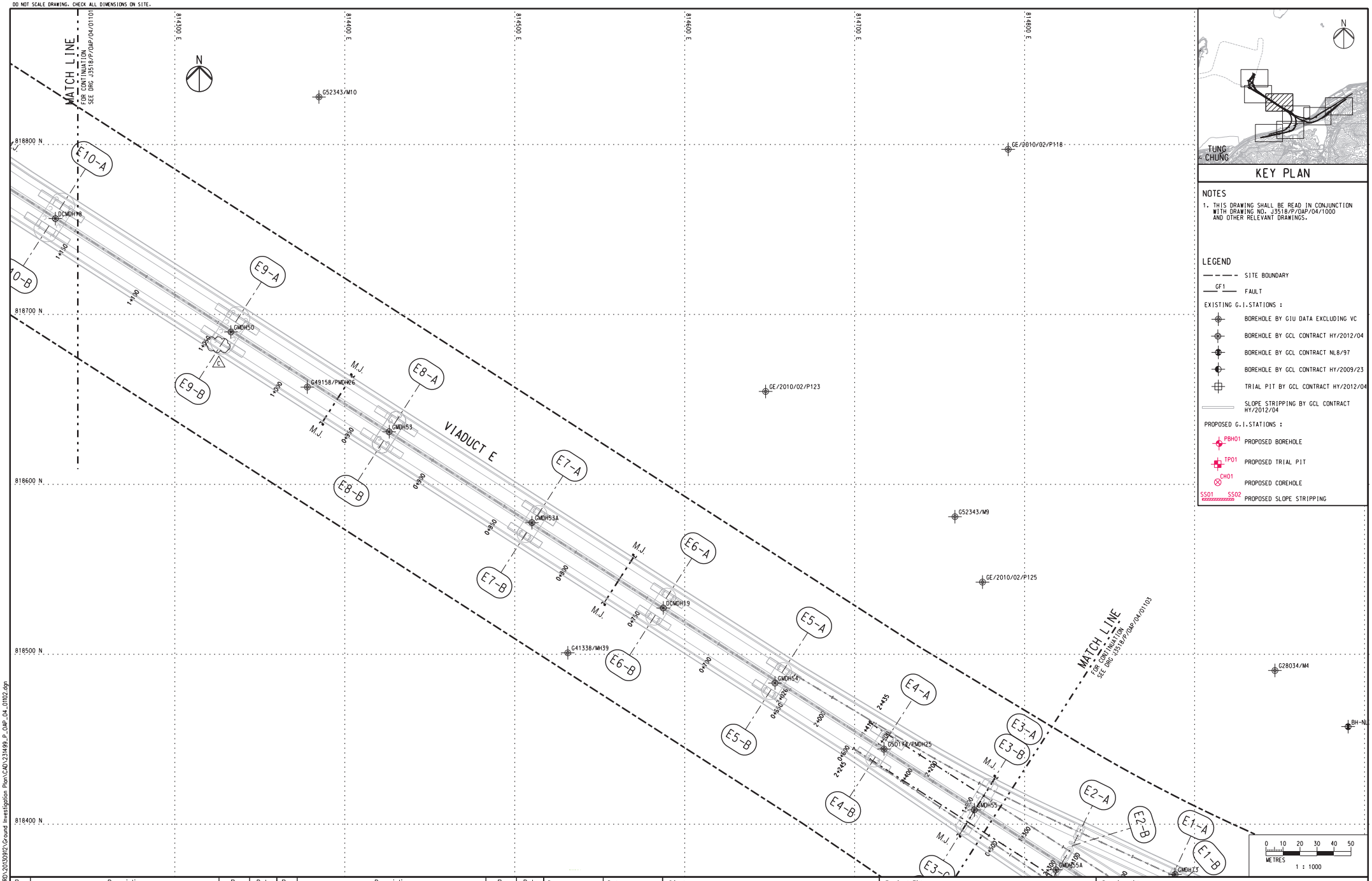

Rev	Description	By	Date
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C	SUBMISSION	RC	09/13

Drawn: RL | Date: 07/13
Checked: DS | Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong-Zhuhai-Macao Bridge Hong Kong Project Management Office

Project Title: Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Supervising Officer: AECOM
Contractor: Gammon
Originator: ARUP

Drawing title: **Figure 1.2d**

Drawing no. J3518/P/OAP/04/01102 Rev. C

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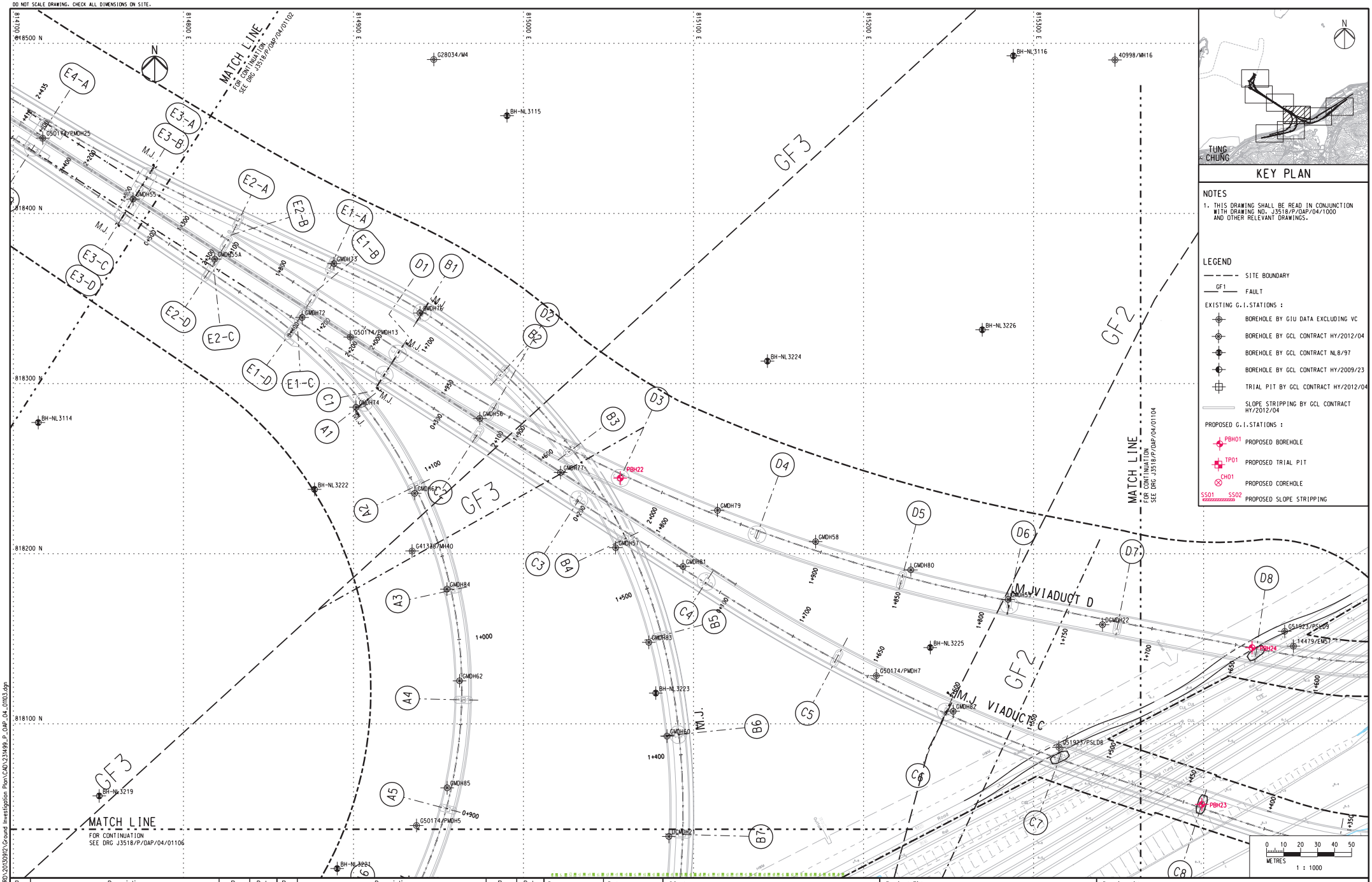

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C	SUBMISSION	RC	09/13				

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Checked: DS — Approved: DOP
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Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: **Figure 1.2e**

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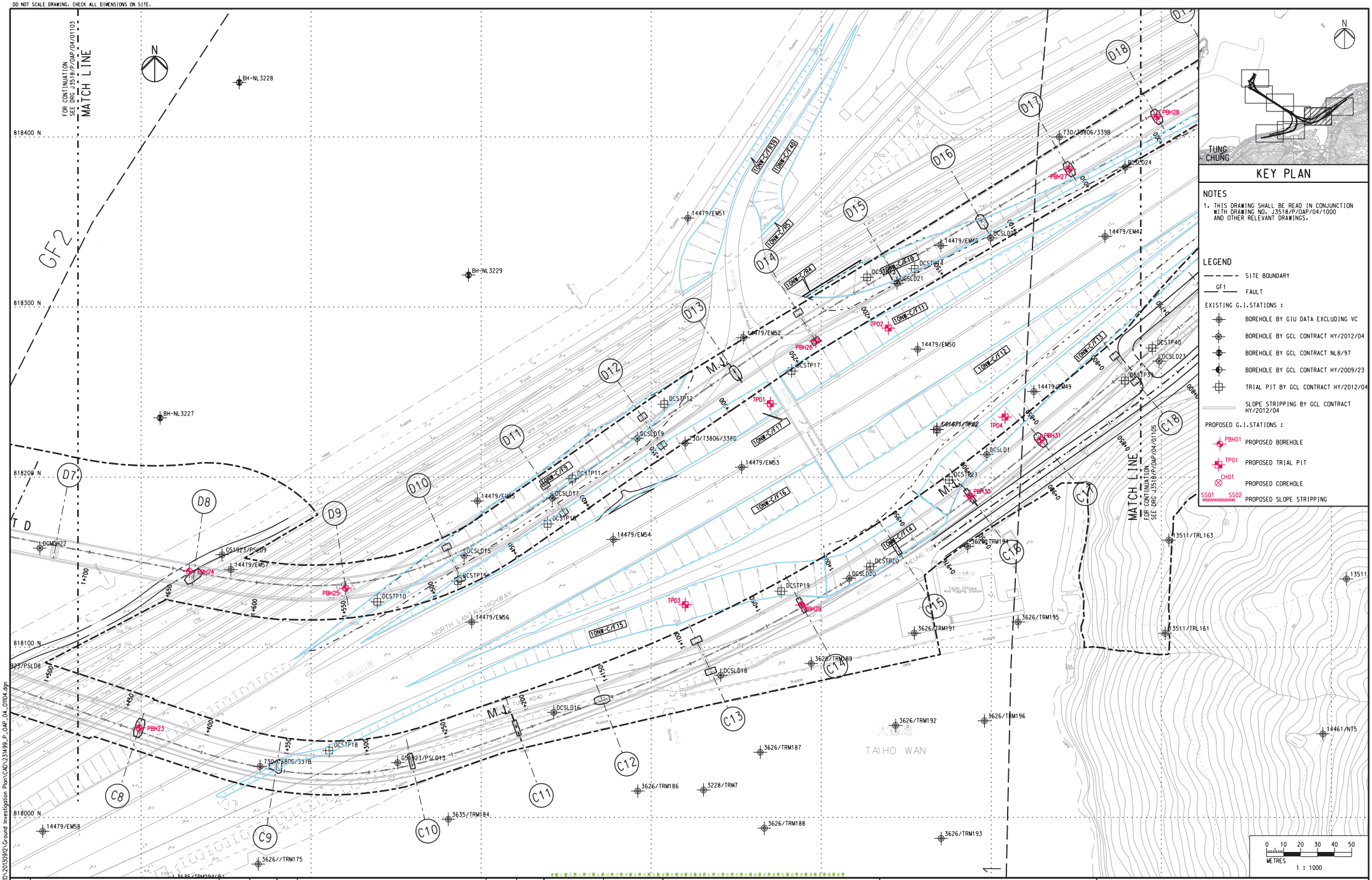

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C	SUBMISSION	RC	09/13				

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Approved	DOP
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Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: **Figure 1.2f**

Drawing no. J3518/P/OAP/04/01104 Rev. C

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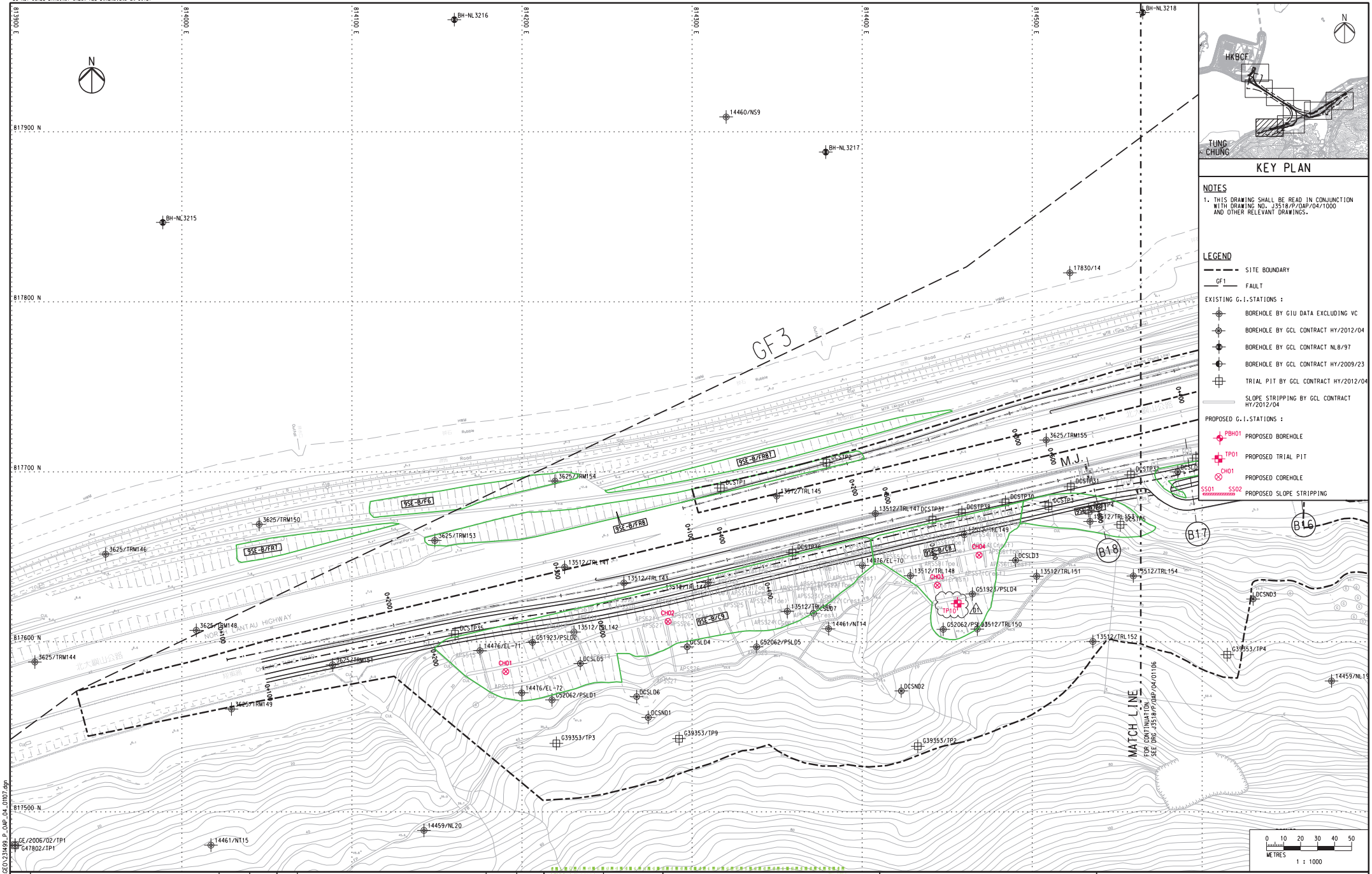

KEY PLAN

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBH01 PROPOSED BOREHOLE
- TP01 PROPOSED TRIAL PIT
- CH01 PROPOSED COREHOLE
- SS01 SS02 PROPOSED SLOPE STRIPPING

0 10 20 30 40 50 METRES

1 : 1000

Rev	Description	By	Date	Rev	Description	By	Date
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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				
D1	FOR INTERNAL REVIEW	RC	11/13				

Drawn: RL — Date: 07/13

Checked: DS — Approved: DOP

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Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: **Figure 1.2g**

Drawing no. J3518/P/OAP/04/01107 Rev. D1

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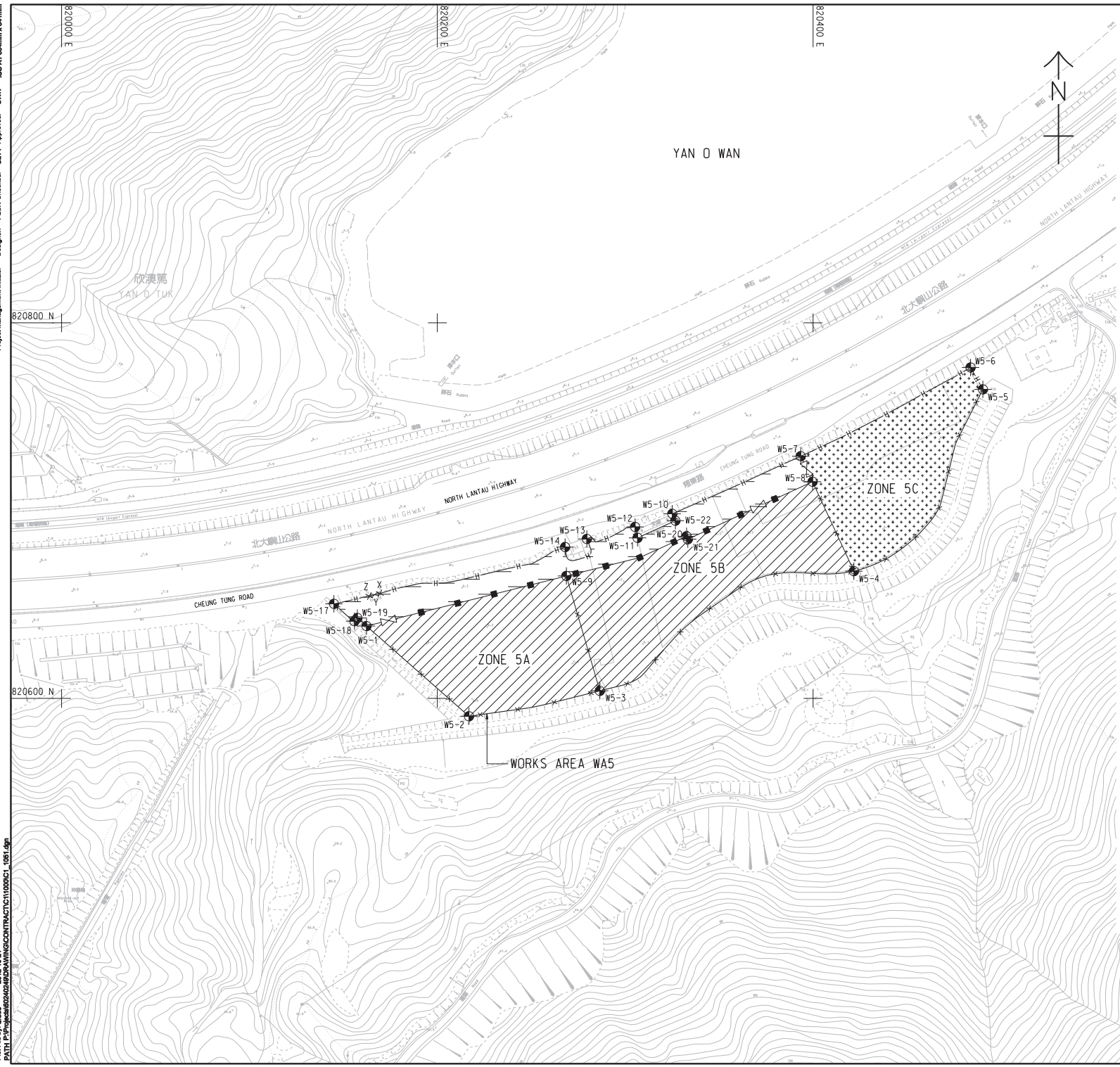


NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TIS 619. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
3. DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
4. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6110 AND H6111 FOR DETAILS OF HOARDING.
5. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
6. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
7. CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
8. THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
9. NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
10. THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
11. THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL RELATED CONTRACTS. THE AREAS HATCHED WITH ▨ ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.
12. THE COMMON AREA SHALL BE CONCRETE PAVED BY THE CONTRACTOR.

LEGEND:

- WORKS AREA UNDER THIS CONTRACT
- COMMON AREA (MAINTAINED UNDER THIS CONTRACT) TO BE SHARE-USED WITH OTHER CONTRACTS
- WORKS AREA FOR THIS CONTRACT TO BE EARLY HANDED OVER BY THE CONTRACTOR.
- H — HOARDING AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)

SETTING OUT COORDINATES OF WORKS AREA WA5

POINT	COORDINATES	
	EASTING	NORTHING
W5-1	820162.308	820638.492
W5-2	820216.839	820590.455
W5-3	820286.496	820603.985
W5-4	820421.757	820667.742
W5-5	820490.425	820764.554
W5-6	820483.839	820776.180
W5-7	820393.451	820728.958
W5-8	820399.746	820715.343
W5-9	820268.674	820665.173
W5-10	820325.075	820698.276
W5-11	820306.587	820685.458
W5-12	820305.269	820691.287
W5-13	820279.580	820684.863
W5-14	820268.027	820680.572
X	820169.407	820655.859
Y	820166.601	820655.172
Z	820163.794	820654.484
W5-17	820144.957	820650.334
W5-18	820155.899	820641.093
W5-19	820157.432	820642.788
W5-20	820332.642	820686.314
W5-21	820333.350	820684.738
W5-22	820326.723	820694.608

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

VR	DATE	DESCRIPTION	CHK.
-	OCT. 12	TENDER DRAWING	CWN

STATUS

SCALE: A1 1 : 1000
DIMENSION UNIT: METRES

KEY PLAN

Figure 1.2h

PROJECT NO.: 60240249
CONTRACT NO.: HY/2012/07

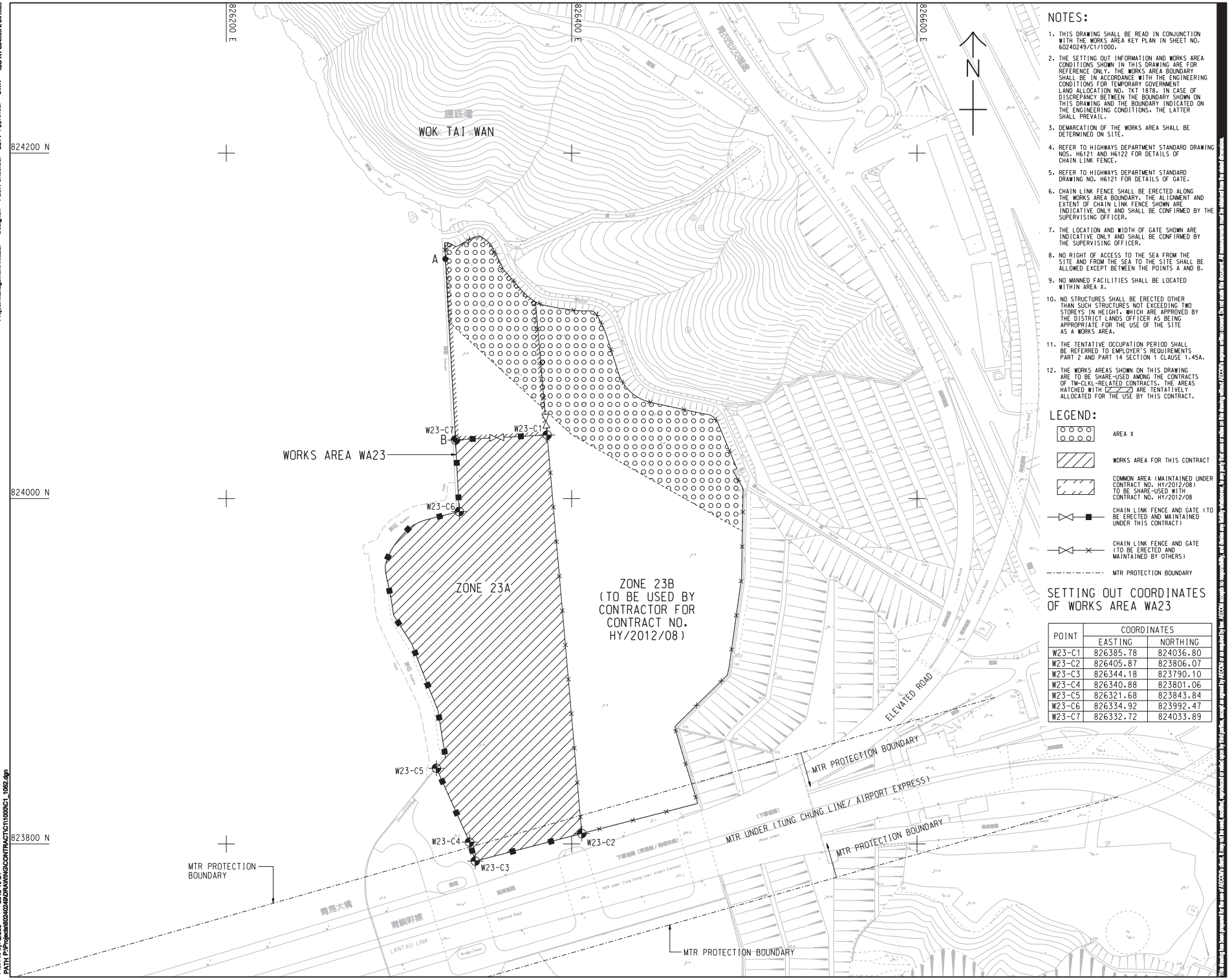
SHEET TITLE
WORKS AREA AND HOARDING PLAN

SHEET 1 OF 2

SHEET NUMBER
60240249/C1/1051

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LIUJ3 2012-10-24
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1051.dgn



NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TKT 1878. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
3. DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
4. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
5. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
6. CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
7. THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
8. NO RIGHT OF ACCESS TO THE SEA FROM THE SITE AND FROM THE SEA TO THE SITE SHALL BE ALLOWED EXCEPT BETWEEN THE POINTS A AND B.
9. NO MANNED FACILITIES SHALL BE LOCATED WITHIN AREA X.
10. NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
11. THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
12. THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL-RELATED CONTRACTS. THE AREAS HATCHED WITH ▨ ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.

LEGEND:

- AREA X
- WORKS AREA FOR THIS CONTRACT
- COMMON AREA (MAINTAINED UNDER CONTRACT NO. HY/2012/08) TO BE SHARE-USED WITH CONTRACT NO. HY/2012/08
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
- MTR PROTECTION BOUNDARY

SETTING OUT COORDINATES OF WORKS AREA WA23

POINT	COORDINATES	
	EASTING	NORTHING
W23-C1	826385.78	824036.80
W23-C2	826405.87	823806.07
W23-C3	826344.18	823790.10
W23-C4	826340.88	823801.06
W23-C5	826321.68	823843.84
W23-C6	826334.92	823992.47
W23-C7	826332.72	824033.89

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

CLIENT
HIGHWAYS DEPARTMENT
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

VR	DATE	DESCRIPTION	CHK.
-	OCT. 12	TENDER DRAWING	CWN

STATUS

SCALE: A1 1 : 1000
DIMENSION UNIT: METRES

KEY PLAN

Figure 1.2i

PROJECT NO.: 60240249
CONTRACT NO.: HY/2012/07

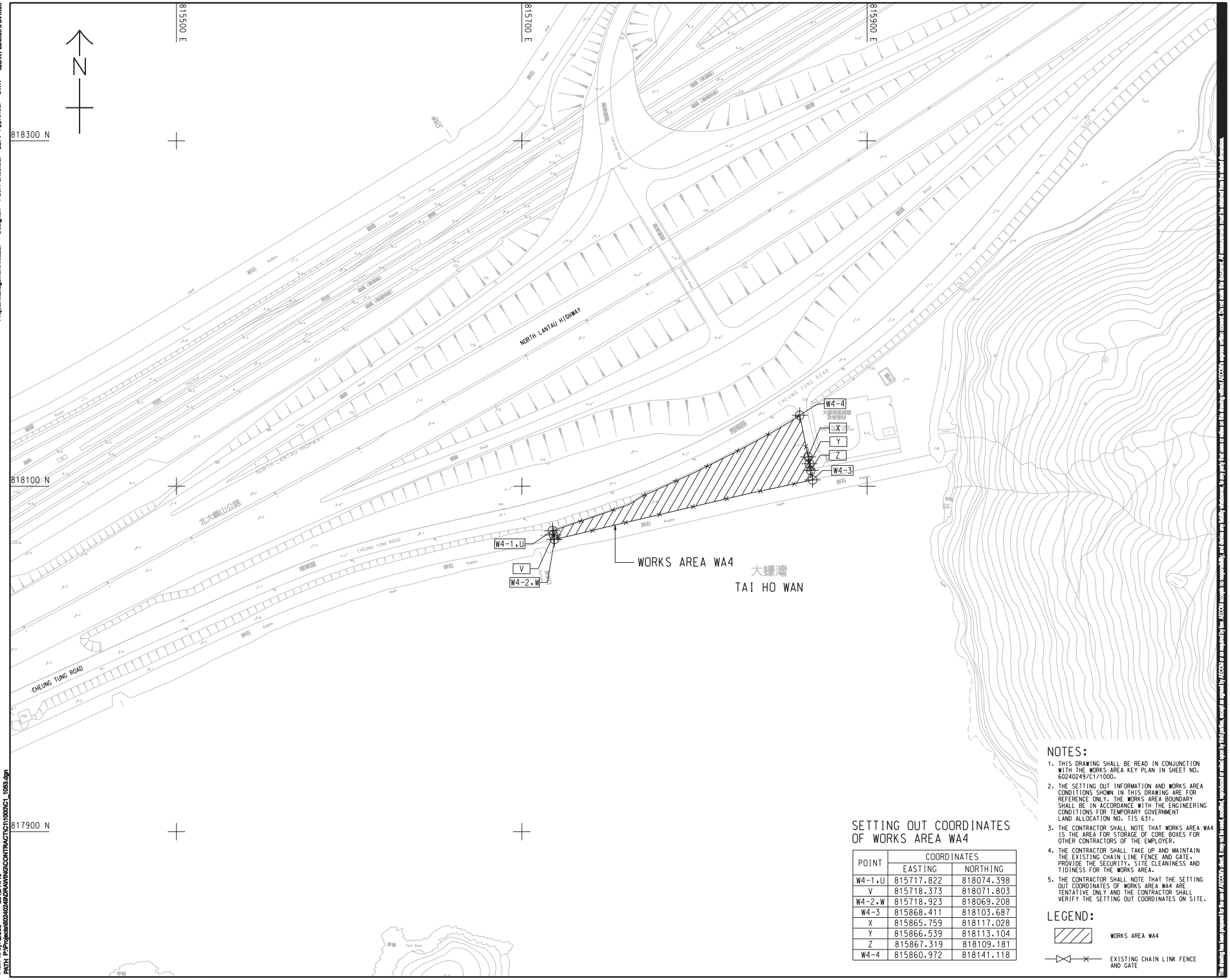
SHEET TITLE
WORKS AREA AND HOARDING PLAN

SHEET 2 OF 2

SHEET NUMBER
60240249/C1/1052

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LIUJ3 2012-10-24
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1052.dgn



Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LIUJ3 2012/11/16
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1053.dgn

SETTING OUT COORDINATES OF WORKS AREA WA4

POINT	COORDINATES	
	EASTING	NORTHING
W4-1,U	815717.822	818074.398
V	815718.373	818071.803
W4-2,W	815718.923	818069.208
W4-3	815868.411	818103.687
X	815865.759	818117.028
Y	815866.539	818113.104
Z	815867.319	818109.181
W4-4	815860.972	818141.118

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TIS 631.
3. THE CONTRACTOR SHALL NOTE THAT WORKS AREA WA4 IS THE AREA FOR STORAGE OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER.
4. THE CONTRACTOR SHALL TAKE UP AND MAINTAIN THE EXISTING CHAIN LINE FENCE AND GATE. PROVIDE THE SECURITY, SITE CLEANINESS AND TIDINESS FOR THE WORKS AREA.
5. THE CONTRACTOR SHALL NOTE THAT THE SETTING OUT COORDINATES OF WORKS AREA WA4 ARE TENTATIVE ONLY AND THE CONTRACTOR SHALL VERIFY THE SETTING OUT COORDINATES ON SITE.

LEGEND:

WORKS AREA WA4

EXISTING CHAIN LINK FENCE AND GATE

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

CLIENT
路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

CONSULTANT
AECOM Asia Company Ltd.
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Figure 1.2j

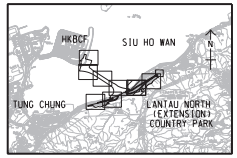
ISSUE/REVISION

VR	DATE	DESCRIPTION	CHK.
-	NOV. 12	TENDER ADDENDUM NO. 1	CWN

STATUS

SCALE: A1 1 : 1000
DIMENSION UNIT: METRES

KEY PLAN

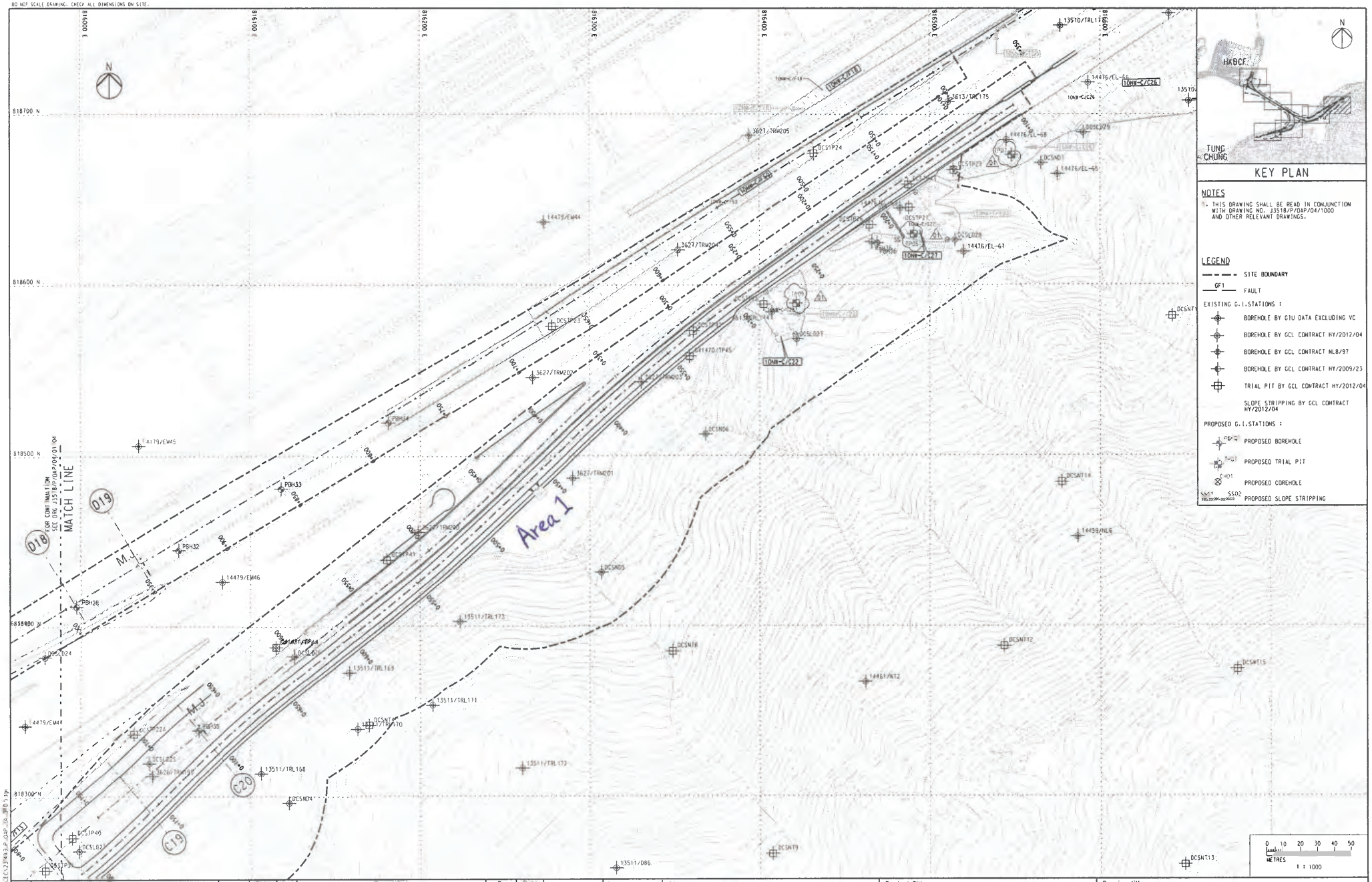


PROJECT NO.: 60240249
CONTRACT NO.: HY/2012/07

SHEET TITLE
WORKS AREA WA4

SHEET NUMBER
60240249/C1/1053

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



KEY PLAN

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBH01 PROPOSED BOREHOLE
- TP01 PROPOSED TRIAL PIT
- CH01 PROPOSED COREHOLE
- SS01 SS02 PROPOSED SLOPE STRIPPING

Rev.	Description	By	Date	Rev.	Description	By	Date
A	[illegible]	RL	07/13				
B	[illegible]	RL	07/13				
C	[illegible]	RL	09/13				
D1	ETA INTERNAL REVIEW	RL	10/13				

Drawn: RL | Date: 07/13
Checked: DS | Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

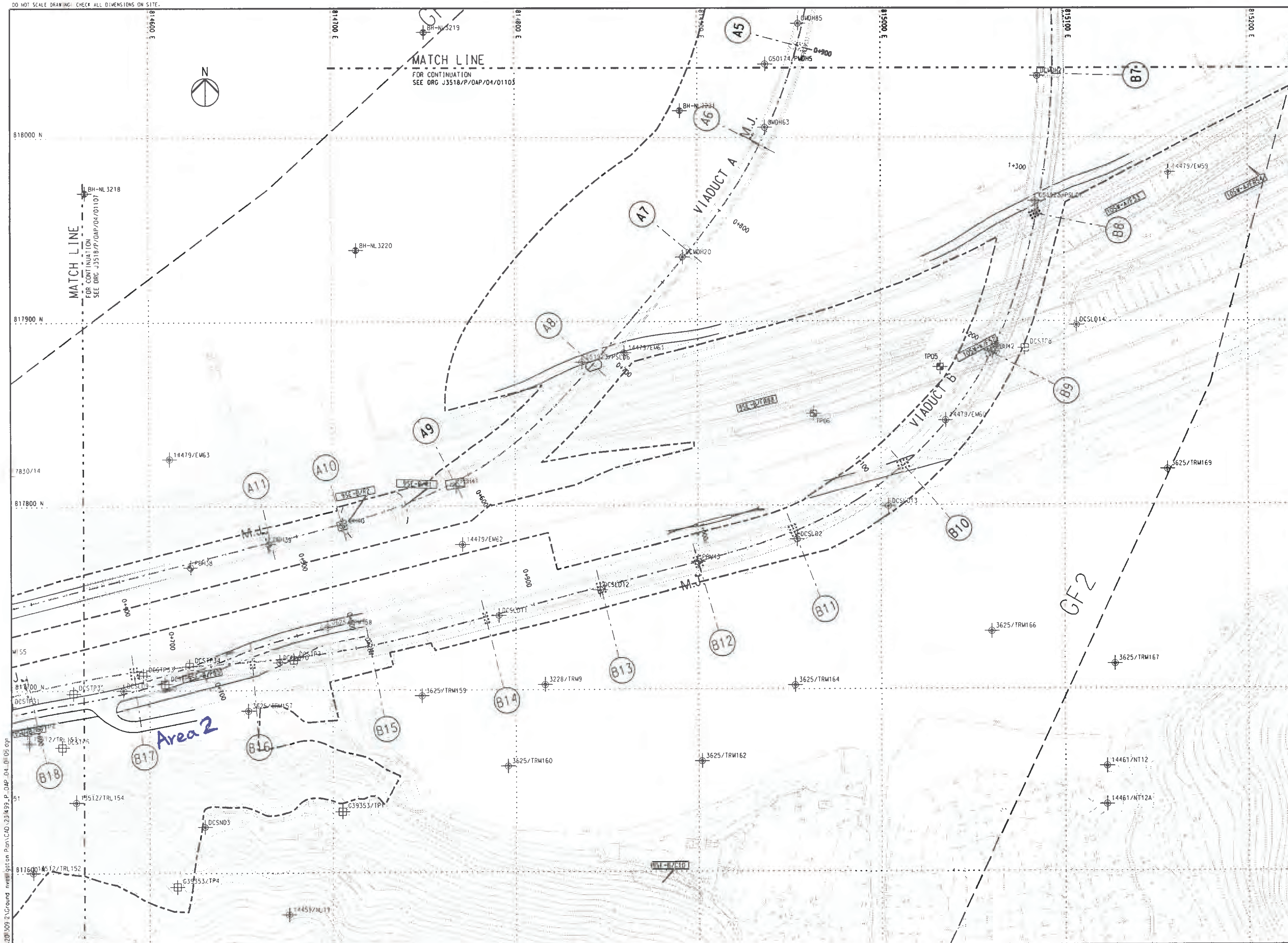
Project Title: Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Supervising Officer: AECOM | Contractor: Gammon | Originator: ARUP

Drawing title: **Figure 1.2k**

Drawing no. J3518/P/OAP/04/01105 | Rev. D1

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



KEY PLAN

TUNG CHUNG

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I. STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I. STATIONS :

- PB-01 PROPOSED BOREHOLE
- TP01 PROPOSED TRIAL PIT
- CH01 PROPOSED COREHOLE
- SS01 SS02 PROPOSED SLOPE STRIPPING

0 10 20 30 40 50
METRES
1 : 1000

Rev	Description	By	Date
A	SUBMISSION	RC	07/13
B	SUBMISSION	RC	07/13
C	SUBMISSION	RC	09/13

Drawn	Date
RL	07/13
Checked	Approved
DS	DOP

Scale: 1:1000 @ A1 / 1:2000 @ A3

Client: 路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Project Title: Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Drawing title: **Figure 1.2l**

Drawing no. J3518/P/OAP/04/01106 Rev C

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Stanley Chan	2762 3406	3188 6614
	Senior Engineer	Steven Shum	2762 4133	3188 6614
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Daniel Ip	3553 3800	2492 2057
	Resident Engineer	Kingman Chan	3691 3950	3691 2899
ENPO / IEC (Ramboll Environ Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3547 2133	3465 2899
	IEC	Dr. F.C. Tsang	3547 2134	3465 2899
Contractor (Gammon Construction Limited)	Environmental Manager	Brian Kam	3520 0387	3520 0486
	Environmental Officer	Roy Leung	3520 0387	3520 0486
	24-hour Complaint Hotline		9738 4332	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract was commenced on 31 October 2013. The three-month rolling construction programme is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting month are listed below:

Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

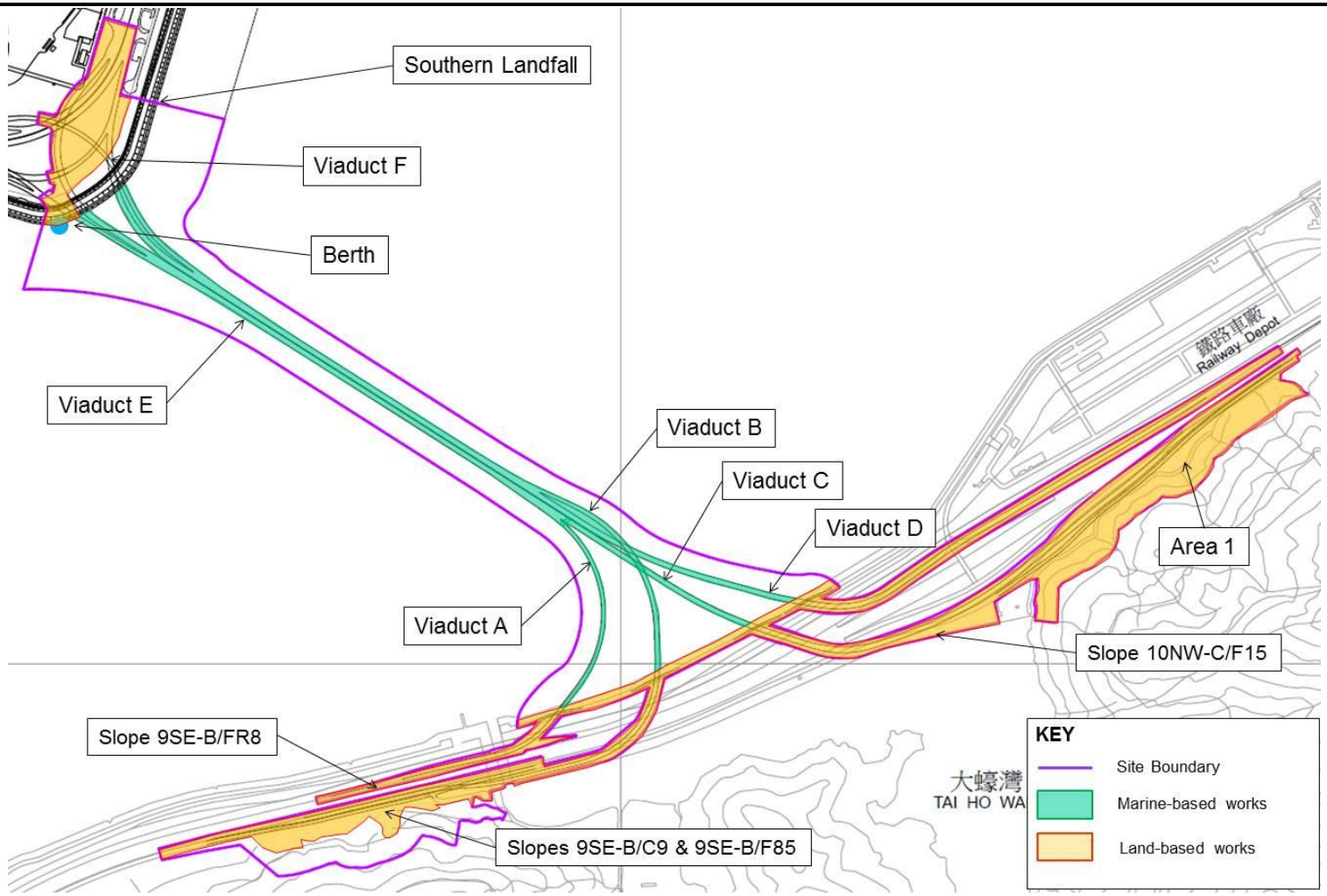
- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;

- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.4*.

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

Figure 1.3 Locations of Major Construction Activities in the Reporting Month



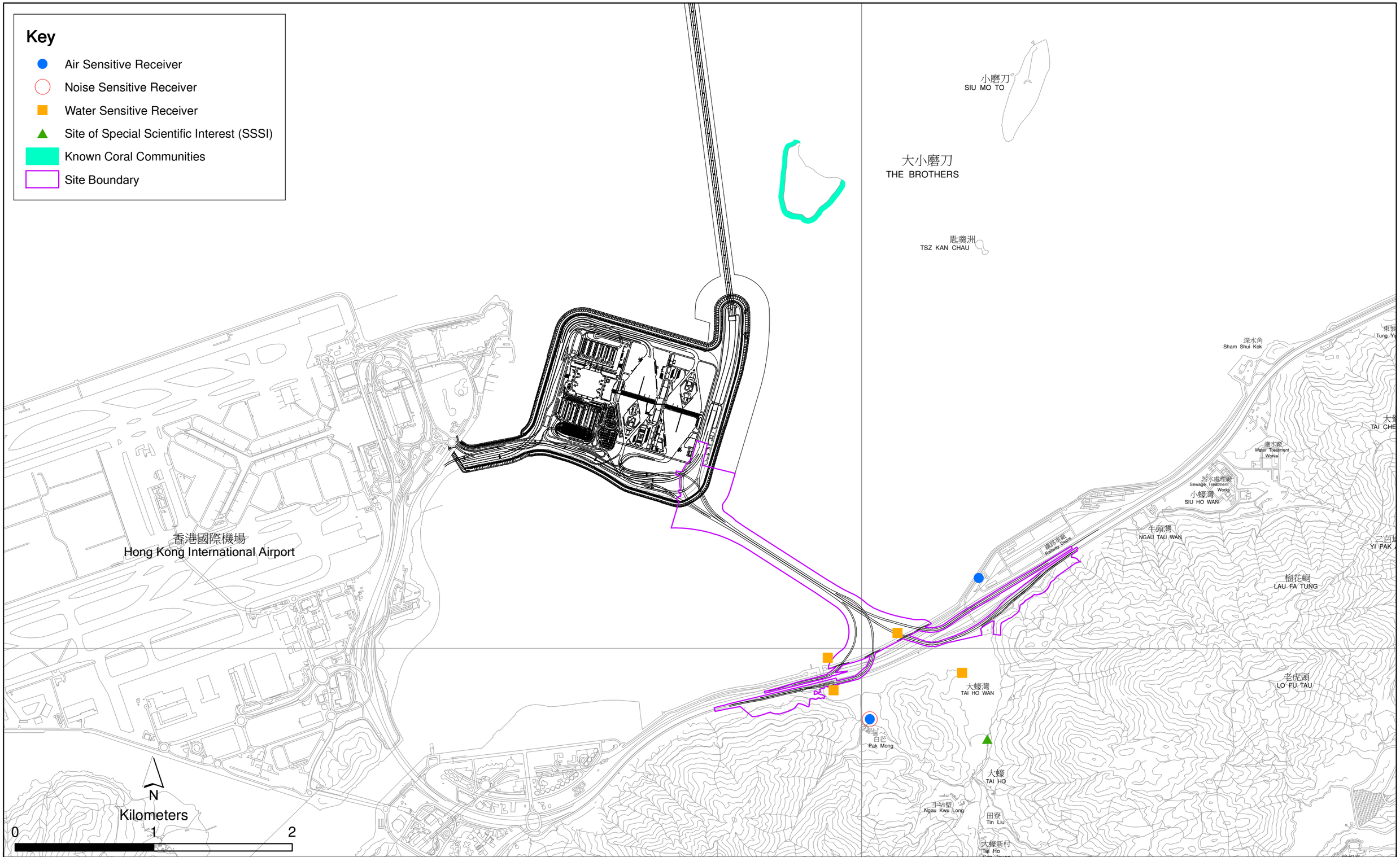


Figure 1.4

Environmental Sensitive Receivers in the Vicinity of Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_Environmental_Sensitive_Receiver.mxd
Date: 18/5/2015

Environmental Resources Management

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2 EM&A RESULTS

The EM&A programme required environmental monitoring for air quality, noise, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections.

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*.

Table 2.1 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	Monitoring Dates
ASR 9	MTR Depot	On the ground nearby MTR Depot Entrance	5, 11, 17 and 26 October 2016
ASR 8A	Area 4	On ground at the works area, Area 4	5, 11, 17 and 26 October 2016

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 5, 11, 17 and 26 October 2016 at ASR8A and ASR9 in accordance with the requirements of the Updated EM&A Manual. The TSP monitoring stations are illustrated in *Figure 2.1* and detailed in *Table 2.1*. Wind anemometer was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.

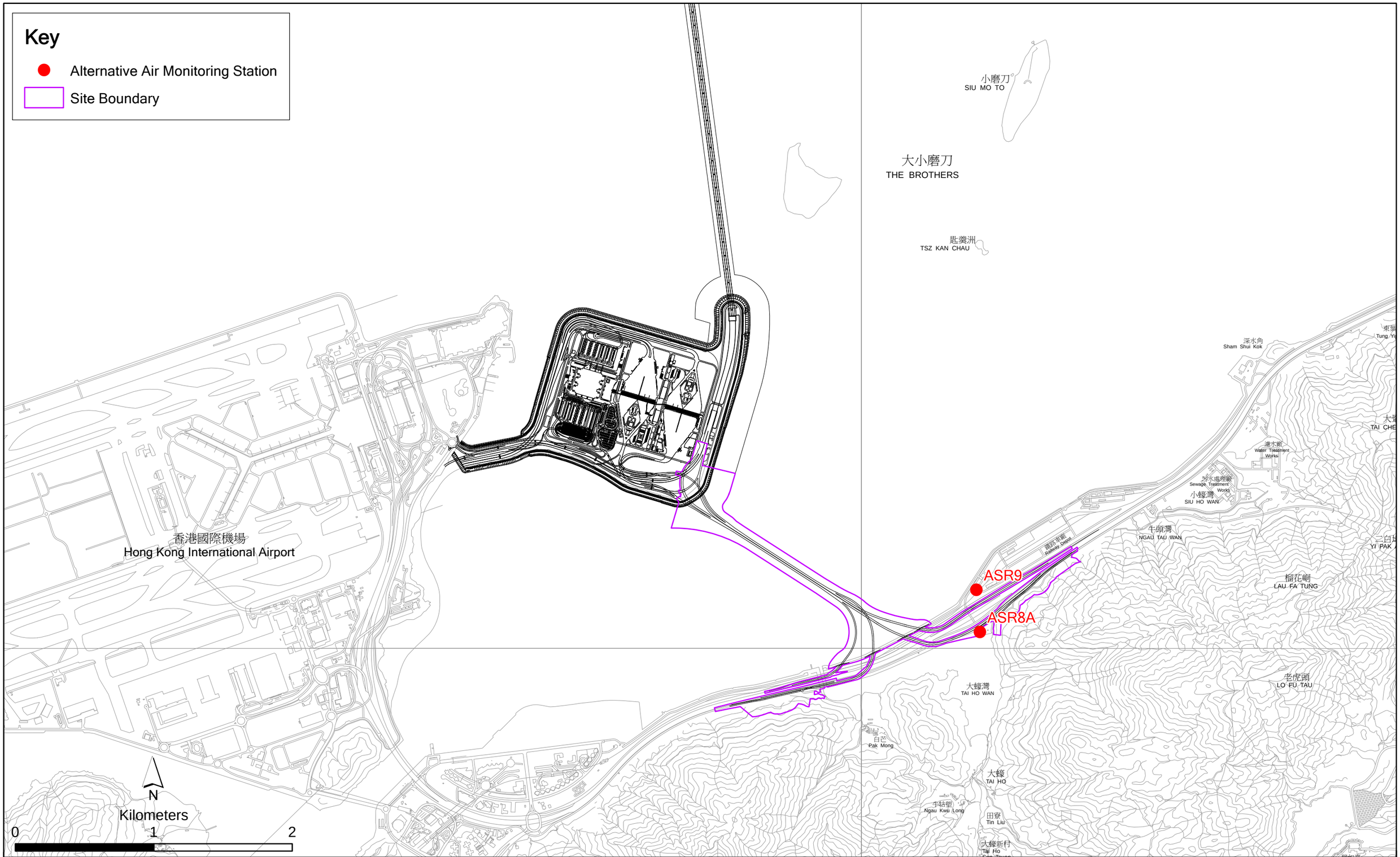

Figure 2.1

Locations of Air Quality Monitoring Stations

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_AQMS.mxd
Date: 7/1/2015

Environmental Resources Management

ERM

Table 2.2 Air Quality Monitoring Equipment

Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Sensor	Global Water (Wind Speed Sensor: WE550; Wind Direction Sensor: WE570)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

2.1.2 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in October 2016 is provided in *Appendix F*. Air Quality Monitoring on 20 October 2016 was postponed to 26 October 2016 due to adverse weather conditions.

2.1.3 Results and Observations

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and *2.4* respectively. Detailed impact air quality monitoring results are presented in *Appendix G*.

Table 2.3 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	77	43 - 107	394	500
ASR 9	82	54 - 122	393	500

Table 2.4 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	49	43 – 52	178	260
ASR 9	59	48 - 67	178	260

The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

All 1-hour and 24-hour TSP results were below the Action and Limit Levels at all monitoring locations in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Meteorological information collected at ASR8A including wind speed and wind direction is provided in *Appendix H*.

2.2 NOISE MONITORING

2.2.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact noise monitoring was conducted once per week during the construction phase of the Contract. The Action and Limit Level of the noise monitoring is provided in *Appendix D*.

Noise monitoring was performed on 5, 11, 17 and 26 October 2016 by using sound level meter at the designated monitoring station NSR1A (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5 Location of Impact Noise Monitoring Station

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1A	Pak Mong Village Pavilion	On the ground at the village entrance	30-minute measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq}, L_{10} and L_{90} would be recorded.	At least once per week	5, 11, 17 and 26 October 2016

Table 2.6 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31
Acoustic Calibrator	Rion NC-73

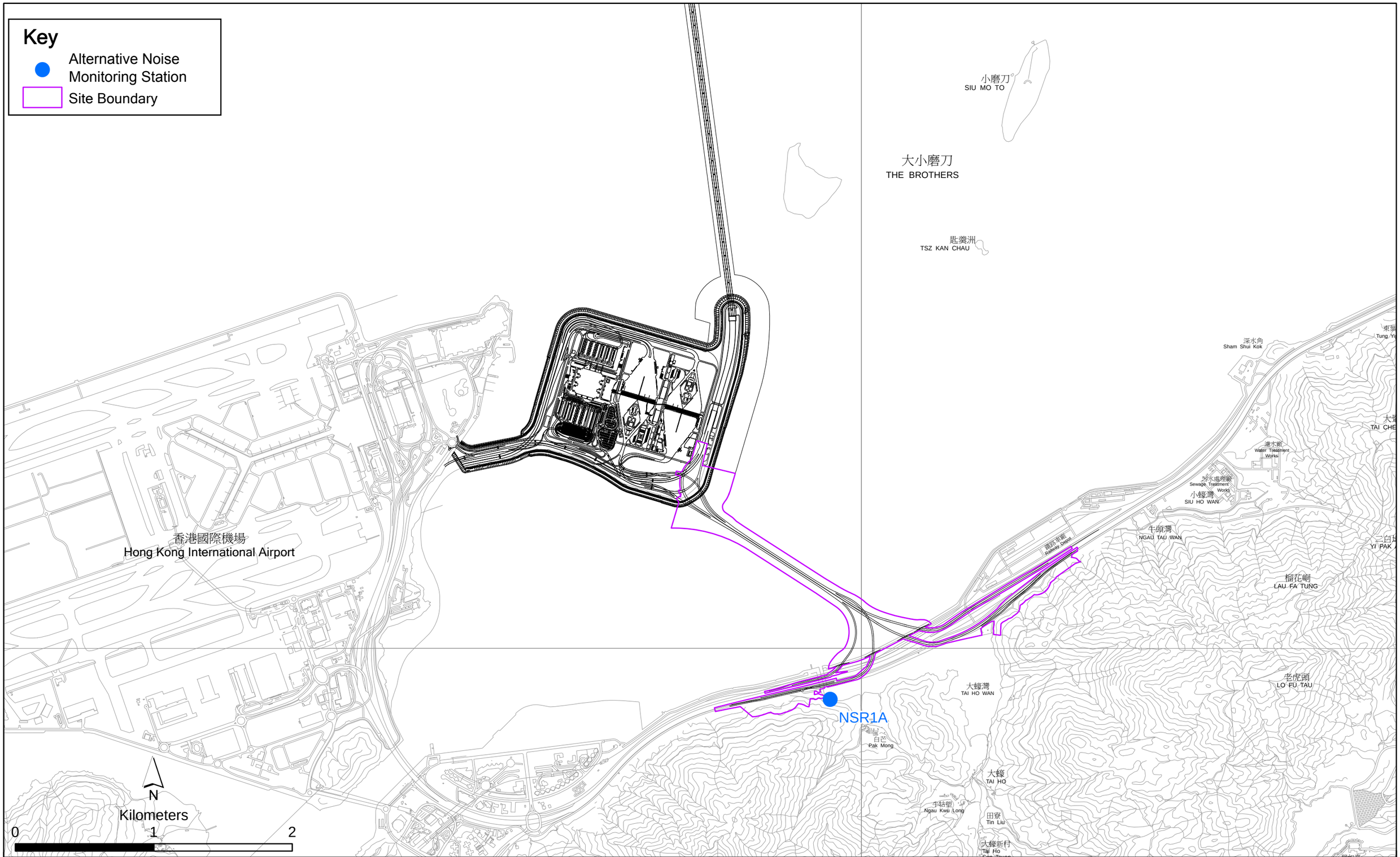

Figure 2.2

Location of Noise Monitoring Station

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_NMS.mxd
Date: 7/1/2015

Environmental Resources Management

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2.2.2 *Monitoring Schedule for the Reporting Month*

The schedule for construction noise monitoring in the reporting period is provided in *Appendix F*. Noise Monitoring on 20 October 2016 was postponed to 26 October 2016 due to adverse weather conditions.

2.2.3 *Results and Observations*

Results for noise monitoring are summarized in *Table 2.7* and the monitoring data is provided in *Appendix I*.

Table 2.7 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average , dB(A), $L_{eq\ (30mins)}$	**Range, dB(A), $L_{eq\ (30mins)}$**	**Limit Level, dB(A), $L_{eq\ (30mins)}$**
NSR 1A	61	60 - 62	75

No noise Action or Limit Level exceedance was recorded in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

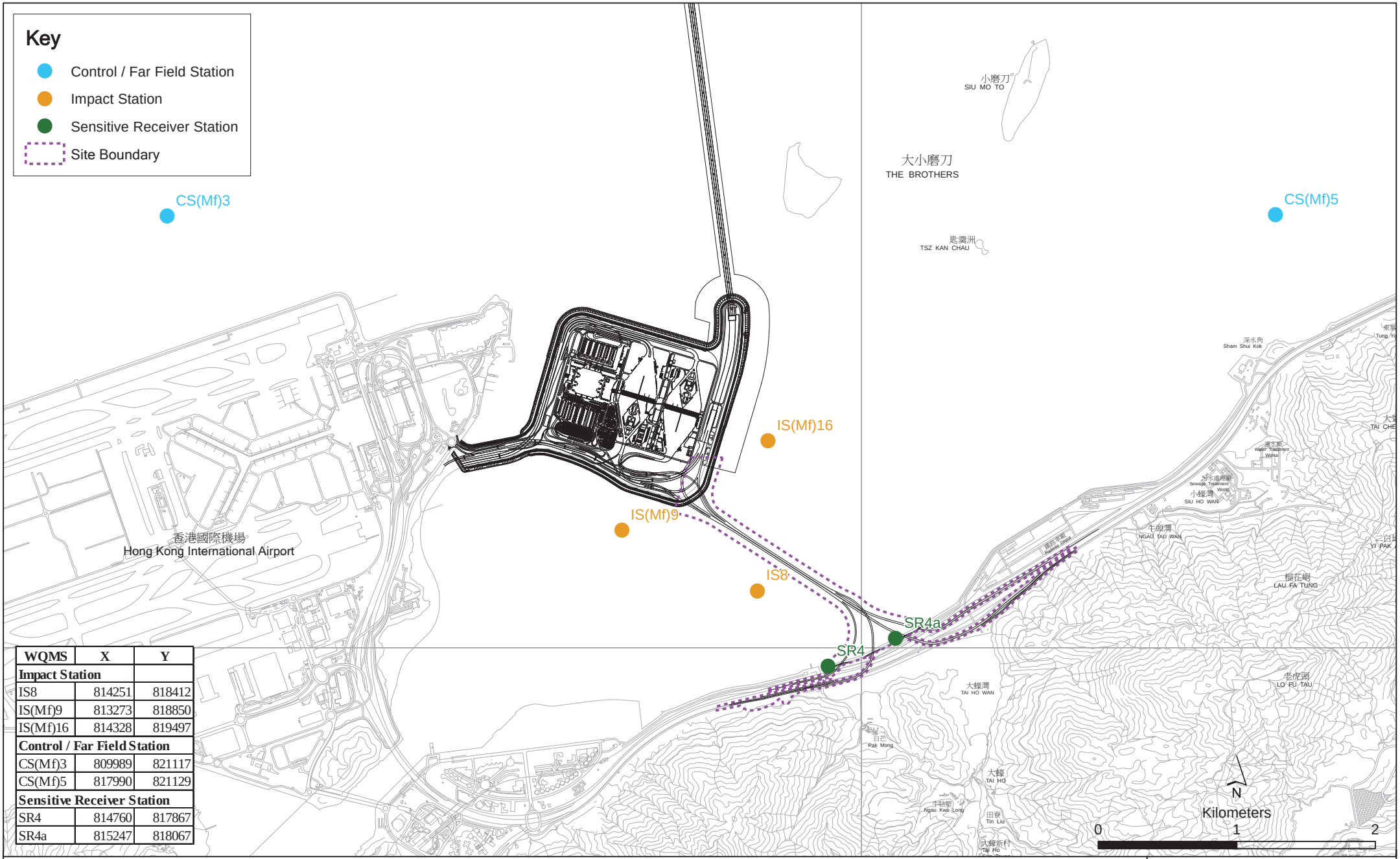
Major noise sources during the noise monitoring included noise from crane operation and excavation works, nearby traffic noise and aircraft noise.

2.3 *WATER QUALITY MONITORING*

2.3.1 *Monitoring Requirements and Equipment*

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A Manual. The Action and Limit Levels of the water quality monitoring are provided in *Appendix D*.

The locations of the monitoring stations under the Contract are shown in *Figure 2.3* and *Table 2.8*.



WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)3	809989	821117
CS(Mf)5	817990	821129
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

Figure 2.3

Locations of Water Quality Monitoring Stations

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_WQMS.mxd
Date: 6/12/2013

Environmental Resources Management

ERM

Table 2.8 Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements

Station ID	Type	Coordinates		*Parameters, unit	Frequency	Depth
		Easting	Northing			
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850	• Temperature(°C) • pH (pH unit) • Turbidity (NTU)	Impact monitoring: 3 days per week, at mid-flood and mid-ebb tides during the construction period of the Contract	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If water depth less than 6m, mid-depth may be omitted
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497	• Water depth (m) • Salinity (ppt) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Suspended Solid (SS) (mg/L)		
IS8	Impact Station (Close to HKBCF construction site)	814251	818412			
SR4	Sensitive receiver (Tai Ho Inlet)	814760	817867			
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3	Control Station	809989	821117			
CS(Mf)5	Control Station	817990	821129			

*Notes:
In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded.

Table 2.9 summarises the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in *Appendix E*.

Table 2.9 Water Quality Monitoring Equipment

Equipment	Brand and Model
DO and Salinity	YSI Pro2030
Turbidity meter	HACH Model 2100Q
pH meter	HAThermo Scientific Orion 2 Star / HANNA HI8314
Positioning Equipment	Koden913MK2 with KBG-3 DGPS antenna
Water Depth Detector	Speedtech Instrument SM-5
Water Sampler	Kemmerer 1520 (1520-C25) 2.2L with messenger

2.3.2 *Monitoring Schedule for the Reporting Month*

The schedule for water quality monitoring in October 2016 is provided in *Appendix F*. Water Quality Monitoring scheduled on 18 October 2016 was canceled due to adverse weather conditions.

2.3.3 *Results and Observations*

In total of 12 monitoring events for impact water quality monitoring were conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in *Appendix J*.

Neither Action nor Limit Levels exceedances was recorded at all monitoring stations for impact water quality monitoring in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

2.4 *DOLPHIN MONITORING*

2.4.1 *Monitoring Requirements*

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's *Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities* on the monthly basis is adopted to avoid duplicates of survey effort.

2.4.2 *Monitoring equipment*

Table 2.10 summarizes the equipment used for the impact dolphin monitoring.

Table 2.10 Dolphin Monitoring Equipment

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binoculars	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

2.4.3 Monitoring Parameter, Frequencies and Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.4.* The co-ordinates of all transect lines are shown in *Table 2.11* below.

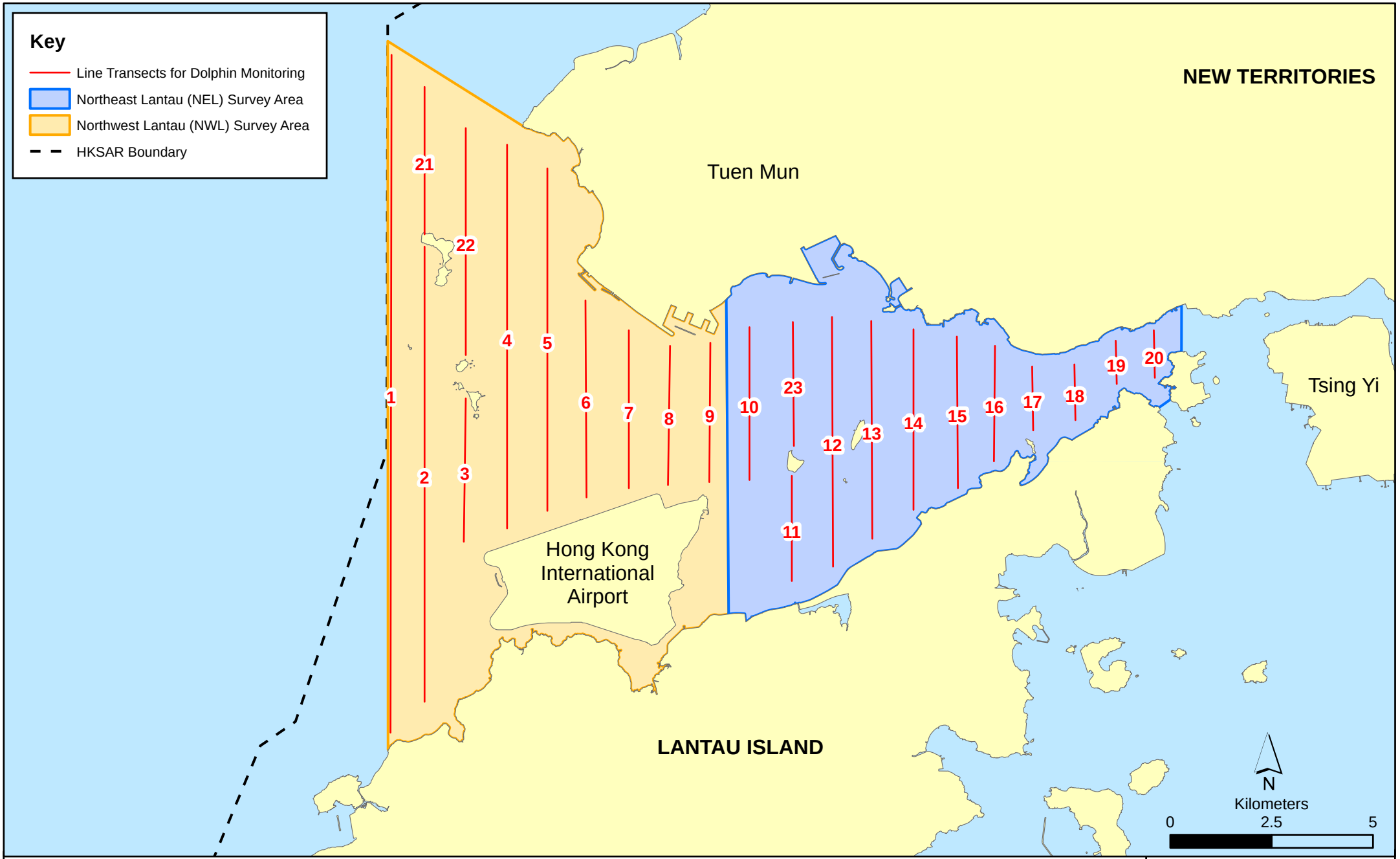


Figure 2.4

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

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Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates

Line No.		Easting	Northing	Line No.		Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815913	14	Start Point	817537	820220
2	End Point	805477	826654	14	End Point	817537	824613
3	Start Point	806464	819435	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	819771	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	820220	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	820466	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	820880	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	820872	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807				
12	End Point	815542	824882				

2.4.5 Action & Limit Levels

The Action and Limit levels of dolphin impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix L*.

2.4.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 4, 7, 11 and 13 October 2016 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 299.44 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys in September 2016. Among the two areas, 114.80 km and 184.64 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 215.58 km and 83.86 km respectively. The survey efforts are summarized in *Appendix K*.

Six (6) groups of 15 Chinese White Dolphins were sighted during the two sets of monitoring surveys in October 2016. All six (6) dolphin sightings were made in NWL, while none was sighted in NEL. During the surveys in October 2016, five of the six sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessel or sighted in the proximity of the Project's alignment. The distribution of dolphin sighting during the reporting month is shown in *Figure 2.5*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in October 2016 are shown in *Tables 2.12 & 2.13*.

Table 2.12 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	**Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)**
		Primary Lines Only	Primary Lines Only
NEL	Set 1: Oct 4th / 7th	0.0	0.0
	Set 2: Oct 11th / 13th	0.0	0.0
NWL	Set 1: Oct 4th / 7th	4.1	9.6
	Set 2: Oct 11th / 13th	2.9	8.5

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (two surveys in each set) in October 2016 in Northeast (NEL) and Northwest Lantau (NWL)

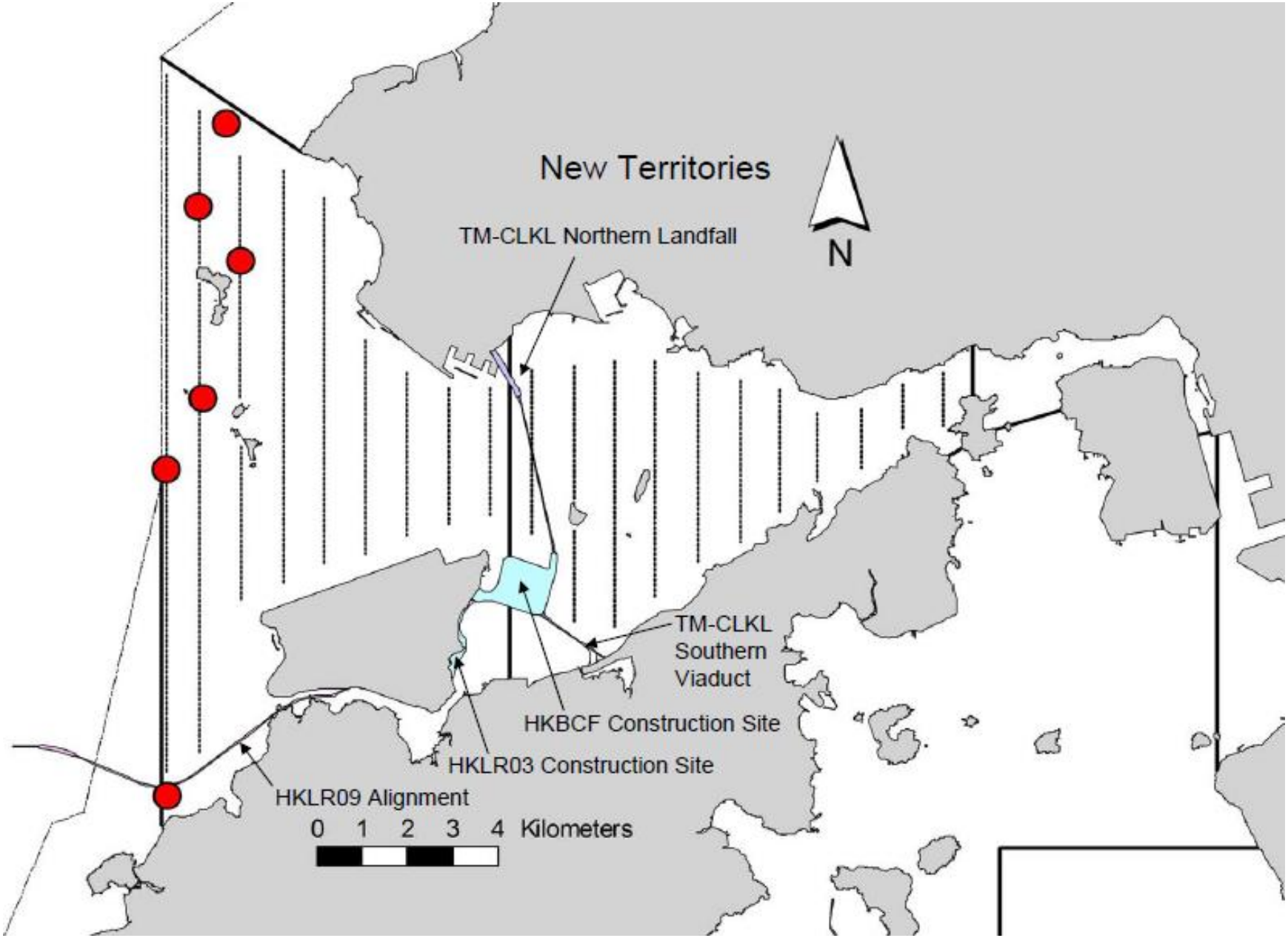

Figure 2.5

Date 7/10/2016

HY/2012/07 TM-CLKL Southern Connection Viaduct Section
The distribution of dolphin sightings during the reporting period
(Source: Adopted from HKLR03 Monitoring Survey in October 2016)

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Table 2.13 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	**Both Primary and Secondary Lines**	**Primary Lines Only**	**Both Primary and Secondary Lines**
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	3.5	3.2	9.1	8.1

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in October 2016 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

During this month of dolphin monitoring, no adverse impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of daytime marine works activities. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) were recorded in October 2016 during the exclusion zone monitoring.

Passive Acoustic Monitoring (PAM) had been decommissioned as no marine piling works was carried out outside the daylight hours since September 2015.

2.5 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 5, 12, 19 and 27 October 2016.

Key observations during the site inspections are summarized in *Table 2.14*.

Table 2.14 Specific Observations Identified during the Weekly Site Inspections in this Reporting Month

Inspection Date	Environmental Observations	Recommendations/ Remarks
5 October 2016	Slope BC9 • Checklist for a Wetsep was not displayed. Pier B17 • Soil stockpile was not well covered. • Unpaved area was dry.	Slope BC9 • Checklist for Wetsep should be displayed. Pier B17 • Soil stockpile should be well covered. • Watering should be applied regularly.
12 October 2016	Pier E11 • Chemical container should be placed in drip tray. • Oily water in drip tray was observed. • Sand bunds were missing on the perimeter at the pier.	Pier E11 • The Contractor was reminded to remove the chemical container. • The Contractor was reminded to clear the oil water. • The Contractor was reminded to provide sand bunds on the perimeter at the pier.
19 October 2016	Viaduct D (D18) • Exposed slope should be fully covered by tarpaulin. • The Wetsep checklist should be updated. • Chemical containers should be removed and placed in drip tray.	Viaduct D (D18) • The Contractor was reminded to fully cover the exposed slope. • The Contractor was reminded to update the Wetsep checklist. • The Contractor was reminded to remove the chemical containers and place in drip tray.
27 October 2016	Pier D7 • Accumulated general refuse was observed.	Pier D7 • The Contractor was reminded to clear the accumulated general refuse.

The Contractor has rectified all of the observations identified during environmental site inspections in the reporting month.

2.6 WASTE MANAGEMENT STATUS

The Contractor has submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert) and recyclable materials. Reference has been made to the waste flow table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in *Table 2.15*.

Table 2.15 Quantities of Different Waste Generated in the Reporting Period

Month/Year	Inert C&D Materials [a] (m^3)	Imported Fill (m^3)	Inert Construction Waste Re-used (m^3)	Non-inert Construction Waste [b] (kg)	Recyclable Materials [c] (kg)	Chemical Wastes (kg)	Marine Sediment (m^3)	
							Category L	Category M (M_p & M_f)
October 2016	2,183	0	156	141,300	28	0	0	0

Notes:

(a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber, felled trees and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

2.7 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.16* below.

Table 2.16 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
Environmental Permit	EP-353/2009/K	11 April 2016	N/A	HyD	Hong Kong Boundary Crossing Facilities
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07 (Area 1 adjacent to Cheng Tung Road, Siu Ho Wan)
Chemical Waste Registration	5213-961-G2380-14	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07 (Area 2 adjacent to Cheung Tung Road, Pak Mong Village)
Chemical Waste Registration	5213-974-G2588-03	4 Nov 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07 (WA5 adjacent to Cheung Tung Road, Yam O)
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-
Construction Waste Disposal Account	7019470	3 Mar 2014	N/A	GCL	Vessel CHIT Account
Waste Water Discharge License	WT00019017-2014	13 May 2014	31 May 2019	GCL	Discharge for marine portion
Waste Water Discharge License	WT00019018-2014	13 May 2014	31 May 2019	GCL	Discharge for land portion
Construction Noise Permit for night works and works in general holidays	GW-RW0339-16	17 Jun 2016	19 Dec 2016	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RS0383-16	20 Apr 2016	19 Oct 2016	GCL	For Broad Permit
Construction Noise Permit for night works and works in general holidays	GW-RS1045-16	14 Oct 2016	13 Apr 2017	GCL	For Broad Permit
Construction Noise Permit for night works and works in general holidays	GW-RS0958-16	15 Sep 2016	30 Nov 2016	GCL	Broad Permit for Segment Launching at Land Portion
Construction Noise Permit for night works and works in general holidays	GW-RS0718-16	13 Jul 2016	13 Jan 2017	GCL	Pre-casted pile cap shell installation at E10-E13
Construction Noise Permit for night works and works in general holidays	GW-RS1044-16	14 Oct 2016	13 Apr 2017	GCL	Pre-casted pile cap shell installation at E8-E13
Marine Dumping Permit	EP/MD/17-102	28 Sep 2016	31 Oct 2016	GCL	For dumping Type I (Dedicated Site) and Type II

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
					sediment
Marine Dumping Permit	EP/MD/17-037	14 Jun 2016	13 Dec 2016	GCL	For dumping Type I sediment
Marine Dumping Permit	EP/MD/17-115	20 Oct 2016	31 Dec 2016	GCL	For dumping Type I sediment

2.8 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

In response to the site audit findings, the Contractors carried out corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures were implemented properly for this Contract.

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

2.9 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Results for water quality, 1-hour TSP, 24-hour TSP and construction noise monitoring complied with the Action/ Limit levels in the reporting period.

Cumulative statistics on exceedances is provided in *Appendix N*.

2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Statistics on complaints, notifications of summons, successful prosecutions are summarized in *Appendix N*.

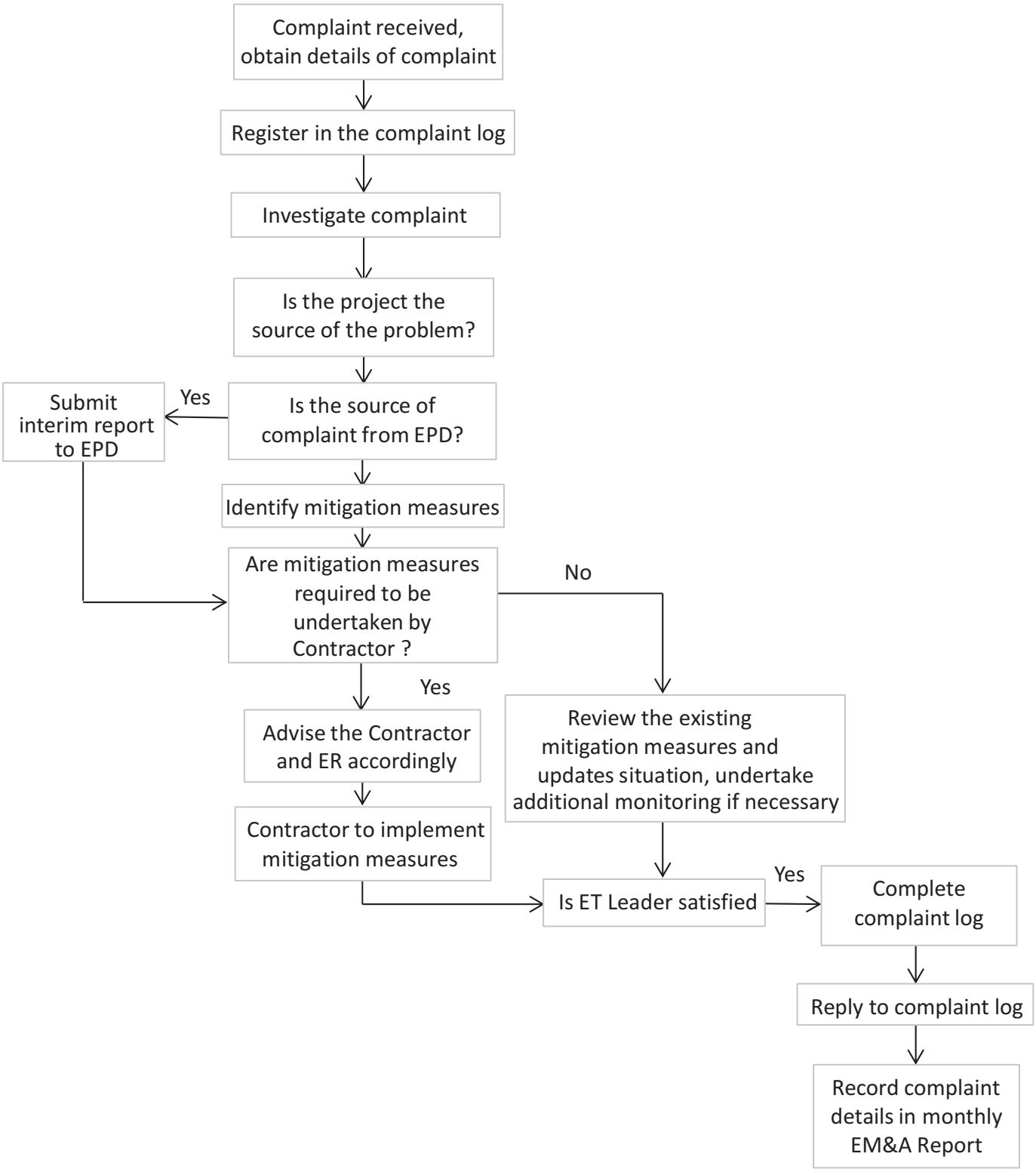

Figure 2.6 Environmental Complaint Handling Procedure

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3 FUTURE KEY ISSUES

3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTH

As informed by the Contractor, the major works for this Contract in November 2016 will be:

Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of November 2016 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedules for environmental monitoring in November 2016 are provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Thirty-sixth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 October 2016 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permits (*EP-354/2009/D* and *EP-353/2009/K*).

Air quality (1-hour TSP and 24-hour TSP), noise, water quality (DO, turbidity and SS) and dolphin monitoring were carried out in the reporting month. Results for water quality, air quality and noise monitoring complied with the Action and Limit levels in the reporting period.

Six (6) groups of 15 Chinese White Dolphins were sighted during the two sets of monitoring surveys in October 2016. During this month of dolphin monitoring, no adverse impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

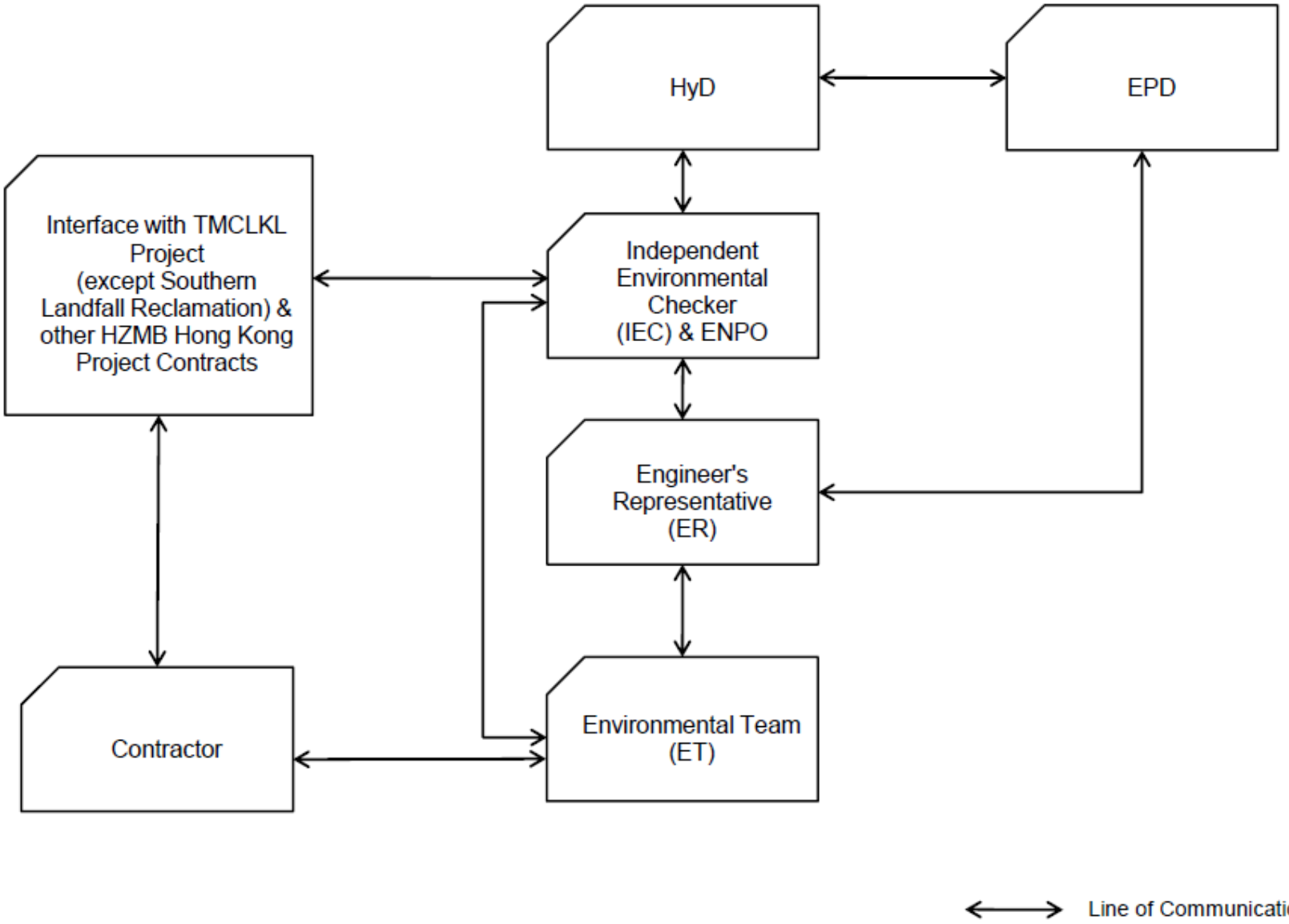
Environmental site inspection was carried out four (4) times in October 2016. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

Project Organization for Environmental Works



Appendix A1

Contract No. HY/2012/07 Southern Connection Viaduct Section
Project Organization

DATE: 06/03/2013

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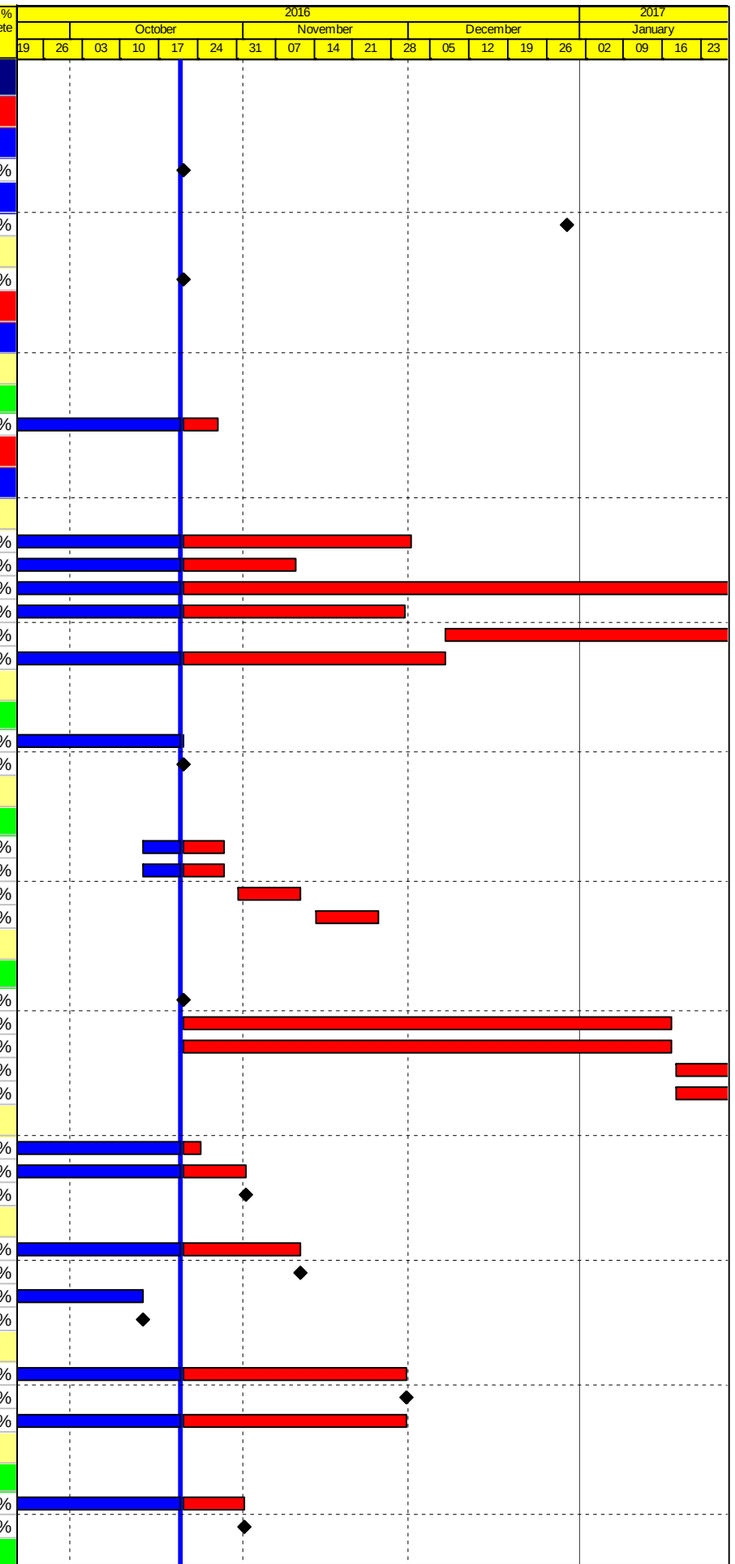
Appendix B

Three-Month Rolling Construction Programme

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
HY/2012/07 - TM-CLK Link-SC [DWP Revision G] - Status Update 21-10-2016											
Contract Key Dates											
Possession Dates / Access Period											
POS02-6	Portion A - Area 6	0	21-Oct-16*	0%	0		25-Jun-16		-118	0	0%
Section Completion Dates											
KD03	Achievement of Stage 3 (1016 days) 5 Apr 2016 (EoT No. 5, 2.5 days)	0		0%	0	29-Dec-16*		05-Apr-16	-268	1204	0%
Vacate Works Area											
VAC05	Vacate Works Area WA5 (Zone 5C) (CoW + 758 days) - Letter D06850	0		0%	0	21-Oct-16*		29-Jun-16	-113	1274	0%
General Submissions											
General Requirements											
Land Works											
Land GI Works											
PR02204	SQR Sampling & Testing and Approval	110	14-Aug-14 A	94.55%	6	27-Oct-16	30-Mar-15	09-Apr-15	-462	34	95%
Design Submissions											
Detailed Design (v18.8 18-08-14)											
General Submissions											
ARDD0037-2	IC/SO Approval of Seismic Performance Report Viaduct A,B,C,D - AP12.01	75	22-Feb-16 A	60%	30	01-Dec-16	25-May-16	07-Jul-16	-103	323	60%
ARDD0037-5	IC/SO Approval of Seismic Performance Report Viaduct E - AP12.02	75	22-Feb-16 A	80%	15	10-Nov-16	16-Jun-16	07-Jul-16	-88	338	80%
ARDD0037-7	Preparation of Seismic Performance Report Viaduct F - AP12.03	160	21-Aug-15 A	5%	152	06-Jun-17	06-Aug-15	16-Mar-16	-300	0	5%
ARDD0040-1	Preparation of Operation and Maintenance Manual - AP08.00	30	01-Sep-15 A	5%	29	30-Nov-16	02-Feb-16	16-Mar-16	-177	5	0%
ARDD0040-2	IC/SO Approval of Operation and Maintenance Manual - AP08.00	75	07-Dec-16	0%	75	29-Mar-17	17-Mar-16	07-Jul-16	-182	244	0%
ARDD0042-2	IC/SO Approval of O&M Facility Provisions DDA - BP11.01	75	14-Jan-15 A	54.67%	34	07-Dec-16	26-Jan-16	16-Mar-16	-182	0	50%
Viaduct A											
Viaduct Design											
ARDD0435-8	Viaduct A - IC/SO Consent of Supplemental Working Drawings Viaduct A	10	10-Sep-15 A	98%	0	21-Oct-16	30-May-16	30-May-16	-99	0	98%
ARDD0435-9	Viaduct A - IC/SO Consent of Supplemental Working Drawings Viaduct A	0		0%	0	21-Oct-16		30-May-16	-99	0	0%
Viaduct F1 & F3											
Viaduct Design											
ARDD0486-2	Viaduct F1 & F3 - Coordination and Further Issue of Construction Method a	60	14-Oct-16 A	90%	6	28-Oct-16	29-Feb-16	07-Mar-16	-161	0	90%
ARDD0486-3	Viaduct F1 & F3 - Preparation of Draft Working Drawing Set	60	14-Oct-16 A	90%	6	28-Oct-16	29-Feb-16	07-Mar-16	-161	0	90%
ARDD0486-5	Viaduct F1 & F3 - Preparation and Coordination of DDA/Working Drawing	10	31-Oct-16	0%	10	11-Nov-16	08-Mar-16	21-Mar-16	-161	0	0%
ARDD0486-7	Viaduct F1 & F3 - IC/SO Consent of Supplemental Working Drawings Viad	10	14-Nov-16	0%	10	25-Nov-16	22-Mar-16	07-Apr-16	-161	44	0%
Viaduct F2, F4 and F5											
Viaduct Design											
ARDD0530-2	Viaduct F2, F4 & F5 - GCL/FRE Issue of Construction Method/Temporary	0		0%	0	21-Oct-16		05-Nov-15	-237	0	0%
ARDD0530-3	Viaduct F2, F4 & F5 - Coordination and Further Issue of Construction Meth	60	21-Oct-16	0%	60	17-Jan-17	06-Nov-15	01-Feb-16	-237	0	0%
ARDD0530-4	Viaduct F2, F4 & F5 - Preparation of Draft Working Drawing Set	60	21-Oct-16	0%	60	17-Jan-17	06-Nov-15	01-Feb-16	-237	0	0%
ARDD0530-6	Viaduct F2, F4 & F5 - Preparation and Coordination of DDA/Working Draw	10	18-Jan-17	0%	10	02-Feb-17	02-Feb-16	18-Feb-16	-237	0	0%
ARDD0530-8	Viaduct F2, F4 & F5 - IC/SO Consent of Supplemental Drawings of Viaduc	10	18-Jan-17	0%	10	02-Feb-17	22-Mar-16	07-Apr-16	-205	0	0%
Parapet and Utility Trough											
ARDD0562-4	IC/SO Approval of DDA -DP30.01	75	31-Jul-14 A	98%	2	24-Oct-16	15-Feb-16	16-Feb-16	-171	32	98%
ARDD0566	IC/SO Approval of DDA -DP31.01	75	24-Oct-14 A	89.33%	8	01-Nov-16	02-Feb-16	16-Feb-16	-177	0	80%
ARDD0566-1	IC/SO Approval of DDA -DP31.01	0		0%	0	01-Nov-16		16-Feb-16	-177	41	0%
Slopeworks for Viaduct D: 10NW -C/R4, C/F9, C/F10, C/F11, C/F17, C/F50											
ARDD0603	IC/SO Approval of Slope Combined AIP/DDA -CP14.01	75	16-Dec-14 A	78.67%	16	11-Nov-16	04-Jun-15	25-Jun-15	-344	0	95%
ARDD0603-1	IC/SO Approval of Slope Combined AIP/DDA -CP14.01	0		0%	0	11-Nov-16		25-Jun-15	-344	0	0%
ARDD0604-2	IC/SO Approval of Slope Combined AIP/DDA -CP14.02	75	23-May-15 A	100%	0	14-Oct-16 A					100%
ARDD0604-3	IC/SO Approval of Revised Slope Combined AIP/DDA -CP14.02	0		100%	0	14-Oct-16 A					100%
Waterworks, Drainage & Utility Diversions											
ARDD0629	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	75	22-Jul-14 A	61.33%	29	30-Nov-16	22-Dec-15	02-Feb-16	-205	0	95%
ARDD0629-1	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	0		0%	0	30-Nov-16		02-Feb-16	-205	238	0%
ARDD0629-2	Gov't Approval of Submissions for Waterworks, Drainage & Utility Diversior	75	02-Jan-14 A	61.33%	29	30-Nov-16	22-Dec-15	02-Feb-16	-205	0	95%
Viaduct Approach Ramp Retaining Walls											
Approach Ramp B											
ARDD0664	Approach B - IC/SO Approval of Approach Ramp B DDA -DP21.01	75	14-Oct-14 A	90%	8	01-Nov-16	31-May-16	10-Jun-16	-99	0	90%
ARDD0664-1	Approach B - IC/SO Approval of Approach Ramp B DDA -DP21.01	0		0%	0	01-Nov-16		10-Jun-16	-99	79	0%
Approach A											



Actual Work
Planned Bar
Critical Bar
Milestone

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Layout: J3518-DWP-3MRP Submission - M41
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Tuen Mun - Chek Lap Kok Link - Southern Connection
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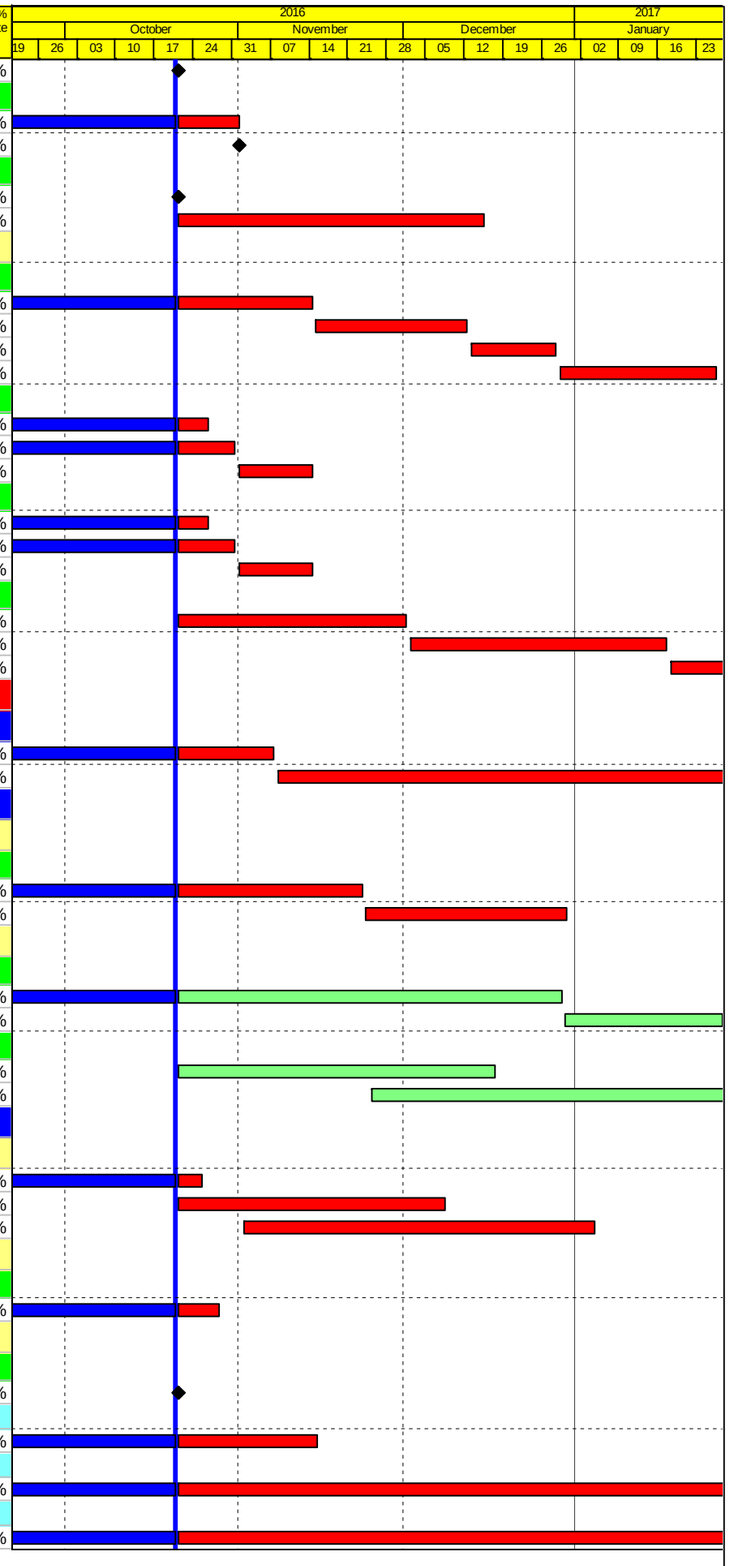
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
ARDD0670-1	Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01	0		0%	0	21-Oct-16		16-Apr-20	860	860	0%
Approach F											
ARDD0676	Approach F - IC/SO Approval of Approach Ramp F DDA -DP24.01	75	23-Dec-14 A	90%	8	01-Nov-16	18-Mar-15	27-Mar-15	-395	0	90%
ARDD0676-1	Approach F - IC/SO Approval of Approach Ramp F DDA -DP24.01	0		0%	0	01-Nov-16		17-Mar-16	-155	198	0%
Landscape											
ARDD0701	Water Supply Application to WSD	0		0%	0	21-Oct-16		17-Dec-15	-207	0	0%
ARDD0702	Gov't Approval of LVIA	40	21-Oct-16	0%	40	15-Dec-16	18-Dec-15	18-Feb-16	-207	137	0%
Segment Target Geometry And Erection Engineering											
Viaduct A											
ARDD0717	Viaduct A - Erection Sequence Analysis	31	23-Jan-16 A	45.16%	17	14-Nov-16	15-Feb-16	08-Mar-16	-171	0	95%
ARDD0718	Viaduct A - Target Geometry Analysis	20	15-Nov-16	0%	20	12-Dec-16	09-Mar-16	08-Apr-16	-171	0	0%
ARDD0719	Viaduct A - Segment Geometry Schedules	10	13-Dec-16	0%	10	28-Dec-16	11-Apr-16	22-Apr-16	-171	0	0%
ARDD0719-5	Viaduct A - Issue Erection Manual	20	29-Dec-16	0%	20	26-Jan-17	25-Apr-16	23-May-16	-171	0	0%
Viaduct E5 and E6											
ARDD0734	Viaduct E5 & E6 - Segment Geometry Schedules	10	05-May-14 A	60%	4	26-Oct-16	22-Mar-16	29-Mar-16	-145	3	90%
TGP0570	Viaduct E5 & E6 - Issue of Optimised Casting Data and Segment Catalogu	40	30-Apr-15 A	82.5%	7	31-Oct-16	17-Mar-16	29-Mar-16	-148	0	90%
TGP0590	Viaduct E5 & E6 - Issue Erection Manual	10	01-Nov-16	0%	10	14-Nov-16	30-Mar-16	13-Apr-16	-148	138	0%
Viaduct E7 & E8											
ARDD0739	Viaduct E7 & E8 - Segment Geometry Schedules	10	05-May-14 A	60%	4	26-Oct-16	22-Mar-16	29-Mar-16	-145	3	90%
TGP0760	Viaduct E7 & E8 - Issue of Optimised Casting Data and Segment Catalogu	40	31-Jul-15 A	82.5%	7	31-Oct-16	17-Mar-16	29-Mar-16	-148	0	90%
TGP0790	Viaduct E7 & E8 - Issue Erection Manual	10	01-Nov-16	0%	10	14-Nov-16	30-Mar-16	13-Apr-16	-148	138	0%
Viaduct F											
ARDD0752	Viaduct F - Erection Sequence Analysis	30	21-Oct-16	0%	30	01-Dec-16	06-Nov-15	17-Dec-15	-237	0	0%
ARDD0753	Viaduct F - Target Geometry Analysis	30	02-Dec-16	0%	30	17-Jan-17	18-Dec-15	01-Feb-16	-237	0	0%
ARDD0754	Viaduct F - Segment Geometry Schedules	10	18-Jan-17	0%	10	02-Feb-17	02-Feb-16	18-Feb-16	-237	0	0%
Major Procurement											
Marine Permanent Navigaion Aids											
PR65011	Design & Approvals for Marine Navigation Aids	150	23-Oct-13 A	90%	15	07-Nov-16	30-Nov-15	16-Dec-15	-263	0	90%
PR65012	Procure & Deliver Marine Navigation Aids	240	08-Nov-16	0%	240	30-Aug-17	17-Dec-15	11-Oct-16	-263	0	0%
Deck Segment Installation Equipment											
Lifting Frames											
Lifting Frames 3 & 4											
PR68017	Lifting Frame 3&4 Fabrication	85	29-Sep-14 A	65.88%	29	23-Nov-16	06-Aug-15	08-Sep-15	-359	0	67%
PR68018	Lifting Frame 3&4 Delivery	30	24-Nov-16	0%	30	30-Dec-16	09-Sep-15	15-Oct-15	-359	0	0%
Unloading Frames											
Type 1 (at B6 and D6)											
PR69110	Unloading Frame Type 1 Fabrication	80	23-Feb-15 A	27.5%	58	29-Dec-16	25-Nov-16	07-Feb-17	30	0	28%
PR69120	Unloading Frame Type 1 Delivery (UF-1A & UF-1B)	24	30-Dec-16	0%	24	27-Jan-17	08-Feb-17	07-Mar-17	30	0	0%
Type 2 (at Bridge E1)											
PR69170	Unloading Frame Type 2 Design	50	21-Oct-16	0%	50	17-Dec-16	21-Oct-19	17-Dec-19	887	0	0%
PR69180	Unloading Frame Type 2 Fabrication	80	25-Nov-16	0%	80	04-Mar-17	25-Nov-19	03-Mar-20	887	0	0%
Deck Segments & Precast Pile Cap Shells											
Preliminaries											
MBBE0050	Precast Segment Mould Fabrication & Erection (Viaduct A)	52	24-Dec-14 A	92.31%	4	25-Oct-16	31-May-16	03-Jun-16	-118	1027	100%
MBBE0054	Precast Segment Mould Design (Viaduct F1 to F5)	42	21-Oct-16*	0%	42	08-Dec-16	29-Feb-16	21-Apr-16	-191	0	0%
MBBE0056	Precast Segment Mould Fabrication & Erection (Viaduct F1 to F5)	52	02-Nov-16	0%	52	04-Jan-17	11-Mar-16	17-May-16	-191	54	0%
Viaduct B											
Precast Deck Segments											
MBBE130-1	B: Progressive Match Cast Segment Manufacture & Delivery remaining seg	597	24-Oct-14 A	98.83%	7	28-Oct-16	20-May-16	27-May-16	-127	157	99.4%
Viaduct E											
Precast Deck Segments											
MBE00014	Viaduct E2 - Pier Head Segment Casting	0	21-Oct-16	0%	0		16-Apr-20		1031	1031	0%
Viaduct E1											
MBEE0130-5	E1: Progressive Segment Manufacture & Delivery remaining segments (18	456	08-Apr-15 A	95.2%	22	15-Nov-16	08-Jun-16	05-Jul-16	-111	1009	95.2%
Viaduct E2											
MBEE0130-7	E2: Progressive Segment Manufacture & Delivery remaining segments (41	376	06-May-15 A	34.57%	246	19-Aug-17	17-Nov-15	14-Sep-16	-274	785	34.8%
Viaduct E5, E6, E7 & E8											
MBEE0130-9	E5-6-7-8: Progressive Segment Manufacture & Delivery remaining segmer	360	06-May-15 A	11.2%	320	17-Nov-17	06-Feb-16	08-Mar-17	-207	711	11.2%



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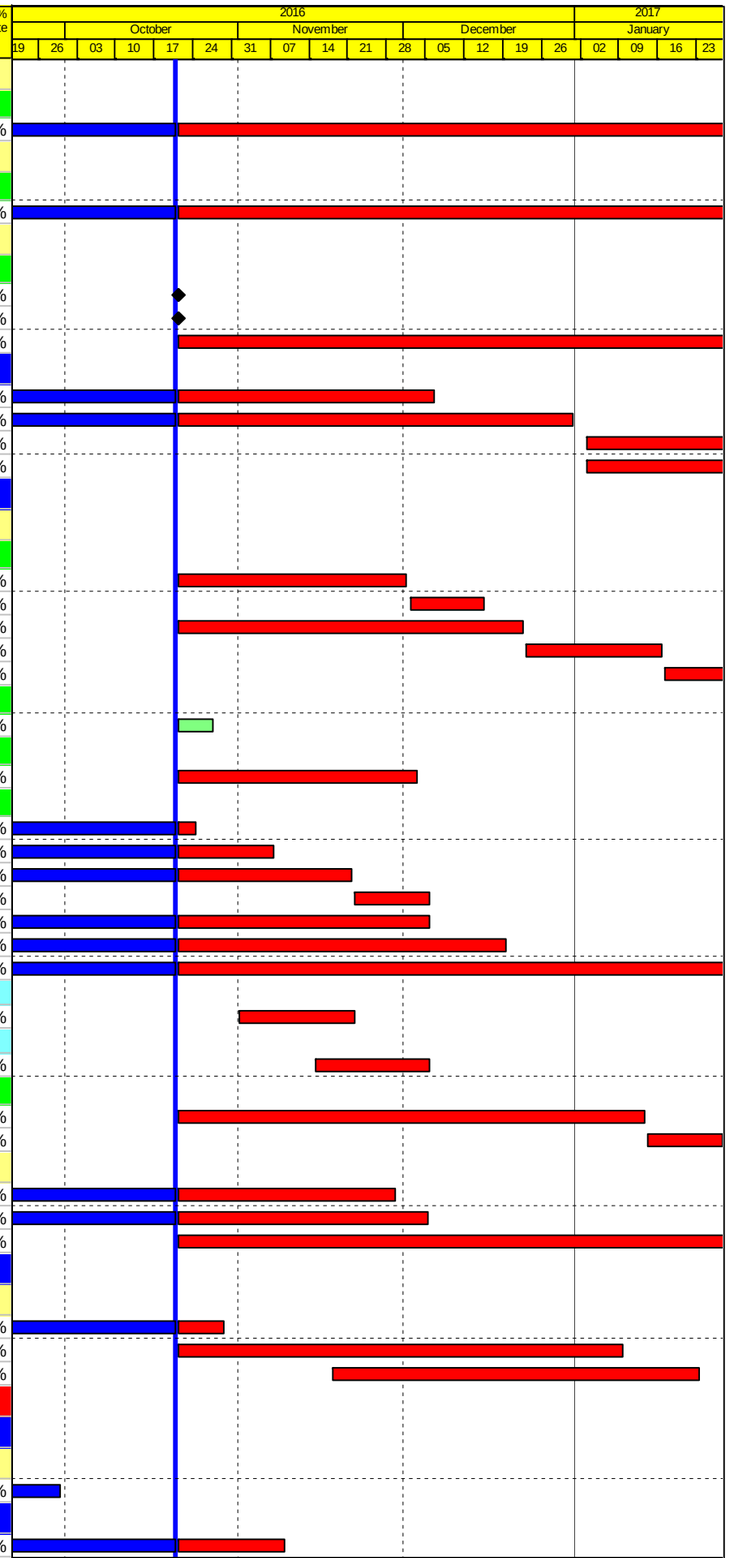
Viaduct D											
Precast Deck Segments											
MBDE0130-7	D: Progressive Match Cast Segment Manufacture & Delivery (311 Nr)	315	05-May-15 A	56.9%	136	04-Apr-17	11-Feb-16	27-Jul-16	-206	129	56.9%
Viaduct C											
Precast Deck Segments											
MBCE0130-1	C: Progressive Segment Manufacture & Delivery remaining segments (388	265	19-May-15 A	41%	156	05-May-17	23-Nov-15	06-Jun-16	-269	50	41%
Viaduct A											
Precast Deck Segments											
MBAA1100	Viaduct A - Pier Head Segment Casting	0	21-Oct-16	0%	0		31-May-16		-118	0	0%
MBAE0120	A: Commence Segment Casting on Approval of DDA	0	21-Oct-16	0%	0		31-May-16		-118	0	0%
MBAE0130-1	A: Progressive Segment Manufacture & Delivery remaining segments (179	122	21-Oct-16	0%	122	20-Mar-17	31-May-16	25-Oct-16	-118	87	0%
Parapets											
PP6010	Procure Sub-Contractor for Precast Parapets/Barriers	40	21-Aug-15 A	0%	40	06-Dec-16	28-Dec-15	16-Feb-16	-241	20	37.5%
PP6011	Precast Parapets/Barriers Detail Design & Procure Moulds	120	06-Oct-15 A	50%	60	31-Dec-16	09-Oct-15	18-Dec-15	-306	0	50%
PP6011-02	Viaduct B - Precast Parapets/Barriers Production & Delivery	120	03-Jan-17	0%	120	02-Jun-17	18-Feb-16	15-Jul-16	-260	0	0%
PP6011-04	Viaduct D - Precast Parapets/Barriers Production & Delivery	120	03-Jan-17	0%	120	02-Jun-17	17-Feb-16	14-Jul-16	-261	0	0%
Materials											
Bearings											
Viaduct A											
PPBRA5	SO review & comment on design submission - Viaduct A	36	21-Oct-16	0%	36	01-Dec-16	22-Apr-16	04-Jun-16	-149	0	0%
PPBRA6	Bearing Design Amendment & re-issue - Viaduct A	12	02-Dec-16	0%	12	15-Dec-16	14-Jun-16	27-Jun-16	-143	6	0%
PPBRA7	Manufacture of Bearing - Viaduct A	54	21-Oct-16	0%	54	22-Dec-16	22-Apr-16	27-Jun-16	-149	0	0%
PPBRA8	Testing Bearing - Viaduct A	18	23-Dec-16	0%	18	16-Jan-17	28-Jun-16	19-Jul-16	-149	0	0%
PPBRA9	Bearing Delivery - Viaduct A	48	17-Jan-17	0%	48	16-Mar-17	20-Jul-16	13-Sep-16	-149	0	0%
Viaduct C											
PPBRC99	Site preparation Bearings for Viaduct C	6	21-Oct-16	0%	6	27-Oct-16	07-Apr-20	16-Apr-20	1025	1025	0%
Viaduct D											
PPBRD99	Site preparation Bearings for Viaduct D	38	21-Oct-16	0%	38	03-Dec-16	24-Feb-16	12-Apr-16	-195	21	0%
Viaduct E											
PPBRE3	Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	12	28-Nov-13 A	75%	3	24-Oct-16	04-Jan-16	06-Jan-16	-236	0	100%
PPBRE4	Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	04-Apr-14 A	37.5%	15	07-Nov-16	04-Jan-16	20-Jan-16	-236	0	100%
PPBRE5	SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E	36	26-Sep-14 A	25%	27	21-Nov-16	04-Jan-16	03-Feb-16	-236	0	100%
PPBRE6	Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E	12	22-Nov-16	0%	12	05-Dec-16	04-Feb-16	20-Feb-16	-236	0	0%
PPBRE7	Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	54	02-Jun-14 A	27.78%	39	05-Dec-16	04-Jan-16	20-Feb-16	-236	0	100%
PPBRE8	Testing Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	03-Aug-15 A	0%	51	19-Dec-16	04-Jan-16	05-Mar-16	-236	0	100%
PPBRE9	Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8)	48	19-Nov-14 A	0%	87	06-Feb-17	04-Jan-16	21-Apr-16	-236	0	100%
Bridge E1											
PP7360	Site preparation Bearings for Viaduct E1	18	01-Nov-16	0%	18	22-Nov-16	23-Mar-16	16-Apr-16	-180	8	0%
Bridge E2											
PP7290	Site preparation Bearings for Viaduct E2	18	15-Nov-16	0%	18	05-Dec-16	31-Mar-16	21-Apr-16	-188	48	0%
Viaduct F											
PPBRF1	Preliminary Design of Bearings - Viaduct F	70	21-Oct-16	0%	70	13-Jan-17	07-Aug-15	30-Oct-15	-358	0	0%
PPBRF3	Bearing design and submission - Viaduct F	12	14-Jan-17	0%	12	27-Jan-17	31-Oct-15	13-Nov-15	-358	0	0%
Movement Joints											
PPMJ01	Design & Submission of MJ	138	08-Feb-14 A	75.36%	34	29-Nov-16	19-Oct-15	27-Nov-15	-298	997	30%
PPMJ02-1	MJ Design Approval	96	26-May-14 A	60%	38	05-Dec-16	11-Nov-15	28-Dec-15	-278	20	60%
PPMJ02-2	Manufacture & delivery of MJ	188	21-Oct-16	0%	188	12-Jun-17	19-Oct-15	08-Jun-16	-298	0	0%
Other Sub-Contract Procurement											
Structural Health Monitoring System (SHMS)											
PP7778	SHMS - So approval of Final System Proposal	30	16-Dec-14 A	73.33%	8	29-Oct-16	30-Jul-15	07-Aug-15	-365	0	75%
PP7780	SHMS - Prepare Civil Work Provision	66	21-Oct-16	0%	66	09-Jan-17	30-Jul-15	16-Oct-15	-365	0	0%
PP7788	SHMS - FAT & Delivery for Bridge E5-E6-E7-E8 equipment	54	18-Nov-16	0%	54	23-Jan-17	27-Aug-15	31-Oct-15	-365	0	0%
Site Preparation / Mobilisations											
Tree Felling / Transplant											
Approved Trees in Contract											
TR00220	Tree transplant for Viaduct B - affecting Pier B18 & Abutment B	90	17-Feb-14 A	100%	0	30-Sep-16 A					100%
Unloading Jetty at HKBCF											
PR09070	Unloading Jetty at HKBCF - Install Unloading Frame incl. testing/commissio	56	26-Jul-16 A	70%	17	09-Nov-16	15-Mar-16	07-Apr-16	-178	158	70%



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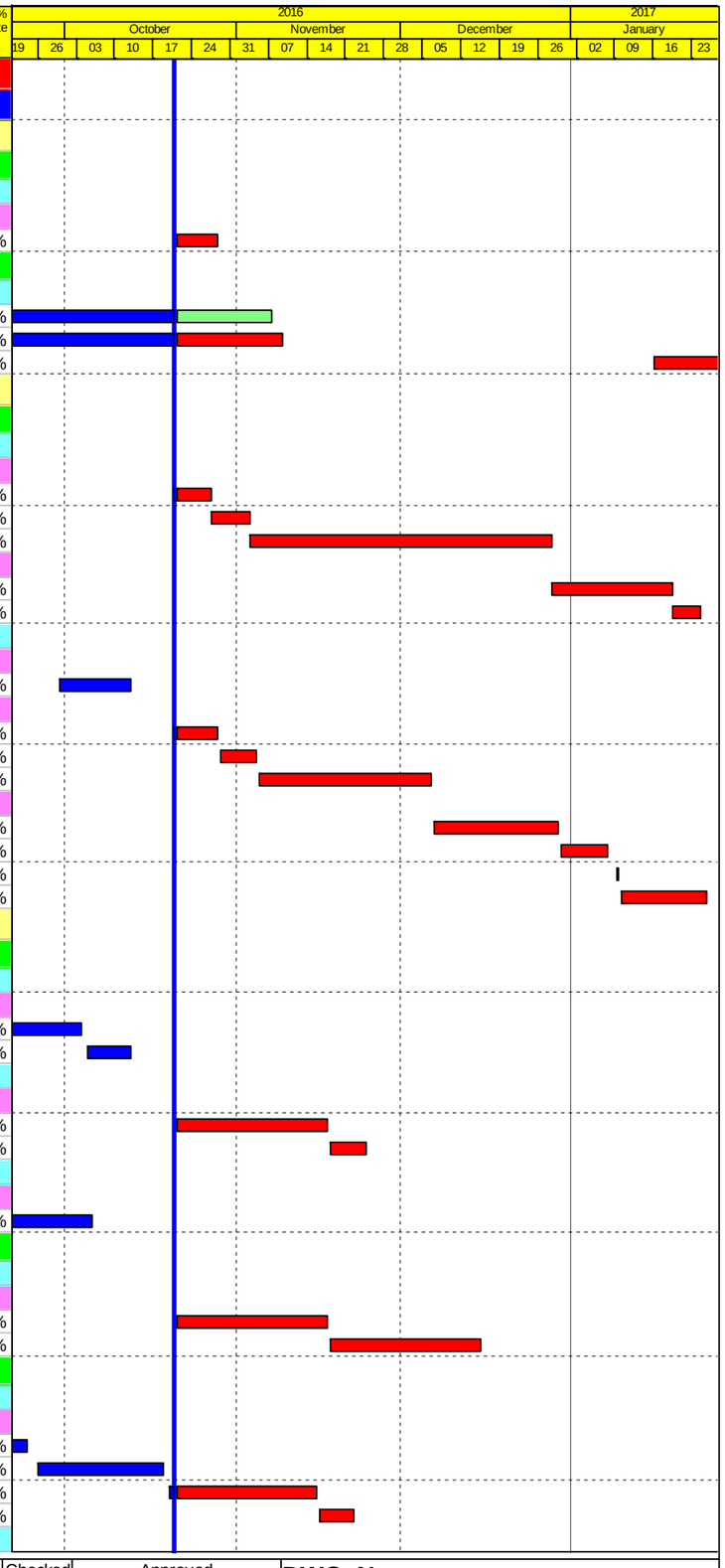
CONSTRUCTION											
PILING AND SUBSTRUCTURE											
Viaduct A											
Bridge A2											
Pier A1 (A2e)											
Pier Head Segments											
SA2E0382	A1 (A2e) - Pier Head Segment Lift & Temp Support (2 seg)	7	21-Oct-16	0%	7	28-Oct-16	19-Jul-16	26-Jul-16	-78	127	0%
Bridge A1											
Abutment & Approach Ramp A											
SA1A0250	AR-A - RE Walls - Excavation/formation/drainage fillter & bottom layer to g	72	14-Mar-16 A	79.17%	15	07-Nov-16	26-Mar-20	16-Apr-20	1016	1016	10%
SA1A0290	AR-A - RC Walls construction	48	16-Apr-16 A	65%	17	09-Nov-16	13-Aug-16	01-Sep-16	-56	54	65%
SA1A0330	AR-A - remaining RE & RC walls	48	16-Jan-17*	0%	48	15-Mar-17	02-Sep-16	31-Oct-16	-110	0	0%
Viaduct B											
Bridge B1											
Pier B17 (B1c)											
Socketted H-Pile Installation											
GFXX324-3	B17 (B1c) - Predrilling	6	21-Oct-16 A	1.01%	6	27-Oct-16	02-Mar-16	08-Mar-16	-189	0	1%
GFXX324-5	B17 (B1c) - Confirm Rockhead Levels	6	27-Oct-16	0%	6	03-Nov-16	09-Mar-16	15-Mar-16	-189	0	0%
GFXX325-3	B17 (B1c) - Install SH Pile (10 nr) (incl. proof drilling)	45	03-Nov-16	0%	45	28-Dec-16	16-Mar-16	12-May-16	-189	0	0%
Pile Cap Works											
SB1C0090	B17 (B1c) - Pile cap Excavation / ELS (incl. sheet piling)	18	28-Dec-16	0%	18	19-Jan-17	13-May-16	03-Jun-16	-189	0	0%
SB1C0092	B17 (B1c) - Pile Breakdown to cut-off etc.	4	19-Jan-17	0%	4	24-Jan-17	04-Jun-16	08-Jun-16	-189	0	0%
Pier B18 (B1b) & Abutment B											
Preliminary Works for Land Piling											
PB180030	B18 (B1b) - Install Geo. Instru. & Baseline Monitoring	36	30-Sep-16 A	100%	0	13-Oct-16 A					100%
Socketted H-Pile Installation											
GFXX324-4	B18 (B1b) - Predrilling	6	21-Oct-16 A	0%	7	28-Oct-16	01-Feb-16	11-Feb-16	-212	0	0%
GFXX324-6	B18 (B1b) - Confirm Rockhead Levels	6	29-Oct-16	0%	6	04-Nov-16	12-Feb-16	18-Feb-16	-212	0	0%
GFXX325-4	B18 (B1b) - Install SH Pile (6 no.) (incl. proof drilling)	27	05-Nov-16	0%	27	06-Dec-16	19-Feb-16	21-Mar-16	-212	0	0%
Pile Cap Works											
SB1B0090	B18 (B1b) - Pile cap Excavation / ELS	18	07-Dec-16	0%	18	29-Dec-16	22-Mar-16	15-Apr-16	-212	0	0%
SB1B0092	B18 (B1b) - Pile Breakdown to cut-off etc.	7	30-Dec-16	0%	7	07-Jan-17	16-Apr-16	23-Apr-16	-212	0	0%
SB1B0100	B18 (B1b) - Pile cap Blinding	1	09-Jan-17	0%	1	09-Jan-17	25-Apr-16	25-Apr-16	-212	0	0%
SB1B0130	B18 (B1b) - Pile cap Rebar, Formwork, Concreting	14	10-Jan-17	0%	14	25-Jan-17	26-Apr-16	12-May-16	-212	0	0%
Viaduct C											
Bridge C3											
Pier C8 (C3d)											
Pier Head Segments											
SC3D0378	C8 (C3d) - Pier Head Segment Diaphragm - Rebar, Formwork, Concreting	19	27-Jul-16 A	100%	0	04-Oct-16 A					100%
SC3D0380	C8 (C3d) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	05-Oct-16 A	100%	0	13-Oct-16 A					100%
Pier C10 (C3b)											
Pier Head Segments											
SC3B0378	C10 (C3b) - Pier Head Segment Diaphragm - Rebar, Formwork, Concretir	24	21-Oct-16	0%	24	17-Nov-16	05-Apr-16	03-May-16	-164	0	0%
SC3B0380	C10 (C3b) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	18-Nov-16	0%	6	24-Nov-16	04-May-16	10-May-16	-164	135	0%
Pier C11 (C3a)											
Pier Head Segments											
SC3A382	C11 (C3a) - C11-B Diaphragm	24	30-Aug-16 A	100%	0	06-Oct-16 A					100%
Bridge C2											
Pier C16 (C2b)											
Pier Head Segments											
SC2B380	C16 (C2b) - C16A Diaphragm	24	21-Oct-16	0%	24	17-Nov-16	15-Feb-16	12-Mar-16	-203	0	0%
SC2B382	C16 (C2b) - C16B Diaphragm	24	18-Nov-16	0%	24	15-Dec-16	14-Mar-16	14-Apr-16	-203	0	0%
Bridge C1											
Pier C17 (C2a)											
Pier Head Segments											
SC2A0370	C17 (C2a) - Cast Insitu Pier Head Segment - Temporary Platform	6	19-Jul-16 A	100%	0	24-Sep-16 A					100%
SC2A0372	C17 (C2a) - Cast Insitu Pier Head Segment - Formwork	19	26-Sep-16 A	100%	0	19-Oct-16 A					100%
SC2A0378	C17 (C2a) - Cast Insitu Pier Head Segment - Rebar and Concreting	23	20-Oct-16 A	4.35%	22	15-Nov-16	28-Dec-15	22-Jan-16	-241	0	5%
SC2A0380	C17 (C2a) - Cast Insitu Pier Head Segment - Curing & Striking of Forms	6	16-Nov-16	0%	6	22-Nov-16	23-Jan-16	29-Jan-16	-241	0	0%
Abutment & Approach Ramp C											



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 4 of 13 Pages)
(Progress as of 21-Oct-16)

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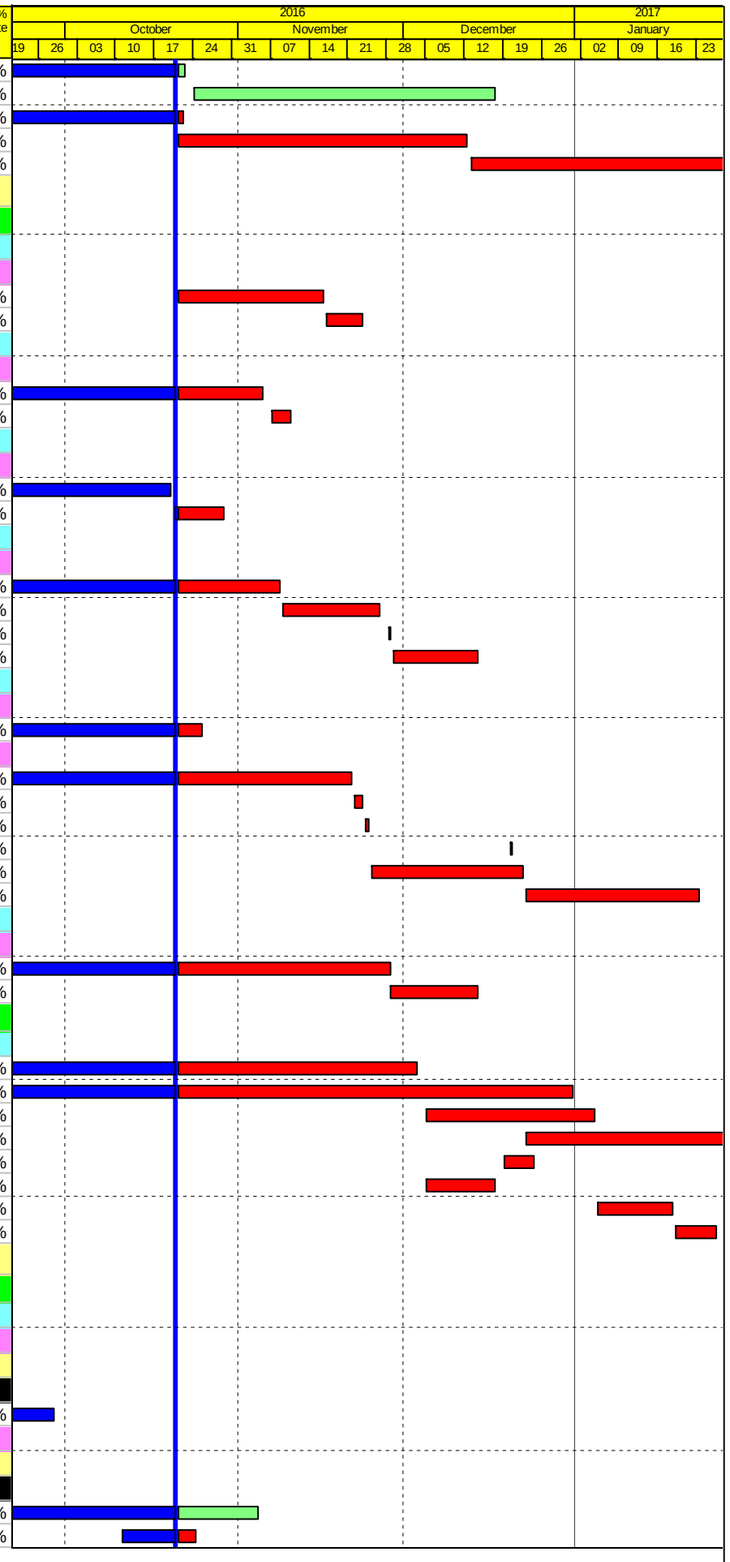
03-Oct-16		PKN	HF
31-Oct-16		PKN	GL

DWG. No.:
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
SC1C0250	AR-C - RE Walls - Erect fencing, Excavation/formation/ drainage filter & bo	12	22-Apr-15 A	83.33%	2	22-Oct-16	14-Feb-20	15-Feb-20	981	0	90%
SC1C0251	AR-C - RE Walls - Upper layers with backfill in stages (exclude 800dia Tcc a	48	24-Oct-16	0%	48	17-Dec-16	17-Feb-20	16-Apr-20	981	981	0%
SC1C0254	AR-C - RC Walls - Backfill	12	16-May-16 A	90%	1	22-Oct-16	13-Apr-16	14-Apr-16	-156	119	90%
SC1C0257	ARC - Utility work - Termination of 800 dia Tcc	45	21-Oct-16*	0%	45	12-Dec-16	10-Nov-15	04-Jan-16	-280	0	0%
SC1C0258	ARC - Utility work - Remove 800 dia Tcc and backfill	75	13-Dec-16*	0%	75	16-Mar-17	05-Jan-16	08-Apr-16	-280	0	0%
Viaduct D											
Bridge D2											
Pier D8 (D3d)											
Pier Head Segments											
SD3D0378	D8 (D3d) - Pier Head Segment Diaphragm - Rebar, Formwork, Concreting	23	21-Oct-16	0%	23	16-Nov-16	19-Jan-16	17-Feb-16	-223	0	0%
SD3D0380	D8 (D3d) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	17-Nov-16	0%	6	23-Nov-16	18-Feb-16	25-Feb-16	-222	52	0%
Pier D12 (D2e)											
Portal											
SD2ER320	D12 (D2e) - Pier Head Curing/Striking of Forms/Remove Scaffolding	14	09-May-16 A	0%	14	05-Nov-16	12-Apr-16	27-Apr-16	-158	0	0%
SD2ER325	D12 (D2e) - Pier Backfilling Works	4	07-Nov-16	0%	4	10-Nov-16	13-Jun-16	16-Jun-16	-122	219	0%
Pier D9 (D3c)											
Pier Head Segments											
SD3C0378	D9 (D3c) - Pier Head Segment Diaphragm - Rebar, Formwork, Concreting	22	06-Jul-16 A	100%	0	20-Oct-16 A					100%
SD3C0380	D9 (D3c) - Pier Head Segment Diaphragm - Curing & Striking of Forms	8	21-Oct-16 A	0%	8	29-Oct-16	17-Mar-16	29-Mar-16	-176	0	0%
Pier D10 (D3b)											
Portal											
SD3BR300	D10 (D3b) - Portal Beam Rebarwork & Inserts	16	29-Apr-16 A	0%	16	08-Nov-16	09-Mar-16	30-Mar-16	-183	0	0%
SD3BR305	D10 (D3b) - Portal Beam Side Formwork & Prep for Concreting	16	09-Nov-16	0%	16	26-Nov-16	31-Mar-16	19-Apr-16	-183	0	0%
SD3BR310	D10 (D3b) - Portal Beam Concreting	1	28-Nov-16	0%	1	28-Nov-16	20-Apr-16	20-Apr-16	-183	0	0%
SD3BR320	D10 (D3b) - Pier Head Curing/Striking of Forms/Remove Scaffolding	14	29-Nov-16	0%	14	14-Dec-16	21-Apr-16	07-May-16	-183	0	0%
Pier D13 (D2d)											
Pier Works											
SD2D0360	D13 (D2d) - Type 5B-MJ Pier Backfilling Works	4	14-Jun-16 A	0%	4	25-Oct-16	29-Feb-16	03-Mar-16	-191	25	10%
Pier Head Segments											
SD2D0370	D13 (D2d) - Pier Head Segment - Temporary Platform	6	11-Jul-16 A	0%	27	21-Nov-16	27-Jan-16	01-Mar-16	-216	0	0%
SD2D0371	D13 (D2d) - Pier Head Segment Bearings	2	22-Nov-16	0%	2	23-Nov-16	02-Mar-16	03-Mar-16	-216	0	0%
SD2D0372	D13 (D2d) - D13A - Pier Head Segment Lift & Fix (1 seg)	1	24-Nov-16	0%	1	24-Nov-16	04-Mar-16	04-Mar-16	-216	0	0%
SD2D380	D13 (D2d) - D13B - Pier Head Segment Lift & Fix (1 seg)	1	20-Dec-16	0%	1	20-Dec-16	02-Apr-16	02-Apr-16	-216	0	0%
SD2D382	D13 (D2d) - D13A - Diaphragm	24	25-Nov-16	0%	24	22-Dec-16	05-Mar-16	06-Apr-16	-216	0	0%
SD2D384	D13 (D2d) - D13B - Diaphragm	24	23-Dec-16	0%	24	23-Jan-17	07-Apr-16	05-May-16	-216	25	0%
Pier D11 (D3a)											
Portal											
SD3AR310	D11 (D3a) - Portal Beam Rebar, Formwork, Concreting	45	08-Apr-16 A	27%	33	28-Nov-16	15-Apr-16	25-May-16	-155	0	27%
SD3AR320	D11 (D3a) - Pier Head Curing/Striking of Forms/Remove Scaffolding	14	28-Nov-16	0%	14	14-Dec-16	26-May-16	11-Jun-16	-155	9	0%
Bridge D1											
Abutment & Approach Ramp D											
SD1B0252	AR-D - Box structure - Bay 1 & Bay 8	55	07-Mar-16 A	30.91%	38	03-Dec-16	18-Apr-16	02-Jun-16	-153	0	30%
SD1B0290	AR-D - Backfill embankment	90	02-Nov-15 A	33.33%	60	31-Dec-16	08-Oct-16	17-Dec-16	-10	0	0%
SD1B0300	AR-D - RC Walls - Concrete parapets / Profile barriers	24	05-Dec-16	0%	24	04-Jan-17	11-Aug-16	07-Sep-16	-96	0	0%
SD1B0400	AR-D - Drainage	45	23-Dec-16	0%	45	20-Feb-17	12-Dec-16	08-Feb-17	-10	0	0%
SD1B0402	AR-D - Subbase	6	19-Dec-16	0%	6	24-Dec-16	18-Jun-16	24-Jun-16	-153	6	0%
SD1B0420	AR-D - Ductings for TCSS civil work provisions (for KD4)	12	05-Dec-16	0%	12	17-Dec-16	03-Jun-16	17-Jun-16	-153	0	0%
SD1B0430	AR-D - Parapet railings / Light poles / Traffic sign / Street furniture	12	05-Jan-17	0%	12	18-Jan-17	08-Sep-16	22-Sep-16	-96	0	0%
SD1B0440	AR-D - Electrics / Comms	7	19-Jan-17	0%	7	26-Jan-17	23-Sep-16	30-Sep-16	-96	116	0%
Viaduct E											
Viaduct E2											
Bridge E2 - Piling & Substructure											
E3A,E3B, E3C & E3D (E2a - 1/2/3/4)											
Pier Head Segements - E3A,E3B, E3C & E3D											
Pier Head Segment - E3D (E2a1)											
SE2A1372	E3D (E2a1) - Pier Head Segment Lift & Temp Support (2 seg)	8	06-Sep-16 A	100%	0	29-Sep-16 A					100%
E4A & E4B (E2b - 1/2)											
Pier Head Segements - E4A & E4B											
Pier head Segment - E4A (E2b2)											
E4A3130	E4A - Diaphragm of PHS - Formwork, Rebar, Concreting	52	02-Jul-16 A	75%	13	04-Nov-16	28-Mar-20	16-Apr-20	1018	1018	75%
E4A3140	E4A - Remove Rail Beams, Megashore Towers	13	11-Oct-16 A	76.92%	3	24-Oct-16	27-Aug-15	29-Aug-15	-341	0	50%



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 5 of 13 Pages)
(Progress as of 21-Oct-16)

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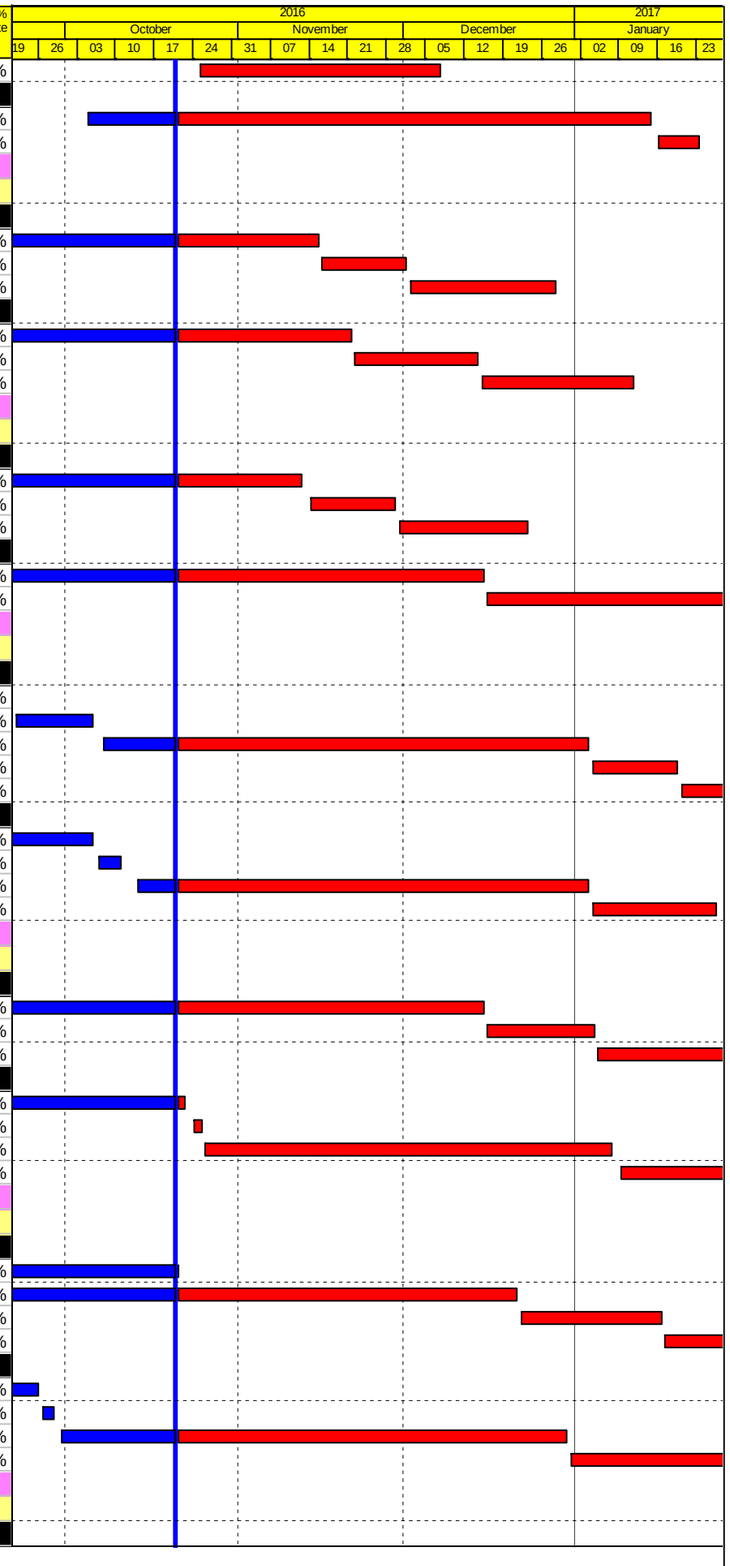
DWG. No.:

J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
E4A3150	E4A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	38	25-Oct-16	0%	38	07-Dec-16	31-Aug-15	15-Oct-15	-341	18	0%
Pier head Segment - E4B (E2b1)											
E4B3130	E4B - Diaphragm of PHS - Formwork, Rebar, Concreting	53	05-Oct-16 A	0%	71	14-Jan-17	17-Aug-15	10-Nov-15	-350	0	5%
E4B3140	E4B - Remove Rail Beams, Megashore Towers	7	16-Jan-17	0%	7	23-Jan-17	11-Nov-15	18-Nov-15	-350	0	0%
E5A & E5B (E2c - 1/2)											
Pier Head Segements - E5A & E5B											
Pier head Segment - E5A (E2c2)											
E5A3130	E5A - Diaphragm of PHS - Formwork, Rebar, Concreting	41	12-Sep-16 A	46.34%	22	15-Nov-16	07-Mar-16	05-Apr-16	-185	0	50%
E5A3140	E5A - Remove Rail Beams	14	16-Nov-16	0%	14	01-Dec-16	06-Apr-16	21-Apr-16	-185	0	0%
E5A3150	E5A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	02-Dec-16	0%	21	28-Dec-16	22-Apr-16	18-May-16	-185	0	0%
Pier head Segment - E5B (E2c1)											
E5B3130	E5B - Diaphragm of PHS - Formwork, Rebar, Concreting	41	01-Sep-16 A	34.15%	27	21-Nov-16	14-Jul-16	13-Aug-16	-82	0	50%
E5B3140	E5B - Remove Rail Beams, Tower Crane	20	22-Nov-16	0%	20	14-Dec-16	15-Aug-16	06-Sep-16	-82	0	0%
E5B3150	E5B - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	15-Dec-16	0%	21	11-Jan-17	07-Sep-16	03-Oct-16	-82	0	0%
E6A & E6B (E2d - 1/2)											
Pier head Segment - E6A & E6B											
Pier head Segment - E6A (E2d2)											
E6A3130	E6A - Diaphragm of PHS - Formwork, Rebar, Concreting	43	08-Aug-16 A	53.49%	20	12-Nov-16	03-Oct-15	27-Oct-15	-311	0	60%
E6A3140	E6A - Remove Rail Beams	14	14-Nov-16	0%	14	29-Nov-16	28-Oct-15	12-Nov-15	-311	0	0%
E6A3150	E6A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	30-Nov-16	0%	21	23-Dec-16	13-Nov-15	07-Dec-15	-311	48	0%
Pier head Segment - E6B (E2d1)											
E6B3130	E6B - Diaphragm of PHS - Formwork, Rebar, Concreting	43	14-Sep-16 A	0%	48	15-Dec-16	12-May-16	09-Jul-16	-133	0	30%
E6B3140	E6B - Remove Rail Beams, Tower Crane	48	16-Dec-16	0%	48	16-Feb-17	11-Jul-16	03-Sep-16	-133	0	0%
E7A & E7B (E2e - 1/2)											
Pier head Segment - E7A & E7B											
Pier head Segment - E7A (E2e2)											
E7A3110	E7A - Temp. Work, Rail Beams	20	08-Sep-16 A	100%	0	21-Sep-16 A					100%
E7A3120	E7A - Install Pierhead Segments (4 nr)	6	22-Sep-16 A	100%	0	06-Oct-16 A					100%
E7A3130	E7A - Diaphragm of PHS - Formwork, Rebar, Concreting	47	08-Oct-16 A	0%	61	03-Jan-17	05-Mar-16	21-May-16	-186	0	5%
E7A3140	E7A - Remove Rail Beams	14	04-Jan-17	0%	14	19-Jan-17	23-May-16	07-Jun-16	-186	0	0%
E7A3150	E7A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	20-Jan-17	0%	21	16-Feb-17	08-Jun-16	04-Jul-16	-186	45	0%
Pier head Segment - E7B (E2e1)											
E7B3110	E7B - Temp. Work, Rail Beams	20	10-Sep-16 A	100%	0	06-Oct-16 A					100%
E7B3120	E7B - Install Pierhead Segments (4 nr)	6	07-Oct-16 A	100%	0	11-Oct-16 A					100%
E7B3130	E7B - Diaphragm of PHS - Formwork, Rebar, Concreting	44	14-Oct-16 A	0%	61	03-Jan-17	14-Oct-15	24-Dec-15	-302	0	5%
E7B3140	E7B - Remove Rail Beams, Tower Crane	20	04-Jan-17	0%	20	26-Jan-17	28-Dec-15	20-Jan-16	-302	0	0%
E8A & E8B (E2f - 1/2)											
Pier head Segment - E8A & E8B											
Pier head Segment - E8A (E2f2)											
E8A3130	E8A - Diaphragm of PHS - Formwork, Rebar, Concreting	48	20-Sep-16 A	0%	48	15-Dec-16	16-Jun-16	11-Aug-16	-105	0	0%
E8A3140	E8A - Remove Rail Beams	14	16-Dec-16	0%	14	04-Jan-17	12-Aug-16	27-Aug-16	-105	0	0%
E8A3150	E8A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	05-Jan-17	0%	21	01-Feb-17	29-Aug-16	22-Sep-16	-105	0	0%
Pier head Segment - E8B (E2f1)											
E8B3110	E8B - Temp. Work, Rail Beams	21	20-Sep-16 A	90.48%	2	22-Oct-16	21-Mar-16	22-Mar-16	-173	0	90%
E8B3120	E8B - Install Pierhead Segments (4 nr)	2	24-Oct-16	0%	2	25-Oct-16	23-Mar-16	24-Mar-16	-173	0	0%
E8B3130	E8B - Diaphragm of PHS - Formwork, Rebar, Concreting	61	26-Oct-16	0%	61	07-Jan-17	29-Mar-16	11-Jun-16	-173	0	0%
E8B3140	E8B - Remove Rail Beams, Tower Crane	38	09-Jan-17	0%	38	24-Feb-17	13-Jun-16	27-Jul-16	-173	0	0%
E9A & E9B (E2g - 1/2)											
Pier head Segment - E9A & E9B											
Pier head Segment - E9A (E2g2)											
E9A3110	E9A - Temp. Work, Rail Beams	21	25-Jul-16 A	100%	0	21-Oct-16	16-Apr-20	16-Apr-20	1031	1031	100%
E9A3130	E9A - Diaphragm of PHS - Formwork, Rebar, Concreting	48	13-Sep-16 A	0%	53	21-Dec-16	27-Apr-16	30-Jun-16	-145	0	5%
E9A3140	E9A - Remove Rail Beams	19	22-Dec-16	0%	19	16-Jan-17	02-Jul-16	23-Jul-16	-145	0	0%
E9A3150	E9A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipm	21	17-Jan-17	0%	21	13-Feb-17	25-Jul-16	17-Aug-16	-145	0	0%
Pier head Segment - E9B (E2g1)											
E9B3110	E9B - Temp. Work, Rail Beams	20	16-Aug-16 A	100%	0	26-Sep-16 A					100%
E9B3120	E9B - Install Pierhead Segments (4 nr)	6	27-Sep-16 A	100%	0	29-Sep-16 A					100%
E9B3130	E9B - Diaphragm of PHS - Formwork, Rebar, Concreting	48	30-Sep-16 A	0%	59	30-Dec-16	03-May-16	13-Jul-16	-141	0	5%
E9B3140	E9B - Remove Rail Beams, Tower Crane	37	31-Dec-16	0%	37	16-Feb-17	14-Jul-16	25-Aug-16	-141	0	0%
E10A & E10B (E2h - 1/2)											
Pier Works - E10A & E10B											
Pier Works - E10B (E2h1)											



Actual Work
Planned Bar
Critical Bar
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Tuen Mun - Chek Lap Kok Link - Southern Connection
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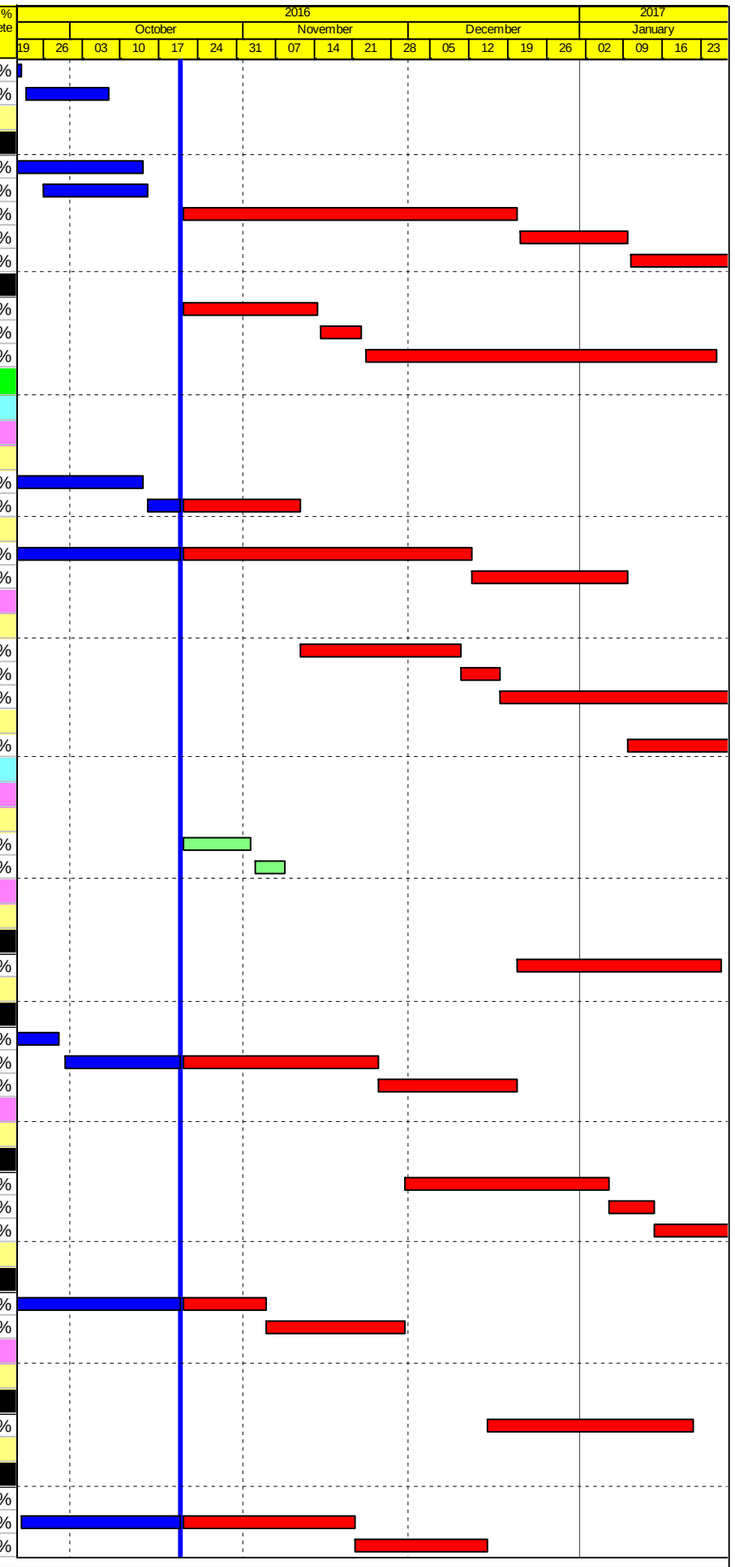
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
E10B2040	E10B - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper D	24	30-Jul-16 A	100%	0	22-Sep-16 A					100%
E10B2050	E10B - Seagull Pier Curing, CJ, Remove Formwork & Falsework	20	23-Sep-16 A	100%	0	08-Oct-16 A					100%
Pier head Segments - E10A & E10B											
Pier head Segments - E10A (E2h2)											
E10A3110	E10A - Temp. Work, Rail Beams	20	02-Sep-16 A	100%	0	14-Oct-16 A					100%
E10A3120	E10A - Install Pierhead Segments (4 nr)	6	26-Sep-16 A	100%	0	15-Oct-16 A					100%
E10A3130	E10A - Diaphragm of PHS - Formwork, Rebar, Concreting	52	21-Oct-16	0%	52	20-Dec-16	06-Jun-16	06-Aug-16	-113	0	0%
E10A3140	E10A - Remove Rail Beams	14	21-Dec-16	0%	14	09-Jan-17	08-Aug-16	23-Aug-16	-113	0	0%
E10A3150	E10A - Install Infill Segments (4 nr), Adjust, Stress, Stitch & Remove Equipr	21	10-Jan-17	0%	21	06-Feb-17	24-Aug-16	17-Sep-16	-113	60	0%
Pier head Segments - E10B (E2h1)											
E10B3110	E10B - Temp. Work, Rail Beams	21	21-Oct-16	0%	21	14-Nov-16	02-Mar-16	29-Mar-16	-189	0	0%
E10B3120	E10B - Install Pierhead Segments (4 nr)	7	15-Nov-16	0%	7	22-Nov-16	30-Mar-16	07-Apr-16	-189	0	0%
E10B3130	E10B - Diaphragm of PHS - Formwork, Rebar, Concreting	52	23-Nov-16	0%	52	25-Jan-17	08-Apr-16	10-Jun-16	-189	0	0%
Viaduct E5, E6, E7 & E8											
E11A & E11B (E5E6a/E7E8a)											
Pier Works - E11A & E11B											
Pier Works - E11A (E7E8a)											
E11A2040	E11A - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	44	30-Jul-16 A	100%	0	14-Oct-16 A					100%
E11A2050	E11A - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	15-Oct-16 A	10%	19	11-Nov-16	30-Jul-15	20-Aug-15	-365	0	10%
Pier Works - E11B (E5E6a)											
E11B2040	E11B - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	64	26-Aug-16 A	30%	45	12-Dec-16	06-Jul-15	26-Aug-15	-386	0	30%
E11B2050	E11B - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	12-Dec-16	0%	21	09-Jan-17	27-Aug-15	19-Sep-15	-386	0	0%
Pier Head Segments - E11A & E11B											
Pier Head Segments - E11A (E7E8a)											
E11A3110	E11A - Temp. Work, Grillages, Spreader Beams, Rail Beams	25	11-Nov-16	0%	25	10-Dec-16	21-Aug-15	18-Sep-15	-365	0	0%
E11A3120	E11A - Install Pierhead Segments (4 nr)	6	10-Dec-16	0%	6	17-Dec-16	19-Sep-15	25-Sep-15	-365	0	0%
E11A3130	E11A - Diaphragm of PHS - Formwork, Rebar, Concreting	97	17-Dec-16	0%	97	21-Apr-17	26-Sep-15	23-Jan-16	-365	0	0%
Pier Head Segments - E11B (E5E6a)											
E11B3110	E11B - Temp. Work, Spreader Beams, Rail Beams	24	09-Jan-17	0%	24	09-Feb-17	21-Sep-15	20-Oct-15	-386	0	0%
E12A, E12B, E12C & E12D (E8b/E7b/E6b/E5b)											
Pile Cap Works - E12A, E12B, E12C & E12D											
Pile Cap Works - Dolphin E12A (E8b)											
SE8BD130	E12A (E8b)- Dolphin - Marine Pile Cap - Fixings, Dewatering & Trimming o	11	21-Oct-16	0%	11	02-Nov-16	10-Feb-17	22-Feb-17	90	0	0%
SE8BD150	E12A (E8b) - Dolphin - Marine Pile Cap - Rebar, Concreting	5	03-Nov-16	0%	5	08-Nov-16	23-Feb-17	28-Feb-17	90	237	0%
Bridge E8 - Pier E12A (E8b)											
Pier Head Segments - E12A											
Pier Head Segments											
E12A3110	E12A - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	20-Dec-16	0%	29	26-Jan-17	07-Sep-15	12-Oct-15	-384	0	0%
Pier Works - E12A											
Pier Works											
E12A2030	E12A - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ar	30	04-Jul-16 A	100%	0	29-Sep-16 A					100%
E12A2040	E12A - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	44	30-Sep-16 A	30%	31	25-Nov-16	08-Jul-15	12-Aug-15	-384	0	30%
E12A2050	E12A - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	25-Nov-16	0%	21	20-Dec-16	13-Aug-15	05-Sep-15	-384	0	0%
Bridge E7 - Pier E12B (E7b)											
Pier Head Segments - E12B											
Pier Head Segments											
E12B3110	E12B - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	30-Nov-16	0%	29	06-Jan-17	23-Jul-15	25-Aug-15	-405	0	0%
E12B3120	E12B - Install Pierhead Segments (4 nr)	7	06-Jan-17	0%	7	14-Jan-17	26-Aug-15	02-Sep-15	-405	0	0%
E12B3130	E12B - Diaphragm of PHS - Formwork, Rebar, Concreting	100	14-Jan-17	0%	100	22-May-17	03-Sep-15	04-Jan-16	-405	0	0%
Pier Works - E12B											
Pier Works											
E12B2050	E12B - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	44	31-Aug-16 A	70%	13	05-Nov-16	10-Jun-15	26-Jun-15	-405	0	70%
E12B2060	E12B - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	05-Nov-16	0%	21	30-Nov-16	27-Jun-15	22-Jul-15	-405	0	0%
Bridge E6 - Pier E12C (E6b)											
Pier Head Segments - E12C											
Pier Head Segments											
E12C3110	E12C - Temp. Work, Grillages, Megashore Towers, Rail Beams	29	15-Dec-16	0%	29	21-Jan-17	04-Dec-15	09-Jan-16	-306	0	0%
Pier Works - E12C											
Pier Works											
E12C2030	E12C - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ar	30	13-Jun-16 A	100%	0	21-Sep-16 A					100%
E12C2040	E12C - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	44	22-Sep-16 A	40%	26	21-Nov-16	08-Oct-15	09-Nov-15	-306	0	40%
E12C2050	E12C - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	21-Nov-16	0%	21	15-Dec-16	10-Nov-15	03-Dec-15	-306	0	0%



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 7 of 13 Pages)
(Progress as of 21-Oct-16)

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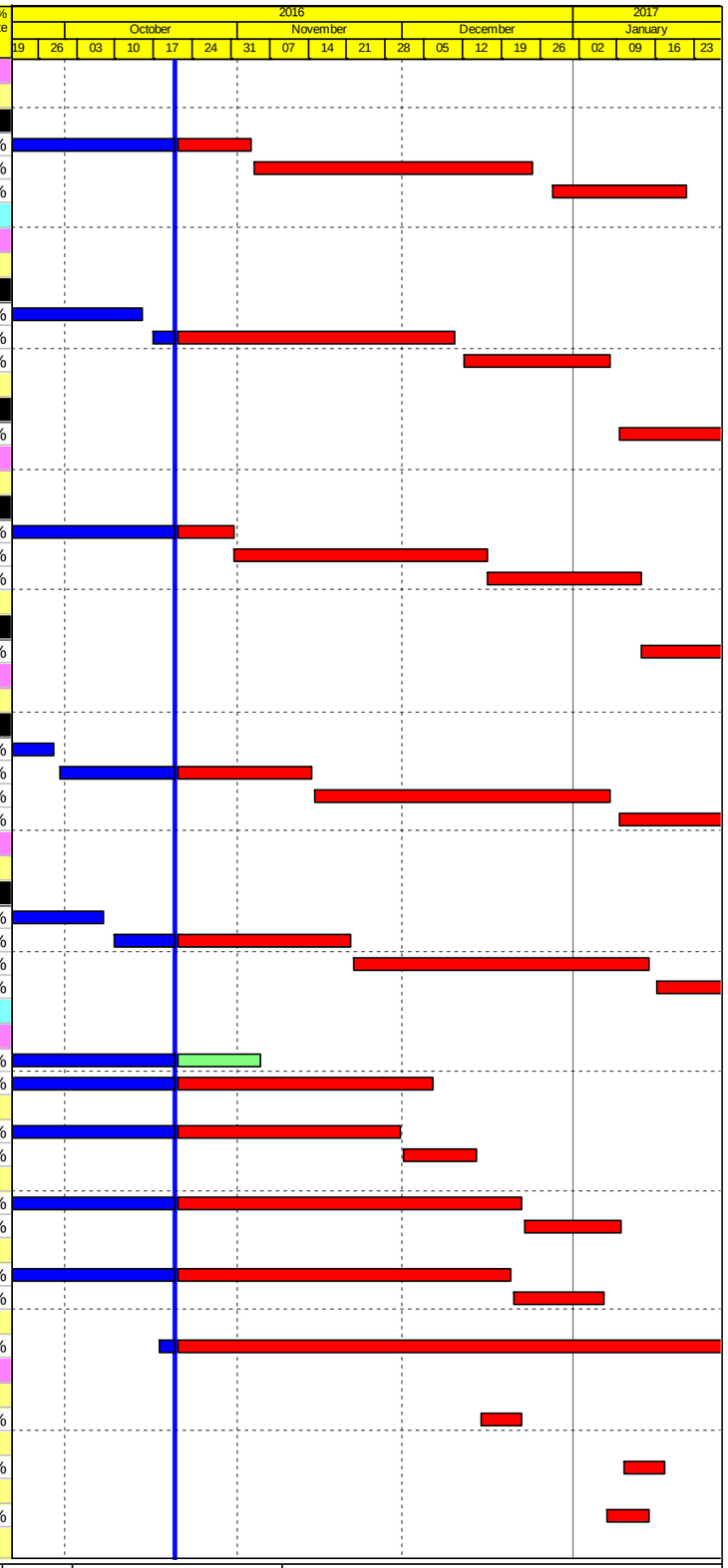
DWG. No.:
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
Bridge E5 - Pier E12D (E5b)											
Pier Works - E12D											
Pier Works											
E12D2030	E12D - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ai	30	19-Jul-16 A	60%	12	03-Nov-16	19-Oct-15	02-Nov-15	-298	0	60%
E12D2040	E12D - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ai	44	04-Nov-16	0%	44	24-Dec-16	03-Nov-15	23-Dec-15	-298	0	0%
E12D2050	E12D - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	28-Dec-16	0%	21	21-Jan-17	24-Dec-15	20-Jan-16	-298	0	0%
E13A, E13B, E13C & E13D (E8c/E7c/E6c/E5c)											
Bridge E8 - Pier E13A (E8c)											
Pier Works - E13A											
Pier Works											
E13A2030	E13A - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ar	31	27-Jul-16 A	100%	0	15-Oct-16 A					100%
E13A2040	E13A - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	44	17-Oct-16 A	0%	44	10-Dec-16	30-May-15	22-Jul-15	-415	0	0%
E13A2050	E13A - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	12-Dec-16	0%	21	07-Jan-17	23-Jul-15	15-Aug-15	-415	0	0%
Pier Head Segments - E13A											
Pier Head Segments											
E13A3110	E13A - Temp. Work, Grillages, Megashore Towers, Rail Beams	26	09-Jan-17	0%	26	10-Feb-17	17-Aug-15	15-Sep-15	-415	0	0%
Bridge E7 - Pier E13B (E7c)											
Pier Works - E13B											
Pier Works											
E13B2020	E13B - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ar	28	13-Aug-16 A	70%	8	31-Oct-16	18-Apr-15	28-Apr-15	-448	0	70%
E13B2030	E13B - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ar	40	31-Oct-16	0%	40	16-Dec-16	29-Apr-15	16-Jun-15	-448	0	0%
E13B2040	E13B - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	16-Dec-16	0%	21	13-Jan-17	17-Jun-15	13-Jul-15	-448	0	0%
Pier Head Segments - E13B											
Pier Head Segments											
E13B3110	E13B - Temp. Work, Grillages, Megashore Towers, Rail Beams	22	13-Jan-17	0%	22	11-Feb-17	14-Jul-15	07-Aug-15	-448	0	0%
Bridge E6 - Pier E13C (E6c)											
Pier Works - E13C											
Pier Works											
E13C2010	E13C - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower D	21	02-Sep-16 A	100%	0	29-Sep-16 A					100%
E13C2020	E13C - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ai	30	30-Sep-16 A	30%	21	14-Nov-16	13-Jun-15	09-Jul-15	-403	0	30%
E13C2030	E13C - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ai	44	15-Nov-16	0%	44	07-Jan-17	10-Jul-15	29-Aug-15	-403	0	0%
E13C2040	E13C - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	09-Jan-17	0%	21	04-Feb-17	31-Aug-15	23-Sep-15	-403	0	0%
Bridge E5 - Pier E13D (E5c)											
Pier Works - E13D											
Pier Works											
E13D2010	E13D - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower D	21	21-Sep-16 A	100%	0	08-Oct-16 A					100%
E13D2020	E13D - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Lower Ai	30	10-Oct-16 A	10%	27	21-Nov-16	14-Jul-15	13-Aug-15	-379	0	10%
E13D2030	E13D - Seagull Pier Temp. Work, Rebar, Formwork, Concreting - Upper Ai	44	22-Nov-16	0%	44	14-Jan-17	14-Aug-15	06-Oct-15	-379	0	0%
E13D2040	E13D - Seagull Pier Curing, CJ, Remove Formwork & Falsework	21	16-Jan-17	0%	21	11-Feb-17	07-Oct-15	31-Oct-15	-379	0	0%
E14A, E14B, E14C & E14D (E8d/E7d/E6d/E5d)											
Foundation Works - E14											
GFXX540	Review BCF Foundation Design, Pile Test & Finalize Design	67	19-Jul-16 A	80%	13	05-Nov-16	27-Mar-20	16-Apr-20	1018	1018	80%
GFXX545	Mobilization & Assembling Bored Pile Plant & Equipment for Viaducts in HKI	14	11-Jul-16 A	0%	40	06-Dec-16	06-Nov-14	22-Dec-14	-579	0	100%
Foundation Works - E14A (E8d)											
GFXX549	E14A (E8d) - Bored Piles (2.20m dia. x 3 nos)	102	27-Jul-16 A	65.69%	35	30-Nov-16	27-Nov-15	09-Jan-16	-265	0	85%
GFXX598	E14A (E8d) - Sonic & Interface Coring	12	01-Dec-16	0%	12	14-Dec-16	11-Jan-16	23-Jan-16	-265	0	0%
Foundation Works - E14B (E7d)											
GFXX548	E14B (E7d) - Bored Piles(2.20m dia. x 3 nos)	90	14-Sep-16 A	40%	54	22-Dec-16	14-Nov-15	19-Jan-16	-276	0	40%
GFXX598	E14B (E7d) - Sonic & Interface Coring	12	23-Dec-16	0%	12	09-Jan-17	20-Jan-16	02-Feb-16	-276	0	0%
Foundation Works - E14C (E6d)											
GFXX547	E14C (E6d) - Bored Piles (2.20m dia. x 3 nos)	80	13-Sep-16 A	35%	52	20-Dec-16	21-Aug-15	23-Oct-15	-346	0	35%
GFXX598	E14C (E6d) - Sonic & Interface Coring	12	21-Dec-16	0%	12	06-Jan-17	24-Oct-15	06-Nov-15	-346	0	0%
Foundation Works - E14D (E5d)											
GFXX546	E14D (E5d) - Bored Piles (2.20m dia. x 4 nos)	92	18-Oct-16 A	5%	87	07-Feb-17	22-Aug-15	05-Dec-15	-344	0	5%
Pile Cap Works - E14											
Pile Cap Works - E14A (E8d)											
SE8D0090	E14A (E8d) - Pile cap Excavation / ELS (Open cut)	7	15-Dec-16	0%	7	22-Dec-16	25-Jan-16	01-Feb-16	-265	36	0%
Pile Cap Works - E14B (E7d)											
SE7D0090	E14B (E7d) - Pile cap Excavation / ELS (Open cut)	7	10-Jan-17	0%	7	17-Jan-17	03-Feb-16	13-Feb-16	-276	17	0%
Pile Cap Works - E14C (E6d)											
SE6D0090	E14C (E6d) - Pile cap Excavation / ELS (Open cut)	7	07-Jan-17	0%	7	14-Jan-17	07-Nov-15	14-Nov-15	-346	19	0%
Viaduct F											



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
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Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 8 of 13 Pages)
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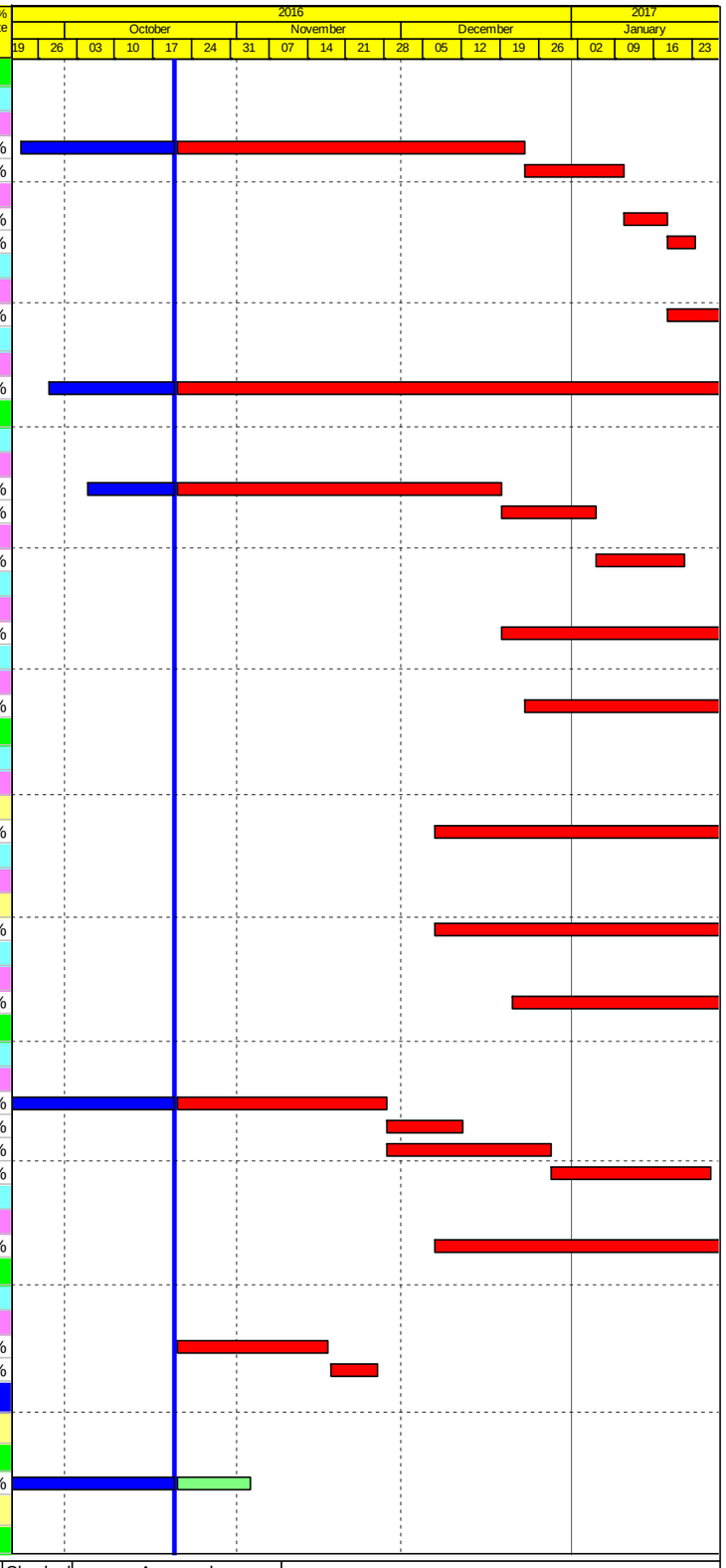
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
Viaduct F1											
F1 (F1b)											
Foundation Works											
GFXX555	F1 (F1b) - Bored Piles (1.80m dia. x 3 nos)	74	23-Sep-16 A	26%	55	23-Dec-16	10-Nov-15	15-Jan-16	-280	0	26%
GFXX598-5	F1 (F1b) - Sonic & interface Coring Tests	12	23-Dec-16	0%	12	10-Jan-17	16-Jan-16	29-Jan-16	-280	0	0%
Pile Cap Works											
SF1B0090	F1 (F1b) - Pile cap Excavation / ELS (Open cut)	7	10-Jan-17	0%	7	18-Jan-17	30-Jan-16	06-Feb-16	-280	0	0%
SF1B0092	F1 (F1b) - Pile Breakdown to cut-off etc.	4	18-Jan-17	0%	4	23-Jan-17	11-Feb-16	15-Feb-16	-280	0	0%
F2 (F1c)											
Foundation Works											
GFXX556	F2 (F1c) - Bored Piles (1.80m dia. x 3 nos)	78	18-Jan-17*	0%	78	26-Apr-17	30-Jul-15	31-Oct-15	-438	0	0%
F3 (F1d)											
Foundation Works											
GFXX557	F3 (F1d) - Bored Piles (1.80m dia. x 3 nos)	128	28-Sep-16 A	0%	146	20-Apr-17	21-Mar-15	16-Sep-15	-469	0	33%
Viaduct F2											
F5 (F2c)											
Foundation Works											
GFXX564	F5 (F2c) - Bored Piles (1.80m dia. x 3 nos)	69	05-Oct-16 A	27%	50	19-Dec-16	19-Dec-15	23-Feb-16	-245	0	27%
GFXX598-9	F5 (F2c) - Sonic & interface Coring Tests	12	19-Dec-16	0%	12	05-Jan-17	30-Aug-16	12-Sep-16	-92	0	0%
Pile Cap Works											
SF2C0090	F5 (F2c) - Pile cap Excavation / ELS (Open cut)	14	05-Jan-17	0%	14	21-Jan-17	13-Sep-16	29-Sep-16	-92	0	0%
F7 (F2e)											
Foundation Works											
GFXX566	F7 (F2e) - Bored Piles (1.80m dia. x 3 nos)	96	19-Dec-16	0%	96	21-Apr-17	24-Feb-16	22-Jun-16	-245	0	0%
F8 (F2f) & Abutment											
Foundation Works											
GFXX567	F8 (F2f) - Bored Piles (1.80m dia. x 2 nos)	112	23-Dec-16	0%	112	17-May-17	11-Mar-16	28-Jul-16	-236	0	0%
Viaduct F3											
F9 (F3d-1/F3d-2)											
Foundation Works - F9 (F3d-1/F3d-2)											
Foundation Works											
GFXX575	F9 (F3d) - Bored Piles (1.80m dia. x 4 nos)	118	07-Dec-16	0%	118	06-May-17	05-Aug-15	23-Dec-15	-400	0	0%
F10 (F3c-1/F3c-2)											
Foundation Works - Pier F10											
Foundation Works											
GFXX574	F10 (F3c) - Bored Piles (1.80m dia. x 4 nos)	92	07-Dec-16	0%	92	30-Mar-17	13-May-15	31-Aug-15	-469	0	0%
F12 (F3a) & Abutment											
Foundation Works											
GFXX572	F12 (F3a) - Bored Piles (2.20m dia. x 2 nos)	68	21-Dec-16	0%	68	16-Mar-17	23-Dec-15	17-Mar-16	-295	0	0%
Viaduct F5											
F13 (F5d)											
Foundation Works											
GFXX589	F13 (F5d) - Bored Piles (1.80m dia. x 3 nos)	97	09-Aug-16 A	67%	32	28-Nov-16	09-Apr-16	19-May-16	-159	0	67%
GFXX598-:	F13 (F5d) - Sonic & interface Coring Tests	12	28-Nov-16	0%	12	12-Dec-16	20-May-16	02-Jun-16	-159	0	0%
GFXX599-:	F13 (F5d) - Selection of bored pile for Full Depth Coring	24	28-Nov-16	0%	24	28-Dec-16	20-May-16	17-Jun-16	-159	0	0%
GFXX599-:	F13 (F5d) - Bored Pile Full Depth Coring & Testing	24	28-Dec-16	0%	24	26-Jan-17	18-Jun-16	16-Jul-16	-159	0	0%
F14 (F5c)											
Foundation Works											
GFXX588	F14 (F5c) - Bored Piles (1.80m dia. x 3 nos)	118	07-Dec-16	0%	118	06-May-17	10-Apr-15	29-Aug-15	-496	0	0%
Approach Ramp F											
Approach Ramp Land Foundation - HKBCF											
Approach Ramp F Piling											
GFXX593	AR-F - Pre-drilling for Piles (25 nos)	24	21-Oct-16	0%	24	17-Nov-16	17-Feb-15	19-Mar-15	-494	0	0%
GFXX594	AR-F - Submit Pre-drilling Records	8	18-Nov-16	0%	8	26-Nov-16	20-Mar-15	28-Mar-15	-494	85	0%
SUPERSTRUCTURE											
Assembling, relocation and dismantle of lifting equipment											
Launching Gantry 2											
FR000099	Assembly of Launching Gantry LG2 on Temp.Loading Platform	12	06-May-15 A	0%	12	03-Nov-16	30-Mar-20	16-Apr-20	1019	1019	0%
Viaduct B Superstructure											
Bridge B3 Superstructure											



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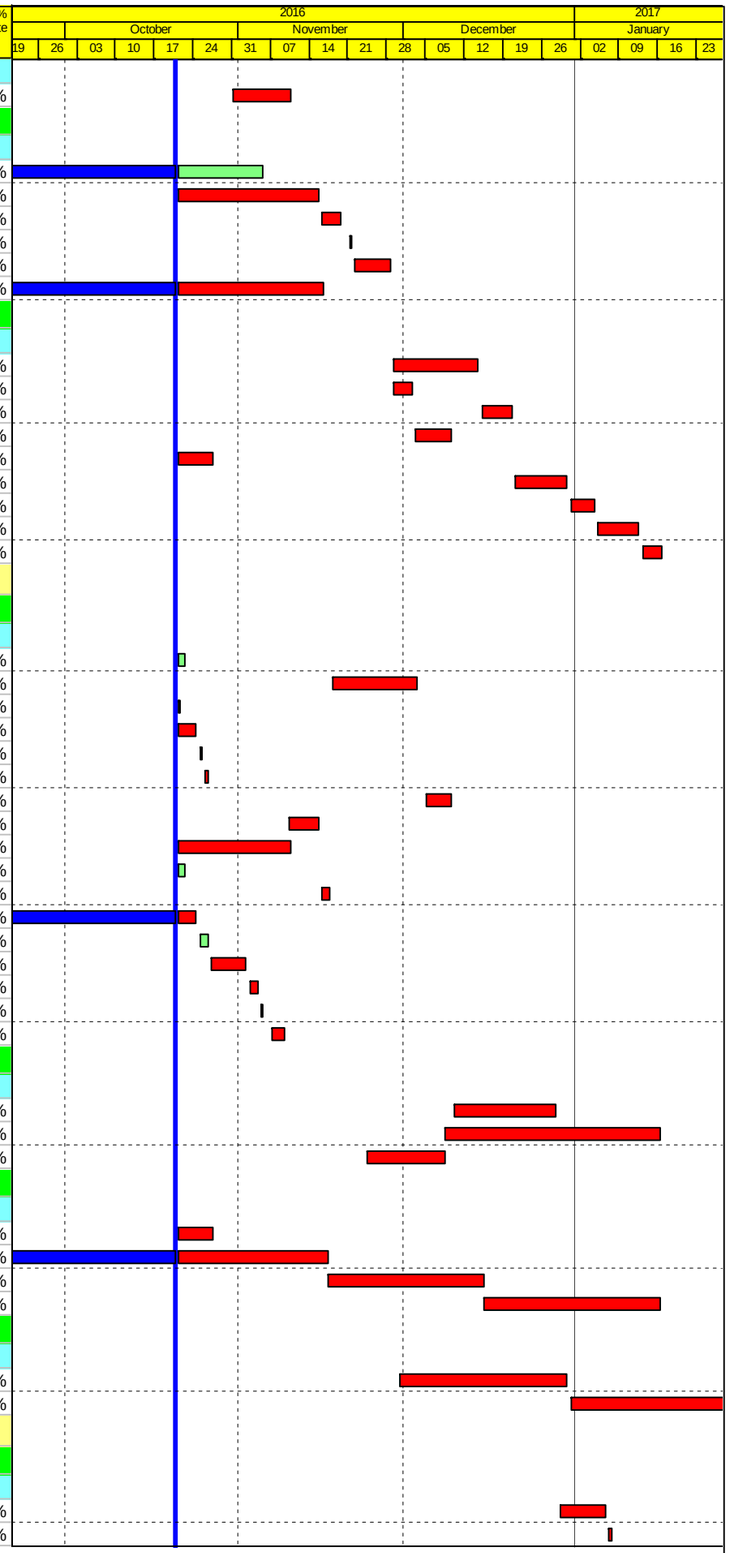
DWG. No.:

J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
Deck installation											
FR000024	Viaduct B3 - End Span at Pier B6 (B3a) (dwn) (7 seg) - Crane	10	31-Oct-16*	0%	10	10-Nov-16	05-Jul-16	15-Jul-16	-98	162	0%
Bridge B2 Superstructure											
Deck installation											
FR000011B	Viaduct B2 - Cantilever at Pier B10 (B2c) (16 seg) - by crane	17	16-Jun-16 A	20%	14	05-Nov-16	27-Mar-20	16-Apr-20	1017	1017	43.8%
FR000011C	Viaduct B2 - Complete stitches and launch to B11	22	21-Oct-16	0%	22	15-Nov-16	22-Apr-16	19-May-16	-149	0	0%
FR000014	Viaduct B2 - Cantilever at Pier B11 (B2b) (16 seg) - LG1 (2 shifts)	4	16-Nov-16	0%	4	19-Nov-16	20-May-16	24-May-16	-149	0	0%
FR000014A	Viaduct B2 - Launching LG1 B11 to B12 - 2 shifts	1	21-Nov-16	0%	1	21-Nov-16	25-May-16	25-May-16	-149	0	0%
FR000015	Viaduct B2 - End Span at Pier B12 (B2a) (6 seg) - LG1 (2 shifts)	6	22-Nov-16	0%	6	28-Nov-16	26-May-16	01-Jun-16	-149	0	0%
FR0000211	Viaduct B2 - Complete B6/B7/B8 stitches & stressing & transport segments	49	13-Jan-16 A	52.58%	23	16-Nov-16	27-Aug-16	23-Sep-16	-44	142	100%
Bridge B1 Superstructure											
Deck installation											
FR000017	Viaduct B1 - End Span at Pier B12 (B2a) (6 seg) - LG1 (2 shifts)	14	29-Nov-16	0%	14	14-Dec-16	01-Aug-16	16-Aug-16	-100	0	0%
FR000017-T	Viaduct B1 - Launching LG1 B12 to B14 & 1st pair - 2 shifts	4	29-Nov-16	0%	4	02-Dec-16	11-Aug-16	15-Aug-16	-91	0	0%
FR000017A	Viaduct B1 - Launching B12 to B15 & 1st pair - 2 shifts	5	15-Dec-16	0%	5	20-Dec-16	17-Aug-16	22-Aug-16	-100	0	0%
FR000018	Viaduct B1 - Cantilever at Pier B14 (B1f) (24 seg) - LG1 (2 shifts)	6	03-Dec-16	0%	6	09-Dec-16	16-Aug-16	22-Aug-16	-91	9	0%
FR000018B	Viaduct B1 - Cantilever at B13 (24 seg) - 2 shifts	6	21-Oct-16	0%	6	27-Oct-16	25-Jul-16	30-Jul-16	-73	27	0%
FR000019	Viaduct B1 - Cantilever at Pier B15 (B1e) (26 seg) - LG1 (2 shifts)	7	21-Dec-16	0%	7	30-Dec-16	23-Aug-16	30-Aug-16	-100	0	0%
FR000019A	Viaduct B1 - Launching B15 to B16 & 1st pair - 2 shifts	3	31-Dec-16	0%	3	04-Jan-17	31-Aug-16	02-Sep-16	-100	0	0%
FR000020	Viaduct B1 - Cantilever at Pier B16 (B1d) (25 seg) - LG1	7	05-Jan-17	0%	7	12-Jan-17	03-Sep-16	10-Sep-16	-100	0	0%
FR000020A	Viaduct B1 - Launching LG1 B16 to B17 - 2 shifts	3	13-Jan-17	0%	3	16-Jan-17	12-Sep-16	14-Sep-16	-100	86	0%
Viaduct C Superstructure											
Bridge C4 Superstructure											
Deck installation											
FR000050A	Viaduct C4 - Relocate ALF 1/2 C2 to C5	2	21-Oct-16	0%	2	22-Oct-16	15-Apr-20	16-Apr-20	1029	1029	0%
FR000051	Viaduct C4 - End Span at Pier C1 (C4e) (7 seg) - LG2 (2 Shifts)	14	18-Nov-16	0%	14	03-Dec-16	15-Dec-15	02-Jan-16	-274	0	0%
FR000051-1	Viaduct C4 - Launching LG2 C1 to C2	1	21-Oct-16	0%	1	21-Oct-16	16-Apr-20	16-Apr-20	1030	1030	0%
FR000051-3	Viaduct C4 - Launching C2 to C5 - 2 shifts	3	21-Oct-16	0%	3	24-Oct-16	17-Nov-15	19-Nov-15	-274	0	0%
FR000051-4	Viaduct C4 - Cantilever at C5 remaining (4 seg)	1	25-Oct-16	0%	1	25-Oct-16	20-Nov-15	20-Nov-15	-274	0	0%
FR000051-5	Viaduct C4 - Launching C5 to C6 - 2 shifts	1	26-Oct-16	0%	1	26-Oct-16	21-Nov-15	21-Nov-15	-274	0	0%
FR000051A	Viaduct C4 - Launching C1 to C6 - 2 shifts	5	05-Dec-16	0%	5	09-Dec-16	04-Jan-16	08-Jan-16	-274	0	0%
FR000052	Viaduct C4 - Cantilever at Pier C3 (C4c) (20 seg) - LG2 (2 shifts)	5	10-Nov-16	0%	5	15-Nov-16	07-Dec-15	11-Dec-15	-274	0	0%
FR000053	Viaduct C4 - Cantilever at Pier C4 (C4b) (18 seg) - THB	18	21-Oct-16	0%	18	10-Nov-16	26-May-16	16-Jun-16	-122	126	0%
FR000053-1	Viaduct C4 - Relocate ALF 1/2 pier D4 to pier C2	2	21-Oct-16	0%	2	22-Oct-16	15-Apr-20	16-Apr-20	1029	1029	0%
FR000053A	Viaduct C4 - Launching C3 to C1 - 2 shifts	2	16-Nov-16	0%	2	17-Nov-16	12-Dec-15	14-Dec-15	-274	0	0%
FR000054	Viaduct C4 - Cantilever at Pier C5 (C4a) (16 seg) - ALF 1/2	16	25-May-16 A	81.25%	3	24-Oct-16	14-Jun-16	16-Jun-16	-107	0	72.7%
FR000054-1	Viaduct C4 - Relocate ALF 1/2 pier C5 to pier D5	2	25-Oct-16	0%	2	26-Oct-16	15-Apr-20	16-Apr-20	1026	1026	0%
FR000057	Viaduct C4 - End Span at Pier C6 (C3f) (7 seg) - LG2 (2 shifts)	6	27-Oct-16	0%	6	02-Nov-16	23-Nov-15	28-Nov-15	-274	0	0%
FR000057A	Viaduct C4 - Launching C6 to C4 - 2 shifts	2	03-Nov-16	0%	2	04-Nov-16	30-Nov-15	01-Dec-15	-274	0	0%
FR000057B	Viaduct C4 - Cantilever at C4 remaining (4 seg) - 2 shifts	1	05-Nov-16	0%	1	05-Nov-16	02-Dec-15	02-Dec-15	-274	0	0%
FR000057C	Viaduct C4 - Launching C4 to C3 & 1st pair - 2 shifts	3	07-Nov-16	0%	3	09-Nov-16	03-Dec-15	05-Dec-15	-274	0	0%
Bridge C3 Superstructure											
Deck installation											
FR000055	Viaduct C3 - End Span at Pier C6 (C3f) (7 seg)- LG2 (2 Shifts)	14	10-Dec-16	0%	14	28-Dec-16	09-Jan-16	25-Jan-16	-274	0	0%
FR000056	Viaduct C3 - Cantilever at Pier C7 (C3e) - MTR Crossing (21 seg) - K Frar	30	08-Dec-16	0%	30	16-Jan-17	07-Dec-15	13-Jan-16	-299	0	0%
FR000103-1	Viaduct C3 - Relocate K Frame from Pier D7 to Pier C7	12	24-Nov-16	0%	12	08-Dec-16	23-Nov-15	05-Dec-15	-299	0	0%
Bridge C2 Superstructure											
Deck installation											
FR000061	Viaduct C2 - End Span at Pier C11 (C3a) (up) (6 seg) - Crane	6	21-Oct-16	0%	6	27-Oct-16	12-Jul-16	18-Jul-16	-84	140	0%
FR000064	Viaduct C2 - Cantilever at Pier C13 (C2e) (17 seg) - Crane	25	20-Aug-16 A	5%	24	17-Nov-16	17-Mar-16	18-Apr-16	-176	0	12.5%
FR000065	Viaduct C2 - Cantilever at Pier C14 (C2d) (16 seg) - Crane	24	17-Nov-16	0%	24	15-Dec-16	19-Apr-16	18-May-16	-176	0	0%
FR000066	Viaduct C2 - Cantilever at Pier C15 (C2c) (16 seg) - Crane	24	15-Dec-16	0%	24	16-Jan-17	19-May-16	16-Jun-16	-176	48	0%
Bridge C1 Superstructure											
Deck installation											
FR000068	Viaduct C1 - Cantilever at Pier C17 (C2a) (24 seg) - Crane	25	30-Nov-16*	0%	25	30-Dec-16	06-Feb-16	09-Mar-16	-241	0	0%
FR000070	Viaduct C1 - Cantilever at Pier C18 (C1e) (26 seg) - Crane	27	31-Dec-16	0%	27	04-Feb-17	10-Mar-16	14-Apr-16	-241	0	0%
Viaduct D Superstructure											
Bridge D3 Superstructure											
Deck installation											
FR000055A	Viaduct D3 - Launching C6 to D4 - 2 shifts	7	29-Dec-16	0%	7	06-Jan-17	26-Jan-16	02-Feb-16	-274	0	0%
FR000055B	Viaduct D3 - Cantilever at D4 remaining (4 seg) - 2 shifts	1	07-Jan-17	0%	1	07-Jan-17	03-Feb-16	03-Feb-16	-274	0	0%



Actual Work
Planned Bar
Critical Bar
Milestone

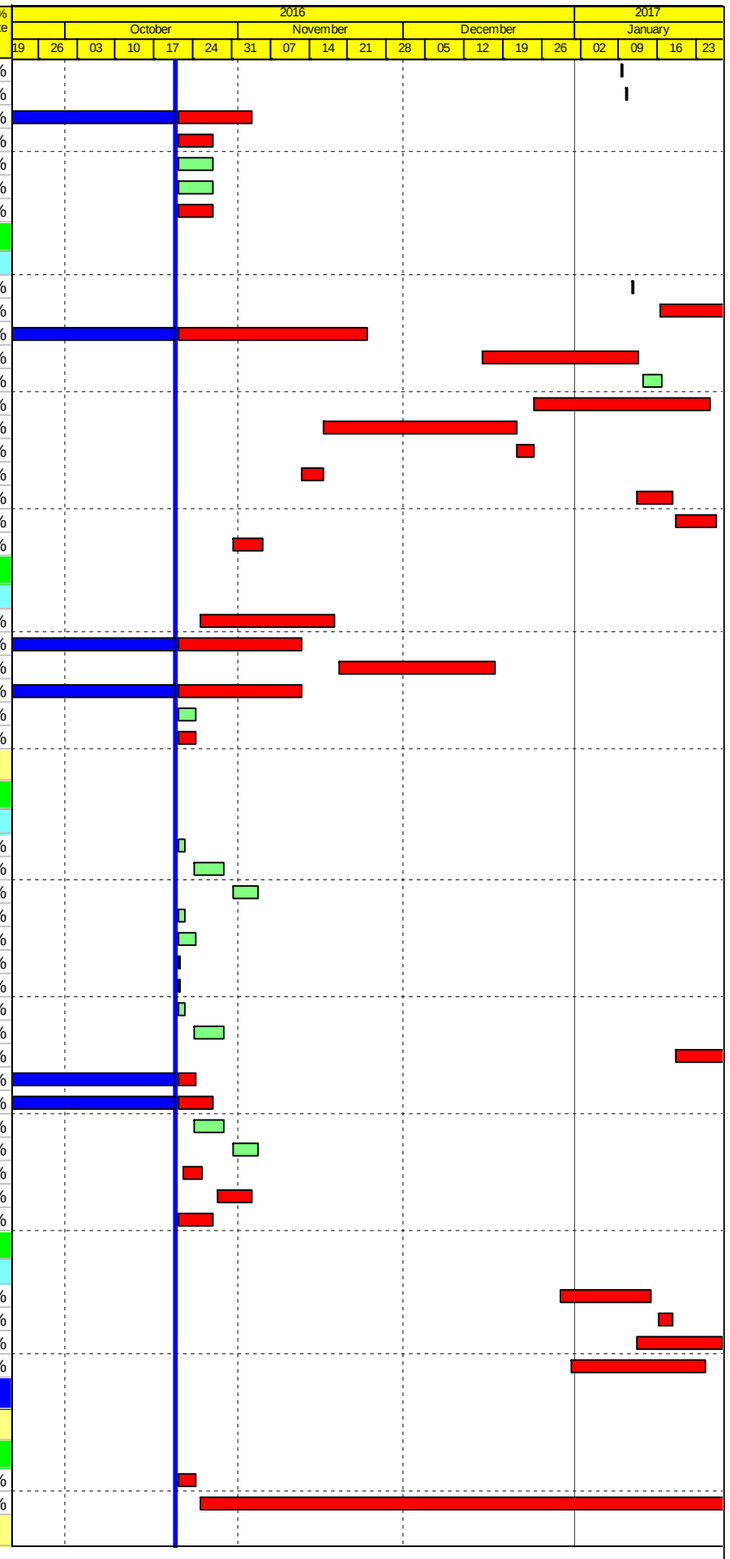
Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 10 of 13 Pages)
(Progress as of 21-Oct-16)

Date	Revision	Checked	Approved
30-Aug-16		PKN	HF
03-Oct-16		PKN	HF
31-Oct-16		PKN	GL

DWG. No.:
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
FR000055C	Viaduct D3 - Launching D4 to D5 - 2 shifts	1	09-Jan-17	0%	1	09-Jan-17	04-Feb-16	04-Feb-16	-274	0	0%
FR000055D	Viaduct D3 - Cantilever at D5 remaining (4 seg) - 2 shifts	1	10-Jan-17	0%	1	10-Jan-17	05-Feb-16	05-Feb-16	-274	0	0%
FR001212	Viaduct D3 - Cantilever at Pier D5 (D4b) (14 seg) - ALF 1/2	15	22-Jun-16 A	20%	12	03-Nov-16	03-Nov-15	16-Nov-15	-286	73	50%
FR100058	Viaduct D3 - Pier D3 (D4d) (2 seg)	6	21-Oct-16	0%	6	27-Oct-16	30-May-16	04-Jun-16	-119	155	0%
FR100059	Viaduct D3 - Pier D4 (D4c) (2 seg)	6	21-Oct-16	0%	6	27-Oct-16	07-Apr-20	16-Apr-20	1025	1025	0%
FR100059-1	Viaduct D3 - Pier D5 (D4b) (2 seg)	6	21-Oct-16	0%	6	27-Oct-16	07-Apr-20	16-Apr-20	1025	1025	0%
FR100070	Viaduct D3 - Pier D2 (D4e) (2 seg)	6	21-Oct-16	0%	6	27-Oct-16	08-Jun-16	15-Jun-16	-111	163	0%
Bridge D2 Superstructure											
Deck installation											
FR000055E	Viaduct D3 - Launching D5 to D6	1	11-Jan-17	0%	1	11-Jan-17	06-Feb-16	06-Feb-16	-274	0	0%
FR000056-1	Viaduct D2 - Relocated K Frame from Pier C7 to Pier C8	12	16-Jan-17	0%	12	02-Feb-17	14-Jan-16	27-Jan-16	-299	0	0%
FR000103	Viaduct D2 - Cantilever at Pier D7 (D3e) (14 seg) - K Frame	33	26-Feb-16 A	10%	30	24-Nov-16	17-Oct-15	21-Nov-15	-299	0	71.4%
FR000108	Viaduct D2 - Cantilever at Pier D10 (D3b) (14 seg) - THB	22	15-Dec-16*	0%	22	12-Jan-17	09-May-16	03-Jun-16	-183	0	0%
FR000108A	Viaduct D2 - Relocate D10 to D14	3	13-Jan-17	0%	3	16-Jan-17	14-Apr-20	16-Apr-20	959	959	0%
FR000109	Viaduct D2 - Cantilever at Pier D11 (D3a) (12 seg) - THB	24	24-Dec-16	0%	24	25-Jan-17	13-Jun-16	11-Jul-16	-164	85	0%
FR000110	Viaduct D2 - Cantilever at Pier D12 (D2e) (18 seg) - THB	30	16-Nov-16	0%	30	21-Dec-16	28-Apr-16	03-Jun-16	-167	0	0%
FR000110-1	Viaduct D2 - Relocate THB from Pier D12 to Pier D11	3	21-Dec-16	0%	3	24-Dec-16	08-Jun-16	11-Jun-16	-164	0	0%
FR000112A	Viaduct D1 - Relocate D14 to D12	3	12-Nov-16	0%	3	16-Nov-16	25-Apr-16	27-Apr-16	-167	0	0%
FR000122	Viaduct D2 - End Span at Pier D6 (D4a) (7 seg) - LG2 (2 shifts)	6	12-Jan-17	0%	6	18-Jan-17	11-Feb-16	17-Feb-16	-274	0	0%
FR000122A	Viaduct D2 - Launching D6 to D8 & 1st pair	7	19-Jan-17	0%	7	26-Jan-17	18-Feb-16	25-Feb-16	-274	0	0%
FR10062	Viaduct D2 - Pier D9 (D3c) (2 seg)	6	31-Oct-16	0%	6	05-Nov-16	30-Mar-16	07-Apr-16	-175	99	0%
Bridge D1 Superstructure											
Deck installation											
FR000073	Viaduct D1 - Cantilever at D16 (4 seg) - Crane	22	25-Oct-16	0%	22	18-Nov-16	28-Apr-16	25-May-16	-147	0	0%
FR000112	Viaduct D1 - Cantilever at Pier D14 (D2c) (12 seg) - THB	22	25-May-16 A	10%	20	12-Nov-16	31-Mar-16	23-Apr-16	-167	0	28.6%
FR000114	Viaduct D1 - Cantilever at Pier D15 (D2b) (14 seg) - Crane	25	19-Nov-16	0%	25	17-Dec-16	26-May-16	24-Jun-16	-147	54	0%
FR000115-1	Viaduct D1 - Cantilever at Pier D16 (D2a) (14 seg) - THB	22	04-Aug-16 A	10%	20	12-Nov-16	01-Jun-16	24-Jun-16	-117	177	28.6%
FR000116-1	Viaduct D1 - Relocate THB from Pier D17 to Pier D18	3	21-Oct-16	0%	3	24-Oct-16	14-Apr-20	16-Apr-20	1028	1028	0%
FR000117-1	Viaduct D1 - Relocate THB from Pier D18 to Pier D16	3	21-Oct-16	0%	3	24-Oct-16	25-Apr-16	27-Apr-16	-147	0	0%
Viaduct E											
Bridge E1 Superstructure											
Deck Installation											
FR000026A	Viaduct E1 - Launching LG2 B1 to E3A - 2 shifts	2	21-Oct-16	0%	2	22-Oct-16	28-Mar-20	30-Mar-20	1018	0	0%
FR000033	Viaduct E1 - End Span at Pier E3-A (E2a4) (5 seg) - LG2 (2 shifts)	6	24-Oct-16	0%	6	29-Oct-16	31-Mar-20	07-Apr-20	1018	0	0%
FR000033-T	Viaduct E1 - Launching LG2 E3A to E1B & 1st pair	5	31-Oct-16	0%	5	04-Nov-16	08-Apr-20	16-Apr-20	1018	1018	0%
FR000035-T	Viaduct E1 - Launching LG2 E3B to D1 - 2 shifts	2	21-Oct-16	0%	2	22-Oct-16	28-Mar-20	30-Mar-20	1018	0	0%
FR000035A	Viaduct E1 - Launching E1B to E2B & 1st pair - 2 shifts	3	21-Oct-16	0%	3	24-Oct-16	14-Apr-20	16-Apr-20	1028	1028	0%
FR000037A	Viaduct E1 - Launching LG2 E2B to E3B - 2 shifts	1	21-Oct-16	0%	1	21-Oct-16	16-Apr-20	16-Apr-20	1030	1030	0%
FR000040A	Viaduct E1 - Launching E2C to E1C - 2 shifts	1	21-Oct-16	0%	1	21-Oct-16	16-Apr-20	16-Apr-20	1030	1030	0%
FR000040C	Viaduct E1 - Launching LG2 E1C to E3C - 2 shifts	2	21-Oct-16	0%	2	22-Oct-16	03-Apr-20	06-Apr-20	1023	0	0%
FR000041	Viaduct E1 - End Span at Pier E3-C (E2a2) (6 seg) - LG2 (2 shifts)	6	24-Oct-16	0%	6	29-Oct-16	07-Apr-20	16-Apr-20	1023	1023	0%
FR000042	Viaduct E1 - Cantilever at Pier E3-D (E2a1) (12 seg) - THB	9	19-Jan-17	0%	9	01-Feb-17	08-Jun-16	18-Jun-16	-185	0	0%
FR000043	Viaduct E1 - Cantilever at Pier E2-D (E1b1) (16 seg) - THB	21	11-Aug-16 A	85.71%	3	24-Oct-16	16-Jun-16	18-Jun-16	-105	117	25%
FR000044	Viaduct E1 - Cantilever at Pier E1-D (E1a1) (13 seg) - THB	12	28-Jul-16 A	50%	6	27-Oct-16	13-Jun-16	18-Jun-16	-108	114	90%
FR000123	Viaduct E1 - End Span at Pier D1 (D4f) (dwn) (7 seg) - LG2 (2 shifts)	6	24-Oct-16	0%	6	29-Oct-16	31-Mar-20	07-Apr-20	1018	0	0%
FR000123A	Viaduct E1 - Launching LG2 D1 to E2C & 1st pair - 2 shifts	5	31-Oct-16	0%	5	04-Nov-16	08-Apr-20	16-Apr-20	1018	1018	0%
FR000128-2	Viaduct E1 - Launching LG2 E3B to E3A - 2 shifts	3	22-Oct-16	0%	3	25-Oct-16	20-Jun-16	22-Jun-16	-103	116	0%
FR000128-3	Viaduct E1 - End Span at Pier E3-C (E2a2) (6 seg) - LG2 (2 shifts)	6	28-Oct-16	0%	6	03-Nov-16	13-Jun-16	18-Jun-16	-114	108	0%
FR000128A	Viaduct E1 - Launching E3A to E3C - 2 shifts	6	21-Oct-16	0%	6	27-Oct-16	04-Jun-16	11-Jun-16	-114	0	0%
Bridge E2 Superstructure											
Deck installation											
FR000131-2	Viaduct E2 - Cantilever at Pier E5-A (E2c2) (14 seg) - THB	14	29-Dec-16	0%	14	14-Jan-17	19-May-16	03-Jun-16	-185	0	0%
FR000131-3	Viaduct E2 - Relocate THB from E5A to E3D	3	16-Jan-17	0%	3	18-Jan-17	04-Jun-16	07-Jun-16	-185	0	0%
FR000131-4	Viaduct E2 - Cantilever at Pier E5-B (E2c1) (14 seg) - THB	14	12-Jan-17	0%	14	27-Jan-17	04-Oct-16	20-Oct-16	-82	218	0%
FR000662	Viaduct E2 - Pier E4A - Assemble / Load Test Lifting Frame WLF 3/4	20	31-Dec-16	0%	20	24-Jan-17	16-Oct-15	09-Nov-15	-359	0	0%
At-Grade Roadworks & Other Works along NLH											
Viaduct B Slope Works											
Slope 10SW-A/F52											
GFXX483	10SW-A/F52 - Mobilization for soldier piling	3	21-Oct-16	0%	3	24-Oct-16	08-Oct-15	10-Oct-15	-307	0	0%
GFXX484	10SW-A/F52 - Installation of Soldier Pile (260nos., 2rigs)	126	25-Oct-16	0%	126	27-Mar-17	12-Oct-15	14-Mar-16	-307	0	0%
Viaduct A Slope Works											



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

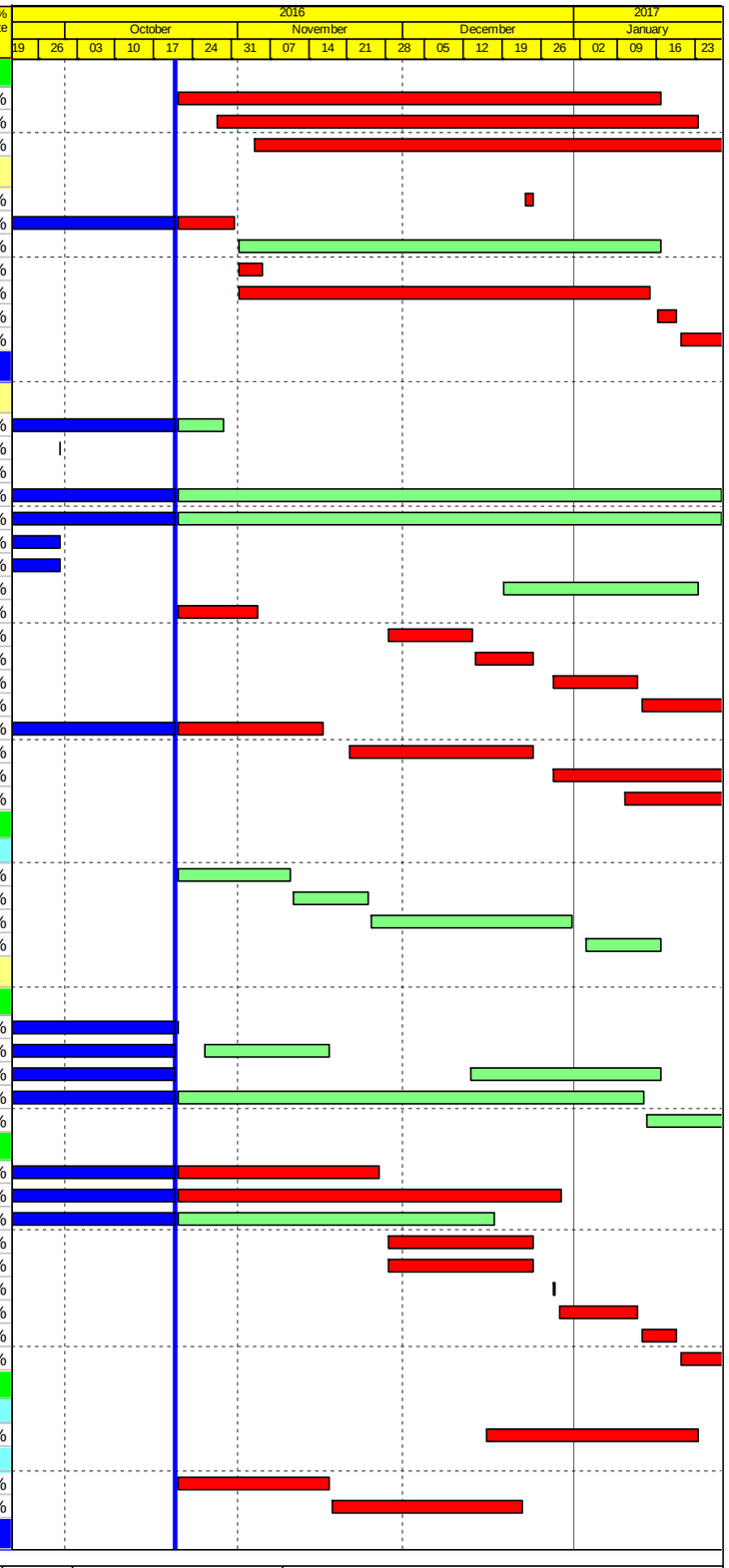
Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 11 of 13 Pages)
(Progress as of 21-Oct-16)

Date	Revision	Checked	Approved
30-Aug-16		PKN	HF
03-Oct-16		PKN	HF
31-Oct-16		PKN	GL

DWG. No.:

J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
Slope 9SE-B/FR8											
GFXX491	9SE-B/FR8 - New wall foundation	72	21-Oct-16	0%	72	16-Jan-17	22-Jun-16	14-Sep-16	-100	0	0%
M110010	9SE-B/FR8 - demolish existing Ret. wall	72	28-Oct-16	0%	72	23-Jan-17	29-Jun-16	22-Sep-16	-100	0	0%
M110020	9SE-B/FR8 - Wall construction	78	04-Nov-16	0%	78	09-Feb-17	07-Jul-16	07-Oct-16	-100	0	0%
At-Grade Roadworks along NLH Eastbound											
RW20011	NLH E/B (Viaduct D) - Implement TTM for tie-in works	2	23-Dec-16	0%	2	24-Dec-16	12-Dec-16	13-Dec-16	-10	51	0%
RW20078	NLH E/B (Gantries 324 - 328) - Construction footing (10am to 5pm)	60	06-Sep-16 A	85%	9	31-Oct-16	16-Mar-16	29-Mar-16	-177	0	100%
RW20079	NLH E/B (Viaduct D) - Ch650 - 175 - Roadwork	63	01-Nov-16	0%	63	16-Jan-17	18-Jan-17	04-Apr-17	64	355	0%
RW20082	NLH E/B (Gantries 324 - 328) - Erect gantries beams and sign faces	5	01-Nov-16	0%	5	05-Nov-16	30-Mar-16	05-Apr-16	-177	44	0%
RW20084	NLH E/B Viaduct A - Ch250 - 370 - Roadwork (SL & HS) & reinstatement c	62	01-Nov-16	0%	62	14-Jan-17	16-May-16	28-Jul-16	-140	0	0%
RW20095	NLH E/B viaduct A - implement TTA for central reserve	4	16-Jan-17	0%	4	19-Jan-17	29-Jul-16	02-Aug-16	-140	0	0%
RW2096	NLH E/B (Gantries 319 - 322) footing	72	20-Jan-17	0%	72	21-Apr-17	03-Aug-16	28-Oct-16	-140	0	0%
At-Grade Roadworks and Other Works along Cheung Tung Road											
Re-alignment of Cheung Tung Road adjacent to Viaduct B											
RP00057	Ch300-650: relocate street lighting pillar box	8	22-Jul-16 A	0%	8	29-Oct-16	03-Apr-20	16-Apr-20	1023	1023	50%
RP00059	Ch300-650: TTA to new CTR	1	30-Sep-16 A	100%	0	30-Sep-16 A					100%
RP00063	Ch620-750: backfilling for roadwork	29	06-May-15 A	100%	0	21-Sep-16 A					100%
RP00064	Ch620-750: telecom, 11KV & 132KV ducting	20	20-Aug-15 A	0%	82	27-Jan-17	04-Jan-20	16-Apr-20	949	949	80%
RP00066	Ch620-750: Towngas(DN250+DN400)	14	01-Feb-16 A	0%	82	27-Jan-17	04-Jan-20	16-Apr-20	949	949	90%
RP00067	Ch620-750: road drainage	18	15-Aug-15 A	100%	0	30-Sep-16 A					100%
RP00070	Ch620-750: roadwork for new CTR	27	05-Sep-16 A	100%	0	30-Sep-16 A					100%
RP00071	Ch620-750: towngas(DN250+DN400) connection	28	19-Dec-16*	0%	28	23-Jan-17	03-Mar-17	04-Apr-17	58	349	0%
RP00073	Ch100-300: trench excavationin on footpath	13	21-Oct-16	0%	13	04-Nov-16	03-May-16	18-May-16	-141	19	0%
RP00075	Ch100-300: duct laying for 11KV	14	28-Nov-16*	0%	14	13-Dec-16	19-May-16	03-Jun-16	-160	0	0%
RP00076	Ch100-300: lay telecom cable	10	14-Dec-16*	0%	10	24-Dec-16	04-Jun-16	16-Jun-16	-160	0	0%
RP00077	Ch100-300: street lighting & draw pit	13	28-Dec-16	0%	13	12-Jan-17	17-Jun-16	02-Jul-16	-160	0	0%
RP00078	Ch100-300: relocation of vent pipe	19	13-Jan-17	0%	19	07-Feb-17	16-Jul-16	06-Aug-16	-149	0	0%
RP00079	Ch100-300: watermain(DN450+DN1000)	142	29-Apr-15 A	84%	23	16-Nov-16	03-May-16	30-May-16	-141	3	84%
RP00080	Ch100-300: towngas(DN250)	30	21-Nov-16*	0%	30	24-Dec-16	31-May-16	06-Jul-16	-144	0	0%
RP00081	Ch100-300: towngas(DN400)	27	28-Dec-16*	0%	27	01-Feb-17	07-Jul-16	06-Aug-16	-144	5	0%
RP00083	Ch100-300: roadwork for new CTR	52	10-Jan-17	0%	52	14-Mar-17	29-Jun-16	29-Aug-16	-160	0	0%
Viaduct B Slope Works											
Slope 9SE-B/F85											
SWVB4020	9SE-B/F85 - Filling & forming slope	18	21-Oct-16	0%	18	10-Nov-16	07-Jan-17	27-Jan-17	64	0	0%
SWVB4030	9SE-B/F85 - Form UC	12	11-Nov-16	0%	12	24-Nov-16	01-Feb-17	14-Feb-17	64	0	0%
SWVB4035	9SE-B/F85 - Install Geo. Instru. & Baseline Monitoring	30	25-Nov-16	0%	30	31-Dec-16	15-Feb-17	21-Mar-17	64	0	0%
SWVB4040	9SE-B/F85 - Hydroseeding	12	03-Jan-17	0%	12	16-Jan-17	22-Mar-17	04-Apr-17	64	643	0%
Re-alignment of Cheung Tung Road adjacent to Viaduct C											
West Portion											
RW61000	Realign CTR (West of Abut. C) - Site Clearance	42	03-Sep-14 A	100%	0	21-Oct-16	06-Jan-17	06-Jan-17	64	0	100%
RW61010	Realign CTR (West of Abut. C) - Road drainage works	60	15-Jan-15 A	66.67%	20	17-Nov-16	12-Jan-17	07-Feb-17	64	0	80%
RW61020	Realign CTR (West of Abut. C) - Utilily diversion	90	24-Mar-15 A	70%	27	16-Jan-17	04-Mar-17	04-Apr-17	64	355	90%
RW61030	Realign CTR (West of Abut. C) - Sub-base work	48	15-Dec-15 A	0%	70	13-Jan-17	22-Oct-16	14-Jan-17	1	0	70%
RW61050	Realign CTR (West of Abut. C) - Street Light Poles & street furniture	18	14-Jan-17	0%	18	07-Feb-17	16-Jan-17	08-Feb-17	1	0	0%
East Portion											
RW60005	Realign CTR (East of Abut. C) - Drainage & Road formation with temporar	66	02-Oct-15 A	51.52%	32	26-Nov-16	07-Oct-16	14-Nov-16	-11	0	70%
RW60010	Realign CTR (East of Abut. C) - GT325 footing + A frame erection	36	27-Apr-16 A	0%	58	29-Dec-16	21-Jan-16	05-Apr-16	-221	0	30%
RW60020	Realign CTR (East of Abut. C) - Utilily + TCSS ducting	70	02-Jan-16 A	28.57%	50	17-Dec-16	14-Feb-20	16-Apr-20	981	981	70%
RW60030	Realign CTR (East of Abut. C) - Drainage and roadwork for permanent tie	24	28-Nov-16	0%	24	24-Dec-16	15-Nov-16	12-Dec-16	-11	0	0%
RW60050	Realign CTR (East of Abut. C) - Street Light Poles & street furniture	24	28-Nov-16	0%	24	24-Dec-16	15-Nov-16	12-Dec-16	-11	0	0%
RW60052	Realign CTR (East of Abut C) - Divert traffic onto new CTR	1	28-Dec-16	0%	1	28-Dec-16	13-Dec-16	13-Dec-16	-11	0	0%
RW60054	Realign CTR (East of Abut C) - 2nd phase drainage	12	29-Dec-16	0%	12	12-Jan-17	14-Dec-16	29-Dec-16	-11	0	0%
RW60056	Realign CTR (East of Abut C) - 2nd phase TCSS duct from GT325	6	13-Jan-17	0%	6	19-Jan-17	30-Dec-16	06-Jan-17	-11	0	0%
RW60058	Realign CTR (East of Abut C) - Roadwork and reinstatement	42	20-Jan-17	0%	42	13-Mar-17	07-Jan-17	28-Feb-17	-11	0	0%
Viaduct C Slope Works											
Slope 10NW-C/F14											
SWVC5000	10NW-C/F14 - Slope works	30	16-Dec-16	0%	30	23-Jan-17	30-Jul-16	02-Sep-16	-116	0	0%
Slope 10NW-C/F15											
SWVC6000	10NW-C/F15 - Slope works	24	21-Oct-16	0%	24	17-Nov-16	03-Sep-16	03-Oct-16	-38	0	0%
SWVC6005	10NW-C/F15 - Install Geo. Instru. & Baseline Monitoring	30	18-Nov-16	0%	30	22-Dec-16	04-Oct-16	08-Nov-16	-38	373	0%
Watermains & All Assoc Works from Tung Chung to Southern Landfall											



Actual Work
Planned Bar
Critical Bar
Milestone

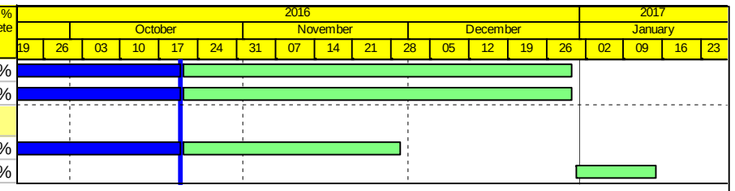
Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC
Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 12 of 13 Pages)
(Progress as of 21-Oct-16)

Date	Revision	Checked	Approved
30-Aug-16		PKN	HF
03-Oct-16		PKN	HF
31-Oct-16		PKN	GL

DWG. No.:
J3518/GCL/PGM/3MRP-M41

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete
WM00120	Lay DN450 Fresh Water Main along re-aligned CTR (app. 500 m at 12m/d	48	22-Apr-15 A	0%	59	30-Dec-16	04-Feb-20	16-Apr-20	972	972	80%
WM00180	Lay DN450 watermain from Tung Chung to realigned CTR (last 400m - 2 v	40	06-Sep-16 A	0%	59	30-Dec-16	13-Mar-17	26-May-17	116	0	10%
Pressure Testing											
TC00010	Pressure Test DN450 Fresh Water Main along re-aligned CTR (app. 520 n	12	18-Sep-15 A	0%	34	29-Nov-16	29-Apr-17	10-Jun-17	153	529	80%
TC00020	Pressure Test DN450 Fresh Water Main from Tung Chung to re-aligned C	12	31-Dec-16	0%	12	14-Jan-17	27-May-17	10-Jun-17	116	492	0%



Actual Work
Planned Bar
Critical Bar
Milestone

Project ID: J3518DWPrG-M41
Layout: J3518-DWP-3MRP Submission - M41
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
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J3518/GCL/PGM/3MRP-M41

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No. CE35/2011 EP Baseline Environmental Monitoring for Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chep Lap Kok Link – Investigation. Updated EM&A Manual for Tuen Mun-Chek Lap Kok Link)

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
AIR QUALITY									
4.8.1	3.8	An effective watering programme of eight daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	All areas / throughout construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		<>
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8. 1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		<>
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8. 1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		✓
NOISE									
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		✓
WATER QUALITY									
General Marine Works									
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM-CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		✓
6.10	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.10	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
Temporary Staging work									
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Y		✓
	5.2	Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea	During temporary staging works	Contractor			Y		<>
	5.2	Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal	During temporary staging works	Contractor			Y		✓
	5.2	One additional water quality monitoring station is	During temporary	Contractor			Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a,	staging works						
Land Works									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	✓
6.10	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓
Water Quality Monitoring									
6.10	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	✓
ECOLOGY									
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	✓
8.14	6.3	Specification for bored piling monitoring	Detailed Design	Design Consultant	TMEIA	Y			n/a
8.14	6.3	Implement any recommendations of the bored piling monitoring	Southern marine viaduct/Throughout	Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
			construction during bored piling						
8.14	6.3,6.5	Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works	Southern marine viaduct/ May and June during bored piling	Contractor	TMEIA		Y		n/a
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600 m^2 in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor	TMEIA	Y		Y	n/a To be enforced by AFCD.
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for marine bored piling and the whole lifespan of temporary staging works.	All areas/ Detailed Design/during marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.15	6.5	Audit coral translocation success	Yam Tsui Wan (receptor site)/Post translocation	Contractor	TMEIA		Y		**Completed in October 2014**
7.13	6.5	Undertaken gabion wall works in Stream NL1 in the dry season	North Lantau slope works/dry	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
			season/construction phase						
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		n/a. To be approved by AFCD/LCSD
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		<>
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		<>
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE AND VISUAL									
10.9	7.6	Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Details of the street furniture will be developed in the detailed design stage (DM4)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1)							
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓ Tree transplanted as Contract Specification
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3).	All areas/detailed design/ during construction/post construction	Design Consultant/	TMEIA	Y	Y		✓
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		<>
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a No felled trees or vegetation suitable for recycle
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10).	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by AFCD/HyD/ L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a To be implemented by HyD/LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by HyD/LCSD
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		(OM4)							HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by HyD
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised	All areas / throughout	Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	construction period						
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			n/a
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction	All areas / throughout construction period	Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		materials should avoid over-ordering and wastage.							
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;	All areas / throughout construction period	Contractor	TMEIA		Y		<>

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		- Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All waste containers shall be in a secure area on hard standing;	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Office wastes can be reduced by recycling of	Site Offices/	Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	throughout construction period						
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓
CULTURAL HERITAGE									
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		n/a

Notes:

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

Status:

✓	Compliance of Mitigation Measures
<>	Compliance of Mitigation but need improvement
x	Non-compliance of Mitigation Measures
▲	Non-compliance of Mitigation Measures but rectified by Contractor
Δ	Deficiency of Mitigation Measures but rectified by Contractor
n/a	Not Applicable in Reporting Period

Appendix D

Summary of Action and Limit Levels

Table D1 Action and Limit Levels for 1-hour and 24-hour TSP

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178	260
1 Hour TSP Level in μg /m³	ASR9A/ASR8A = 394 ASR9C/ASR8/ ASR9 = 393	500

Table D2 Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

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

Table D3 Action and Limit Levels for Water Quality

Parameter	Action Level#	Limit Level#
DO in mg/L [(a)]	Surface and Middle **5.0 mg/L** Bottom **4.7 mg/L**	Surface and Middle **4.2 mg/L** Bottom **3.6 mg/L**
Turbidity in NTU (Depth-averaged [(b), (c)])	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., **27.5 NTU**	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., **47.0 NTU**
SS in mg/L (Depth-averaged [(b), (c)])	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., **23.5 mg/L**	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., **34.4 mg/L**

Notes:

Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

(a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

(b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths

(c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

(d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary

Parameter	Action Level#	Limit Level#
(e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L.		

Table D4 Action and Limit Levels for Impact Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	**NWL**
Action Level	STG < 70% of baseline & ANI < 70% of baseline	STG < 70% of baseline & ANI < 70% of baseline
Limit Level	[STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline	

Notes:

1. STG means quarterly encounter rate of number of dolphin sightings, which is **6.00 in NEL** and **9.85 in NWL** during the baseline monitoring period
2. ANI means quarterly encounter rate of total number of dolphins, which is **22.19 in NEL** and **44.66 in NWL** during the baseline monitoring period
3. For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table D5 Derived Value of Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	**NWL**
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3
Limit Level	[STG < 2.4 & ANI <8.9] and [STG < 3.9 & ANI <17.9]	

Appendix E

Calibration Certificates of Monitoring Equipments

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR8(A)
Calibrated by	:	P.F.Yeung
Date	:	30/09/2016

Sampler

Model	:	TE-5170
Serial Number	:	S/N 3956

Calibration Orifice and Standard Calibration Relationship

Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989

Standard Condition

Pstd (hpa)	:	1013
Tstd (K)	:	298.18

Calibration Condition

Pa (hpa)	:	1000
Ta(K)	:	304

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.4	3.321	1.611	55	54.10
2	13 holes	9.2	2.984	1.450	50	49.19
3	10 holes	6.8	2.565	1.251	43	42.30
4	7 holes	4.4	2.063	1.013	36	35.41
5	5 holes	2.7	1.616	0.800	28	27.55

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.492 Intercept(b): 1.889 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan Date: 04/10/2016

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR9
Calibrated by	:	P.F.Yeung
Date	:	30/09/2016

Sampler

Model	:	TE-5170
Serial Number	:	S/N 3958

Calibration Orifice and Standard Calibration Relationship

Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989

Standard Condition

Pstd (hpa)	:	1013
Tstd (K)	:	298.18

Calibration Condition

Pa (hpa)	:	1006
Ta(K)	:	303

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.8	3.379	1.638	56	55.09
2	13 holes	9.6	3.048	1.481	51	50.17
3	10 holes	7.2	2.640	1.287	45	44.27
4	7 holes	4.6	2.110	1.035	36	35.41
5	5 holes	2.8	1.646	0.814	28	27.54

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):33.438 Intercept(b):0.661 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan Date: 04/10/2016

TISCH Environmental

TISCH ENVIRONMENTAL, INC.
145 SOUTH MIAMI AVE
VILLAGE OF CLEVES, OH
45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 14, 2016 Rootsmeter S/N 0438320 Ta (K) - 295
Operator Tisch Orifice I.D. - 2454 Pa (mm) - 745.49

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4020	3.2	2.00
2	NA	NA	1.00	1.0060	6.4	4.00
3	NA	NA	1.00	0.9010	7.9	5.00
4	NA	NA	1.00	0.8590	8.8	5.50
5	NA	NA	1.00	0.7090	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)
0.9866	0.7037	1.4078
0.9824	0.9765	1.9909
0.9803	1.0880	2.2259
0.9792	1.1399	2.3345
0.9738	1.3735	2.8155

Qstd slope (m) = 2.10326
intercept (b) = -0.06696
coefficient (r) = 0.99989

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Va	(x axis) Qa	(y axis)
0.9957	0.7102	0.8896
0.9914	0.9855	1.2581
0.9893	1.0980	1.4066
0.9882	1.1504	1.4753
0.9828	1.3862	1.7792

Qa slope (m) = 1.31703
intercept (b) = -0.04232
coefficient (r) = 0.99989

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C163248
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1307) Date of Receipt / 收件日期 : 10 June 2016

Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10997142
Supplied By / 委託者	:	Envirotech Services Co. Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 June 2016

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong, Technical Officer

Certified By 核證 : K C Lee, Project Engineer

Date of Issue 簽發日期 : 17 June 2016

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C163248
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C153519
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.985	1 kHz ± 2 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C163758
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1465) Date of Receipt / 收件日期 : 29 June 2016

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-31
Serial No. / 編號 : 00603867
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 11 July 2016

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong, Technical Officer

Certified By 核證 : K C Lee, Project Engineer

Date of Issue 簽發日期 : 12 July 2016

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C163758
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
30 - 120	L_A	A	Fast	94.00	1	93.4	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 120	L_A	A	Fast	94.00	1	93.4 (Ref.)
				104.00		103.4
				114.00		113.4

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
30 - 120	L_A	A	Fast	94.00	1	93.4	Ref.
			Slow			93.4	± 0.3

Certificate of Calibration
校正證書

Certificate No. : C163758
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L_A	A	Fast	94.00	63 Hz	67.1	-26.2 ± 1.5
					125 Hz	77.1	-16.1 ± 1.5
					250 Hz	84.7	-8.6 ± 1.4
					500 Hz	90.1	-3.2 ± 1.4
					1 kHz	93.4	Ref.
					2 kHz	94.7	+1.2 ± 1.6
					4 kHz	94.5	+1.0 ± 1.6
					8 kHz	92.4	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.5	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L_C	C	Fast	94.00	63 Hz	92.5	-0.8 ± 1.5
					125 Hz	93.2	-0.2 ± 1.5
					250 Hz	93.4	0.0 ± 1.4
					500 Hz	93.4	0.0 ± 1.4
					1 kHz	93.4	Ref.
					2 kHz	93.3	-0.2 ± 1.6
					4 kHz	92.7	-0.8 ± 1.6
					8 kHz	90.5	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.6	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 316987

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里 1號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/012 Manufacturer : HACH

Model No. : 2100Q Serial No. : 12060 C 018447

Date of Calibration : 26/09/2016 Due Date : 25/12/2016

Ref. No. of Turbidity Standard used (4000NTU)	005/6.1/001/9

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.0	0.00
100	97.8	-2.20
800	775	-3.13

(*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

Acceptance Criteria

Difference : -5 % to 5 %

The turbidity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Prepared by : _____ Checked by : _____

Internal Calibration & Performance Check of pH Meter

Equipment Ref. No.	:	ET/EW007/007	Manufacturer	:	HANNA
Model No.	:	HI 8314	Serial No.	:	08500489
Date of Calibration	:	03/09/2016	Calibration Due Date	:	02/10/2016

Liquid Junction Error

003/5.2/002/05 (20℃)

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/002/06 (25℃)

Temperature of Solution : 25.0 / 20.0 $\Delta pH_{½}$ = 0.080 / 0.080

pH value of diluted buffer : 6.965 / 6.977 pH (S) = 6.865 / 6.881

ΔpH = pH(S) - pH of diluted buffer = 0.100 / 0.096 (Observed Deviation)

Liquid Junction Error (ΔpH_j) = ΔpH - $\Delta pH_{½}$ = 0.020 / 0.016

Shift on Stirring

pH of buffer solution (with stirring), pH_s = 6.890 / 6.902

Shift on stirring, ΔpH_s= pH_s - pH(S) - ΔpH_j = 0.005 / 0.005

Noise

Noise, ΔpH_n = difference between max and min reading : 0.013 / 0.011

Verification of ATC

Ref. No. of reference thermometer used:	ET/0521/019	
Temperature record from the reference thermometer (T_R):	25.0 / 20.0	°C
Temperature record from the ATC (T_{ATC}):	24.8 / 19.8	°C
Temperature Difference, $\lvert T_R - T_{ATC} \rvert$	0.2 / 0.2	°C
Correction	+0.2 / +0.2	°C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpHj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°C

The pH meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

* Delete as appropriate

Calibrated by: _____ Checked by : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Internal Calibration & Performance Check of pH Meter

Equipment Ref. No.	:	ET/EW007/007	Manufacturer	:	HANNA
Model No.	:	HI 8314	Serial No.	:	08500489
Date of Calibration	:	03/10/2016	Calibration Due Date	:	02/11/2016

Liquid Junction Error

003/5.2/002/05 (20℃)

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/002/06 (25℃)

Temperature of Solution : 25.0 / 20.0 $\Delta pH_{½}$ = 0.080 / 0.080

pH value of diluted buffer : 6.971 / 6.984 pH (S) = 6.865 / 6.881

ΔpH = pH(S) - pH of diluted buffer = 0.106 / 0.103 (Observed Deviation)

Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{½}$ = 0.026 / 0.023

Shift on Stirring

pH of buffer solution (with stirring), pH_s = 6.901 / 6.912

Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j$ = 0.010 / 0.008

Noise

Noise, ΔpH_n = difference between max and min reading : 0.013 / 0.014

Verification of ATC

Ref. No. of reference thermometer used:	ET/0521/019	
Temperature record from the reference thermometer (T_R):	25.0 / 20.0	°C
Temperature record from the ATC (T_{ATC}):	24.8 / 19.8	°C
Temperature Difference, $\lvert T_R - T_{ATC} \rvert$	0.2 / 0.2	°C
Correction	+0.2 / +0.2	°C

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpHj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°C

The pH meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

* Delete as appropriate

Calibrated by: 王 Checked by :

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No.	:	ET/EW/008/005	Manufacturer	:	YSI
Model No.	:	Pro 2030	Serial No.	:	12A 100353
Date of Calibration	:	23/07/2016	Calibration Due Date	:	22/10/2016

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/017

Ref. No. of Water Bath : ---

	Temperature (°C)			
Reference Thermometer reading	Measured	20.0	Corrected	20.1
DO Meter reading	Measured	19.9	Difference	0.2

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/14	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/002/11

	Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	10.20
Final Vol. of $Na_2S_2O_3$ (ml)	10.20	20.40
Vol. of $Na_2S_2O_3$ used (ml)	10.20	10.20
Normality of $Na_2S_2O_3$ solution (N)	0.02451	0.02451
Average Normality (N) of $Na_2S_2O_3$ solution (N)	0.02451	
Acceptance criteria, Deviation	Less than $\pm$ 0.001N	

Calculation: Normality of $Na_2S_2O_3$, N = 0.25 / ml $Na_2S_2O_3$ used

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	10.90	21.80	0.00	6.60	10.10
Final Vol. of $Na_2S_2O_3$ (ml)	10.90	21.80	28.30	6.60	10.10	13.50
Vol. (V) of $Na_2S_2O_3$ used (ml)	10.90	10.90	6.50	6.60	3.50	3.40
Dissolved Oxygen (DO), mg/L	7.17	7.17	4.28	4.34	2.30	2.24
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.28	7.43	7.36	7.17	7.17	7.17	2.62
5	4.13	4.33	4.23	4.28	4.34	4.31	1.87
10	2.34	2.26	2.30	2.30	2.24	2.27	1.31
Linear regression coefficient				0.9984			

Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00

Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/25	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/25

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.00	22.00	31.50
Final Vol. of $Na_2S_2O_3$ (ml)	11.00	22.00	31.50	41.10
Vol. (V) of $Na_2S_2O_3$ used (ml)	11.00	11.00	9.50	9.60
Dissolved Oxygen (**DO**), mg/L	7.24	7.24	6.25	6.32
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.34	7.39	7.37	7.24	7.24	7.24	1.78
30	6.45	6.34	6.4	6.25	6.32	6.29	1.73

Acceptance Criteria

(1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
(2) Linear regression coefficient : >0.99
(3) Zero checking: 0.0mg/L
(4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable # / ~~unacceptable~~ # for use.

Delete as appropriate

Calibrated by : _____ Approved by : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 12A 100353

Date of Calibration : 23/07/2016 Due Date : 22/10/2016

Ref. No. of Salinity Standard used (30ppt)	S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference * (%)
30.0	30.6	2.00

(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria

Difference : -10 % to 10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : _____ Approved by : _____

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No.	:	ET/EW/008/005	Manufacturer	:	YSI
Model No.	:	Pro 2030	Serial No.	:	12A 100353
Date of Calibration	:	22/10/2016	Calibration Due Date	:	21/01/2017

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/017

Ref. No. of Water Bath : ---

	Temperature (°C)			
Reference Thermometer reading	Measured	20.0	Corrected	20.1
DO Meter reading	Measured	19.9	Difference	0.2

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/14	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/002/14

	Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	10.35
Final Vol. of $Na_2S_2O_3$ (ml)	10.35	20.75
Vol. of $Na_2S_2O_3$ used (ml)	10.35	10.40
Normality of $Na_2S_2O_3$ solution (N)	0.02415	0.02404
Average Normality (**N**) of $Na_2S_2O_3$ solution (N)	0.02410	
Acceptance criteria, Deviation	Less than ± 0.001N	

Calculation: Normality of $Na_2S_2O_3$, **N** = 0.25 / ml $Na_2S_2O_3$ used

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.70	23.40	0.00	6.50	10.50
Final Vol. of $Na_2S_2O_3$ (ml)	11.70	23.40	30.00	6.50	10.50	14.60
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	11.70	11.70	6.60	6.50	4.00	4.10
Dissolved Oxygen (**DO**), mg/L	7.57	7.57	4.27	4.21	2.59	2.65
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = **V** x **N** x 8000/298

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.44	7.51	7.48	7.57	7.57	7.57	1.20
5	4.19	4.19	4.19	4.27	4.21	4.24	1.19
10	2.52	2.54	2.53	2.59	2.65	2.62	3.50
Linear regression coefficient				0.9999			

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00

Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/29	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/29

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	10.90	21.90	31.30
Final Vol. of $Na_2S_2O_3$ (ml)	10.90	21.90	31.30	40.80
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	10.90	11.00	9.40	9.50
Dissolved Oxygen (**DO**), mg/L	7.05	7.12	6.08	6.15
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = **V** x **N** x 8000/298

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.11	7.15	7.13	7.05	7.12	7.09	0.56
30	6.08	6.04	6.06	6.08	6.15	6.12	0.99

Acceptance Criteria

(1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
(2) Linear regression coefficient : >0.99
(3) Zero checking: 0.0mg/L
(4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable # / ~~unacceptable~~ # for use.

Delete as appropriate

Calibrated by : _____ Approved by : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Performance Check of Salinity Meter

Equipment Ref. No. :	ET/EW/008/005	Manufacturer :	YSI
Model No. :	Pro 2030	Serial No. :	12A 100353
Date of Calibration :	22/10/2016	Due Date :	21/01/2017

Ref. No. of Salinity Standard used (30ppt)	S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference * (%)
30.0	30.6	2.00

(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria

Difference : -10 % to 10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : _____ Approved by : _____

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration : 02 May 2016

Brand of Test Meter: Global Water

Model: Speed Sensor: WE550 (S/N:E1337005099)

Direction Senor: WE570 (S/N:153500564)

Location : Pak Mong, Siu Ho Wan

Procedures :

1. Wind Still Test: The wind speed sensor was hold by hand until it keep still

2.Wind Speed Test: The wind meter was on-site calibrated against the Anemometer

3.Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

Global Wate (m/s)	Anemomete (m/s)
0.52	0.6
1.68	1.8
2.73	2.9

Wind Direction Test

Global Wate (o)	Marine Compass (o)
270.89	270
0.05	0
90.82	90
179.65	180

Calibrated by: Yeung Ping Fai (Technical Officer)

Checked by : Ho Kam Fat (Senior Technical Officer)

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C160461
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-0158) Date of Receipt / 收件日期 : 19 January 2016

Description / 儀器名稱 : Anemometer
Manufacturer / 製造商 : Lutron
Model No. / 型號 : AM-4201
Serial No. / 編號 : AF.27513
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 27 January 2016

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- Testo Industrial Services GmbH, Germany

Tested By 測試 : M T Leung
Assistant Technical Officer

Certified By 核證 : H C Chan
Engineer

Date of Issue 簽發日期 : 27 January 2016

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C160461
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 10 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL386	Multi-function Measuring Instrument	S12109

4. Test procedure : MA130N.

5. Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.1	3.9	+0.2	0.3	2.0
6.0	5.9	+0.1	0.3	2.0
8.0	8.0	0.0	0.3	2.0
10.0	10.2	-0.2	0.4	2.0

Remarks : - The Measured Corrections are defined as :
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note :
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Appendix F

EM&A Monitoring Schedules

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Noise Monitoring Schedule (1 to 31 October 2016)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
			Noise Impact Monitoring			
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
		Noise Impact Monitoring				
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
	Noise Impact Monitoring					
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
			Noise Impact Monitoring			
30-Oct	31-Oct					

Note: Noise Monitoring on 20 October 2016 was postponed to 26 October 2016 due to adverse weather conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Air Quality Monitoring Schedule (1 to 31 October 2016)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
			1-hr TSP Monitoring 24-hr TSP Monitoring			
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
		1-hr TSP Monitoring 24-hr TSP Monitoring				
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
	1-hr TSP Monitoring 24-hr TSP Monitoring					
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
			1-hr TSP Monitoring 24-hr TSP Monitoring			
30-Oct	31-Oct					

Note: Air Quality Monitoring on 20 October 2016 was postponed to 26 October 2016 due to adverse weather conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Noise Monitoring Schedule (1 to 30 November 2016)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Nov	02-Nov	03-Nov	04-Nov	05-Nov
		Noise Impact Monitoring				
06-Nov	07-Nov	08-Nov	09-Nov	10-Nov	11-Nov	12-Nov
	Noise Impact Monitoring			Noise Impact Monitoring		
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
			Noise Impact Monitoring			
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
		Noise Impact Monitoring				
27-Nov	28-Nov	29-Nov	30-Nov			
	Noise Impact Monitoring					

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Air Quality Monitoring Schedule (1 to 30 November 2016)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Nov	02-Nov	03-Nov	04-Nov	05-Nov
		1-hr TSP Monitoring 24-hr TSP Monitoring				
06-Nov	07-Nov	08-Nov	09-Nov	10-Nov	11-Nov	12-Nov
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
			1-hr TSP Monitoring 24-hr TSP Monitoring			
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
		1-hr TSP Monitoring 24-hr TSP Monitoring				
27-Nov	28-Nov	29-Nov	30-Nov			
	1-hr TSP Monitoring 24-hr TSP Monitoring					

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (October 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Oct
						WQM Mid-Ebb 13:16 (11:31 - 15:01) Mid-Flood 19:20 (17:35 - 21:05)
02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct
		WQM Mid-Flood 8:52 (07:07 - 10:37) Mid-Ebb 14:49 (13:04 - 16:34)		**WQM** Mid-Flood 10:17 (08:32 - 12:02) Mid-Ebb 15:58 (14:13 - 17:43)		**WQM** Mid-Flood 12:41 (10:56 - 14:26) Mid-Ebb 17:44 (16:20 - 19:00)
09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
		WQM Mid-Ebb 8:32 (06:47 - 10:17) Mid-Flood 16:18 (14:33 - 18:03)		**WQM** Mid-Ebb 10:31 (08:46 - 12:16) Mid-Flood 17:25 (15:40 - 19:10)		**WQM** Mid-Ebb 12:04 (10:19 - 13:49) Mid-Flood 18:23 (16:38 - 20:08)
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
				WQM Mid-Flood 10:31 (08:46 - 12:16) Mid-Ebb 16:02 (14:17 - 17:47)		**WQM** Mid-Flood 12:51 (11:06 - 14:36) Mid-Ebb 18:05 (16:30 - 19:40)
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
		WQM Mid-Ebb 9:11 (07:26 - 10:56) Mid-Flood 16:26 (14:41 - 18:11)		**WQM** Mid-Ebb 10:58 (09:13 - 12:43) Mid-Flood 17:25 (15:40 - 19:10)		**WQM** Mid-Ebb 12:16 (10:31 - 14:01) Mid-Flood 18:12 (16:27 - 19:57)
30-Oct	31-Oct					

Remark: WQM scheduled on 18 October 2016 was canceled due to adverse weather conditions.

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Marine Water Quality Monitoring (WQM) Schedule (November 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Nov	02-Nov	03-Nov	04-Nov	05-Nov
		WQM Mid-Flood 8:11 (06:26 - 09:56) Mid-Ebb 13:55 (12:10 - 15:40)		**WQM** Mid-Flood 9:27 (07:42 - 11:12) Mid-Ebb 15:02 (13:17 - 16:47)		**WQM** Mid-Flood 11:06 (09:21 - 12:51) Mid-Ebb 16:23 (14:38 - 18:08)
06-Nov	07-Nov	08-Nov	09-Nov	10-Nov	11-Nov	12-Nov
		WQM Mid-Flood 14:43 (12:58 - 16:28) Mid-Ebb 20:43 (16:58 - 22:28)		**WQM** Mid-Ebb 8:50 (07:05 - 10:35) Mid-Flood 16:03 (14:18 - 17:48)		**WQM** Mid-Ebb 10:48 (09:03 - 12:33) Mid-Flood 17:08 (15:23 - 18:53)
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
		WQM Mid-Ebb 13:20 (11:35 - 15:05) Mid-Flood 18:54 (17:09 - 20:39)		**WQM** Mid-Flood 9:31 (07:46 - 11:16) Mid-Ebb 15:00 (13:45 - 16:45)		**WQM** Mid-Flood 11:25 (09:40 - 13:10) Mid-Ebb 16:41 (14:56 - 18:26)
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
		WQM Mid-Flood 14:55 (13:10 - 16:40) Mid-Ebb 21:09 (19:24 - 22:54)		**WQM** Mid-Ebb 9:31 (07:46 - 11:16) Mid-Flood 16:08 (14:23 - 17:53)		**WQM** Mid-Ebb 11:09 (09:24 - 12:54) Mid-Flood 17:04 (15:19 - 18:49)
27-Nov	28-Nov	29-Nov	30-Nov			
		WQM Mid-Ebb 13:02 (11:17 - 14:47) Mid-Flood 18:22 (16:37 - 20:07)				

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Dolphin Monitoring Survey Schedule (1 to 31 October 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
		Impact Dolphin Monitoring			Impact Dolphin Monitoring	
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
		Impact Dolphin Monitoring		Impact Dolphin Monitoring		
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
30-Oct	31-Oct					

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Dolphin Monitoring Survey Schedule (1 to 30 November 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
			Impact Dolphin Monitoring			
6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov
		Impact Dolphin Monitoring				
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
		Impact Dolphin Monitoring				
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
		Impact Dolphin Monitoring				
27-Nov	28-Nov	29-Nov	30-Nov			

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

Impact Air Quality Monitoring Results and Graphical Presentation

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	5/10/2016	ASR8A	9:08	1-hr TSP	43	394	500
TMCLKL	HY/2012/07	5/10/2016	ASR8A	10:10	1-hr TSP	45		
TMCLKL	HY/2012/07	5/10/2016	ASR8A	11:12	1-hr TSP	62		
TMCLKL	HY/2012/07	11/10/2016	ASR8A	9:00	1-hr TSP	107		
TMCLKL	HY/2012/07	11/10/2016	ASR8A	10:02	1-hr TSP	80		
TMCLKL	HY/2012/07	11/10/2016	ASR8A	11:04	1-hr TSP	79		
TMCLKL	HY/2012/07	17/10/2016	ASR8A	8:50	1-hr TSP	100		
TMCLKL	HY/2012/07	17/10/2016	ASR8A	9:52	1-hr TSP	77		
TMCLKL	HY/2012/07	17/10/2016	ASR8A	10:54	1-hr TSP	69		
TMCLKL	HY/2012/07	26/10/2016	ASR8A	8:41	1-hr TSP	65		
TMCLKL	HY/2012/07	26/10/2016	ASR8A	9:43	1-hr TSP	104		
TMCLKL	HY/2012/07	26/10/2016	ASR8A	10:45	1-hr TSP	95		
					Average	77		
					Min.	43		
					Max.	107		

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

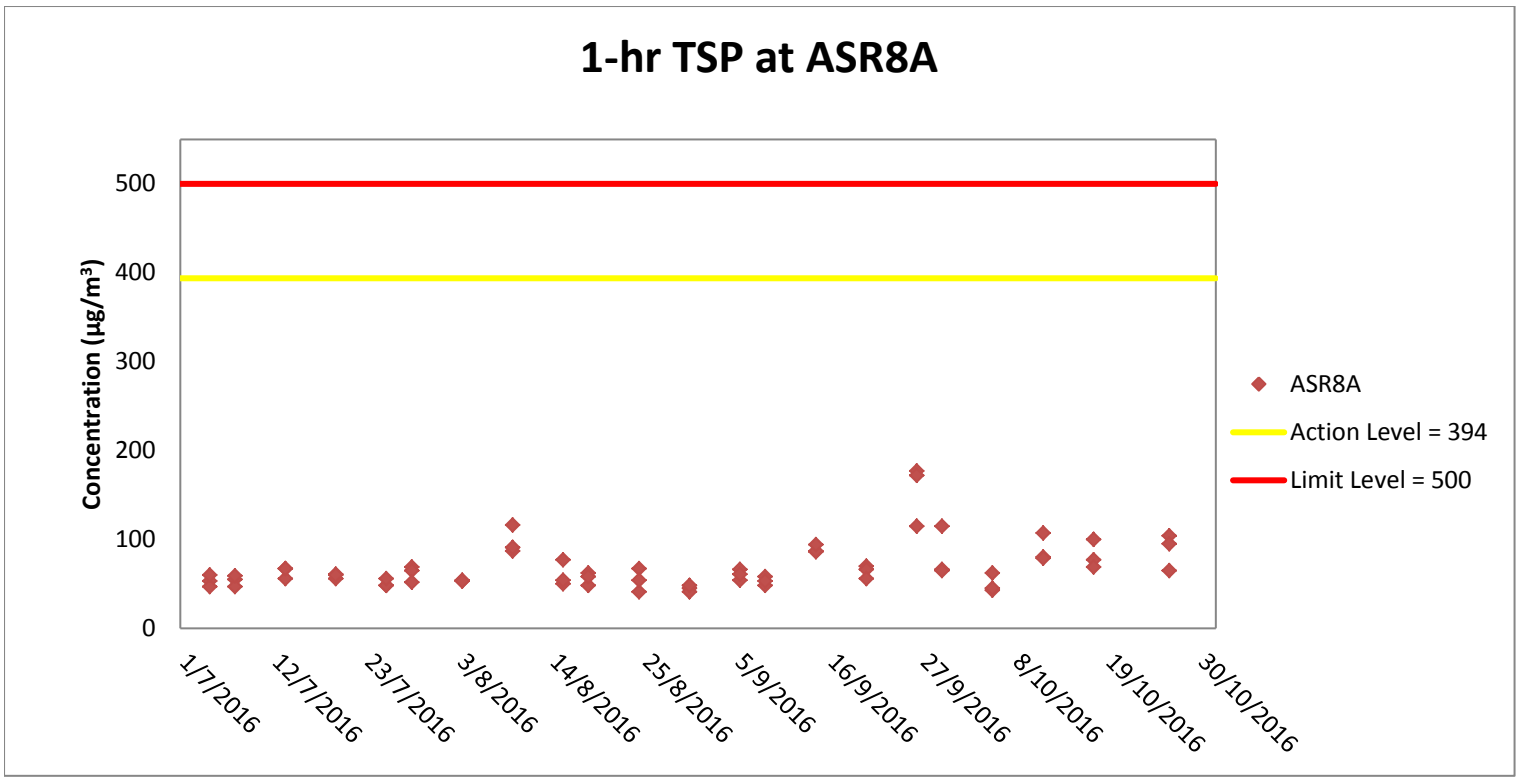
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	5/10/2016	ASR9	9:19	1-hr TSP	91	393	500
TMCLKL	HY/2012/07	5/10/2016	ASR9	10:21	1-hr TSP	55		
TMCLKL	HY/2012/07	5/10/2016	ASR9	11:23	1-hr TSP	90		
TMCLKL	HY/2012/07	11/10/2016	ASR9	9:11	1-hr TSP	59		
TMCLKL	HY/2012/07	11/10/2016	ASR9	10:13	1-hr TSP	70		
TMCLKL	HY/2012/07	11/10/2016	ASR9	11:15	1-hr TSP	86		
TMCLKL	HY/2012/07	17/10/2016	ASR9	9:00	1-hr TSP	103		
TMCLKL	HY/2012/07	17/10/2016	ASR9	10:02	1-hr TSP	122		
TMCLKL	HY/2012/07	17/10/2016	ASR9	11:04	1-hr TSP	99		
TMCLKL	HY/2012/07	26/10/2016	ASR9	8:52	1-hr TSP	54		
TMCLKL	HY/2012/07	26/10/2016	ASR9	9:54	1-hr TSP	67		
TMCLKL	HY/2012/07	26/10/2016	ASR9	10:56	1-hr TSP	90		
					Average	82		
					Min.	54		
					Max.	122		

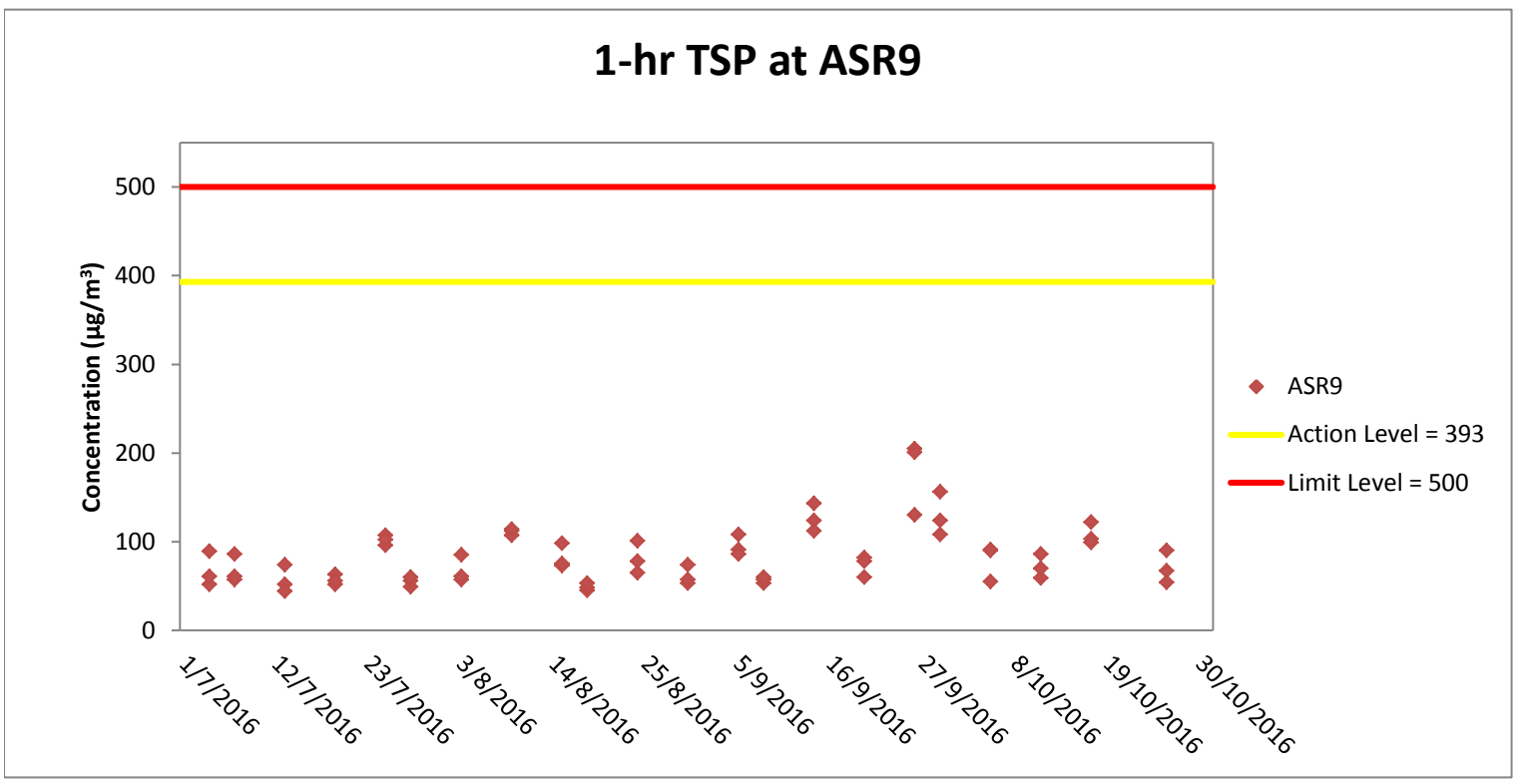
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	5/10/2016	ASR8A	12:14	24-hr TSP	43	178	260
TMCLKL	HY/2012/07	11/10/2016	ASR8A	12:06	24-hr TSP	50		
TMCLKL	HY/2012/07	17/10/2016	ASR8A	11:56	24-hr TSP	52		
TMCLKL	HY/2012/07	26/10/2016	ASR8A	10:47	24-hr TSP	52		
					Average	49		
					Min.	43		
					Max.	52		

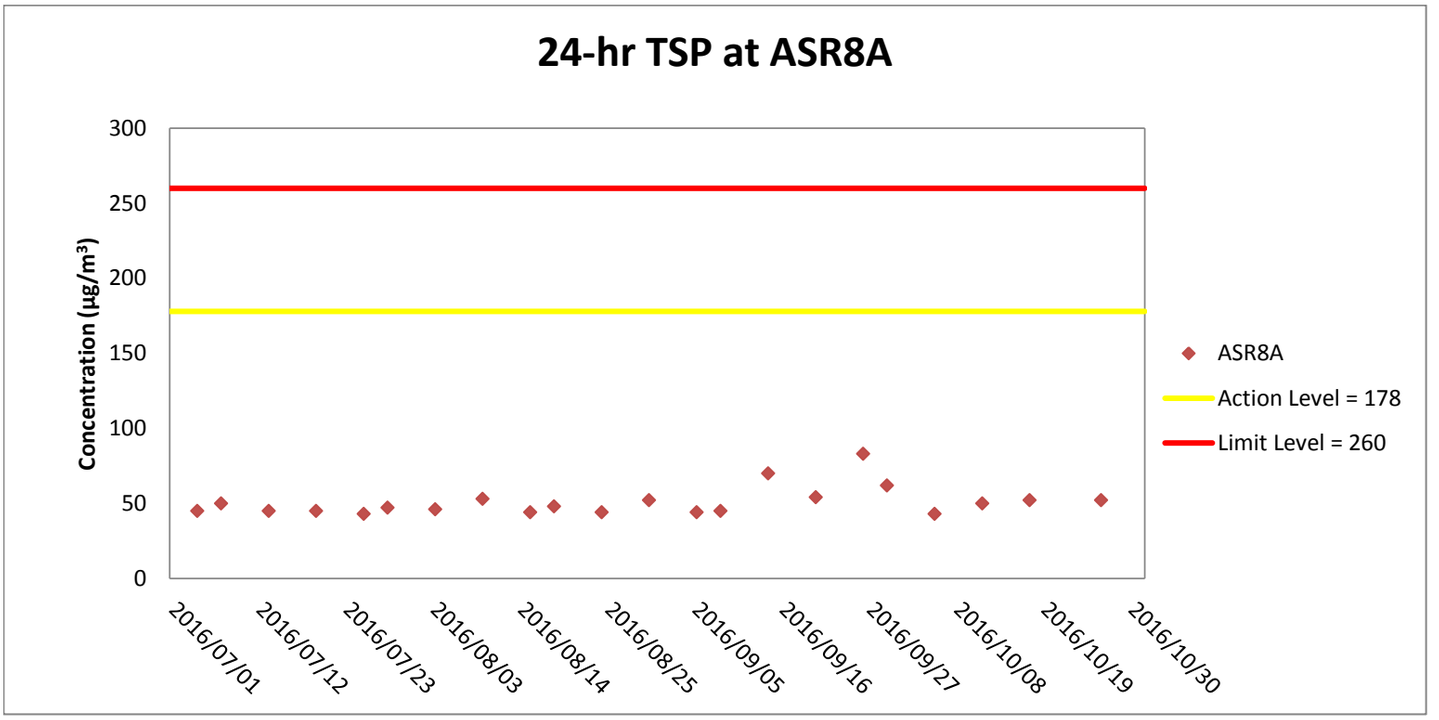
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

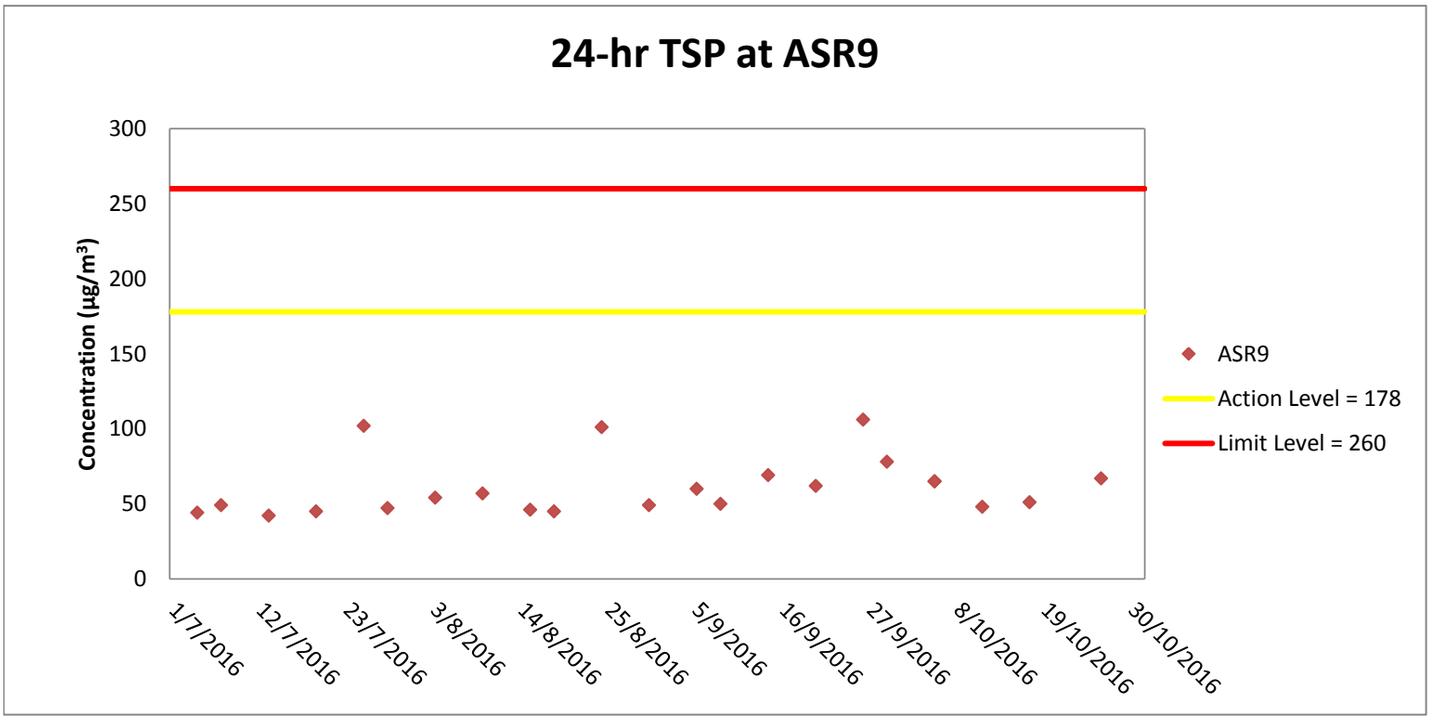
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	5/10/2016	ASR9	12:25	24-hr TSP	65	178	260
TMCLKL	HY/2012/07	5/10/2016	ASR9	12:25	24-hr TSP	65		
TMCLKL	HY/2012/07	11/10/2016	ASR9	12:17	24-hr TSP	48		
TMCLKL	HY/2012/07	17/10/2016	ASR9	12:06	24-hr TSP	51		
TMCLKL	HY/2012/07	26/10/2016	ASR9	11:58	24-hr TSP	67		
					Average	59		
					Min.	48		
					Max.	67		





Weather condition within the reporting period varied between sunny to rainy.
Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Road works along North Lantau Highway;; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.
Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





Weather condition within the reporting period varied between sunny to rainy.
Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Road works along North Lantau Highway;; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.
Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Appendix H

Meteorological Data for the Reporting Month

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016/10/5	0	0.7	148
2016/10/5	1	0.3	149
2016/10/5	2	0.0	166
2016/10/5	3	0.0	165
2016/10/5	4	0.0	162
2016/10/5	5	0.0	175
2016/10/5	6	0.0	174
2016/10/5	7	0.0	174
2016/10/5	8	0.0	90
2016/10/5	9	0.0	135
2016/10/5	10	0.0	134
2016/10/5	11	0.0	284
2016/10/5	12	0.0	296
2016/10/5	13	0.1	283
2016/10/5	14	0.4	247
2016/10/5	15	0.5	144
2016/10/5	16	0.9	169
2016/10/5	17	0.4	118
2016/10/5	18	0.1	110
2016/10/5	19	0.0	112
2016/10/5	20	0.1	158
2016/10/5	21	0.0	135
2016/10/5	22	0.1	168
2016/10/5	23	0.1	166
2016/10/6	0	0.1	126
2016/10/6	1	0.1	161
2016/10/6	2	0.1	169
2016/10/6	3	0.0	173
2016/10/6	4	0.0	162
2016/10/6	5	0.0	83
2016/10/6	6	0.0	123
2016/10/6	7	0.0	96
2016/10/6	8	0.0	174
2016/10/6	9	0.0	244
2016/10/6	10	0.1	246
2016/10/6	11	0.0	222
2016/10/6	12	0.0	255
2016/10/6	13	0.0	232
2016/10/6	14	0.1	214
2016/10/6	15	0.1	205
2016/10/6	16	0.0	200
2016/10/6	17	0.0	189
2016/10/6	18	0.2	153
2016/10/6	19	0.4	138
2016/10/6	20	0.3	163
2016/10/6	21	0.6	160
2016/10/6	22	2.1	159
2016/10/6	23	2.0	159
2016/10/11	0	0.5	297
2016/10/11	1	0.2	299

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016/10/11	2	0.2	296
2016/10/11	3	0.1	248
2016/10/11	4	0.0	280
2016/10/11	5	0.0	309
2016/10/11	6	0.1	295
2016/10/11	7	0.1	257
2016/10/11	8	0.0	267
2016/10/11	9	0.0	82
2016/10/11	10	0.0	70
2016/10/11	11	0.0	290
2016/10/11	12	0.0	294
2016/10/11	13	0.0	285
2016/10/11	14	0.0	311
2016/10/11	15	0.0	300
2016/10/11	16	0.1	303
2016/10/11	17	0.1	299
2016/10/11	18	0.0	276
2016/10/11	19	0.0	205
2016/10/11	20	0.0	239
2016/10/11	21	0.0	271
2016/10/11	22	0.0	252
2016/10/11	23	0.1	259
2016/10/12	0	0.0	141
2016/10/12	1	0.0	50
2016/10/12	2	0.0	215
2016/10/12	3	0.1	136
2016/10/12	4	0.0	145
2016/10/12	5	0.0	67
2016/10/12	6	0.0	23
2016/10/12	7	0.1	80
2016/10/12	8	0.0	60
2016/10/12	9	0.0	86
2016/10/12	10	0.0	105
2016/10/12	11	0.0	113
2016/10/12	12	0.0	123
2016/10/12	13	0.1	147
2016/10/12	14	0.1	132
2016/10/12	15	0.0	143
2016/10/12	16	0.0	150
2016/10/12	17	0.0	116
2016/10/12	18	0.1	138
2016/10/12	19	0.1	186
2016/10/12	20	0.0	138
2016/10/12	21	0.1	119
2016/10/12	22	0.1	119
2016/10/12	23	0.1	140
2016/10/17	0	0.0	153
2016/10/17	1	0.0	252
2016/10/17	2	0.1	252
2016/10/17	3	0.0	155

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016/10/17	4	0.0	97
2016/10/17	5	0.0	160
2016/10/17	6	0.0	157
2016/10/17	7	0.0	179
2016/10/17	8	0.1	209
2016/10/17	9	0.1	255
2016/10/17	10	0.2	196
2016/10/17	11	0.3	85
2016/10/17	12	0.1	85
2016/10/17	13	0.1	96
2016/10/17	14	0.2	80
2016/10/17	15	0.1	70
2016/10/17	16	0.4	68
2016/10/17	17	0.2	96
2016/10/17	18	0.1	92
2016/10/17	19	0.2	90
2016/10/17	20	0.3	79
2016/10/17	21	0.3	114
2016/10/17	22	0.7	85
2016/10/17	23	0.3	81
2016/10/18	0	0.3	141
2016/10/18	1	0.4	105
2016/10/18	2	0.2	129
2016/10/18	3	0.4	112
2016/10/18	4	0.1	113
2016/10/18	5	0.2	134
2016/10/18	6	0.3	107
2016/10/18	7	0.2	209
2016/10/18	8	0.1	149
2016/10/18	9	0.3	157
2016/10/18	10	0.3	201
2016/10/18	11	0.2	138
2016/10/18	12	1.0	132
2016/10/18	13	0.3	169
2016/10/18	14	0.2	59
2016/10/18	15	0.6	84
2016/10/18	16	0.6	52
2016/10/18	17	0.7	93
2016/10/18	18	0.8	84
2016/10/18	19	0.9	109
2016/10/18	20	0.5	97
2016/10/18	21	0.9	108
2016/10/18	22	0.6	56
2016/10/18	23	0.3	113
2016/10/26	0	0.0	293
2016/10/26	1	0.0	293
2016/10/26	2	0.0	293
2016/10/26	3	0.0	293
2016/10/26	4	0.0	293
2016/10/26	5	0.0	293

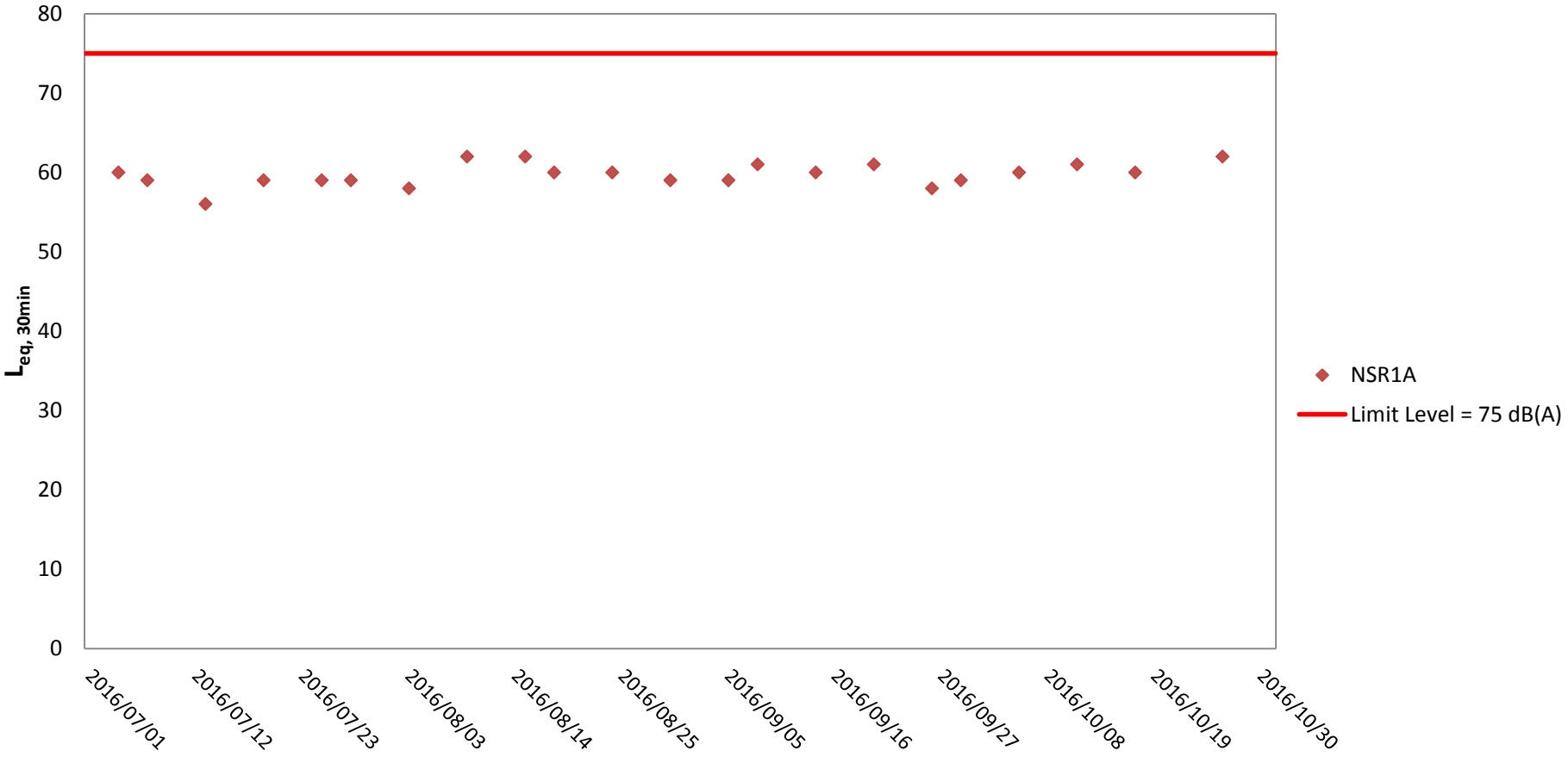
Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016/10/26	6	0.0	294
2016/10/26	7	0.0	293
2016/10/26	8	0.0	280
2016/10/26	9	0.0	279
2016/10/26	10	0.6	211
2016/10/26	11	1.7	187
2016/10/26	12	0.6	142
2016/10/26	13	1.9	190
2016/10/26	14	2.8	191
2016/10/26	15	2.8	183
2016/10/26	16	1.6	194
2016/10/26	17	1.0	153
2016/10/26	18	0.2	94
2016/10/26	19	0.7	152
2016/10/26	20	1.2	154
2016/10/26	21	1.1	172
2016/10/26	22	0.9	144
2016/10/26	23	0.5	98
2016/10/27	0	0.8	103
2016/10/27	1	0.2	107
2016/10/27	2	0.0	183
2016/10/27	3	0.1	193
2016/10/27	4	0.0	169
2016/10/27	5	0.0	172
2016/10/27	6	0.0	170
2016/10/27	7	0.0	150
2016/10/27	8	0.0	114
2016/10/27	9	0.5	173
2016/10/27	10	0.1	216
2016/10/27	11	1.4	176
2016/10/27	12	0.1	273
2016/10/27	13	0.1	281
2016/10/27	14	0.1	151
2016/10/27	15	0.3	209
2016/10/27	16	1.6	182
2016/10/27	17	1.3	168
2016/10/27	18	2.4	165
2016/10/27	19	2.5	152
2016/10/27	20	2.1	148
2016/10/27	21	1.7	158
2016/10/27	22	0.6	155
2016/10/27	23	0.2	109

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
						Leq	L10	L90				
TMCLKL	HY/2012/07	2016/10/05	NSR1A	Cloudy	10:31	60	62	55	75	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2016/10/11	NSR1A	Cloudy	10:24	61	63	56	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2016/10/17	NSR1A	Sunny	10:12	60	61	54	75	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2016/10/26	NSR1A	Cloudy	10:04	62	64	57	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
					Min.	60						
					Max.	62						
					Average	61						

Noise Monitoring Results at NSR 1A ($L_{eq, 30min}$)



Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Surface	1	1	26.1	7.83	25.6	6.68	8.3	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Surface	1	2	26.2	7.88	25.7	6.64	8.24	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Middle	2	1	26.1	8.09	25.8	6.57	8.43	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Middle	2	2	26.1	8.03	25.8	6.54	8.49	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Bottom	3	1	26	7.82	26	6.41	8.67	11.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)5	17:35	Bottom	3	2	25.9	7.78	26.1	6.37	8.73	11.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Surface	1	1	26.1	8.04	25.8	6.59	8.04	10.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Surface	1	2	26	8.08	25.9	6.54	8.13	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Bottom	3	1	26	8.01	25.9	6.48	8.34	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4a	18:02	Bottom	3	2	26	7.97	26	6.45	8.27	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Surface	1	1	26	7.89	25.6	6.59	7.73	10.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Surface	1	2	26.1	7.91	25.7	6.61	7.81	10.4
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Bottom	3	1	26.1	7.94	25.8	6.47	7.94	10.6
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	SR4	18:18	Bottom	3	2	26.1	8	25.7	6.44	8.03	10.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Surface	1	1	26.1	7.78	25.6	6.69	8.04	10.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Surface	1	2	26.1	7.8	25.6	6.71	8.11	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Bottom	3	1	26.1	7.83	25.7	6.58	8.29	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS8	18:32	Bottom	3	2	26.1	7.81	25.8	6.54	8.33	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Surface	1	1	26.1	7.84	25.7	6.75	7.89	10.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Surface	1	2	26.2	7.8	25.8	6.78	7.96	10.6
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Middle	2	1	26.1	7.85	25.9	6.69	8.08	10.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Middle	2	2	26.1	7.88	25.9	6.71	8.14	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Bottom	3	1	26	7.94	26	6.48	8.34	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)16	18:46	Bottom	3	2	25.9	7.9	26.1	6.51	8.28	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Surface	1	1	26.2	7.78	25.5	6.76	8.13	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Surface	1	2	26.2	7.74	25.5	6.72	8.24	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Bottom	3	1	25.9	7.84	25.8	6.56	8.48	11.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	IS(Mf)9	19:05	Bottom	3	2	25.9	7.88	25.7	6.54	8.55	11.6
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Surface	1	1	26.2	7.69	25.5	6.83	8.43	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Surface	1	2	26.3	7.73	25.6	6.8	8.34	11.1
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Middle	2	1	26	7.84	25.8	6.67	8.53	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Middle	2	2	26	7.79	25.7	6.64	8.66	11.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Bottom	3	1	25.8	7.7	25.8	6.44	8.87	11.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Flood	CS(Mf)3	19:20	Bottom	3	2	25.8	7.74	25.9	6.47	8.94	11.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Surface	1	1	26.1	7.94	25.4	6.59	8.16	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Surface	1	2	26.1	7.92	25.5	6.61	8.14	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Middle	2	1	26	8.16	25.6	6.48	8.33	11.1
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Middle	2	2	25.9	8.14	25.7	6.46	8.31	11.1
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Bottom	3	1	25.7	7.85	25.8	6.43	8.46	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)5	14:48	Bottom	3	2	25.6	7.87	25.9	6.4	8.48	11.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Surface	1	1	25.9	8.14	25.5	6.43	7.92	10.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Surface	1	2	25.8	8.12	25.6	6.41	7.94	10.6
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Bottom	3	1	25.7	7.84	25.7	6.36	8.15	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4a	14:33	Bottom	3	2	25.6	7.82	25.8	6.34	8.17	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Surface	1	1	25.9	8.14	25.6	6.47	7.74	10.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Surface	1	2	25.8	8.16	25.5	6.45	7.76	10.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Bottom	3	1	25.7	7.98	25.7	6.3	7.85	10.4
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	SR4	14:13	Bottom	3	2	25.6	8	25.8	6.32	7.87	10.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Surface	1	1	26.1	7.86	25.4	6.54	8.16	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Surface	1	2	26.1	7.88	25.5	6.56	8.18	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Bottom	3	1	25.8	8.04	25.6	6.41	8.25	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS8	13:54	Bottom	3	2	25.7	8.06	25.7	6.39	8.27	11

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Surface	1	1	26	7.94	25.6	6.64	7.69	10.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Surface	1	2	26	7.96	25.7	6.66	7.71	10.3
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Middle	2	1	25.8	8.13	25.8	6.43	7.84	10.4
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Middle	2	2	25.7	8.15	25.8	6.41	7.86	10.5
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Bottom	3	1	25.6	8.02	25.9	6.35	8.14	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)16	13:34	Bottom	3	2	25.5	8.04	26	6.33	8.16	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Surface	1	1	26	7.82	25.5	6.58	7.99	10.6
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Surface	1	2	25.9	7.84	25.6	6.56	8.01	10.7
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Bottom	3	1	25.7	7.99	25.7	6.4	8.24	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	IS(Mf)9	13:20	Bottom	3	2	25.6	8.01	25.8	6.42	8.26	11
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Surface	1	1	26.1	8.04	25.4	6.65	8.15	10.8
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Surface	1	2	26	8.06	25.5	6.67	8.17	10.9
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Middle	2	1	25.9	8.13	25.6	6.42	8.34	11.1
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Middle	2	2	25.8	8.15	25.7	6.4	8.36	11.1
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Bottom	3	1	25.7	7.86	25.8	6.34	8.44	11.2
TMCLKL	HY/2012/07	2016-10-01	Mid-Ebb	CS(Mf)3	13:01	Bottom	3	2	25.6	7.88	25.9	6.32	8.46	11.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Surface	1	1	26.3	7.74	25.7	6.74	8.21	10.9
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Surface	1	2	26.2	7.79	25.8	6.7	8.15	10.8
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Middle	2	1	26.1	8	25.9	6.63	8.34	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Middle	2	2	26.2	7.94	25.8	6.6	8.4	11.2
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Bottom	3	1	26	7.73	26.1	6.47	8.58	11.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)5	8:07	Bottom	3	2	25.9	7.69	26.2	6.43	8.64	11.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Surface	1	1	26.2	7.95	25.9	6.65	7.95	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Surface	1	2	26.1	7.99	26	6.6	8.04	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Bottom	3	1	26	7.92	26	6.54	8.25	11.2
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4a	8:29	Bottom	3	2	26.1	7.88	26.1	6.51	8.18	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Surface	1	1	26.2	7.8	25.7	6.65	7.64	10.2
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Surface	1	2	26.1	7.82	25.8	6.67	7.72	10.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Bottom	3	1	26.1	7.85	25.8	6.53	7.85	10.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	SR4	8:51	Bottom	3	2	26	7.81	25.9	6.5	7.94	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Surface	1	1	26.1	7.69	25.6	6.75	7.95	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Surface	1	2	26.2	7.71	25.7	6.77	8.02	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Bottom	3	1	26.1	7.74	25.9	6.64	8.2	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS8	9:13	Bottom	3	2	26.2	7.72	25.8	6.6	8.24	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Surface	1	1	26.3	7.75	25.8	6.81	7.8	10.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Surface	1	2	26.2	7.71	25.9	6.84	7.87	10.5
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Middle	2	1	26.1	7.76	25.9	6.75	7.99	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Middle	2	2	26	7.79	26	6.77	8.05	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Bottom	3	1	25.9	7.85	26.1	6.54	8.25	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)16	9:35	Bottom	3	2	26	7.81	26.2	6.57	8.19	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Surface	1	1	26.3	7.69	25.5	6.82	8.04	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Surface	1	2	26.2	7.65	25.6	6.78	8.15	10.8
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Bottom	3	1	26	7.75	25.8	6.62	8.39	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	IS(Mf)9	9:57	Bottom	3	2	25.9	7.79	25.9	6.6	8.46	11.5
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Surface	1	1	26.4	7.6	25.6	6.89	8.34	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Surface	1	2	26.3	7.64	25.7	6.86	8.25	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Middle	2	1	26.1	7.75	25.9	6.73	8.44	11.2
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Middle	2	2	26	7.7	25.8	6.7	8.57	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Bottom	3	1	25.9	7.61	25.9	6.5	8.78	11.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Flood	CS(Mf)3	10:21	Bottom	3	2	25.8	7.65	26	6.53	8.55	11.8
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Surface	1	1	26.5	8.14	26.1	6.62	8.34	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Surface	1	2	26.4	8.12	26.2	6.64	8.36	11.1
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Middle	2	1	26.3	7.95	26.3	6.5	8.47	11.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Middle	2	2	26.3	7.93	26.4	6.52	8.49	11.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Bottom	3	1	26.2	7.86	26.5	6.44	8.56	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)5	15:19	Bottom	3	2	26.1	7.88	26.6	6.46	8.58	11.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Surface	1	1	26.4	7.95	25.9	6.48	7.99	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Surface	1	2	26.3	7.97	25.9	6.46	8.01	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Bottom	3	1	26.2	7.69	26.2	6.32	8.25	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4a	15:00	Bottom	3	2	26.2	7.71	26.3	6.3	8.27	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Surface	1	1	26.6	7.83	26.1	6.54	7.82	10.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Surface	1	2	26.5	7.81	26.2	6.56	7.84	10.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Bottom	3	1	26.4	7.75	26.3	6.32	8.16	10.9
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	SR4	14:38	Bottom	3	2	26.3	7.77	26.4	6.3	8.18	10.9
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Surface	1	1	26.5	8.16	25.9	6.64	7.76	10.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Surface	1	2	26.4	8.14	26	6.62	7.78	10.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Bottom	3	1	26.3	7.91	26.2	6.48	7.94	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS8	14:17	Bottom	3	2	26.2	7.93	26.3	6.46	7.96	10.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Surface	1	1	26.5	7.97	26	6.72	8.02	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Surface	1	2	26.5	7.99	26	6.7	8.04	10.7
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Middle	2	1	26.4	8.16	26.1	6.53	8.15	10.8
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Middle	2	2	26.3	8.18	26.2	6.51	8.13	10.8
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Bottom	3	1	26.3	8.04	26.3	6.44	8.26	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)16	13:56	Bottom	3	2	26.2	8.06	26.4	6.46	8.28	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Surface	1	1	26.4	7.99	25.9	6.77	8.25	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Surface	1	2	26.4	8.01	26	6.75	8.27	11
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Bottom	3	1	26.2	7.83	26.2	6.58	8.55	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	IS(Mf)9	13:26	Bottom	3	2	26.3	7.85	26.2	6.6	8.57	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Surface	1	1	26.5	8.14	25.9	6.68	8.52	11.3
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Surface	1	2	26.6	8.12	26	6.66	8.54	11.4
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Middle	2	1	26.4	7.95	26.1	6.52	8.66	11.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Middle	2	2	26.3	7.93	26.2	6.54	8.68	11.5
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Bottom	3	1	26.2	8.22	26.3	6.33	8.74	11.6
TMCLKL	HY/2012/07	2016-10-04	Mid-Ebb	CS(Mf)3	13:04	Bottom	3	2	26.1	8.24	26.4	6.31	8.76	11.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Surface	1	1	28	7.67	26.9	6.56	7.94	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Surface	1	2	27.9	7.71	26.9	6.6	8.05	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Middle	2	1	27.7	7.78	27	6.43	8.24	11
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Middle	2	2	27.8	7.75	27	6.41	8.16	10.9
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Bottom	3	1	27.6	7.69	27.1	6.25	8.65	11.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)5	9:32	Bottom	3	2	27.6	7.7	27.1	6.22	8.77	11.8
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Surface	1	1	28	7.63	26.9	6.38	7.85	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Surface	1	2	28	7.6	26.8	6.41	7.91	10.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Bottom	3	1	27.9	7.64	26.9	6.3	8.34	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4a	10:00	Bottom	3	2	27.9	7.67	26.9	6.26	8.41	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Surface	1	1	28.1	7.68	26.9	6.44	7.97	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Surface	1	2	28	7.64	27	6.4	8.01	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Bottom	3	1	28	7.73	27	6.34	8.43	11.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	SR4	10:18	Bottom	3	2	28	7.7	27.1	6.31	8.35	11.1
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Surface	1	1	28.1	7.59	27	6.41	7.84	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Surface	1	2	28.1	7.63	27	6.37	7.93	10.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Bottom	3	1	28	7.68	27	6.26	8.48	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS8	10:35	Bottom	3	2	28	7.71	27.1	6.29	8.53	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Surface	1	1	28.1	7.66	27	6.33	7.76	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Surface	1	2	28	7.7	26.9	6.3	7.82	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Middle	2	1	28	7.73	27.1	6.22	7.98	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Middle	2	2	27.9	7.69	27.1	6.2	8.07	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Bottom	3	1	27.8	7.69	27.3	6.08	8.66	11.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)16	10:54	Bottom	3	2	27.7	7.73	27.2	6.12	8.74	11.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Surface	1	1	28.1	7.69	26.8	6.59	7.69	10.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Surface	1	2	28	7.73	26.8	6.62	7.75	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Bottom	3	1	28	7.63	26.9	6.42	8.24	11.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	IS(Mf)9	11:17	Bottom	3	2	27.9	7.66	27	6.39	8.16	11.1
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Surface	1	1	28.1	7.64	26.8	6.54	7.76	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Surface	1	2	28.1	7.67	26.9	6.51	7.84	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Middle	2	1	28	7.69	27.1	6.38	8.03	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Middle	2	2	28	7.66	27	6.42	8.09	10.8
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Bottom	3	1	27.7	7.73	27.3	6.19	8.51	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Flood	CS(Mf)3	11:38	Bottom	3	2	27.7	7.7	27.4	6.21	8.62	11.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Surface	1	1	28.1	7.73	26.9	6.47	8	10.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Surface	1	2	28	7.77	27	6.51	8.11	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Middle	2	1	27.9	7.84	27.1	6.34	8.3	11
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Middle	2	2	27.8	7.81	27	6.32	8.22	10.9
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Bottom	3	1	27.7	7.75	27.1	6.16	8.71	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)5	16:27	Bottom	3	2	27.6	7.76	27.2	6.13	8.83	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Surface	1	1	28.1	7.69	26.9	6.29	7.91	10.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Surface	1	2	28	7.66	27	6.32	7.97	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Bottom	3	1	28	7.7	27	6.21	8.4	11.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4a	16:03	Bottom	3	2	27.9	7.73	27.1	6.17	8.47	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Surface	1	1	28.1	7.74	27	6.35	8.03	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Surface	1	2	28.2	7.7	27.1	6.31	8.07	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Bottom	3	1	28	7.79	27.1	6.25	8.49	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	SR4	15:41	Bottom	3	2	28.1	7.76	27	6.22	8.41	11.2
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Surface	1	1	28.2	7.65	27.1	6.32	7.9	10.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Surface	1	2	28.1	7.69	27	6.28	7.99	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Bottom	3	1	28.1	7.74	27.1	6.17	8.54	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS8	15:19	Bottom	3	2	28.1	7.77	27.2	6.2	8.59	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Surface	1	1	28.2	7.72	27	6.24	7.96	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Surface	1	2	28.1	7.76	27.1	6.21	7.98	10.6
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Middle	2	1	28	7.79	27.1	6.13	8.04	10.7
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Middle	2	2	27.9	7.75	27.2	6.11	8.13	10.8
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Bottom	3	1	27.9	7.75	27.3	5.99	8.47	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)16	14:57	Bottom	3	2	27.8	7.79	27.4	6.03	8.5	11.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Surface	1	1	28.2	7.75	26.8	6.5	7.75	10.3
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Surface	1	2	28.1	7.79	26.9	6.53	7.81	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Bottom	3	1	28.1	7.69	27	6.33	8.3	11
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	IS(Mf)9	14:35	Bottom	3	2	28	7.72	27.1	6.32	8.22	10.9
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Surface	1	1	28.2	7.7	27	6.45	7.82	10.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Surface	1	2	28.1	7.73	26.9	6.42	7.9	10.5
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Middle	2	1	28	7.75	27.1	6.29	8.09	10.8
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Middle	2	2	28.1	7.72	27.2	6.33	8.15	10.8
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Bottom	3	1	27.7	7.79	27.4	6.1	8.57	11.4
TMCLKL	HY/2012/07	2016-10-06	Mid-Ebb	CS(Mf)3	14:13	Bottom	3	2	27.6	7.76	27.5	6.12	8.68	11.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Surface	1	1	28.2	7.79	27.1	6.53	7.91	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Surface	1	2	28.1	7.83	27	6.57	8.02	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Middle	2	1	28	7.9	27.1	6.4	8.21	10.9
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Middle	2	2	27.9	7.87	27.2	6.38	8.13	10.8
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Bottom	3	1	27.8	7.81	27.2	6.22	8.62	11.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)5	11:56	Bottom	3	2	27.7	7.82	27.3	6.19	8.74	11.8
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Surface	1	1	28.2	7.75	27	6.35	7.82	10.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Surface	1	2	28.3	7.72	27.1	6.38	7.88	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Bottom	3	1	28.1	7.76	27.2	6.27	8.31	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4a	12:18	Bottom	3	2	28	7.79	27.1	6.23	8.38	11.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Surface	1	1	28.3	7.8	27.1	6.41	7.94	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Surface	1	2	28.4	7.76	27.2	6.37	7.98	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Bottom	3	1	28.1	7.85	27.3	6.31	8.4	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	SR4	12:40	Bottom	3	2	28	7.82	27.2	6.28	8.32	11.1
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Surface	1	1	28.3	7.71	27.1	6.38	7.78	10.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Surface	1	2	28.2	7.75	27.2	6.34	7.87	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Bottom	3	1	28.2	7.8	27.2	6.23	8.42	11.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS8	13:02	Bottom	3	2	28.1	7.83	27.3	6.26	8.47	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Surface	1	1	28.4	7.78	27.1	6.3	7.87	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Surface	1	2	28.3	7.82	27.2	6.27	7.89	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Middle	2	1	28.1	7.85	27.2	6.19	7.95	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Middle	2	2	28.2	7.81	27.3	6.17	8.04	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Bottom	3	1	28	7.81	27.4	6.05	8.38	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)16	13:24	Bottom	3	2	27.9	7.85	27.5	6.09	8.41	11.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Surface	1	1	28.2	7.81	26.9	6.56	7.66	10.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Surface	1	2	28.3	7.85	27	6.59	7.72	10.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Bottom	3	1	28.2	7.75	27.1	6.39	8.21	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	IS(Mf)9	13:46	Bottom	3	2	28.1	7.78	27.2	6.38	8.13	11.1
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Surface	1	1	28.3	7.76	27	6.51	7.73	10.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Surface	1	2	28.2	7.79	27.1	6.48	7.81	10.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Middle	2	1	28.1	7.81	27.2	6.35	8	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Middle	2	2	28.2	7.78	27.3	6.39	8.06	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Bottom	3	1	27.8	7.85	27.5	6.16	8.48	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Flood	CS(Mf)3	16:10	Bottom	3	2	27.7	7.82	27.6	6.18	8.59	11.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Surface	1	1	28.5	7.74	27	6.72	7.86	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Surface	1	2	28.4	7.74	27.1	6.75	7.9	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Middle	2	1	28.3	7.8	27.2	6.43	8.07	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Middle	2	2	28.2	7.81	27.2	6.47	8.02	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Bottom	3	1	28	7.83	27.4	6.18	8.38	11.1
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)5	18:05	Bottom	3	2	27.9	7.82	27.4	6.14	8.35	11.1
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Surface	1	1	28.4	7.76	26.9	6.2	7.94	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Surface	1	2	28.5	7.77	27	6.17	7.9	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Bottom	3	1	28.2	7.82	27.1	6.14	8.48	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4a	17:49	Bottom	3	2	28.2	7.82	27.1	6.18	8.45	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Surface	1	1	28.4	7.76	27	6.43	8.22	10.9
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Surface	1	2	28.5	7.77	27.1	6.4	8.26	11
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Bottom	3	1	28.2	7.79	27.2	6.3	8.44	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	SR4	17:31	Bottom	3	2	28.2	7.79	27.2	6.33	8.4	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Surface	1	1	28.5	7.75	27	6.51	7.97	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Surface	1	2	28.5	7.77	26.9	6.48	7.95	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Bottom	3	1	28.3	7.76	27.2	6.29	8.53	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS8	17:15	Bottom	3	2	28.3	7.78	27.1	6.33	8.5	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Surface	1	1	28.6	7.78	27.1	6.64	7.64	10.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Surface	1	2	28.5	7.78	27.2	6.67	7.68	10.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Middle	2	1	28	7.79	27.5	6.37	7.87	10.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Middle	2	2	28.1	7.79	27.4	6.34	7.83	10.4
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Bottom	3	1	28	7.8	27.5	6.1	8.17	10.9
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)16	16:58	Bottom	3	2	28.1	7.81	27.6	6.14	8.11	10.8
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Surface	1	1	28.5	7.79	26.8	6.49	8.02	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Surface	1	2	28.4	7.8	26.8	6.45	8.06	10.7
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Bottom	3	1	28.3	7.78	26.9	6.21	8.44	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	IS(Mf)9	16:40	Bottom	3	2	28.3	7.78	27	6.25	8.49	11.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Surface	1	1	28.6	7.74	27	6.37	7.95	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Surface	1	2	28.6	7.75	27	6.39	7.98	10.6
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Middle	2	1	28.4	7.83	27.3	6.26	8.46	11.3
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Middle	2	2	28.3	7.82	27.4	6.22	8.4	11.2
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Bottom	3	1	28.1	7.82	27.5	6.2	8.66	11.5
TMCLKL	HY/2012/07	2016-10-08	Mid-Ebb	CS(Mf)3	16:20	Bottom	3	2	28	7.81	27.5	6.24	8.62	11.5
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Surface	1	1	27.7	7.91	26.9	6.5	8.82	11.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Surface	1	2	27.6	7.95	26.8	6.54	8.91	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Middle	2	1	27.5	8.02	26.9	6.37	9.18	12.2
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Middle	2	2	27.4	7.99	27	6.35	9.1	12.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Bottom	3	1	27.2	7.93	27.1	6.19	9.59	12.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)5	14:33	Bottom	3	2	27.3	7.94	27.2	6.16	9.68	13.2
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Surface	1	1	27.6	7.87	26.7	6.32	8.79	11.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Surface	1	2	27.5	7.84	26.8	6.35	8.85	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Bottom	3	1	27.4	7.88	26.9	6.24	9.28	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4a	14:55	Bottom	3	2	27.5	7.91	26.8	6.2	9.35	12.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Surface	1	1	27.4	7.92	26.8	6.38	8.91	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Surface	1	2	27.3	7.88	26.9	6.34	8.95	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Bottom	3	1	27.3	7.97	27	6.28	9.37	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	SR4	15:17	Bottom	3	2	27.2	7.94	27.1	6.25	9.29	12.5
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Surface	1	1	27.5	7.83	26.8	6.35	8.75	11.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Surface	1	2	27.4	7.87	26.7	6.31	8.84	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Bottom	3	1	27.3	7.92	26.9	6.2	9.39	12.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS8	15:39	Bottom	3	2	27.4	7.95	27	6.23	9.44	12.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Surface	1	1	27.6	7.9	26.7	6.27	8.84	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Surface	1	2	27.5	7.94	26.6	6.24	8.86	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Middle	2	1	27.3	7.97	26.7	6.16	8.92	11.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Middle	2	2	27.4	7.93	26.8	6.14	8.01	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Bottom	3	1	27.3	7.94	27	6.02	9.35	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)16	16:01	Bottom	3	2	27.2	7.97	27.1	6.06	9.38	12.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Surface	1	1	27.5	7.93	26.6	6.53	8.57	11.4
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Surface	1	2	27.4	7.97	26.7	6.56	8.69	11.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Bottom	3	1	27.2	7.87	27.1	6.36	8.18	11.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	IS(Mf)9	16:23	Bottom	3	2	27.3	7.9	27	6.38	8.1	11
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Surface	1	1	27.4	7.88	26.5	6.48	8.7	11.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Surface	1	2	27.3	7.91	26.6	6.45	8.78	11.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Middle	2	1	27.3	7.93	26.9	6.32	8.97	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Middle	2	2	27.2	7.9	27	6.36	9.03	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Bottom	3	1	27	7.97	27.2	6.13	9.45	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Flood	CS(Mf)3	16:47	Bottom	3	2	26.9	7.94	27.3	6.15	9.56	12.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Surface	1	1	27.6	7.85	26.7	6.44	8.91	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Surface	1	2	27.5	7.89	26.8	6.48	9.08	12.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Middle	2	1	27.4	7.96	26.9	6.31	9.27	12.3
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Middle	2	2	27.3	7.93	26.8	6.29	9.19	12.2
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Bottom	3	1	27.3	7.87	27	6.13	9.68	12.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)5	9:59	Bottom	3	2	27.2	7.88	27.1	6.1	9.77	13
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Surface	1	1	27.4	7.81	26.6	6.26	8.88	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Surface	1	2	27.5	7.78	26.7	6.29	8.94	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Bottom	3	1	27.5	7.82	26.7	6.18	9.37	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4a	9:37	Bottom	3	2	27.4	7.85	26.8	6.14	9.44	12.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Surface	1	1	27.5	7.86	26.8	6.32	9	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Surface	1	2	27.4	7.82	26.7	6.28	9.04	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Bottom	3	1	27.4	7.91	26.9	6.22	9.46	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	SR4	9:21	Bottom	3	2	27.3	7.88	27	6.19	9.38	12.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Surface	1	1	27.4	7.77	26.6	6.29	8.84	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Surface	1	2	27.3	7.81	26.7	6.25	8.93	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Bottom	3	1	27.2	7.86	26.8	6.14	9.48	12.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS8	9:06	Bottom	3	2	27.3	7.89	26.9	6.17	9.53	12.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Surface	1	1	27.5	7.84	26.6	6.21	8.93	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Surface	1	2	27.4	7.88	26.5	6.18	8.95	11.9
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Middle	2	1	27.3	7.91	26.7	6.1	9.01	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Middle	2	2	27.2	7.87	26.8	6.08	9.1	12.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Bottom	3	1	27.2	7.88	27	5.96	9.44	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)16	8:49	Bottom	3	2	27.1	7.91	26.9	6	9.47	12.6
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Surface	1	1	27.4	7.87	26.5	6.47	8.66	11.5
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Surface	1	2	27.3	7.91	26.6	6.5	8.78	11.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Bottom	3	1	27.2	7.81	26.9	6.3	8.27	11.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	IS(Mf)9	8:34	Bottom	3	2	27.1	7.84	27	6.29	8.19	11.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Surface	1	1	27.3	7.82	26.4	6.42	8.79	11.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Surface	1	2	27.2	7.85	26.5	6.39	8.87	11.8
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Middle	2	1	27.1	7.87	26.8	6.26	9.06	12
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Middle	2	2	27.2	7.84	26.9	6.3	9.12	12.1
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Bottom	3	1	26.9	7.91	27.1	6.07	9.54	12.7
TMCLKL	HY/2012/07	2016-10-11	Mid-Ebb	CS(Mf)3	8:17	Bottom	3	2	26.8	7.88	27.2	6.09	9.65	12.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Surface	1	1	27.4	7.84	26.9	6.44	8.34	11.1
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Surface	1	2	27.5	7.87	26.9	6.4	8.41	11.2
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Middle	2	1	27.5	7.86	27	6.31	8.6	11.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Middle	2	2	27.5	7.88	27	6.28	8.53	11.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Bottom	3	1	27.5	7.79	27.2	6.04	8.87	12
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)5	15:40	Bottom	3	2	27.4	7.82	27.3	6.09	8.94	12.2
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Surface	1	1	27.5	7.7	26.8	6.28	8.17	10.9
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Surface	1	2	27.5	7.74	26.9	6.24	8.23	10.9
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Bottom	3	1	27.5	7.81	26.9	6.16	8.49	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4a	16:07	Bottom	3	2	27.4	7.77	27	6.11	8.55	11.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Surface	1	1	27.4	7.79	26.9	6.3	8.03	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Surface	1	2	27.5	7.81	26.9	6.27	8.11	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Bottom	3	1	27.4	7.86	26.9	6.2	8.57	11.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	SR4	16:25	Bottom	3	2	27.4	7.82	27	6.17	8.5	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Surface	1	1	27.5	7.74	26.7	6.36	8.06	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Surface	1	2	27.6	7.77	26.8	6.33	8.13	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Bottom	3	1	27.5	7.76	26.9	6.15	8.43	11.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS8	16:42	Bottom	3	2	27.4	7.8	26.9	6.12	8.49	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Surface	1	1	27.5	7.84	26.6	6.27	8.15	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Surface	1	2	27.5	7.8	26.7	6.24	8.23	10.9
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Middle	2	1	27.4	7.77	26.7	6.15	8.41	11.2
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Middle	2	2	27.4	7.79	26.8	6.11	8.49	11.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Bottom	3	1	27.3	7.74	26.9	6.04	8.77	11.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)16	17:00	Bottom	3	2	27.3	7.78	26.9	6	8.83	12
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Surface	1	1	27.5	7.79	26.7	6.29	7.94	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Surface	1	2	27.5	7.82	26.7	6.31	8.01	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Bottom	3	1	27.3	7.81	26.8	6.18	8.39	11.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	IS(Mf)9	17:23	Bottom	3	2	27.3	7.84	26.9	6.15	8.44	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Surface	1	1	27.5	7.74	26.6	6.38	8.09	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Surface	1	2	27.4	7.8	26.6	6.34	8.02	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Middle	2	1	27.3	7.81	26.7	6.23	8.24	11
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Middle	2	2	27.3	7.77	26.8	6.21	8.33	11.1
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Bottom	3	1	27.1	7.83	27	6.04	8.67	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Flood	CS(Mf)3	17:43	Bottom	3	2	27.1	7.8	26.9	6.01	8.76	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Surface	1	1	27.7	7.82	26.8	6.35	7.97	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Surface	1	2	27.6	7.86	26.9	6.39	8.14	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Middle	2	1	27.4	7.93	26.9	6.22	8.33	11.1
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Middle	2	2	27.5	7.9	27	6.2	8.25	11
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Bottom	3	1	27.5	7.84	27.1	6.04	8.74	11.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)5	12:00	Bottom	3	2	27.4	7.85	27.2	6.01	8.83	11.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Surface	1	1	27.6	7.78	26.7	6.17	7.94	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Surface	1	2	27.5	7.75	26.8	6.2	8	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Bottom	3	1	27.4	7.79	26.8	6.09	8.43	11.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4a	11:36	Bottom	3	2	27.5	7.82	26.9	6.05	8.5	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Surface	1	1	27.5	7.83	26.8	6.23	7.91	10.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Surface	1	2	27.6	7.79	26.9	6.19	7.95	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Bottom	3	1	27.5	7.88	27.1	6.13	8.52	11.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	SR4	11:14	Bottom	3	2	27.4	7.85	27	6.1	8.44	11.2
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Surface	1	1	27.5	7.74	26.7	6.2	7.9	10.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Surface	1	2	27.4	7.78	26.8	6.16	7.99	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Bottom	3	1	27.4	7.83	26.9	6.05	8.54	11.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS8	10:52	Bottom	3	2	27.3	7.86	27	6.08	8.59	11.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Surface	1	1	27.6	7.81	26.7	6.12	7.99	10.6
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Surface	1	2	27.5	7.85	26.6	6.09	8.01	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Middle	2	1	27.3	7.88	26.8	6.01	8.07	10.7
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Middle	2	2	27.4	7.84	26.9	5.99	8.16	10.9
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Bottom	3	1	27.2	7.85	27	5.87	8.5	11.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)16	10:30	Bottom	3	2	27.1	7.88	27.1	5.91	8.53	11.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Surface	1	1	27.5	7.84	26.6	6.38	7.72	10.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Surface	1	2	27.4	7.88	26.7	6.41	7.74	10.3
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Bottom	3	1	27.2	7.78	27.1	6.21	8.33	11.2
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	IS(Mf)9	10:08	Bottom	3	2	27.3	7.81	27	6.19	8.25	11.1
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Surface	1	1	27.4	7.79	26.5	6.33	7.85	10.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Surface	1	2	27.3	7.82	26.6	6.3	7.93	10.5
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Middle	2	1	27.2	7.84	26.7	6.17	8.12	10.8
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Middle	2	2	27.3	7.81	26.8	6.21	8.18	10.9
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Bottom	3	1	27	7.88	27	5.98	8.6	11.4
TMCLKL	HY/2012/07	2016-10-13	Mid-Ebb	CS(Mf)3	9:46	Bottom	3	2	27.1	7.85	26.9	6	8.71	11.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Surface	1	1	27.8	7.88	26.6	6.36	8.14	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Surface	1	2	27.8	7.84	26.7	6.33	8.23	10.9
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Middle	2	1	27.7	7.8	26.7	6.24	8.05	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Middle	2	2	27.7	7.83	26.8	6.2	8.11	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Bottom	3	1	27.6	7.78	26.8	6.07	8.64	11.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)5	16:38	Bottom	3	2	27.6	7.8	26.9	6.04	8.55	11.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Surface	1	1	27.8	7.84	26.6	6.18	7.94	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Surface	1	2	27.8	7.81	26.6	6.2	8.02	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Bottom	3	1	27.7	7.8	26.6	6.09	8.34	11.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4a	17:05	Bottom	3	2	27.7	7.83	26.7	6.12	8.41	11.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Surface	1	1	27.8	7.84	26.3	6.18	7.94	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Surface	1	2	27.7	7.81	26.4	6.16	8.01	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Bottom	3	1	27.7	7.87	26.4	6.08	8.33	11.2
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	SR4	17:22	Bottom	3	2	27.7	7.9	26.5	6.04	8.41	11.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Surface	1	1	27.7	7.87	26.4	6.31	7.99	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Surface	1	2	27.7	7.84	26.5	6.27	7.9	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Bottom	3	1	27.7	7.83	26.6	6.19	8.24	11.1
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS8	17:39	Bottom	3	2	27.8	7.85	26.5	6.14	8.32	11.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Surface	1	1	27.7	7.79	26.4	6.2	8.04	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Surface	1	2	27.6	7.81	26.4	6.16	8.12	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Middle	2	1	27.6	7.73	26.6	6.09	8.24	11
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Middle	2	2	27.6	7.77	26.5	6.11	8.2	10.9
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Bottom	3	1	27.5	7.81	26.6	5.89	8.53	11.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)16	17:55	Bottom	3	2	27.4	7.76	26.7	5.92	8.61	11.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Surface	1	1	27.6	7.84	26.4	6.37	7.89	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Surface	1	2	27.6	7.89	26.3	6.41	7.94	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Bottom	3	1	27.5	7.83	26.6	6.3	8.34	11.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	IS(Mf)9	18:12	Bottom	3	2	27.5	7.88	26.5	6.27	8.42	11.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Surface	1	1	27.6	7.79	26.4	6.27	7.84	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Surface	1	2	27.6	7.82	26.4	6.32	7.95	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Middle	2	1	27.5	7.84	26.4	6.21	7.76	10.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Middle	2	2	27.5	7.89	26.5	6.18	7.81	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Bottom	3	1	27.4	7.87	26.6	6.01	8.47	11.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Flood	CS(Mf)3	18:25	Bottom	3	2	27.3	7.9	26.7	5.98	8.4	11.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Surface	1	1	27.9	7.88	26.5	6.41	7.88	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Surface	1	2	27.8	7.92	26.6	6.45	8.05	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Middle	2	1	27.7	7.99	26.8	6.28	8.08	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Middle	2	2	27.6	7.96	26.7	6.26	8	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Bottom	3	1	27.5	7.9	26.8	6.1	8.49	11.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)5	13:33	Bottom	3	2	27.6	7.91	26.7	6.07	8.58	11.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Surface	1	1	27.8	7.84	26.4	6.23	7.85	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Surface	1	2	27.7	7.81	26.5	6.26	7.91	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Bottom	3	1	27.6	7.85	26.5	6.15	8.18	11
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4a	13:09	Bottom	3	2	27.5	7.88	26.6	6.11	8.25	11.1
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Surface	1	1	27.7	7.89	26.3	6.29	7.82	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Surface	1	2	27.7	7.85	26.2	6.25	7.86	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Bottom	3	1	27.5	7.94	26.3	6.19	8.27	11
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	SR4	12:47	Bottom	3	2	27.4	7.91	26.4	6.16	8.19	10.9
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Surface	1	1	27.7	7.8	26.3	6.26	7.81	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Surface	1	2	27.6	7.84	26.4	6.22	7.9	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Bottom	3	1	27.5	7.89	26.5	6.11	8.29	11.2
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS8	12:25	Bottom	3	2	27.6	7.92	26.4	6.14	8.34	11.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Surface	1	1	27.7	7.87	26.2	6.18	7.9	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Surface	1	2	27.8	7.91	26.3	6.15	7.92	10.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Middle	2	1	27.7	7.94	26.4	6.07	7.98	10.6
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Middle	2	2	27.6	7.9	26.3	6.05	8.07	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Bottom	3	1	27.4	7.91	26.4	5.93	8.41	11.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)16	12:03	Bottom	3	2	27.3	7.94	26.5	5.97	8.44	11.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Surface	1	1	27.7	7.9	26.2	6.44	7.63	10.1
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Surface	1	2	27.6	7.94	26.3	6.47	7.65	10.2
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Bottom	3	1	27.4	7.84	26.4	6.27	8.14	10.9
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	IS(Mf)9	11:41	Bottom	3	2	27.5	7.87	26.3	6.25	8.16	11
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Surface	1	1	27.6	7.85	26.2	6.39	7.76	10.3
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Surface	1	2	27.5	7.88	26.1	6.36	7.84	10.4
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Middle	2	1	27.4	7.9	26.4	6.23	8.03	10.7
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Middle	2	2	27.3	7.87	26.3	6.27	8.09	10.8
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Bottom	3	1	27.4	7.94	26.4	6.04	8.51	11.5
TMCLKL	HY/2012/07	2016-10-15	Mid-Ebb	CS(Mf)3	11:19	Bottom	3	2	27.3	7.91	26.5	6.06	8.62	11.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Surface	1	1	25.9	7.04	25.7	6.27	9.08	12.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Surface	1	2	25.8	7.11	25.6	6.24	9.24	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Middle	2	1	25.8	7.08	25.9	6.15	9.37	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Middle	2	2	25.8	7.15	25.8	6.11	9.46	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Bottom	3	1	25.8	7.34	26.1	5.94	10.2	13.8
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)5	9:46	Bottom	3	2	25.8	7.4	26.2	5.9	9.93	13.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Surface	1	1	25.9	7.24	25.6	6.16	9.41	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Surface	1	2	25.9	7.16	25.6	6.13	9.5	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Bottom	3	1	25.8	7.23	25.7	6.06	9.87	13.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4a	10:12	Bottom	3	2	25.9	7.18	25.8	6.03	9.79	13.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Surface	1	1	26	7.09	25.8	6.18	9.27	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Surface	1	2	25.9	7.05	25.7	6.15	9.33	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Bottom	3	1	26	7.23	25.9	6.04	9.68	13.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	SR4	10:28	Bottom	3	2	26	7.16	26	6	9.74	13.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Surface	1	1	26	7.16	25.7	6.24	9.3	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Surface	1	2	26	7.1	25.8	6.21	9.38	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Bottom	3	1	26	7.27	25.9	6.14	9.55	12.9
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS8	10:45	Bottom	3	2	25.9	7.31	25.9	6.11	9.62	13.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Surface	1	1	26	7.04	25.8	6.23	9.19	12.2
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Surface	1	2	26.1	7.11	25.9	6.2	9.22	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Middle	2	1	26	7.16	25.9	6.15	9.48	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Middle	2	2	25.9	7.1	26	6.12	9.53	12.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Bottom	3	1	25.9	7.26	26.1	6.03	9.95	13.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)16	11:04	Bottom	3	2	25.8	7.21	26.1	5.98	9.87	13.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Surface	1	1	26	7.16	25.9	6.17	9.28	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Surface	1	2	26	7.19	25.9	6.14	9.35	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Bottom	3	1	26	7.24	25.9	6	9.76	13.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	IS(Mf)9	11:26	Bottom	3	2	26	7.2	26	5.96	9.68	13.2
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Surface	1	1	26	7.08	25.8	6.2	9.19	12.2
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Surface	1	2	26.1	7.12	25.8	6.16	9.24	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Middle	2	1	26	7.18	25.8	6.04	9.44	12.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Middle	2	2	26	7.14	25.9	6.01	9.56	12.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Bottom	3	1	25.9	7.26	26.1	5.87	9.94	13.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Flood	CS(Mf)3	11:46	Bottom	3	2	25.9	7.3	26.1	5.91	10.5	14.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Surface	1	1	25.9	7.1	25.7	6.18	9.25	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Surface	1	2	26	7.17	25.8	6.15	9.3	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Middle	2	1	25.9	7.14	25.9	6.06	9.43	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Middle	2	2	25.8	7.21	26	6.02	9.52	12.8
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Bottom	3	1	25.8	7.4	26.3	5.85	10.7	14.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)5	16:17	Bottom	3	2	25.7	7.46	26.2	5.81	9.99	13.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Surface	1	1	26	7.3	25.6	6.07	9.47	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Surface	1	2	25.9	7.22	25.7	6.04	9.56	12.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Bottom	3	1	25.9	7.29	25.8	5.97	9.93	13.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4a	15:55	Bottom	3	2	25.8	7.24	25.9	5.94	9.85	13.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Surface	1	1	26.1	7.15	25.9	6.09	9.33	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Surface	1	2	26	7.11	25.8	6.06	9.39	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Bottom	3	1	26	7.29	26	5.95	9.74	13
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	SR4	15:36	Bottom	3	2	26.1	7.22	26.1	5.91	9.8	13
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Surface	1	1	26.1	7.22	25.8	6.15	9.36	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Surface	1	2	26	7.16	25.9	6.12	9.44	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Bottom	3	1	26	7.33	25.9	6.05	9.61	13
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS8	15:17	Bottom	3	2	25.9	7.37	26	6.02	9.68	13.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Surface	1	1	26.2	7.1	25.9	6.14	9.25	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Surface	1	2	26.1	7.17	26	6.11	9.28	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Middle	2	1	26.1	7.22	26.1	6.06	9.54	12.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Middle	2	2	26	7.16	26	6.03	9.59	12.8
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Bottom	3	1	25.9	7.32	26.1	5.94	10.1	13.7
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)16	14:57	Bottom	3	2	26	7.27	26.2	5.89	9.93	13.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Surface	1	1	26.1	7.22	25.9	6.08	9.34	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Surface	1	2	26	7.25	26	6.05	9.41	12.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Bottom	3	1	26	7.3	26	5.91	9.82	13.2
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	IS(Mf)9	14:37	Bottom	3	2	25.9	7.26	26.1	5.87	9.74	13.1
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Surface	1	1	26.2	7.14	25.8	6.11	9.25	12.3
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Surface	1	2	26.1	7.18	25.9	6.07	9.3	12.4
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Middle	2	1	26	7.24	25.9	5.95	9.5	12.6
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Middle	2	2	26.1	7.2	26	5.92	9.62	12.8
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Bottom	3	1	26	7.32	26.1	5.78	10	13.5
TMCLKL	HY/2012/07	2016-10-20	Mid-Ebb	CS(Mf)3	14:17	Bottom	3	2	25.9	7.36	26.2	5.82	11.1	15.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Surface	1	1	26.1	7.67	25.6	6.46	7.89	10.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Surface	1	2	26.2	7.63	25.7	6.49	7.75	10.3
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Middle	2	1	26.1	7.95	25.9	6.35	7.94	10.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Middle	2	2	26	7.88	26	6.31	8.01	10.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Bottom	3	1	26	7.94	26.3	6.22	7.54	10.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)5	12:06	Bottom	3	2	25.9	8	26.4	6.18	7.61	10.3
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Surface	1	1	26.2	7.89	25.8	6.56	7.64	10.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Surface	1	2	26.1	7.93	25.9	6.52	7.73	10.3
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Bottom	3	1	26.1	7.88	26.1	6.46	7.85	10.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4a	12:32	Bottom	3	2	26.1	7.94	26	6.41	7.91	10.9
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Surface	1	1	26.2	7.84	25.7	6.75	7.49	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Surface	1	2	26.2	7.8	25.8	6.74	7.55	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Bottom	3	1	26.2	8.04	26	6.64	7.73	10.4
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	SR4	12:47	Bottom	3	2	26.1	8.1	26	6.61	7.81	10.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Surface	1	1	26.1	7.94	25.9	6.94	7.66	10.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Surface	1	2	26.2	7.89	25.8	6.89	7.59	10.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Bottom	3	1	26.1	7.89	26	6.75	7.94	10.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS8	13:01	Bottom	3	2	26.1	7.95	26	6.71	7.88	10.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Surface	1	1	26.1	7.94	25.9	6.83	7.48	9.9
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Surface	1	2	26.1	8	26	6.79	7.57	10.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Middle	2	1	26.1	7.85	26	6.64	7.83	10.4
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Middle	2	2	26.1	7.99	26.1	6.61	7.77	10.3
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Bottom	3	1	26	7.79	26.3	6.43	7.97	10.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)16	13:18	Bottom	3	2	25.9	7.73	26.3	6.39	7.9	10.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Surface	1	1	26.2	7.98	25.8	6.69	6.99	9.3
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Surface	1	2	26.1	8.01	25.9	6.73	7.07	9.4
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Bottom	3	1	26.1	7.84	26.1	6.51	7.34	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	IS(Mf)9	13:42	Bottom	3	2	26	7.9	26	6.55	7.46	10.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Surface	1	1	26.2	7.83	25.9	6.94	7.35	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Surface	1	2	26.2	7.88	26	7	7.27	9.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Middle	2	1	26.2	8.08	26	6.8	7.64	10.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Middle	2	2	26.3	8	26.1	6.77	7.58	10.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Bottom	3	1	26.1	7.93	26.3	6.53	7.89	10.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Flood	CS(Mf)3	14:00	Bottom	3	2	26.1	7.87	26.4	6.58	7.96	10.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Surface	1	1	26.5	7.86	26	6.64	7.13	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Surface	1	2	26.4	7.88	26.1	6.66	7.15	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Middle	2	1	26.3	8.13	26.2	6.51	7.28	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Middle	2	2	26.3	8.15	26.3	6.49	7.3	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Bottom	3	1	26.2	8.05	26.4	6.38	7.34	9.9
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)5	18:15	Bottom	3	2	26.1	8.06	26.5	6.36	7.36	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Surface	1	1	26.6	8.13	25.9	6.78	7.23	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Surface	1	2	26.5	8.15	26	6.76	7.25	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Bottom	3	1	26.3	8.02	26.2	6.43	7.36	9.9
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4a	18:00	Bottom	3	2	26.2	8	26.3	6.41	7.38	10

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Surface	1	1	26.5	7.96	25.9	6.94	7.13	9.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Surface	1	2	26.4	7.94	26	6.96	7.15	9.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Bottom	3	1	26.3	8.12	26.1	6.72	7.22	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	SR4	17:46	Bottom	3	2	26.2	8.14	26.2	6.7	7.24	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Surface	1	1	26.5	8.15	26.1	7.15	6.92	9.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Surface	1	2	26.5	8.13	26.2	7.13	6.9	9.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Bottom	3	1	26.2	7.92	26.3	6.84	7.13	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS8	17:34	Bottom	3	2	26.2	7.9	26.3	6.86	7.15	9.7
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Surface	1	1	26.3	8.04	26	6.62	7.2	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Surface	1	2	26.3	8.06	26	6.64	7.22	9.6
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Middle	2	1	26.2	8.11	26.1	6.52	7.36	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Middle	2	2	26.1	8.13	26.2	6.5	7.38	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Bottom	3	1	26	7.86	26.3	6.37	7.44	10.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)16	17:13	Bottom	3	2	26	7.88	26.4	6.35	7.46	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Surface	1	1	26.4	8.15	25.9	6.85	6.87	9.1
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Surface	1	2	26.4	8.13	26	6.83	6.89	9.2
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Bottom	3	1	26.3	7.92	26.2	6.6	7	9.4
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	IS(Mf)9	16:52	Bottom	3	2	26.2	7.94	26.3	6.62	7.02	9.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Surface	1	1	26.6	7.95	26.1	7.15	7.1	9.4
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Surface	1	2	26.5	7.93	26.1	7.13	7.12	9.5
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Middle	2	1	26.4	8.12	26.2	6.93	7.35	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Middle	2	2	26.3	8.14	26.3	6.95	7.37	9.8
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Bottom	3	1	26.2	8.05	26.4	6.71	7.44	10
TMCLKL	HY/2012/07	2016-10-22	Mid-Ebb	CS(Mf)3	16:30	Bottom	3	2	26.1	8.07	26.4	6.69	7.42	10.1
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Surface	1	1	27.2	7.94	25.8	6.88	7.28	9.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Surface	1	2	27.3	7.95	25.9	6.92	7.21	9.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Middle	2	1	27.1	7.96	26.4	6.8	7.49	10

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Middle	2	2	27	7.97	26.5	6.83	7.41	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Bottom	3	1	27	7.97	26.5	6.85	7.61	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)5	14:41	Bottom	3	2	26.9	7.98	26.6	6.81	7.67	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Surface	1	1	27.3	7.93	25.9	6.75	7.35	9.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Surface	1	2	27.2	7.94	26	6.71	7.31	9.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Bottom	3	1	27.1	7.95	26.4	6.69	7.58	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4a	15:03	Bottom	3	2	27	7.96	26.3	6.72	7.54	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Surface	1	1	27.2	7.91	25.6	6.8	7.38	9.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Surface	1	2	27.1	7.9	25.7	6.76	7.35	9.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Bottom	3	1	27	7.92	26.2	6.65	7.56	10.2
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	SR4	15:25	Bottom	3	2	27.1	7.93	26.3	6.63	7.6	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Surface	1	1	27.2	7.88	25.7	6.86	7.5	10
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Surface	1	2	27.3	7.9	25.8	6.9	7.42	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Bottom	3	1	27	7.95	26.2	6.69	7.84	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS8	15:47	Bottom	3	2	26.9	7.94	26.3	6.72	7.89	10.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Surface	1	1	27.3	7.93	25.9	6.83	7.18	9.5
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Surface	1	2	27.2	7.96	26	6.8	7.2	9.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Middle	2	1	27.1	8	26.6	6.74	7.75	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Middle	2	2	27	8.01	26.5	6.7	7.71	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Bottom	3	1	26.9	8.01	26.6	6.68	7.69	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)16	16:09	Bottom	3	2	26.8	8.03	26.7	6.65	7.65	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Surface	1	1	27.3	7.96	25.8	6.91	7.18	9.5
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Surface	1	2	27.2	7.98	25.7	6.94	7.15	9.5
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Bottom	3	1	27.1	7.99	26.2	6.74	7.79	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	IS(Mf)9	16:31	Bottom	3	2	27	8	26.3	6.71	7.75	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Surface	1	1	27.2	7.92	25.8	6.96	7.58	10.1
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Surface	1	2	27.1	7.94	25.9	6.99	7.51	10
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Middle	2	1	26.9	7.98	26.5	6.81	7.85	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Middle	2	2	27	7.99	26.4	6.85	7.89	10.5
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Bottom	3	1	26.9	7.99	26.5	6.85	8.01	11
TMCLKL	HY/2012/07	2016-10-25	Mid-Flood	CS(Mf)3	16:55	Bottom	3	2	26.8	8	26.6	6.89	8.06	11
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Surface	1	1	27.1	7.88	25.8	6.82	7.37	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Surface	1	2	27.2	7.89	25.8	6.86	7.3	9.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Middle	2	1	27	7.9	26.3	6.74	7.58	10.2
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Middle	2	2	27	7.91	26.4	6.77	7.5	10.1
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Bottom	3	1	26.9	7.91	26.5	6.79	7.7	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)5	10:39	Bottom	3	2	26.8	7.92	26.4	6.75	7.76	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Surface	1	1	27.2	7.87	25.9	6.69	7.44	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Surface	1	2	27.2	7.88	25.7	6.65	7.4	9.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Bottom	3	1	27	7.89	26.3	6.63	7.67	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4a	10:09	Bottom	3	2	27	7.9	26.3	6.66	7.63	10.3
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Surface	1	1	27	7.85	25.6	6.74	7.47	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Surface	1	2	27.1	7.84	25.6	6.7	7.44	9.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Bottom	3	1	27	7.86	26.1	6.59	7.65	10.2
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	SR4	9:42	Bottom	3	2	27	7.86	26.2	6.57	7.69	10.2
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Surface	1	1	27.2	7.82	25.7	6.8	7.59	10.1
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Surface	1	2	27.1	7.84	25.6	6.84	7.51	10
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Bottom	3	1	26.9	7.89	26.2	6.63	7.93	10.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS8	9:24	Bottom	3	2	26.8	7.88	26.2	6.66	7.98	10.8
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Surface	1	1	27.2	7.87	25.8	6.77	7.27	9.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Surface	1	2	27.1	7.9	25.9	6.74	7.29	9.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Middle	2	1	27	7.94	26.5	6.68	7.84	10.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Middle	2	2	26.9	7.95	26.4	6.64	7.8	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Bottom	3	1	26.8	7.95	26.5	6.62	7.78	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)16	9:04	Bottom	3	2	26.8	7.97	26.6	6.59	7.74	10.4
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Surface	1	1	27.2	7.9	25.7	6.85	7.27	9.7
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Surface	1	2	27.1	7.92	25.6	6.88	7.24	9.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Bottom	3	1	27	7.93	26.2	6.68	7.88	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	IS(Mf)9	8:46	Bottom	3	2	27	7.94	26.2	6.65	7.84	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Surface	1	1	27.1	7.86	25.8	6.9	7.67	10.2
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Surface	1	2	27.1	7.88	25.8	6.93	7.6	10.1
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Middle	2	1	26.9	7.92	26.3	6.75	7.94	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Middle	2	2	26.9	7.93	26.4	6.79	7.98	10.6
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Bottom	3	1	26.8	7.93	26.4	6.79	8.1	10.9
TMCLKL	HY/2012/07	2016-10-25	Mid-Ebb	CS(Mf)3	8:26	Bottom	3	2	26.8	7.93	26.5	6.83	8.15	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Surface	1	1	27.4	8.01	27.3	7.11	7.98	10.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Surface	1	2	27.5	8.03	27.2	7.07	7.89	10.5
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Middle	2	1	27.4	8.08	27.4	6.93	8.17	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Middle	2	2	27.4	8.06	27.3	6.96	8.21	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Bottom	3	1	27.2	7.98	27.5	6.69	8.34	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)5	15:40	Bottom	3	2	27.1	7.94	27.4	6.68	8.39	11.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Surface	1	1	27.5	8.05	27.2	6.97	7.73	10.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Surface	1	2	27.6	8.01	27.1	6.96	7.81	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Bottom	3	1	27.3	7.92	27.3	6.82	8.11	11
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4a	16:06	Bottom	3	2	27.4	7.94	27.2	6.85	8.18	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Surface	1	1	27.5	7.95	27.3	6.95	7.61	10.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Surface	1	2	27.4	7.91	27.2	6.96	7.69	10.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Bottom	3	1	27.3	7.99	27.4	6.74	7.95	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	SR4	16:24	Bottom	3	2	27.4	7.98	27.3	6.78	8.01	10.8

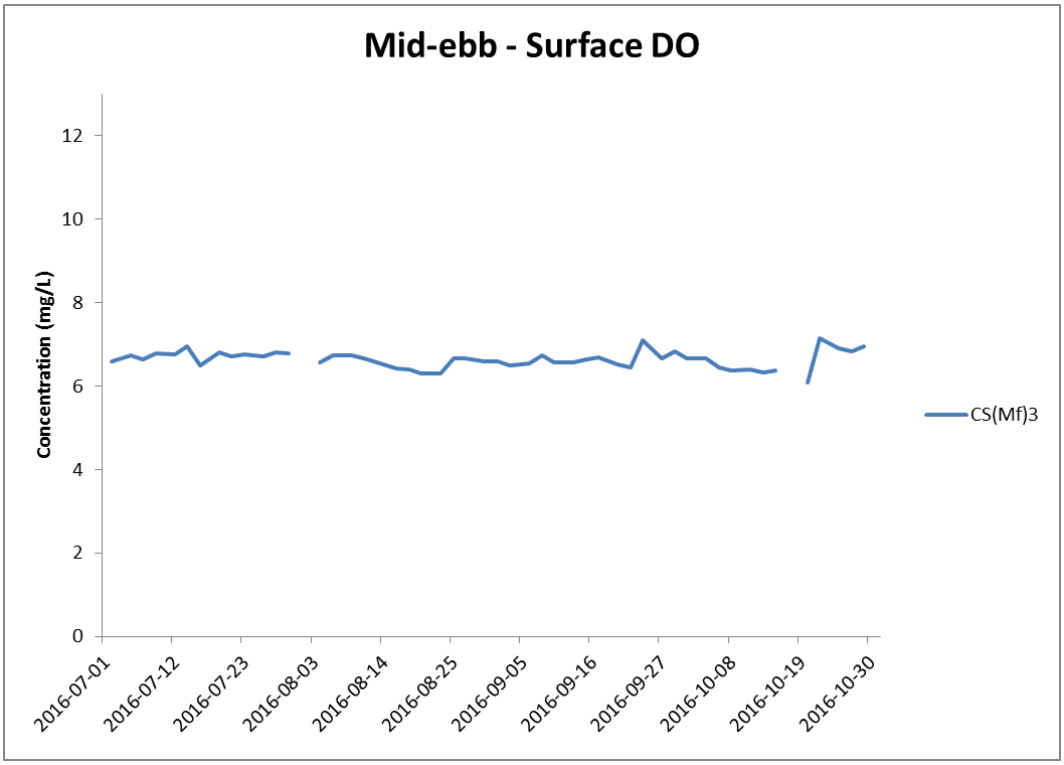
Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Surface	1	1	27.5	8.02	27.2	6.85	7.81	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Surface	1	2	27.5	8.05	27.2	6.81	7.85	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Bottom	3	1	27.3	7.93	27.3	6.64	8.12	11
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS8	16:42	Bottom	3	2	27.3	7.9	27.2	6.63	8.04	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Surface	1	1	27.5	7.94	27.2	7.02	7.65	10.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Surface	1	2	27.6	7.98	27.3	6.99	7.72	10.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Middle	2	1	27.4	8.04	27.4	6.84	7.85	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Middle	2	2	27.3	8.01	27.3	6.81	7.9	10.5
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Bottom	3	1	27.2	8.02	27.6	6.52	8.21	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)16	17:02	Bottom	3	2	27.1	7.97	27.6	6.53	8.27	11.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Surface	1	1	27.5	7.92	27.3	6.91	7.64	10.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Surface	1	2	27.4	7.9	27.2	6.93	7.69	10.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Bottom	3	1	27.4	7.87	27.4	6.74	7.84	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	IS(Mf)9	17:22	Bottom	3	2	27.4	7.88	27.3	6.71	7.95	10.8
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Surface	1	1	27.4	7.86	27.2	6.86	7.71	10.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Surface	1	2	27.3	7.87	27.1	6.88	7.78	10.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Middle	2	1	27.2	7.9	27.4	6.69	7.91	10.5
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Middle	2	2	27.3	7.93	27.3	6.67	7.83	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Bottom	3	1	27.1	7.89	27.5	6.54	8.12	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Flood	CS(Mf)3	17:47	Bottom	3	2	27	7.84	27.4	6.57	8.16	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Surface	1	1	27.4	8.06	27.1	6.94	8.24	11
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Surface	1	2	27.3	8.01	27.1	6.9	8.15	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Middle	2	1	27.3	7.97	27.1	6.83	8.04	10.8
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Middle	2	2	27.3	8.02	27.2	6.81	8.12	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Bottom	3	1	27.1	8.06	27.4	6.67	8.56	11.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)5	12:15	Bottom	3	2	27.1	8	27.4	6.64	8.61	11.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Surface	1	1	27.4	7.98	27	6.83	8.04	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Surface	1	2	27.4	7.94	27.1	6.86	8.16	10.9
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Bottom	3	1	27.3	7.89	27.1	6.75	8.4	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4a	11:51	Bottom	3	2	27.3	7.93	27.2	6.71	8.34	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Surface	1	1	27.4	8.04	27.2	6.82	7.85	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Surface	1	2	27.4	7.98	27.3	6.79	7.92	10.5
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Bottom	3	1	27.4	7.99	27.3	6.68	8.3	11
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	SR4	11:34	Bottom	3	2	27.3	8.01	27.3	6.64	8.39	11.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Surface	1	1	27.4	8.08	27.2	6.74	8.05	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Surface	1	2	27.4	8.05	27.2	6.71	7.94	10.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Bottom	3	1	27.3	7.96	27.2	6.59	8.28	11.2
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS8	11:16	Bottom	3	2	27.3	8	27.3	6.63	8.35	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Surface	1	1	27.4	8.04	27.1	6.8	7.95	10.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Surface	1	2	27.3	8.01	27.2	6.77	7.89	10.5
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Middle	2	1	27.3	7.98	27.2	6.68	8.12	10.8
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Middle	2	2	27.3	7.96	27.2	6.65	8.05	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Bottom	3	1	27.1	7.93	27.4	6.53	8.4	11.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)16	10:55	Bottom	3	2	27	7.97	27.5	6.48	8.47	11.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Surface	1	1	27.4	7.94	27.1	6.76	7.94	10.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Surface	1	2	27.4	7.97	27.1	6.77	8.01	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Bottom	3	1	27.4	7.93	27.2	6.59	8.3	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	IS(Mf)9	10:37	Bottom	3	2	27.3	7.97	27.3	6.61	8.22	11.1
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Surface	1	1	27.3	7.98	27	6.84	7.84	10.4
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Surface	1	2	27.4	8.04	27.1	6.81	7.76	10.3
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Middle	2	1	27.2	8.08	27.1	6.76	7.99	10.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Middle	2	2	27.3	8.02	27.2	6.72	8.04	10.7
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Bottom	3	1	27	7.95	27.3	6.43	8.56	11.6
TMCLKL	HY/2012/07	2016-10-27	Mid-Ebb	CS(Mf)3	10:13	Bottom	3	2	27	7.99	27.4	6.48	8.61	11.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Surface	1	1	27.5	7.89	27.2	7.17	7.17	9.5
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Surface	1	2	27.6	7.9	27.2	7.14	7.21	9.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Middle	2	1	27.3	7.92	27.4	7.08	7.54	10
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Middle	2	2	27.2	7.91	27.5	7.05	7.5	10
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Bottom	3	1	27.2	7.92	27.5	6.96	7.62	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)5	16:27	Bottom	3	2	27.2	7.92	27.6	6.93	7.66	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Surface	1	1	27.5	7.83	27.2	6.98	7.29	9.7
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Surface	1	2	27.5	7.84	27.3	6.95	7.26	9.7
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Bottom	3	1	27.3	7.88	27.4	6.78	7.55	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4a	16:48	Bottom	3	2	27.2	7.85	27.4	6.75	7.5	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Surface	1	1	27.3	7.85	27.2	6.94	6.94	9.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Surface	1	2	27.2	7.86	27.1	6.97	6.98	9.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Bottom	3	1	27.2	7.89	27.3	6.86	7.53	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	SR4	17:07	Bottom	3	2	27.2	7.89	27.3	6.82	7.56	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Surface	1	1	27.3	7.9	27.3	7.02	7.27	9.7
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Surface	1	2	27.4	7.91	27.4	7.06	7.24	9.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Bottom	3	1	27.3	7.87	27.4	6.76	7.67	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS8	17:24	Bottom	3	2	27.3	7.88	27.3	6.79	7.6	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Surface	1	1	27.4	7.92	27.2	7.17	7.39	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Surface	1	2	27.4	7.91	27.3	7.15	7.36	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Middle	2	1	27.2	7.88	27.5	7.03	7.58	10.1
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Middle	2	2	27.2	7.89	27.5	7.06	7.52	10
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Bottom	3	1	27.1	7.9	27.5	6.96	7.72	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)16	17:42	Bottom	3	2	27.2	7.91	27.4	6.93	7.76	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Surface	1	1	27.3	7.87	27.3	6.86	7.38	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Surface	1	2	27.2	7.88	27.2	6.89	7.34	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Bottom	3	1	27.2	7.93	27.3	6.8	7.59	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	IS(Mf)9	17:58	Bottom	3	2	27.2	7.92	27.4	6.76	7.55	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Surface	1	1	27.3	7.91	27.3	7.07	6.9	9.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Surface	1	2	27.3	7.91	27.3	7.09	6.96	9.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Middle	2	1	27.2	7.93	27.5	6.92	7.43	9.9
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Middle	2	2	27.2	7.92	27.4	6.95	7.4	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Bottom	3	1	27.1	7.93	27.6	6.97	7.71	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Flood	CS(Mf)3	18:13	Bottom	3	2	27	7.93	27.6	6.94	7.75	10.5
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Surface	1	1	27.4	7.96	27.3	7.04	17.32	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Surface	1	2	27.5	7.9	27.3	7	7.39	9.9
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Middle	2	1	27.4	7.89	27.3	7.02	7.26	9.7
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Middle	2	2	27.4	7.94	27.4	6.98	7.2	9.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Bottom	3	1	27.3	7.9	27.5	6.84	7.83	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)5	13:35	Bottom	3	2	27.3	7.86	27.5	6.81	7.91	10.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Surface	1	1	27.5	7.87	27.3	6.96	7.48	9.9
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Surface	1	2	27.5	7.91	27.3	6.91	7.54	10
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Bottom	3	1	27.4	7.83	27.3	6.87	7.63	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4a	13:12	Bottom	3	2	27.4	7.88	27.4	6.83	7.7	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Surface	1	1	27.4	7.88	27.4	6.9	7.69	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Surface	1	2	27.5	7.93	27.3	6.85	7.6	10.1
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Bottom	3	1	27.5	7.9	27.5	6.8	7.77	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	SR4	12:55	Bottom	3	2	27.6	7.96	27.4	6.77	7.81	10.4
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Surface	1	1	27.5	7.89	27.4	6.86	7.64	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Surface	1	2	27.5	7.94	27.4	6.83	7.56	10.1
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Bottom	3	1	27.5	7.96	27.4	6.7	7.83	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS8	12:40	Bottom	3	2	27.4	7.9	27.5	6.74	7.89	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Surface	1	1	27.5	7.96	27.3	6.94	7.75	10.3
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Surface	1	2	27.5	7.99	27.4	6.9	7.7	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Middle	2	1	27.5	7.84	27.4	6.81	7.64	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Middle	2	2	27.4	7.88	27.4	6.78	7.58	10.1
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Bottom	3	1	27.3	7.85	27.8	6.64	8.04	10.9
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)16	12:18	Bottom	3	2	27.3	7.9	27.6	6.61	7.91	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Surface	1	1	27.4	7.99	27.2	6.89	7.64	10.2
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Surface	1	2	27.5	8.03	27.3	6.92	7.6	10.1
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Middle	2	1						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Middle	2	2						
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Bottom	3	1	27.4	8.01	27.3	6.76	7.89	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	IS(Mf)9	11:59	Bottom	3	2	27.4	8.05	27.3	6.7	7.8	10.5
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Surface	1	1	27.5	8.07	27.2	6.97	7.4	9.8
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Surface	1	2	27.4	8.01	27.2	6.94	7.48	9.9
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Middle	2	1	27.4	7.94	27.2	6.99	7.26	9.7
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Middle	2	2	27.4	7.99	27.3	7.02	7.19	9.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Bottom	3	1	27.3	7.89	27.5	6.75	7.84	10.6
TMCLKL	HY/2012/07	2016-10-29	Mid-Ebb	CS(Mf)3	11:35	Bottom	3	2	27.2	7.93	27.6	6.72	7.92	10.8



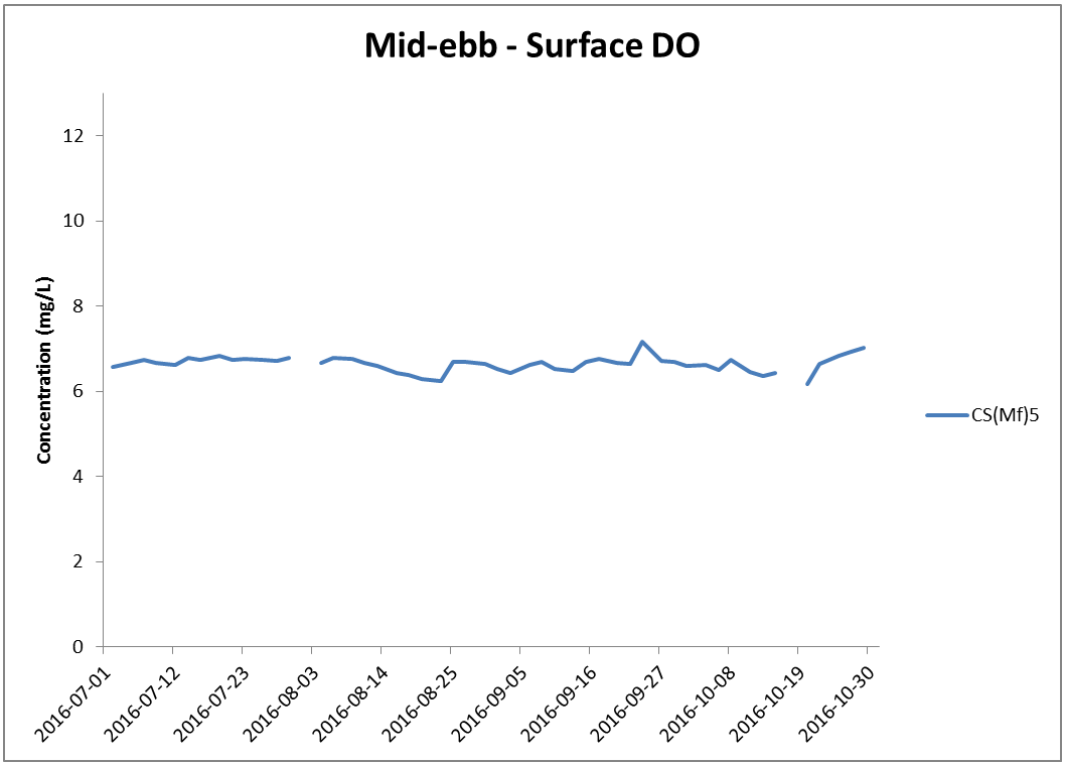
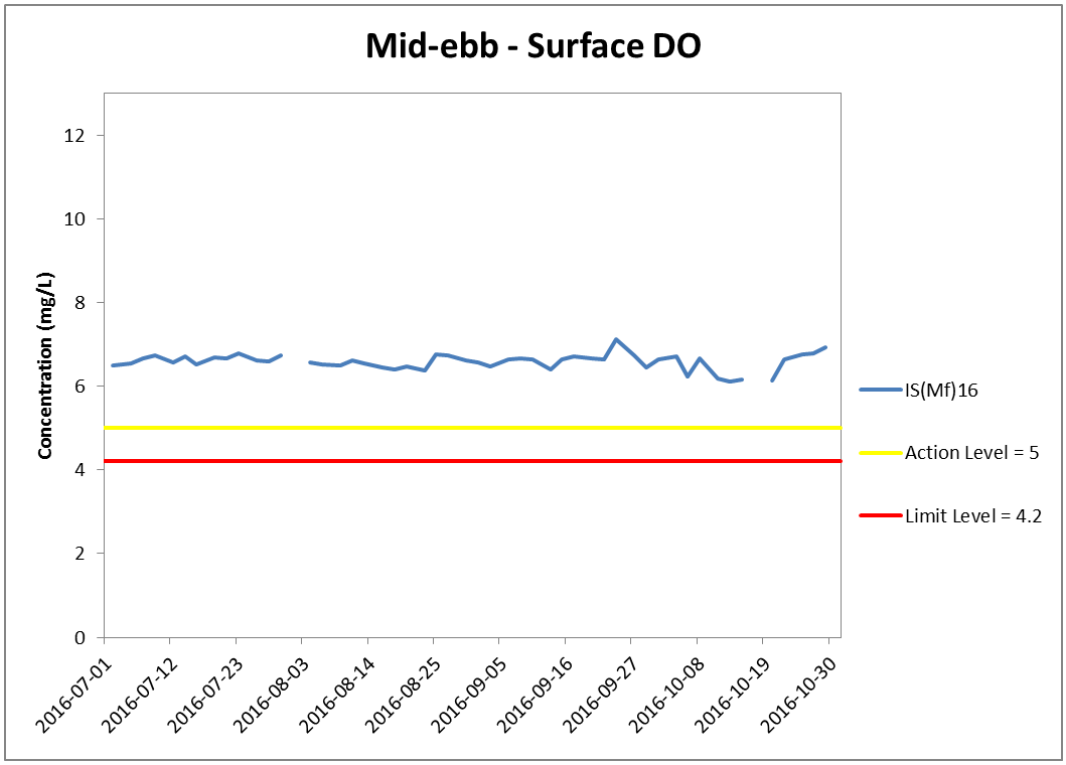


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



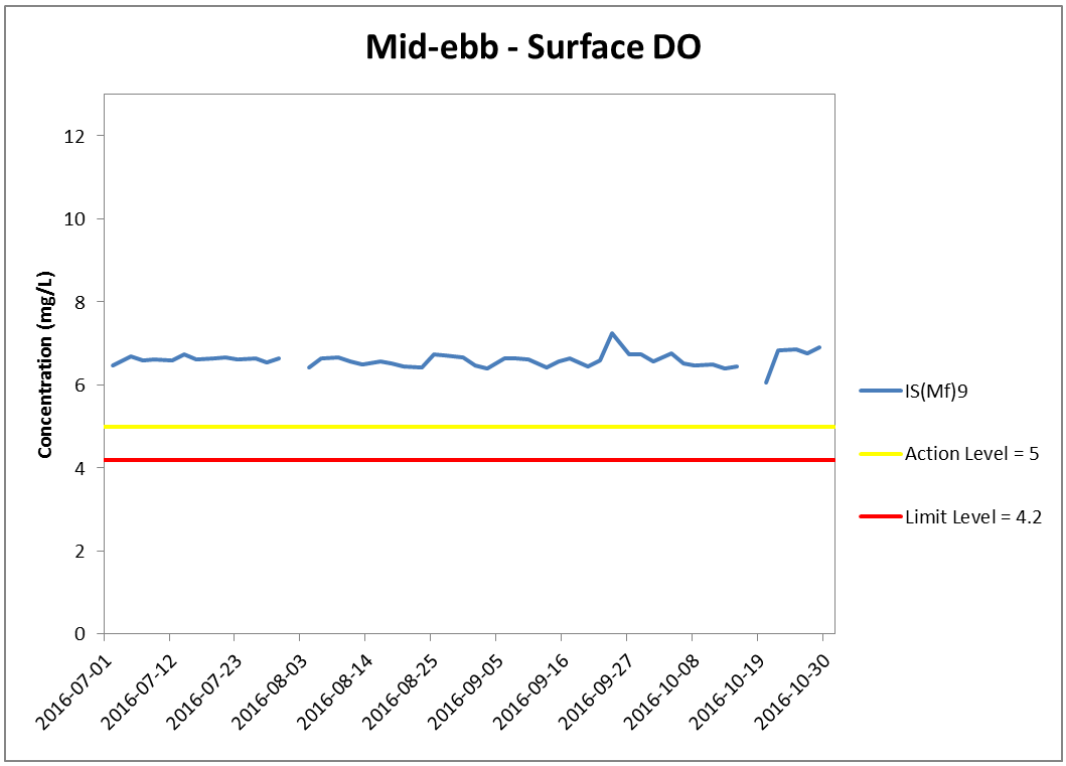
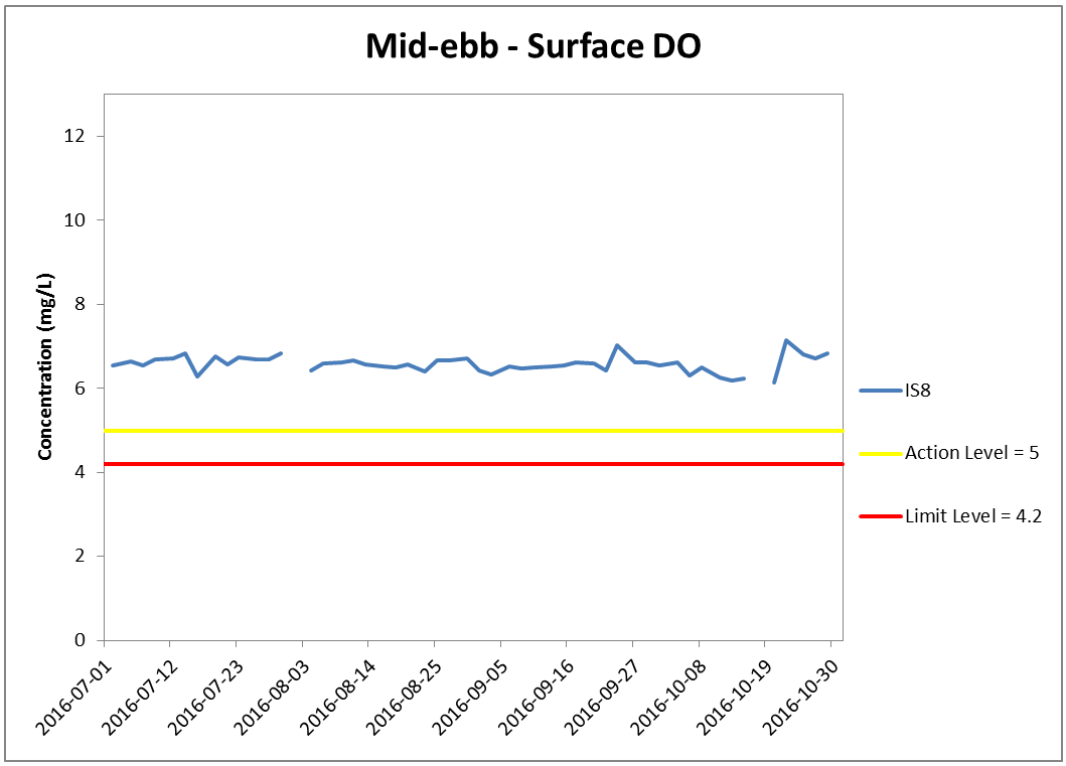


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



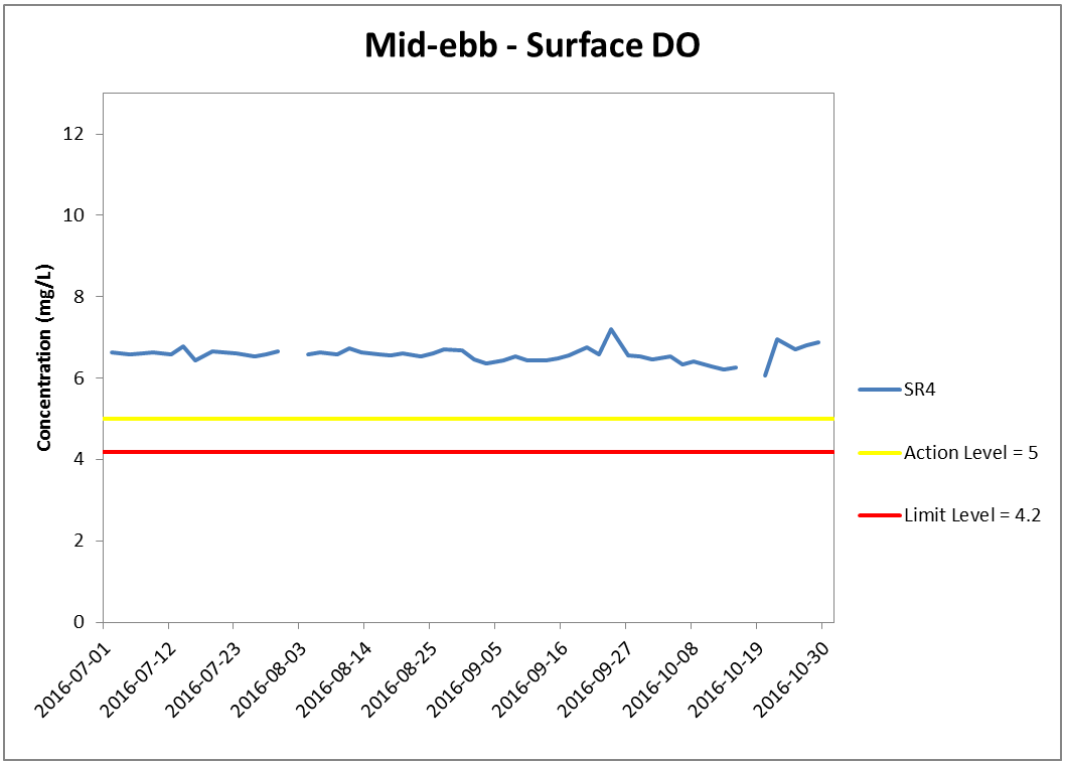


Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

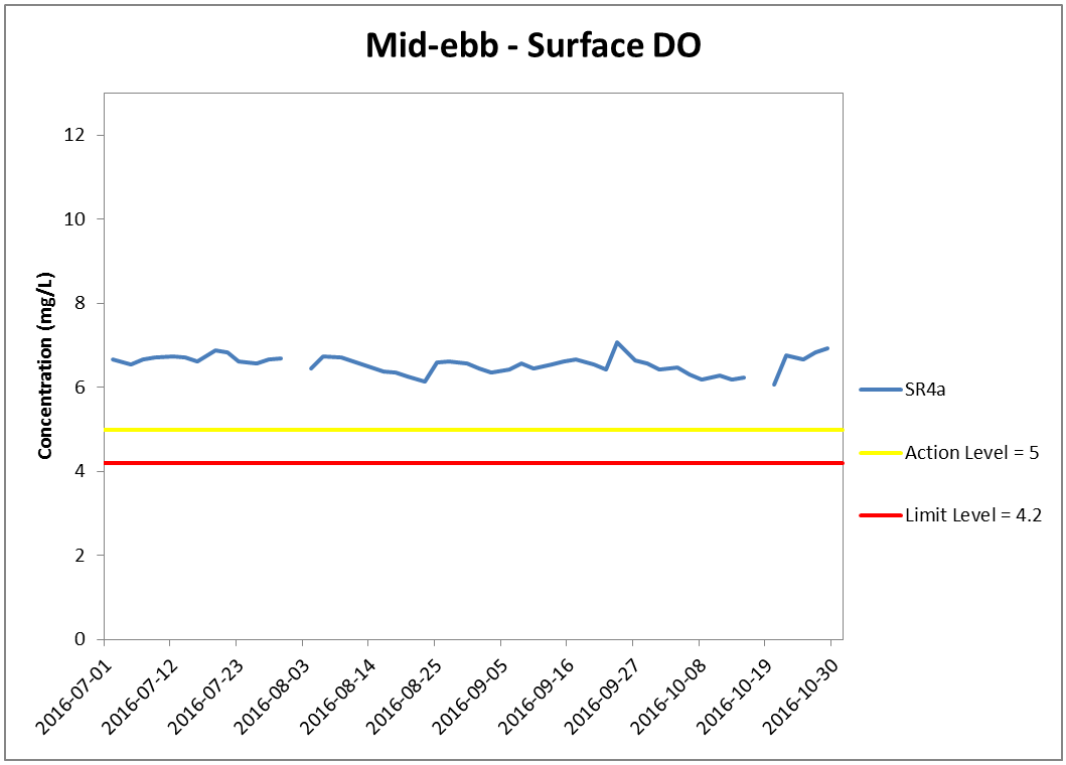
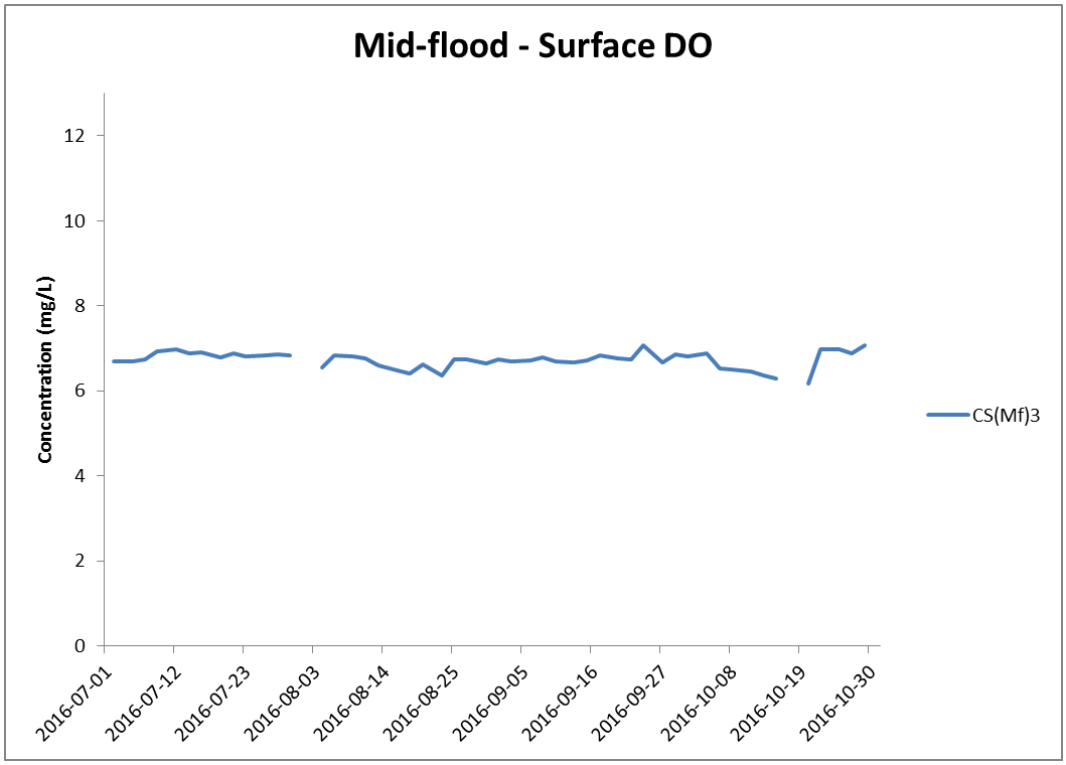


Figure J4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



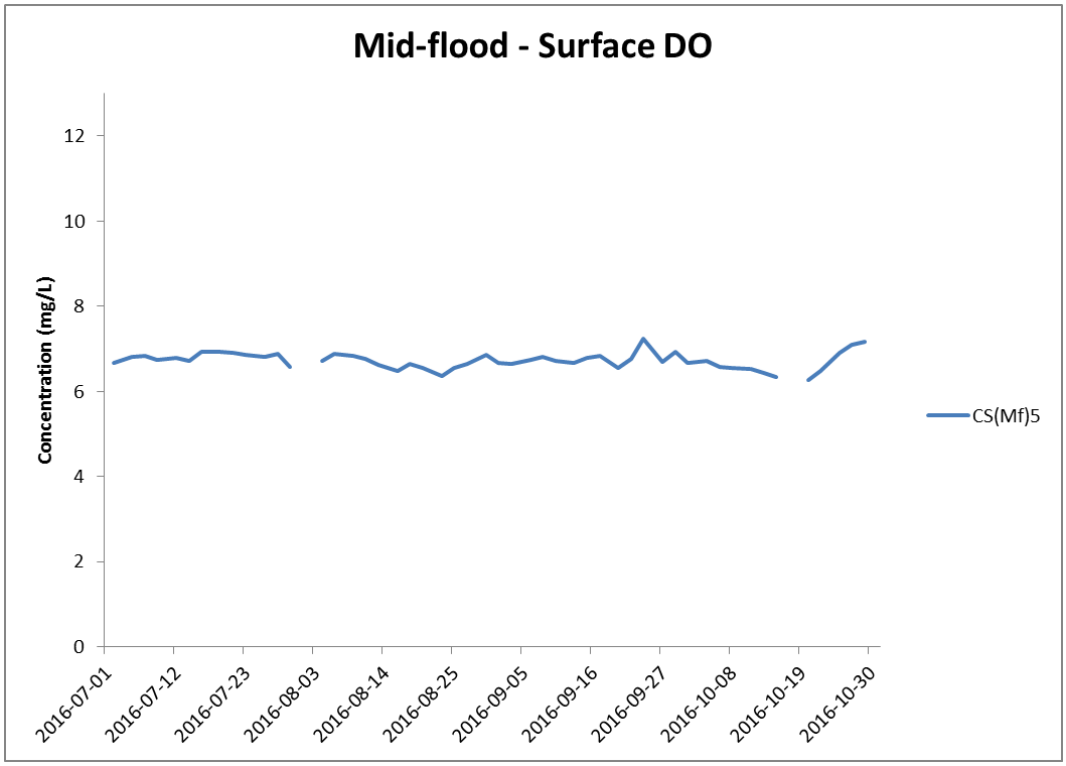
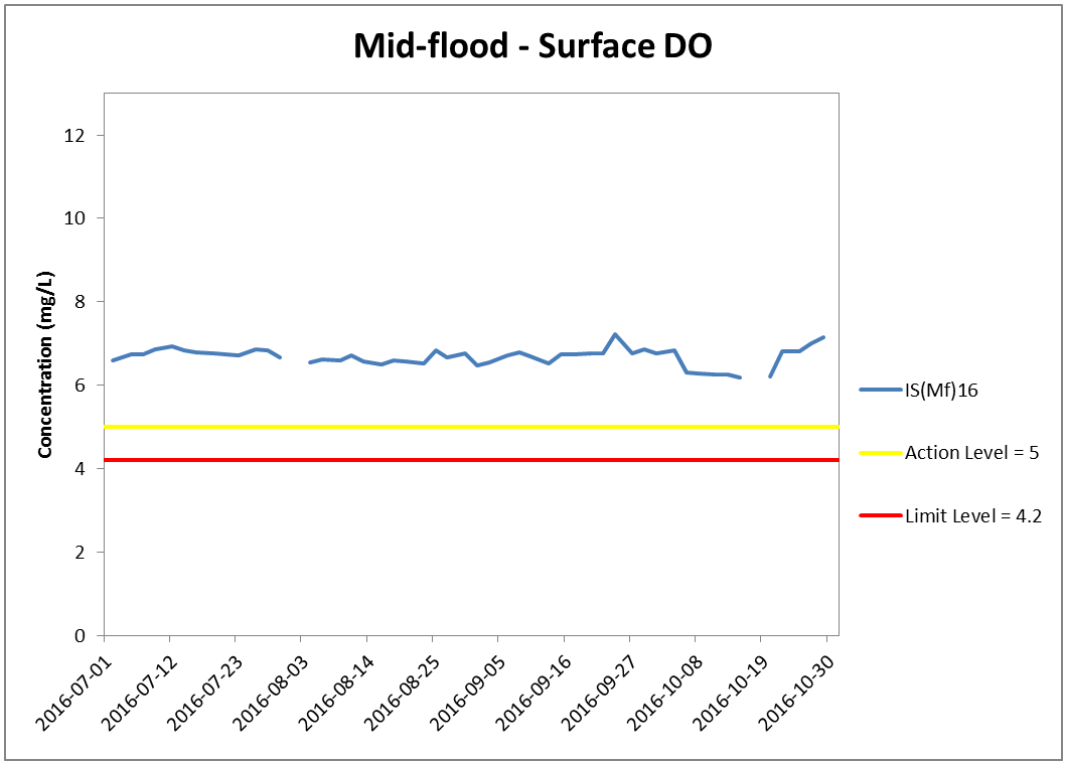


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



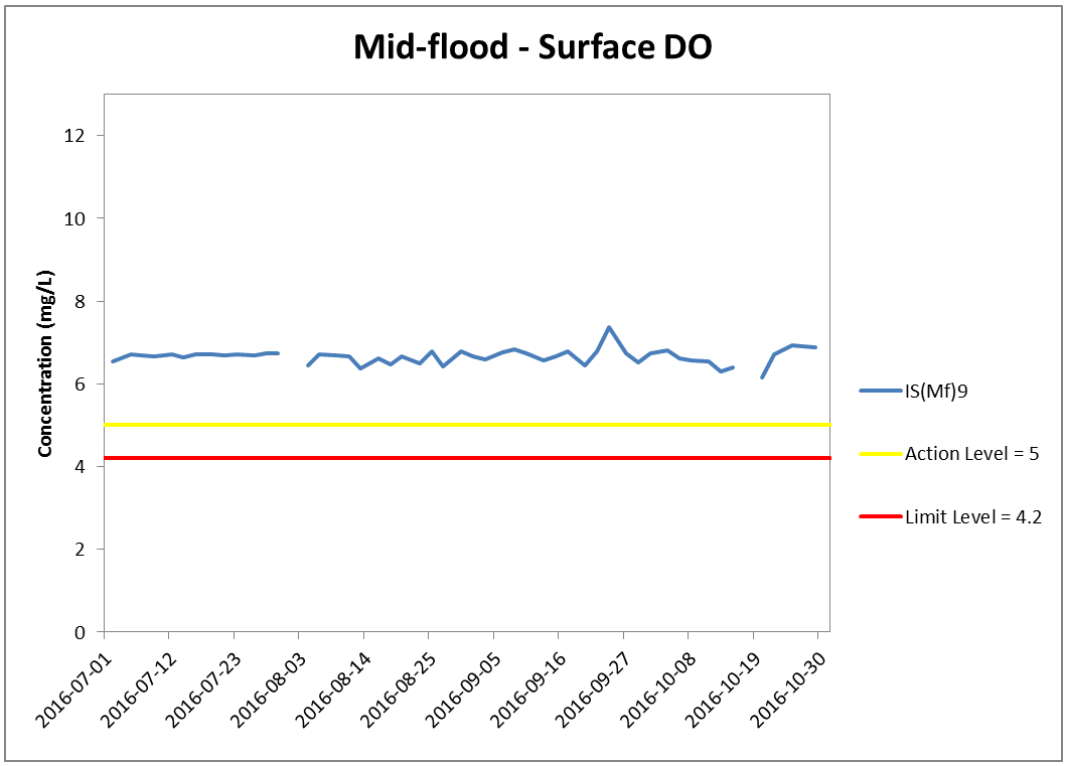
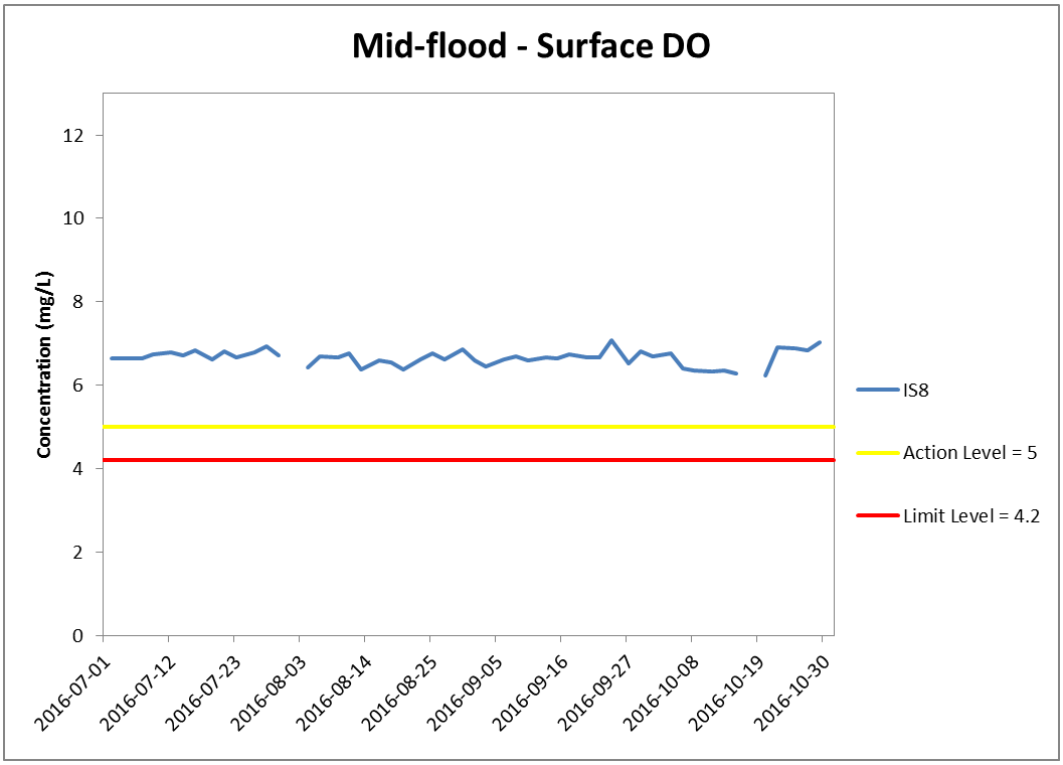


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.)
WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



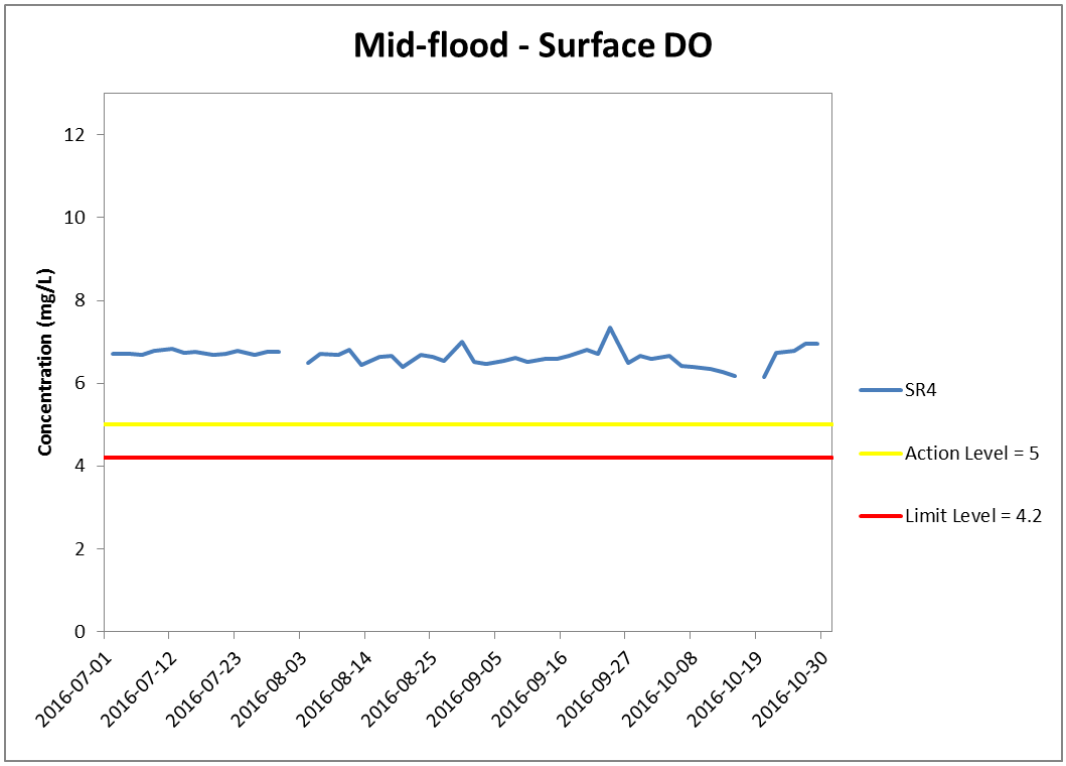


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

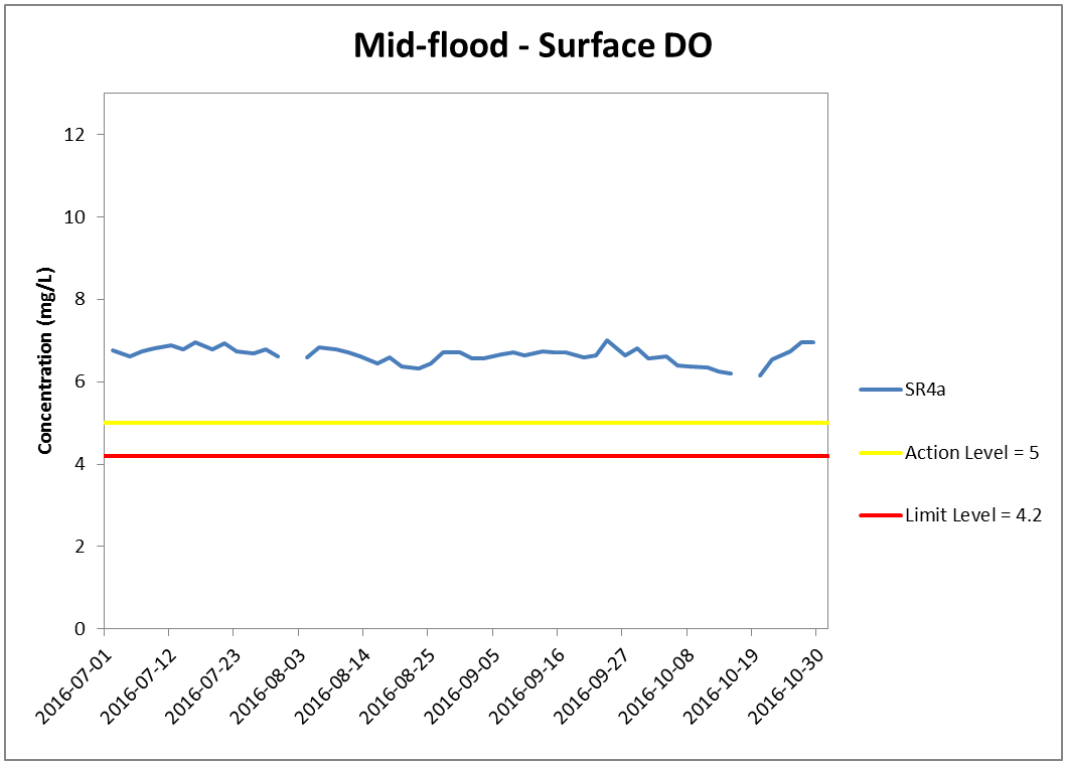
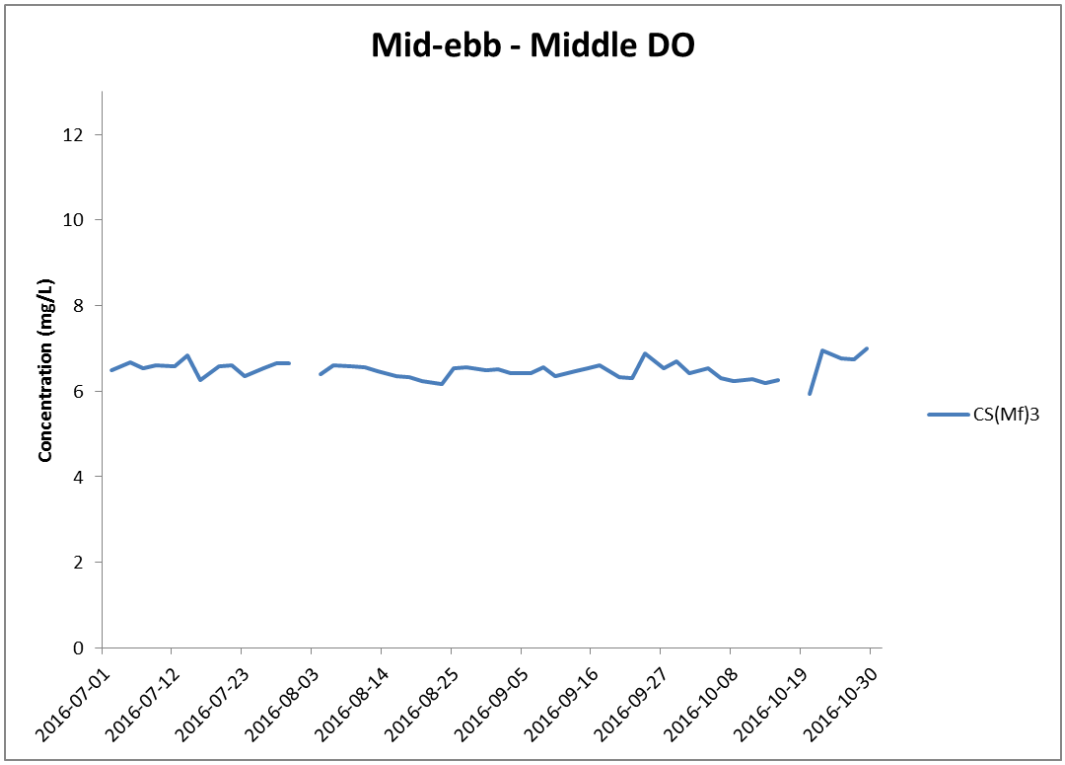


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



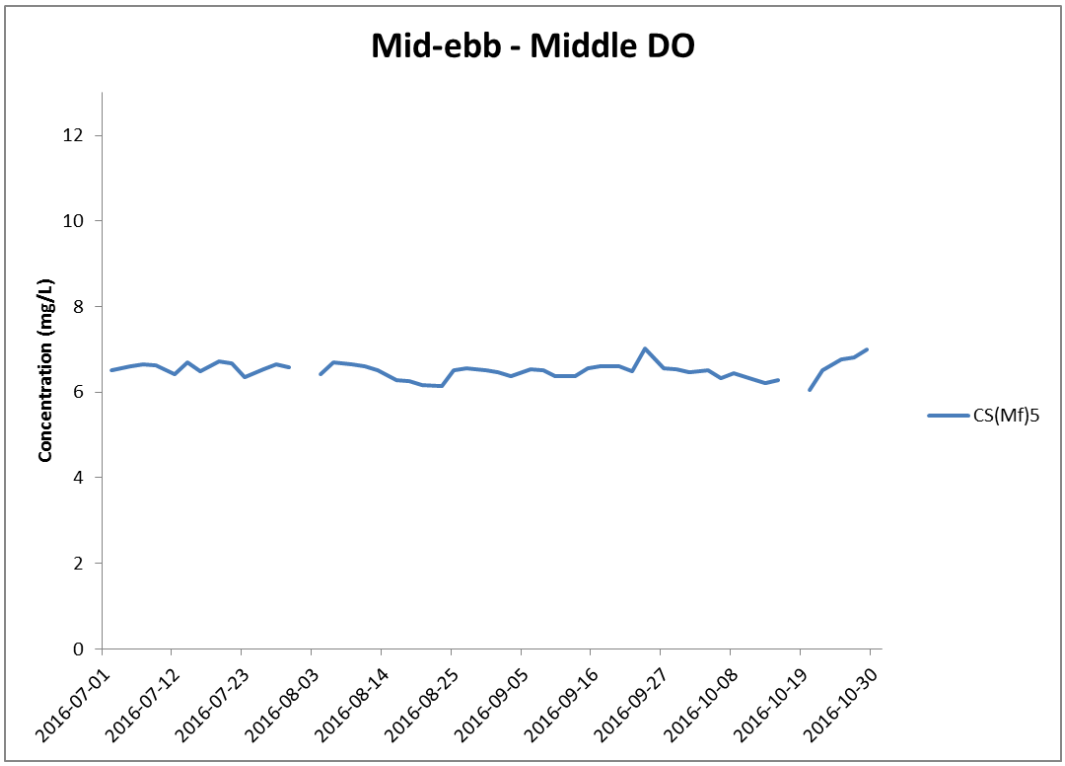


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

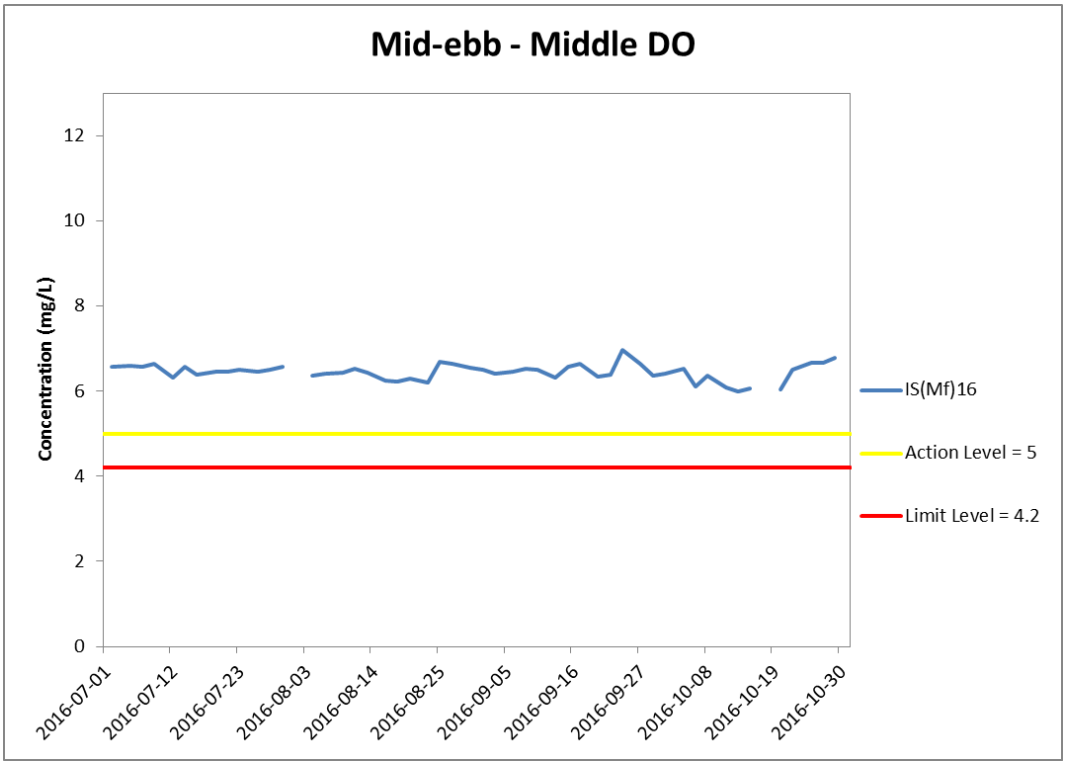
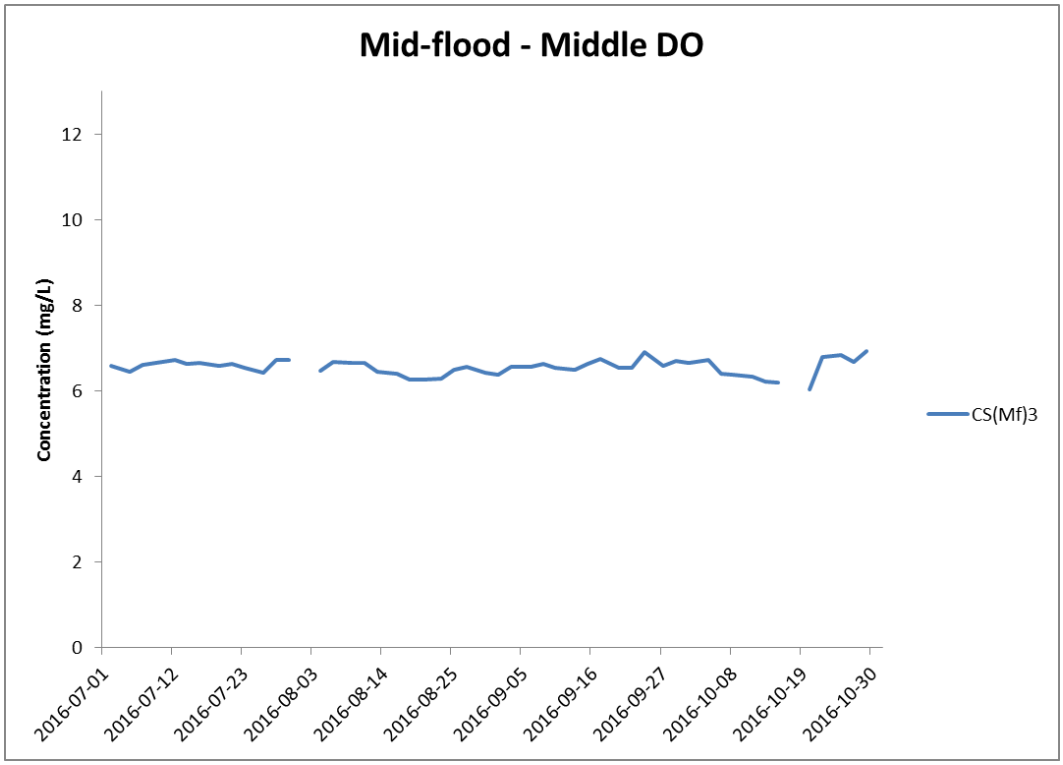


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 July and 31 October 2016 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



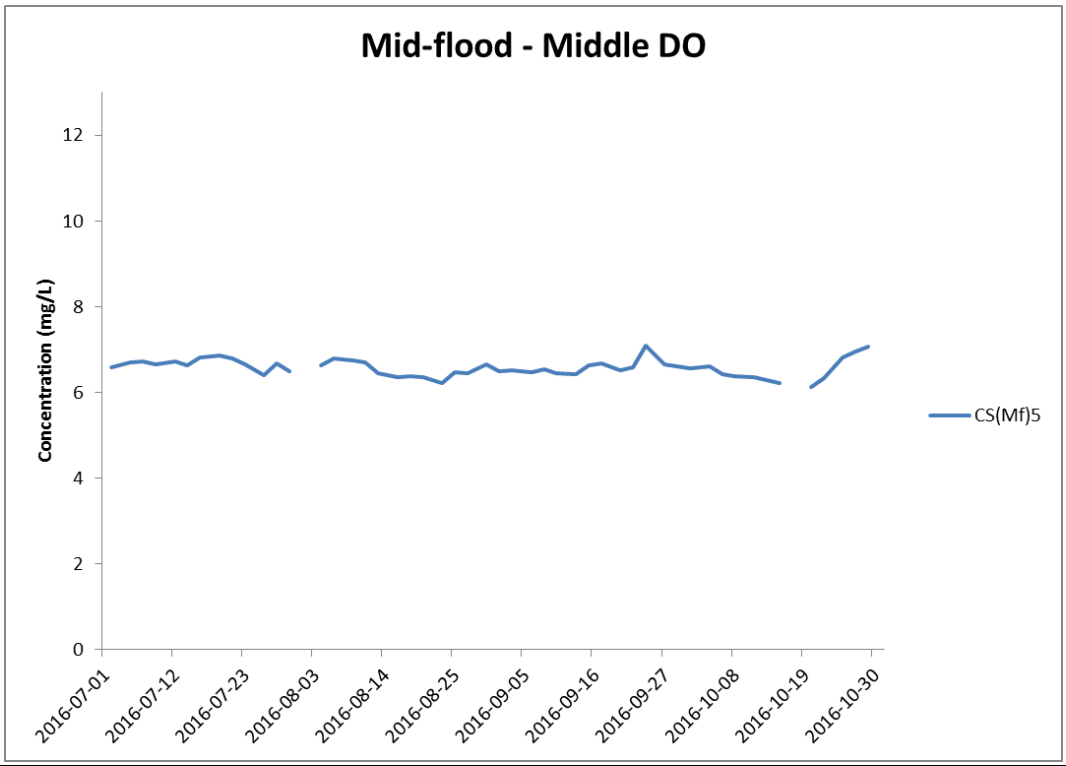


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

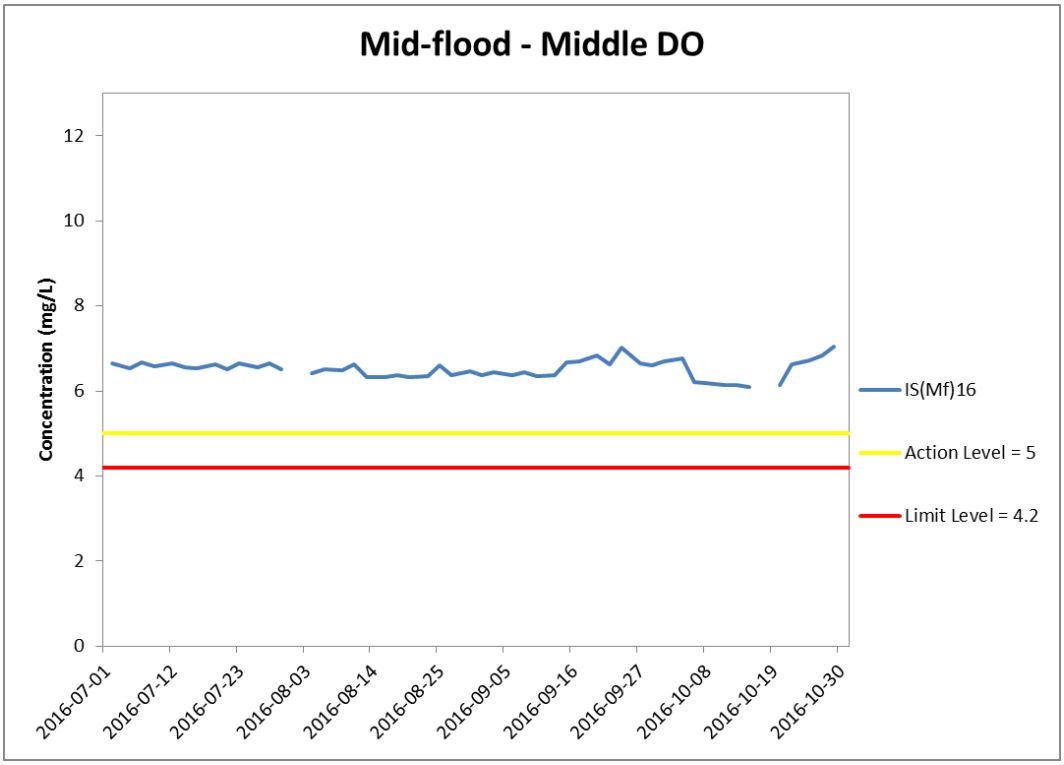
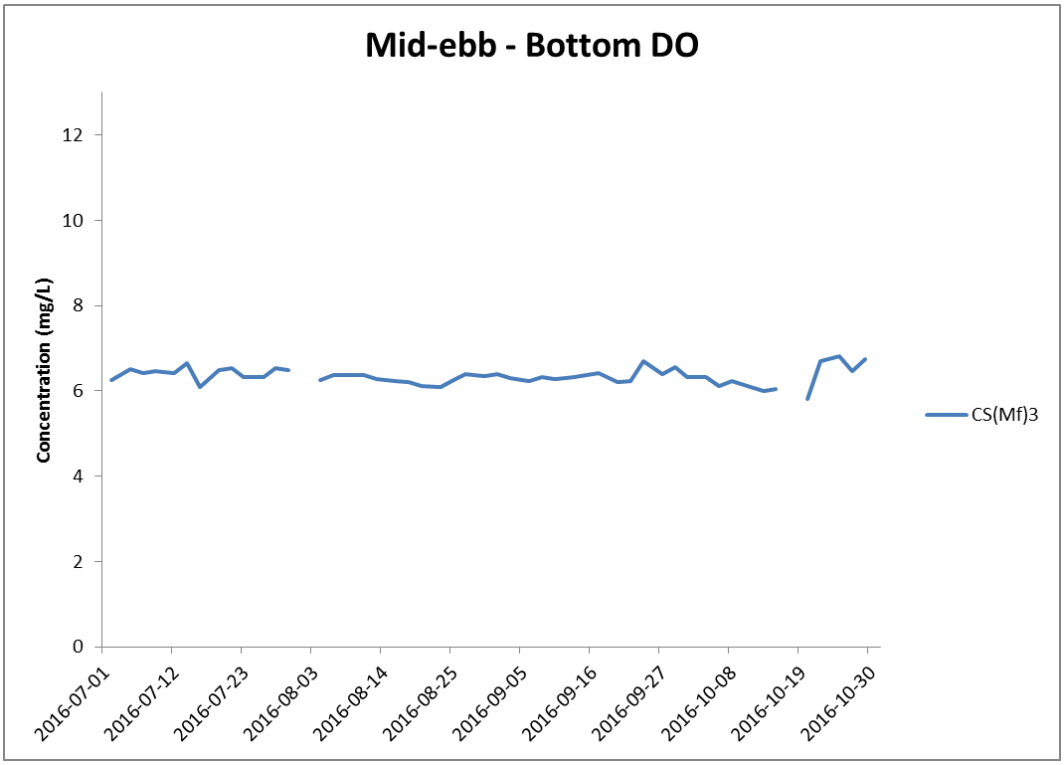


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 July and 31 October 2016 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



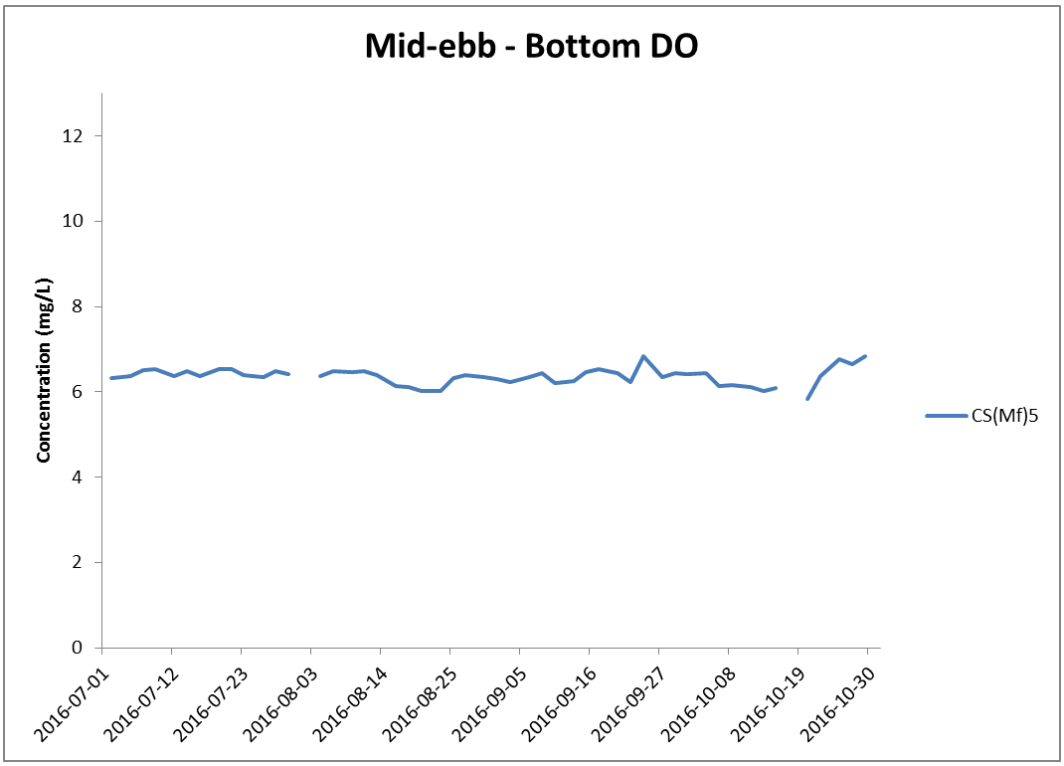
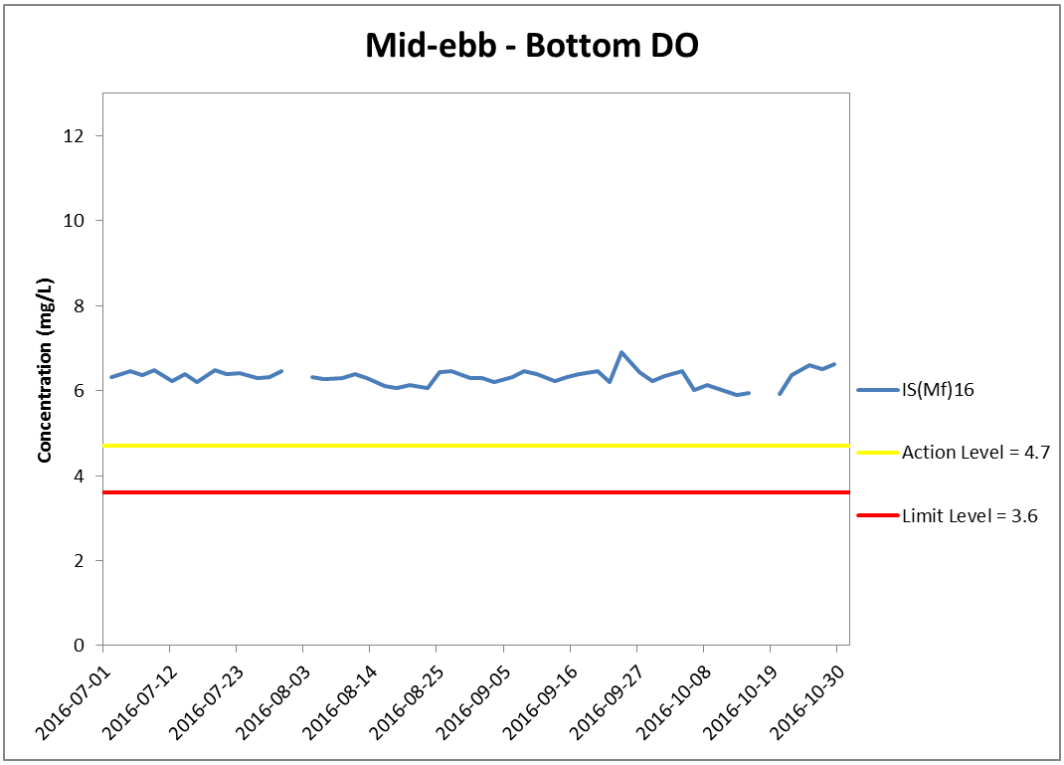


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



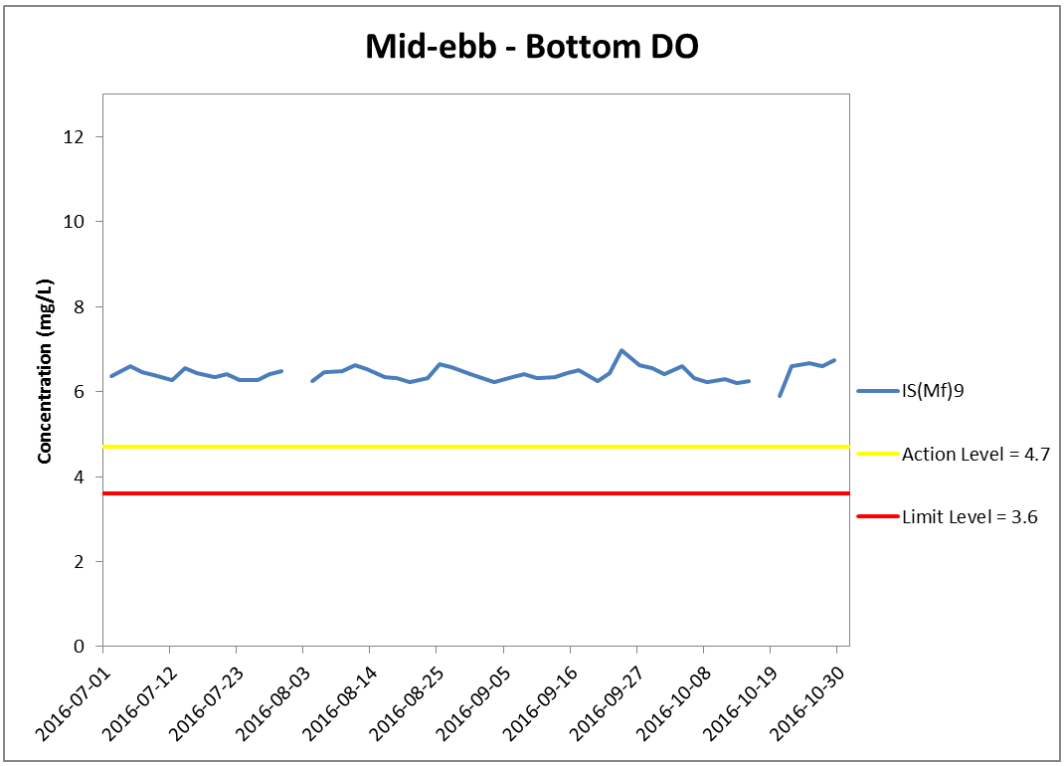
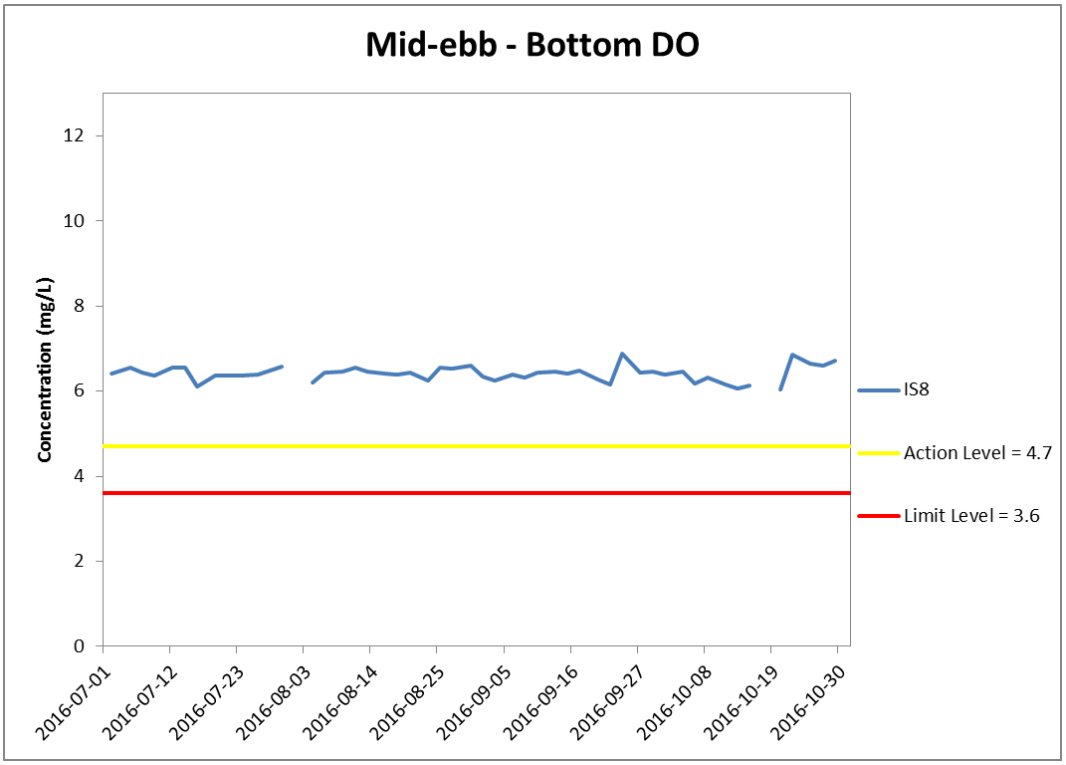


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



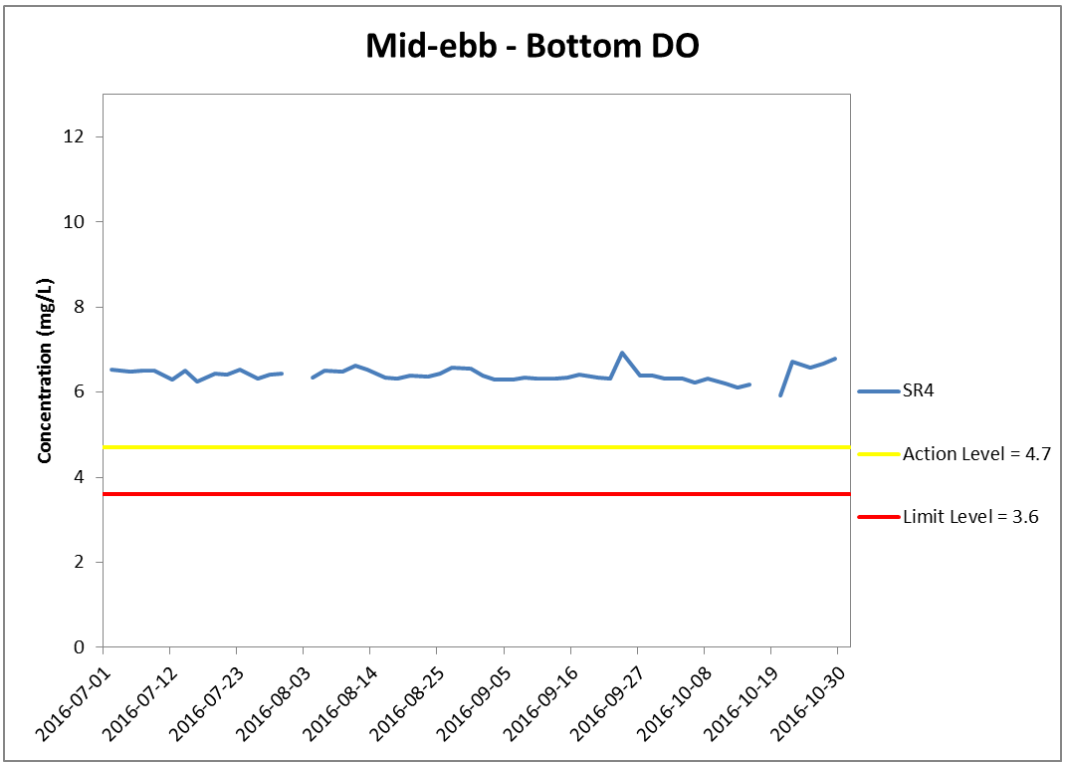


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

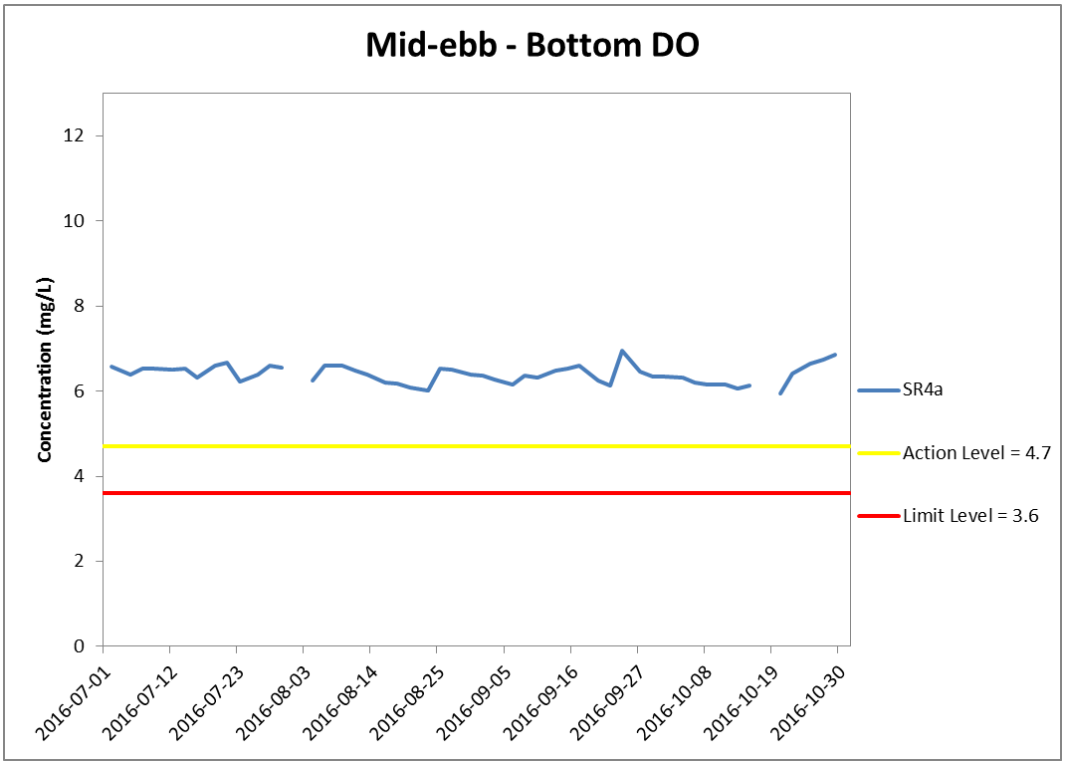
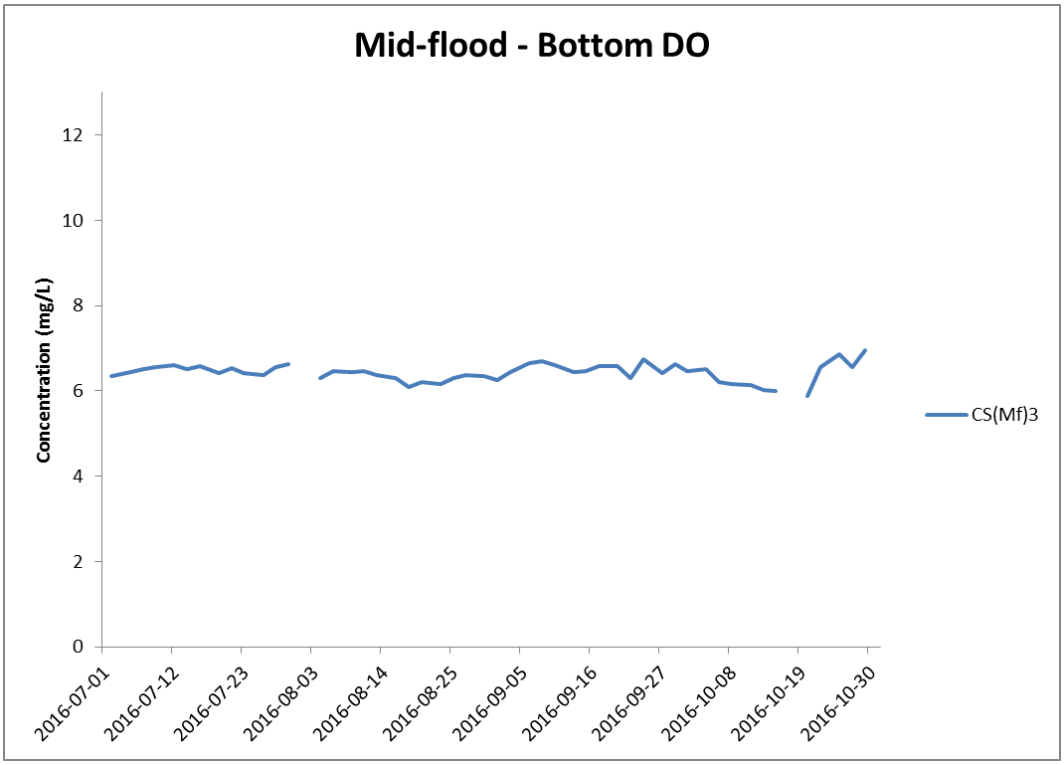


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



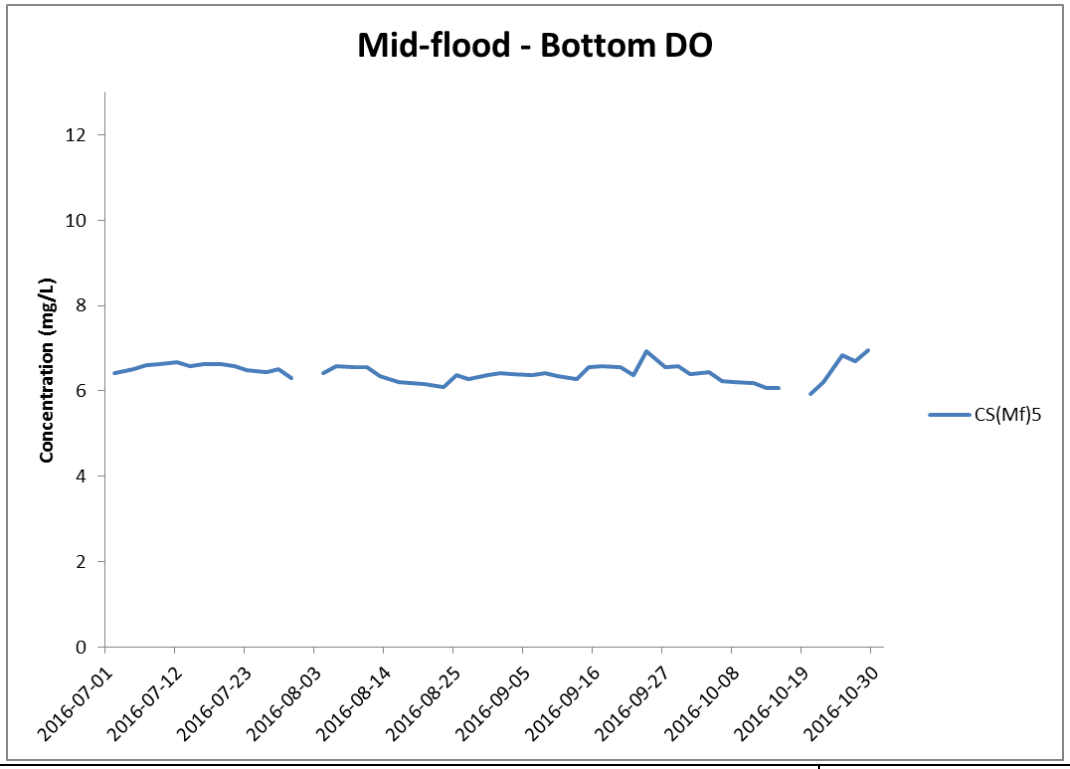
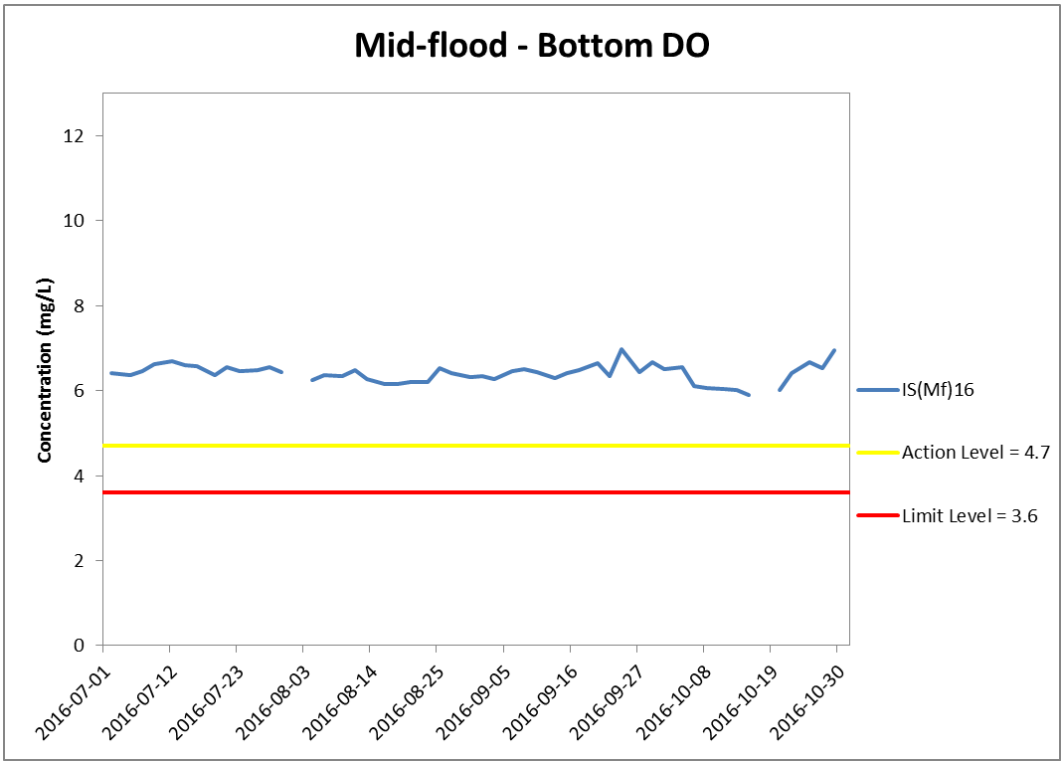


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



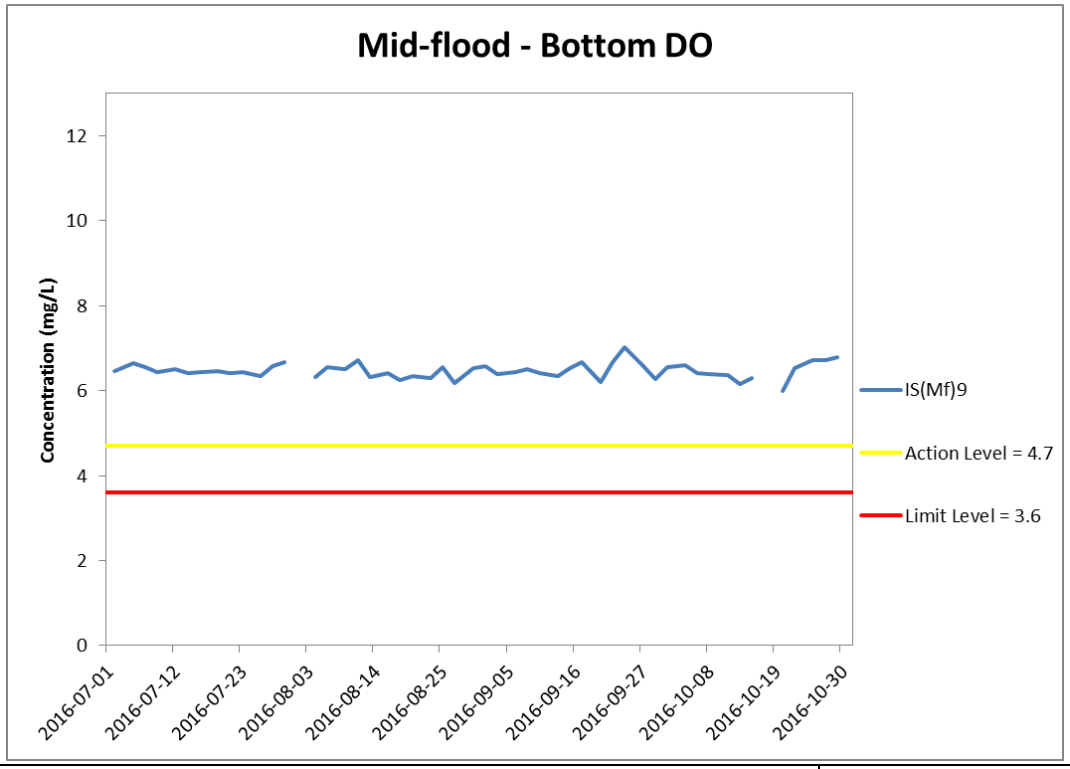
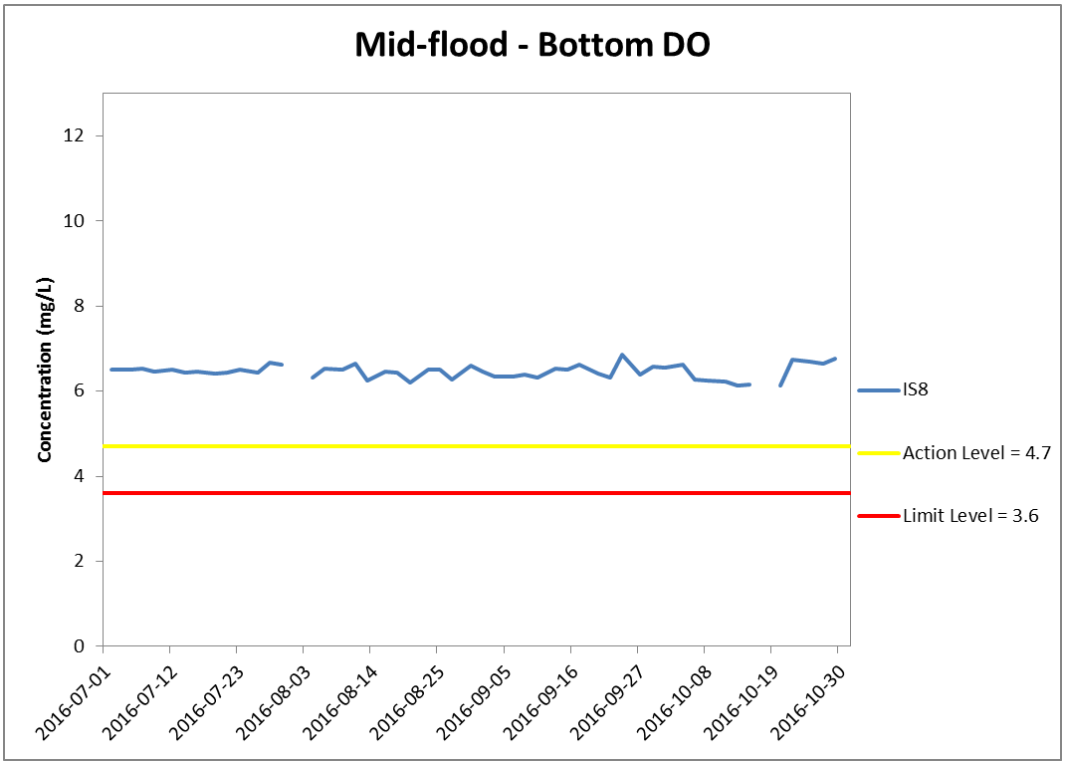


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



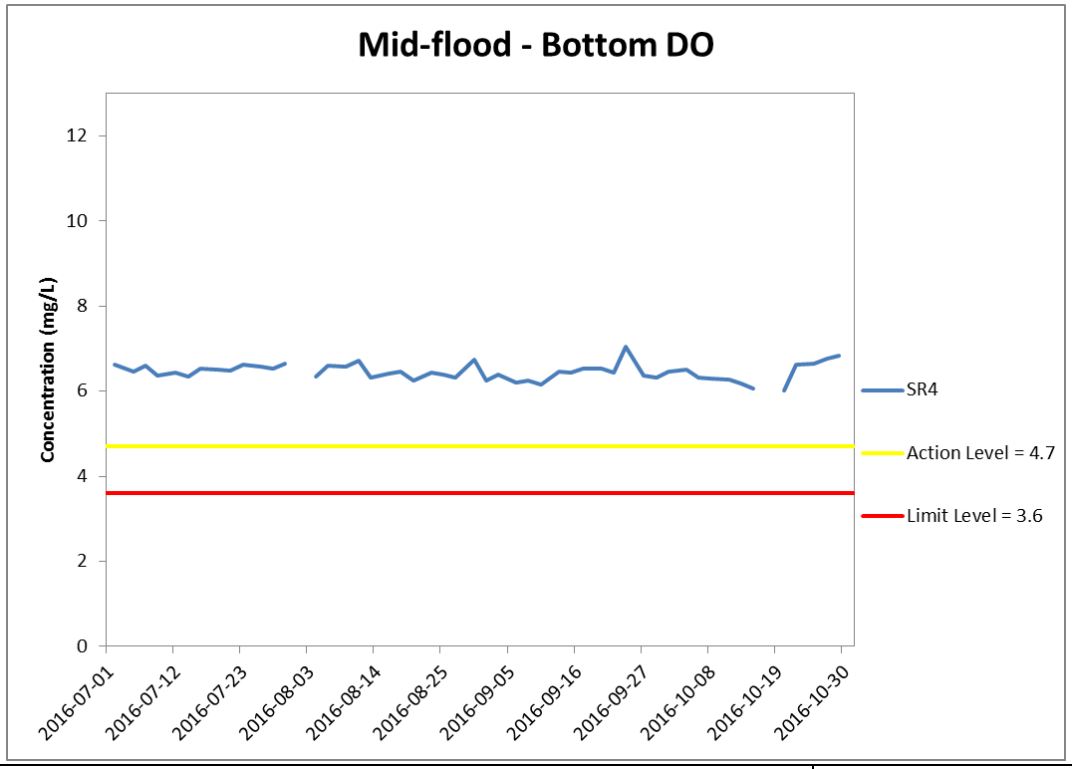


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

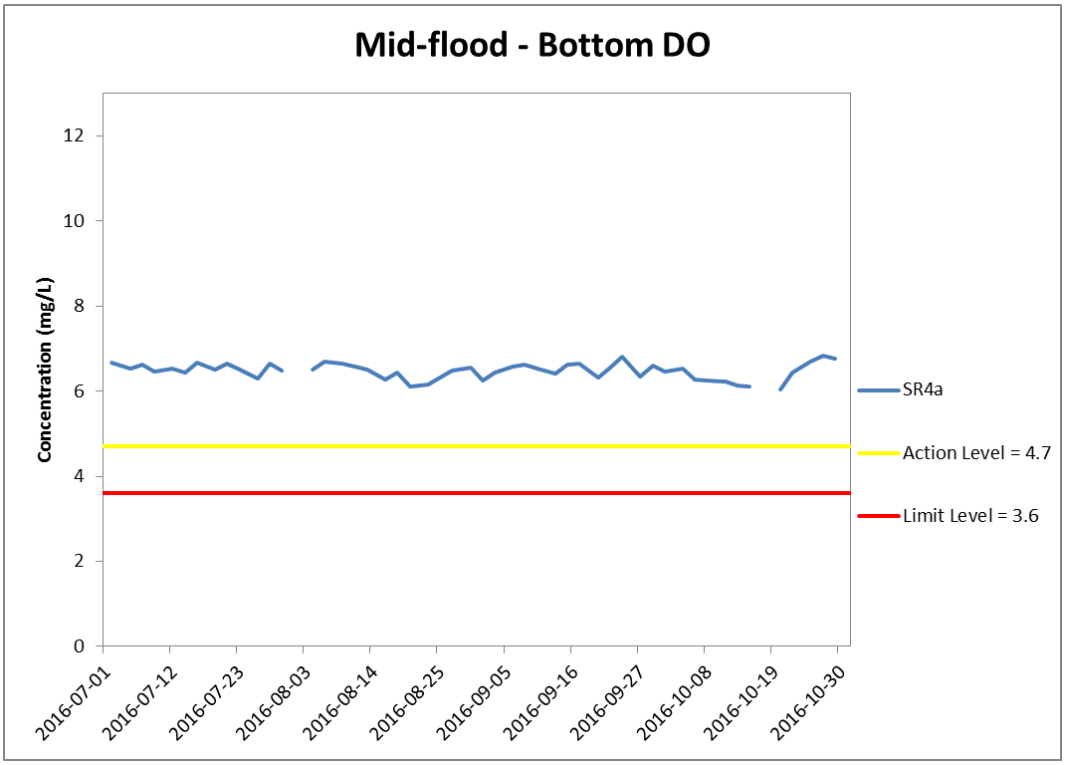
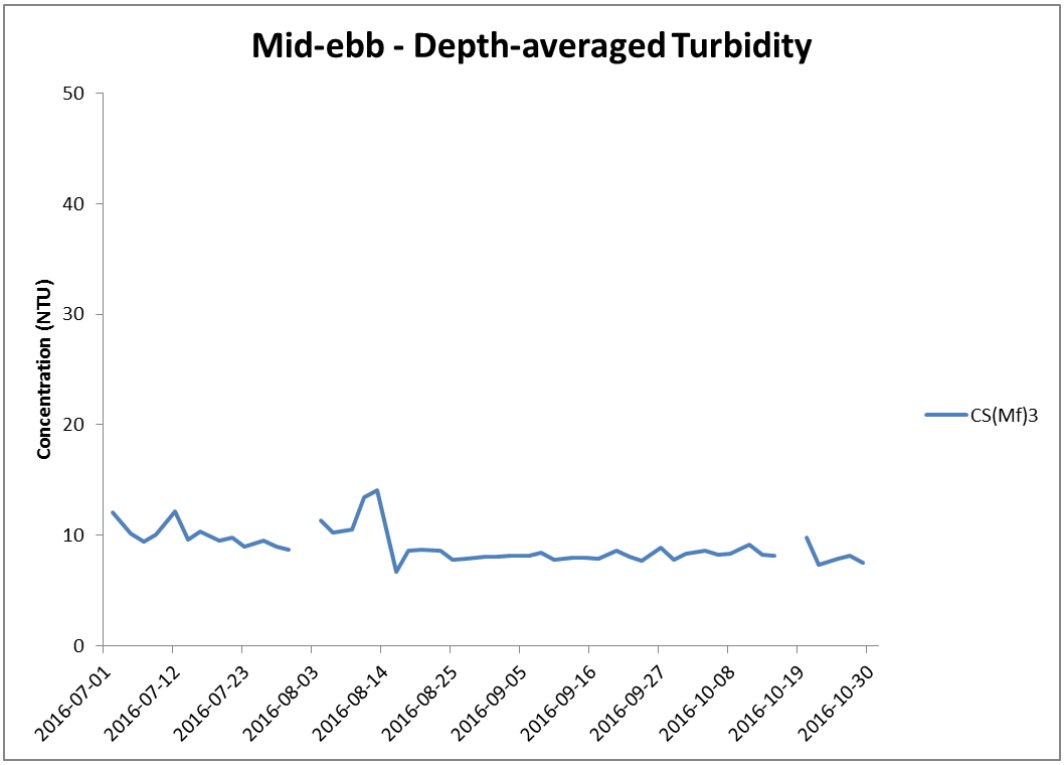


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



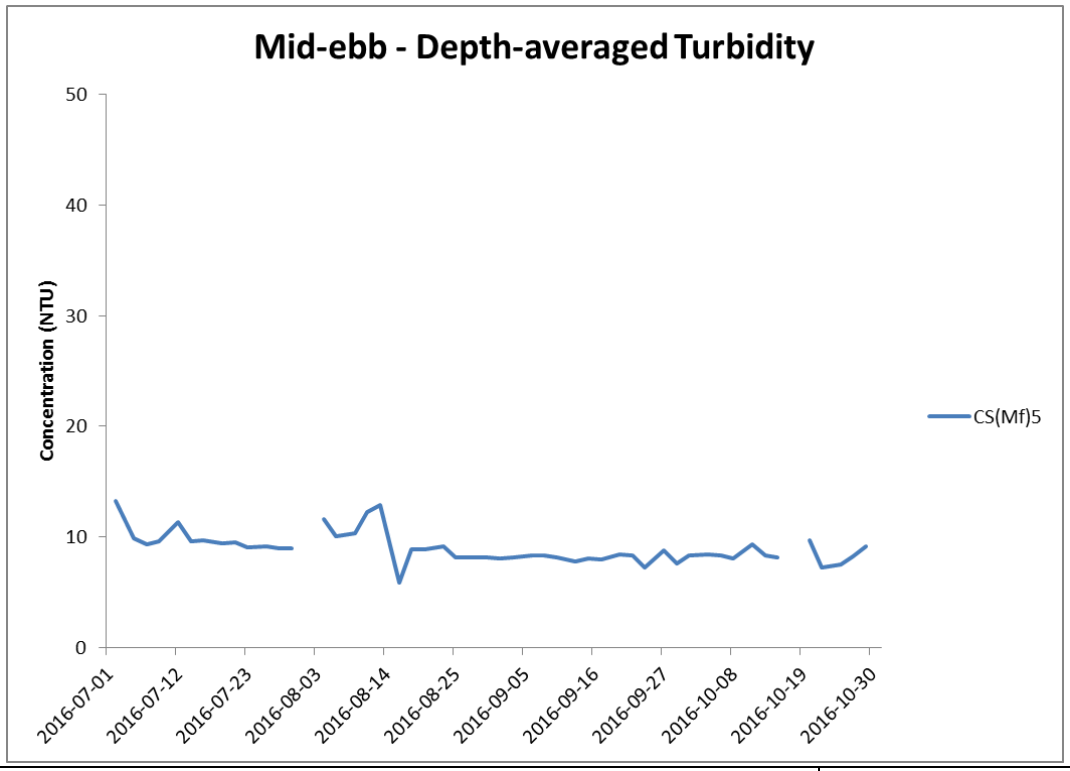
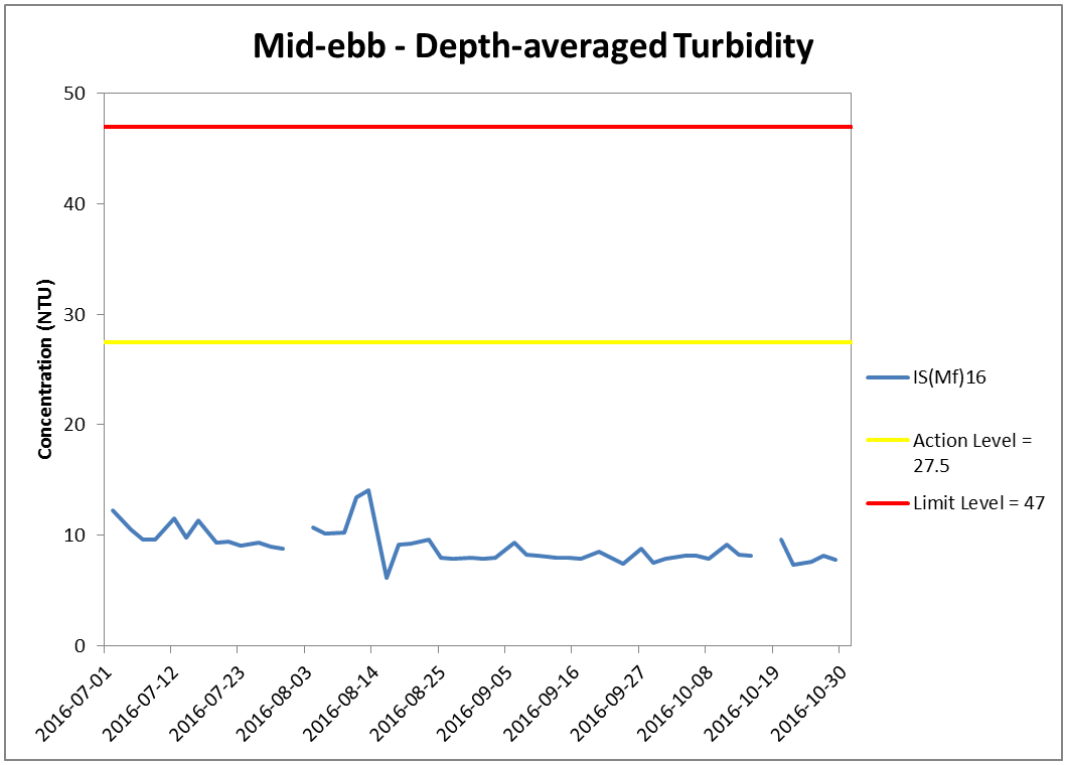


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



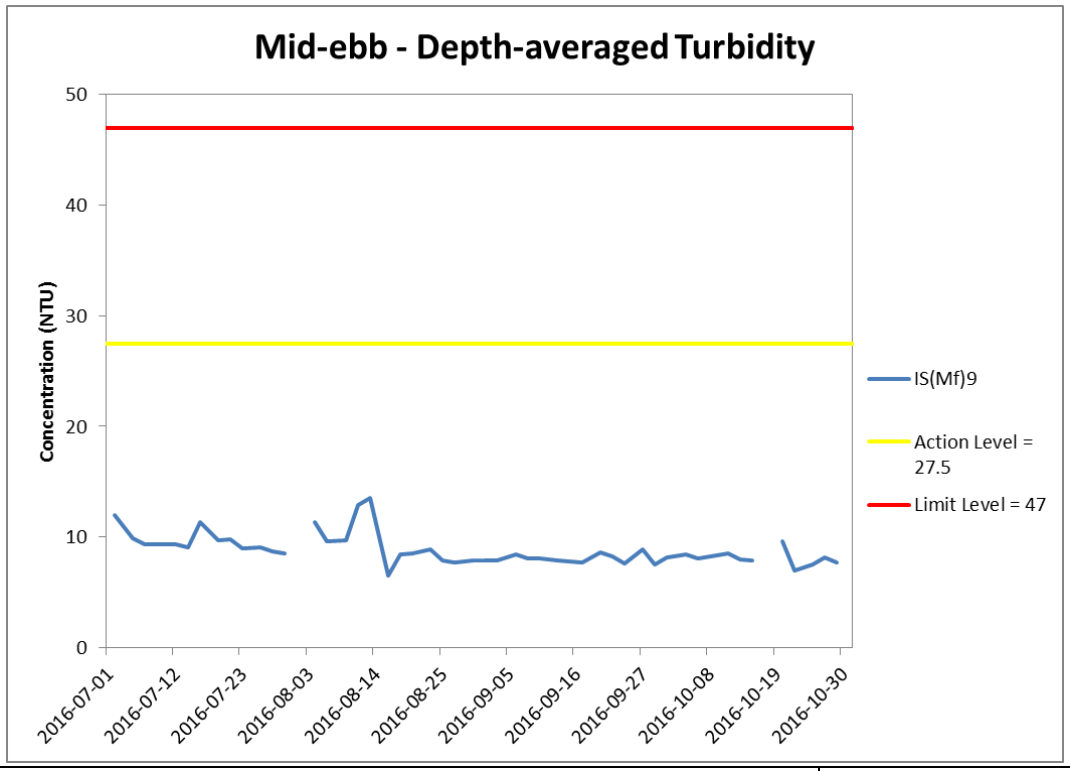
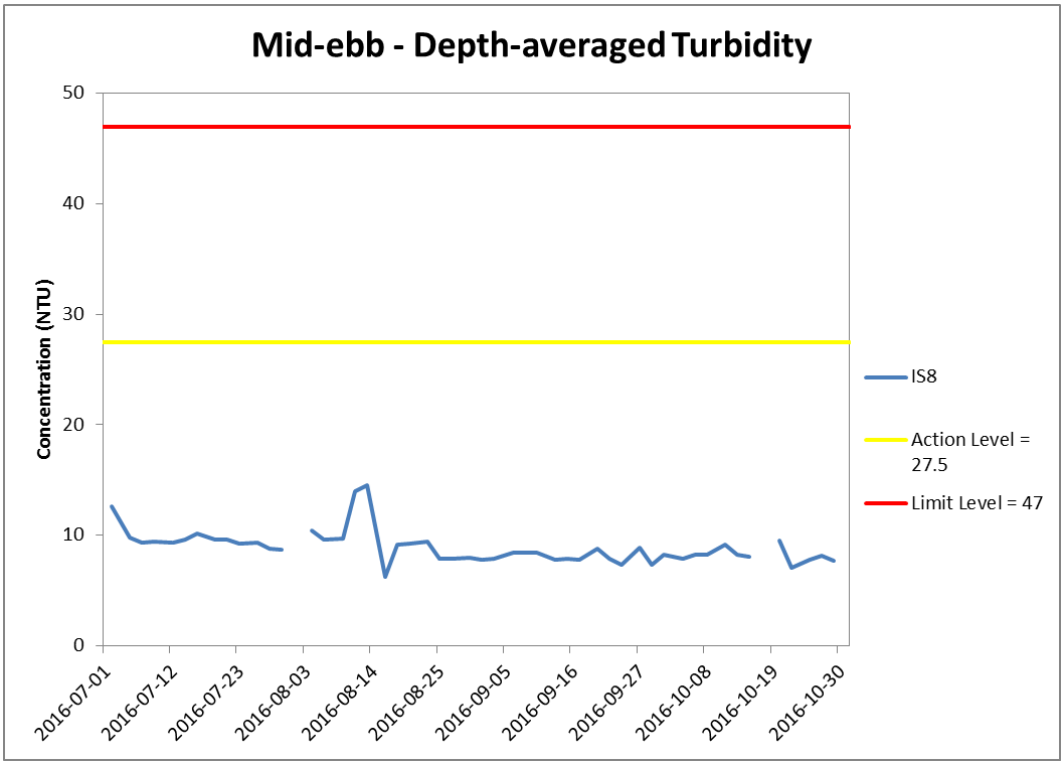


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



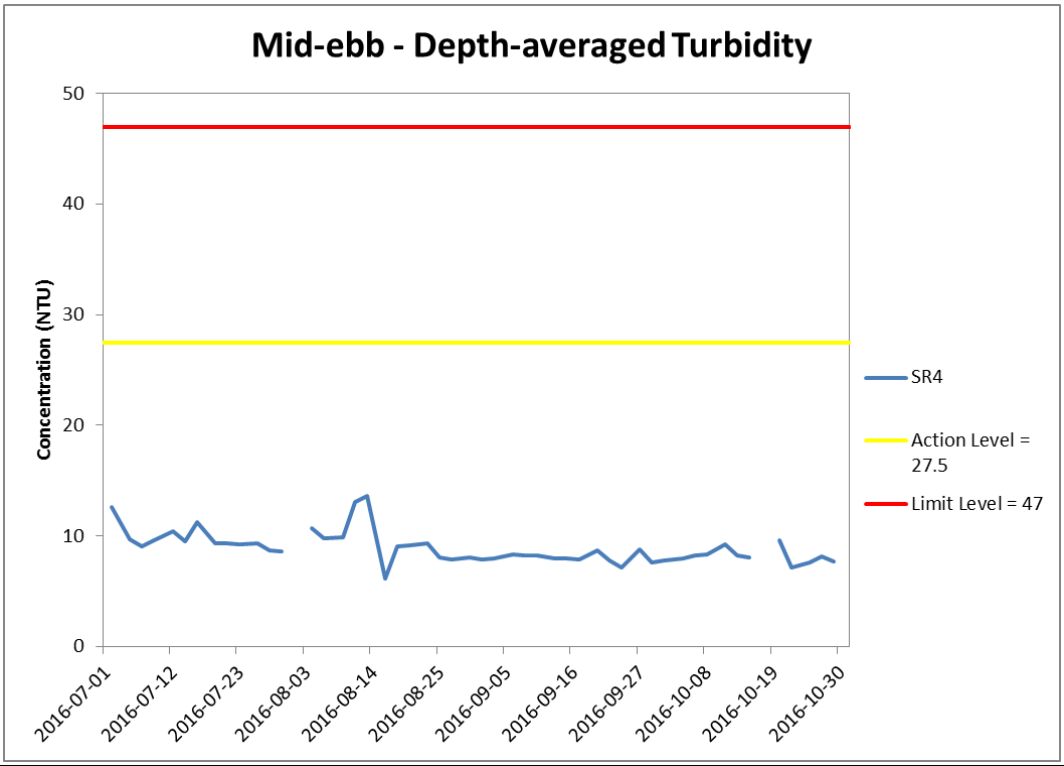


Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

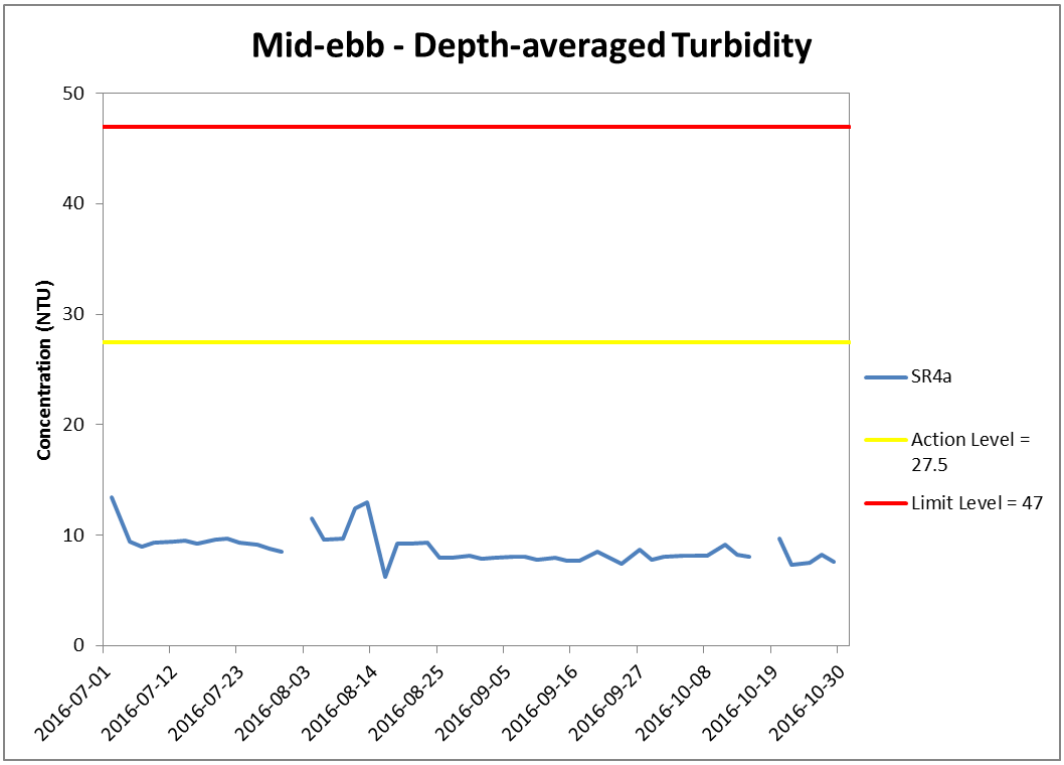
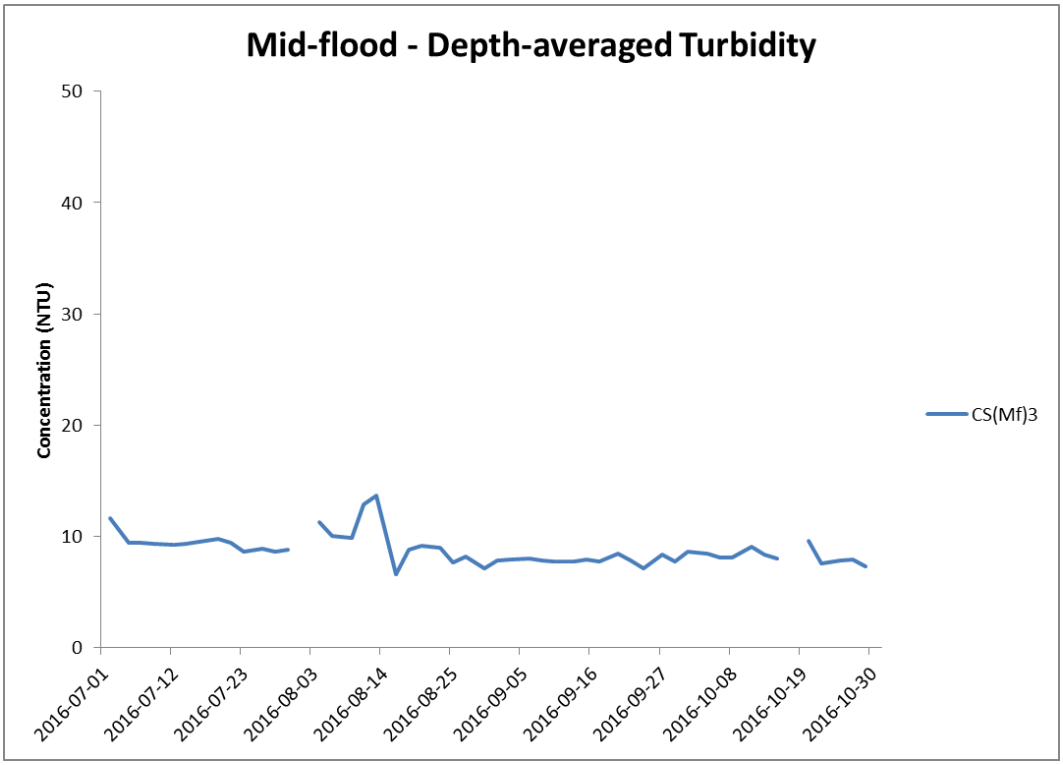


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



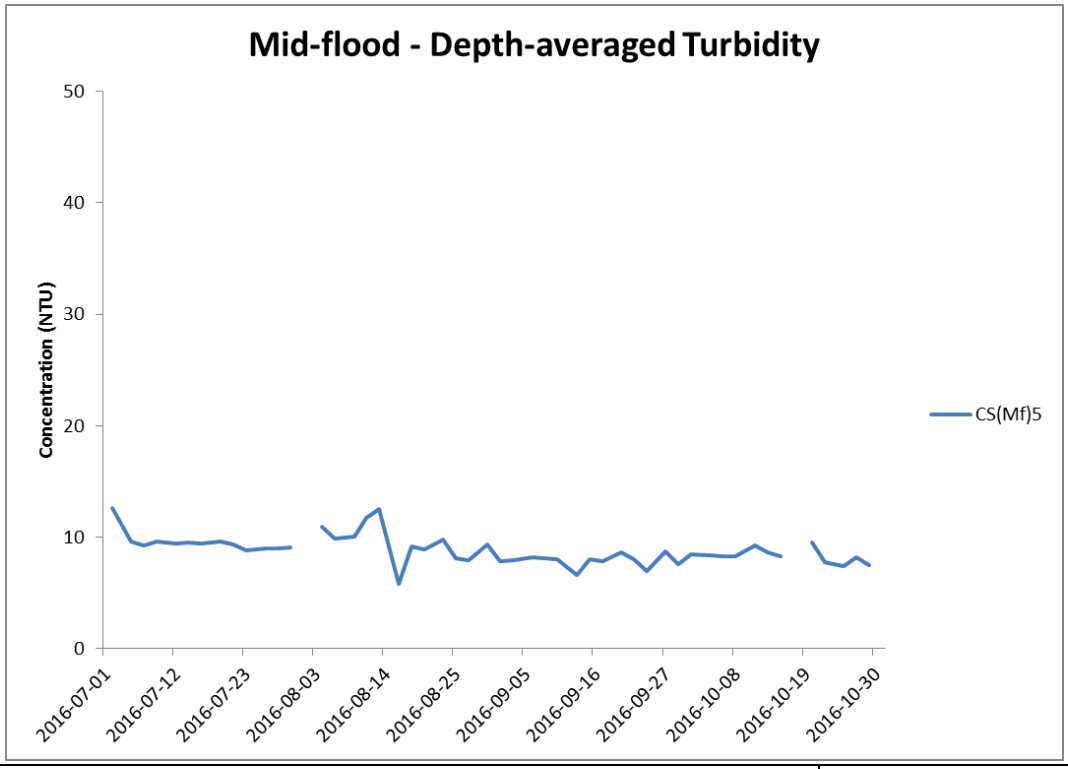
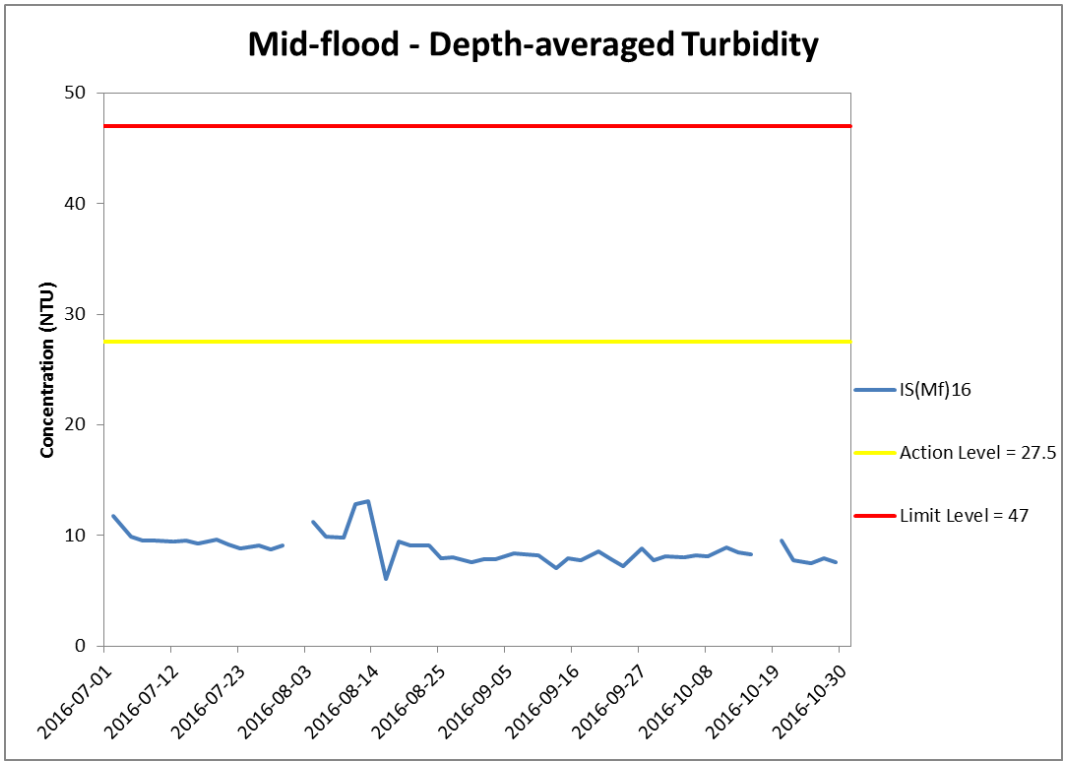


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(MF)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.



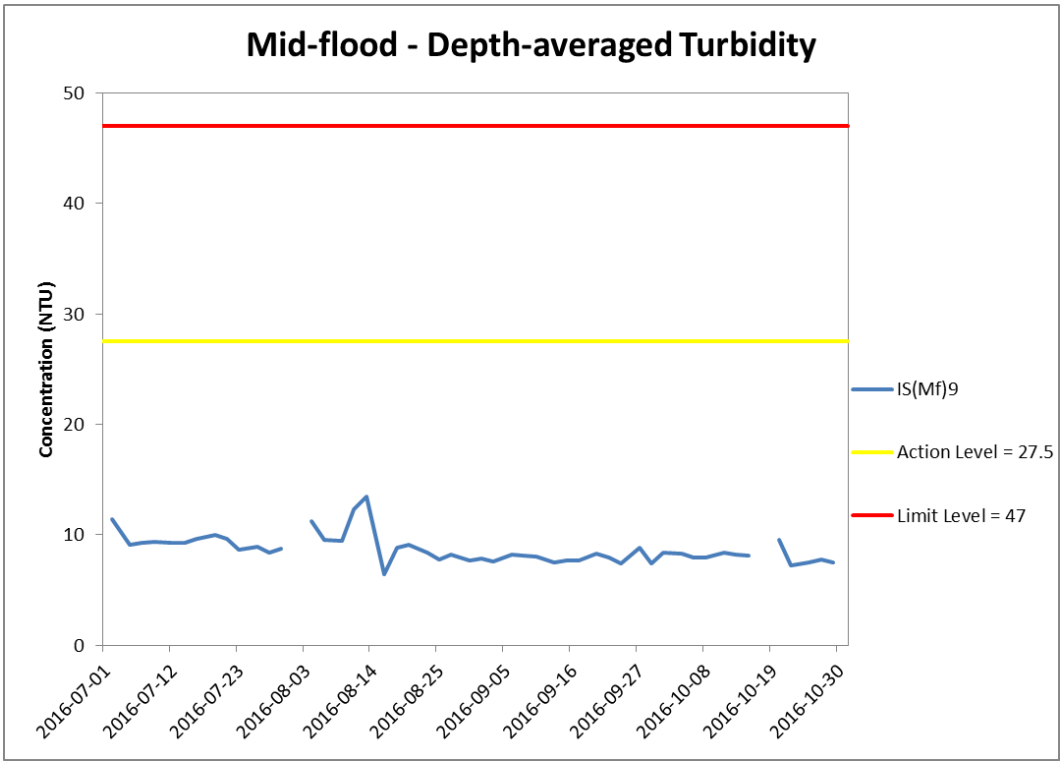
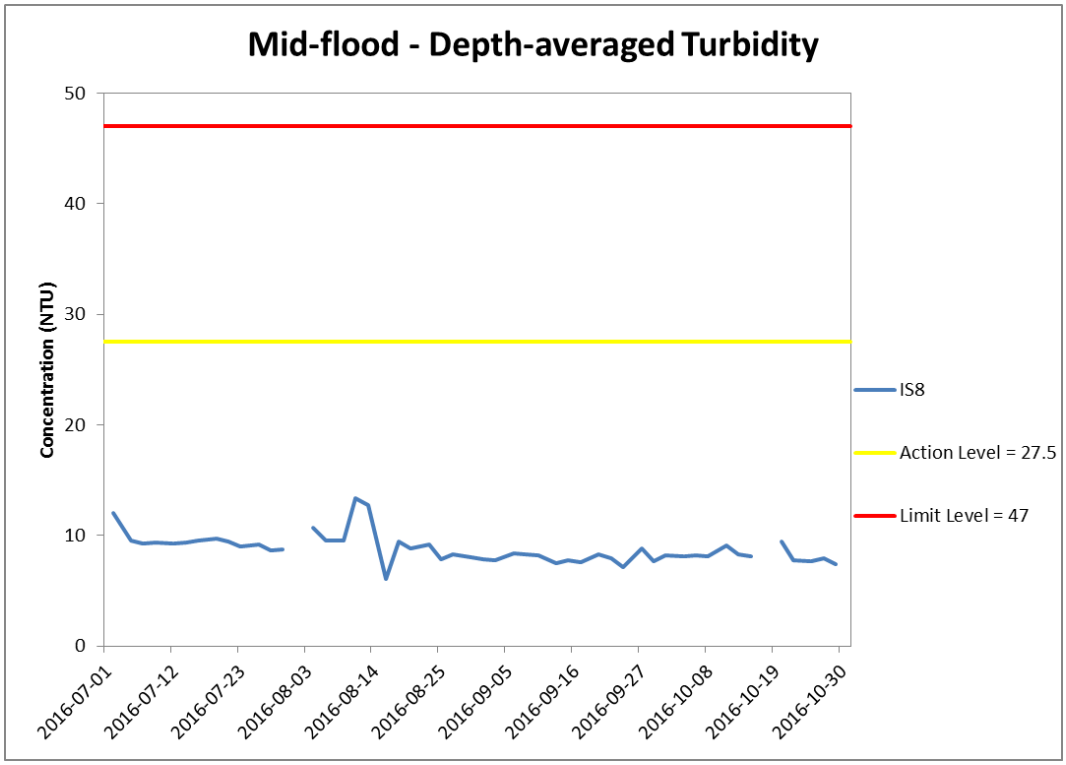
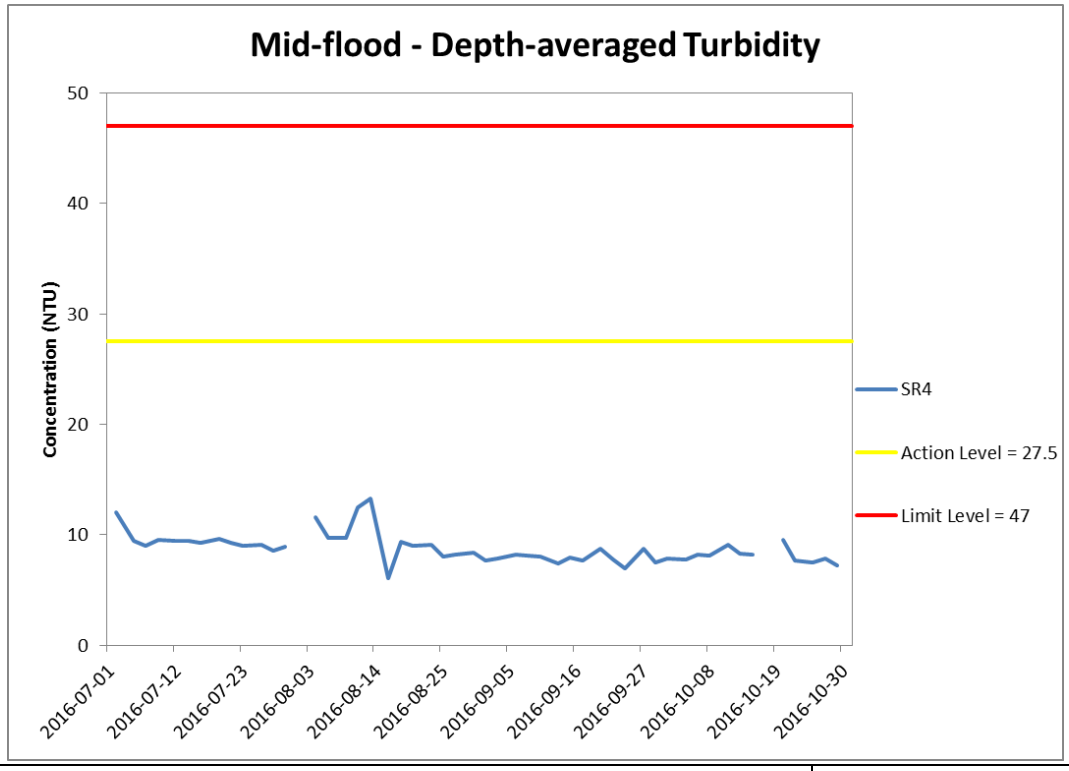


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





`Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

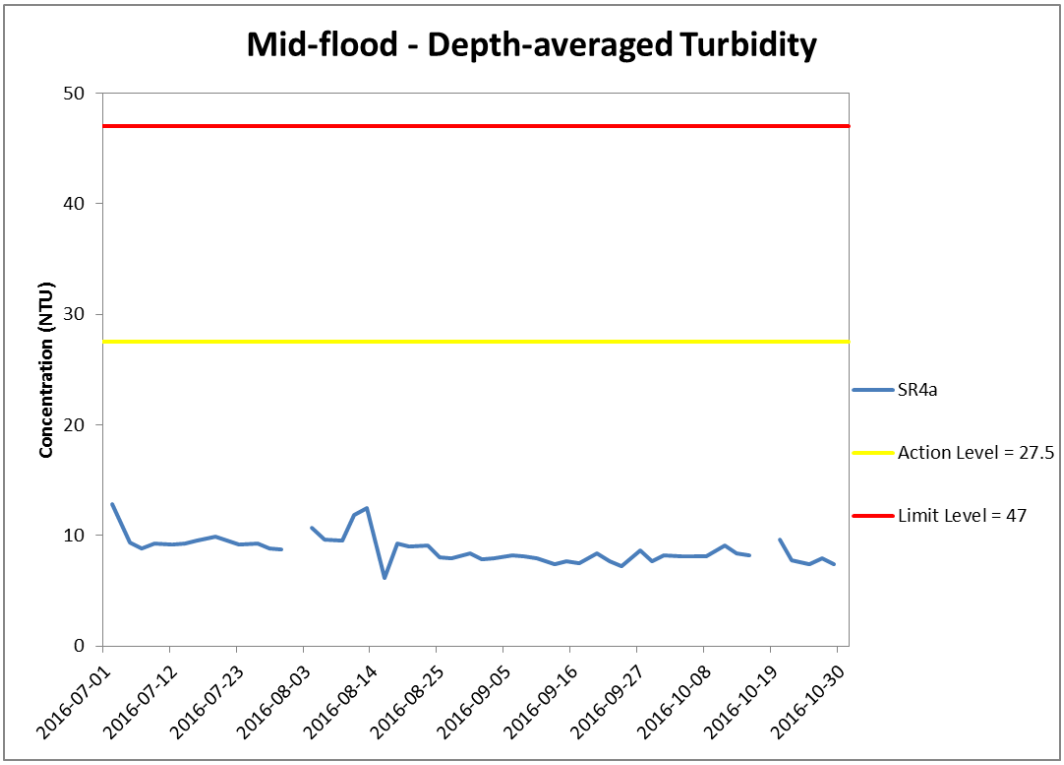
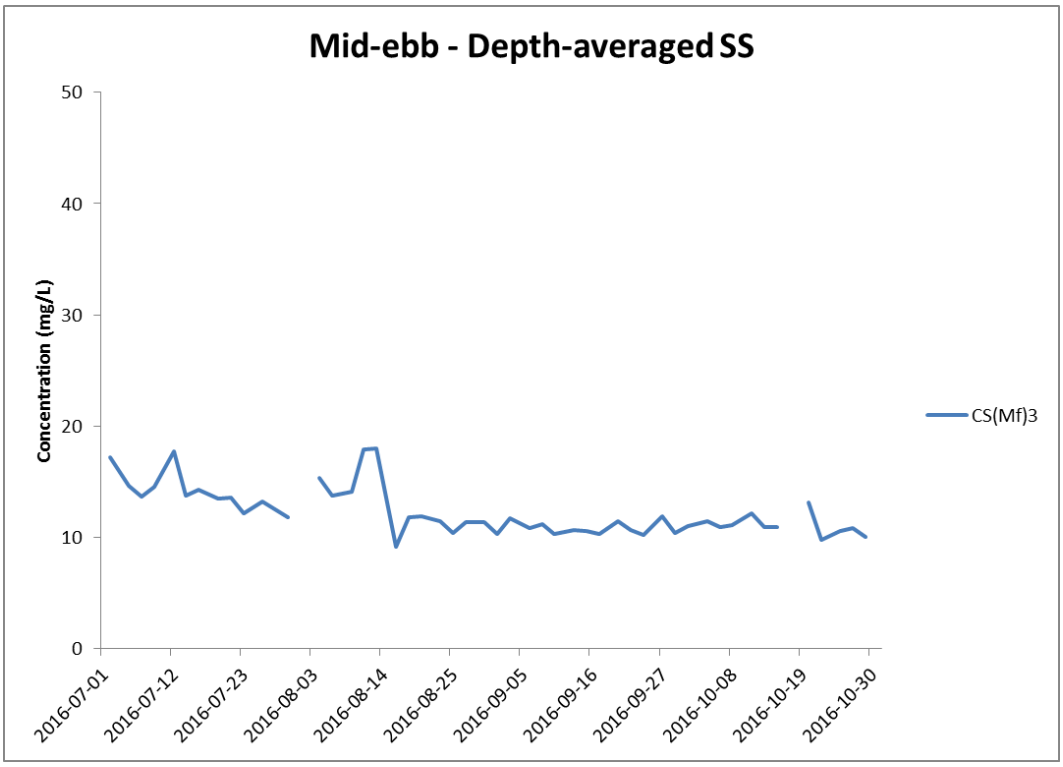


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



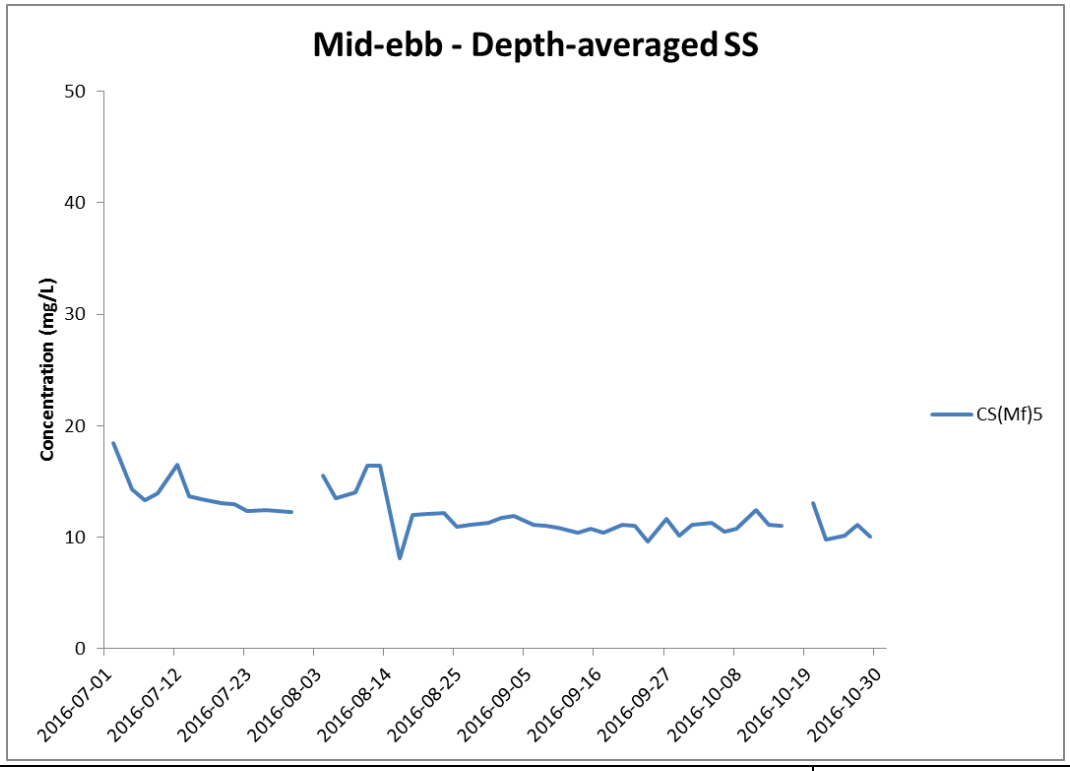
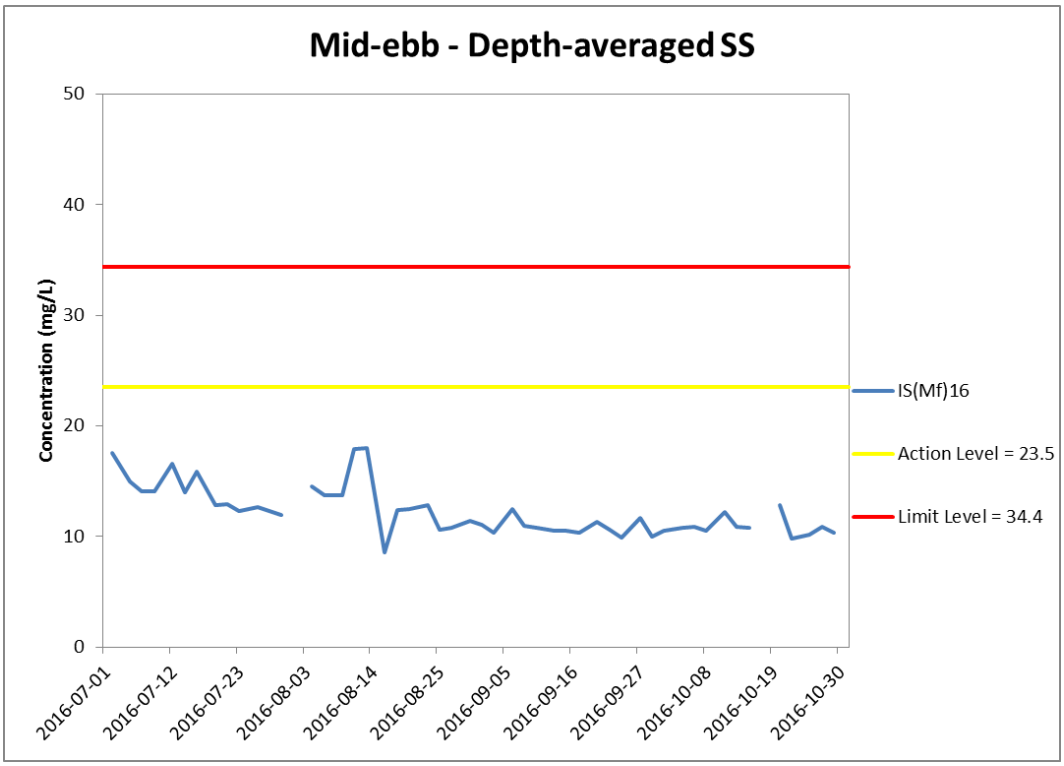


Figure J29 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.



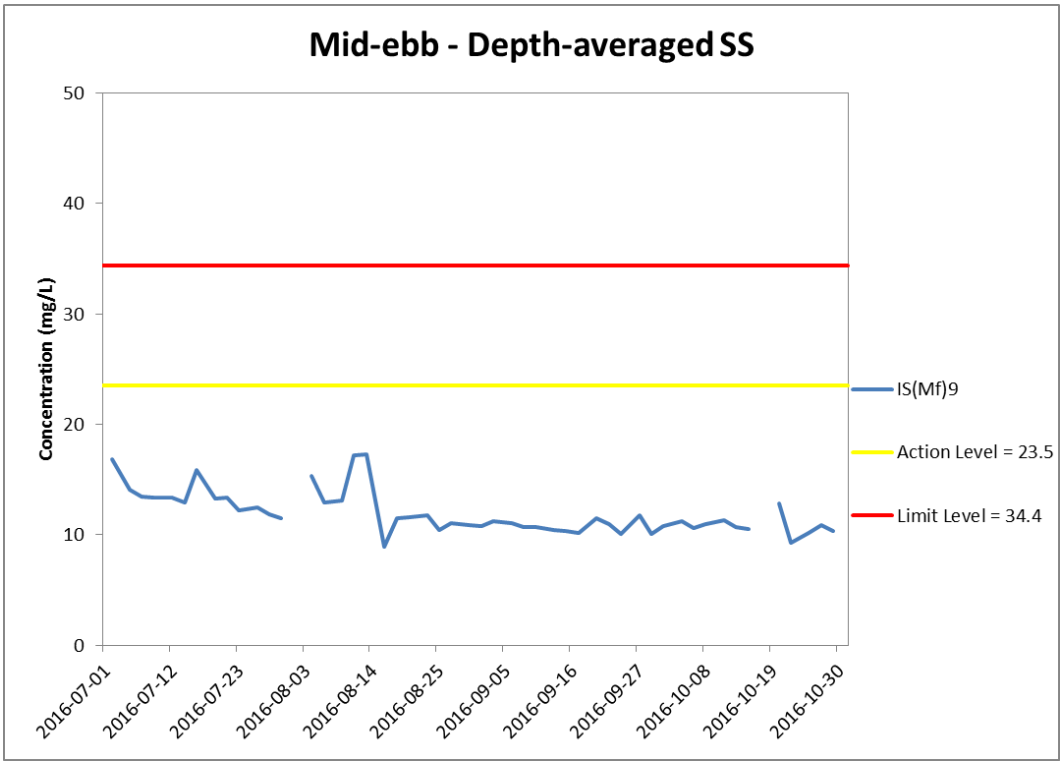
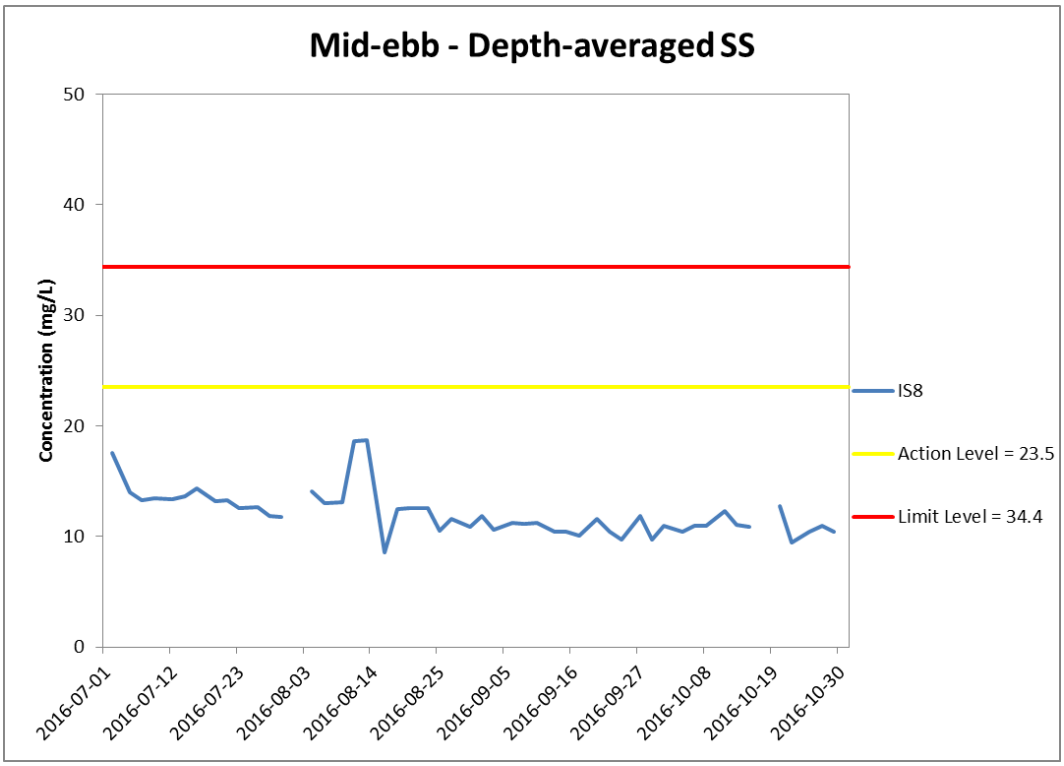


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



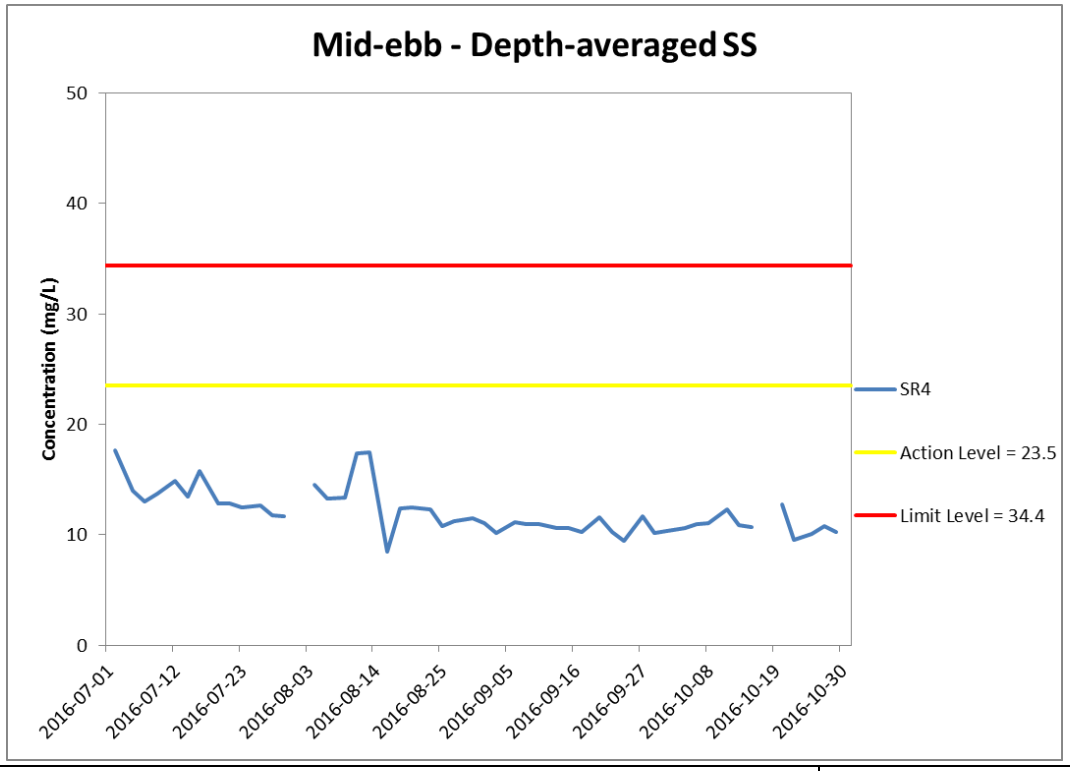


Figure J31 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

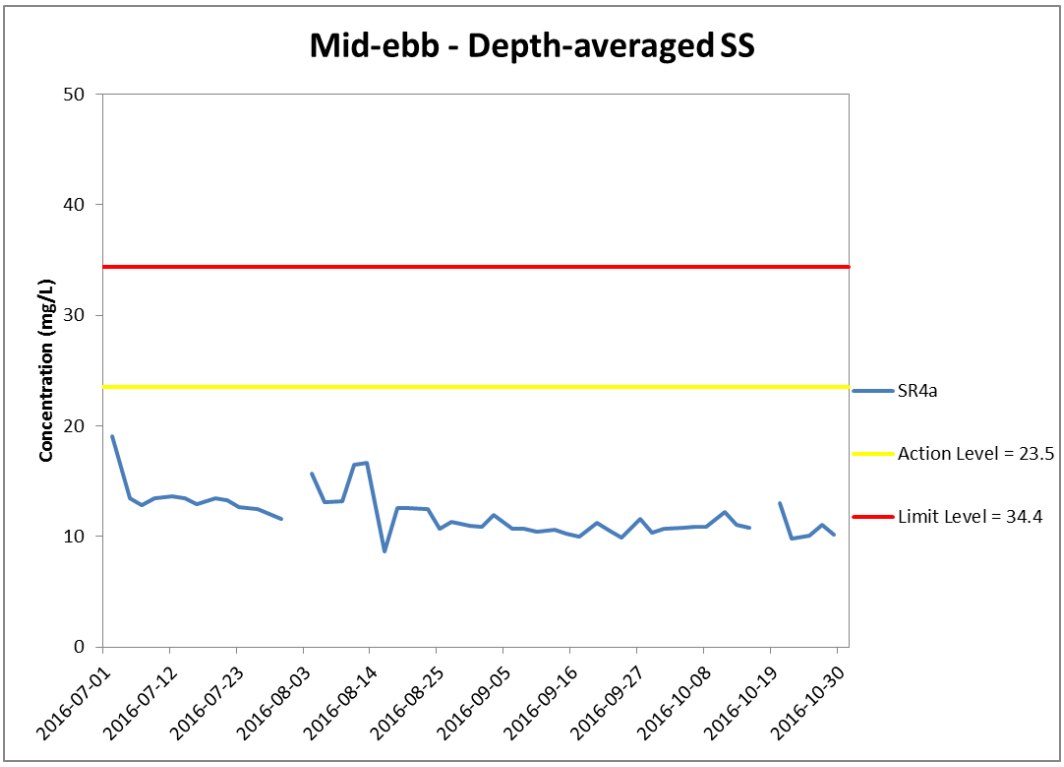
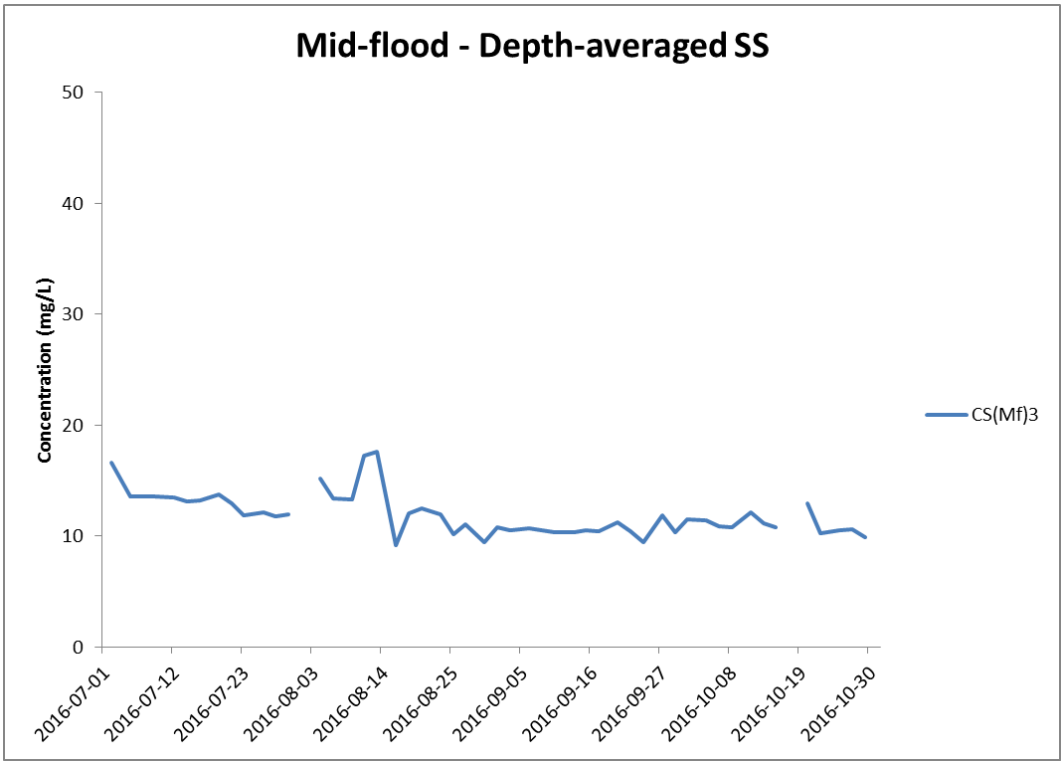


Figure J32 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



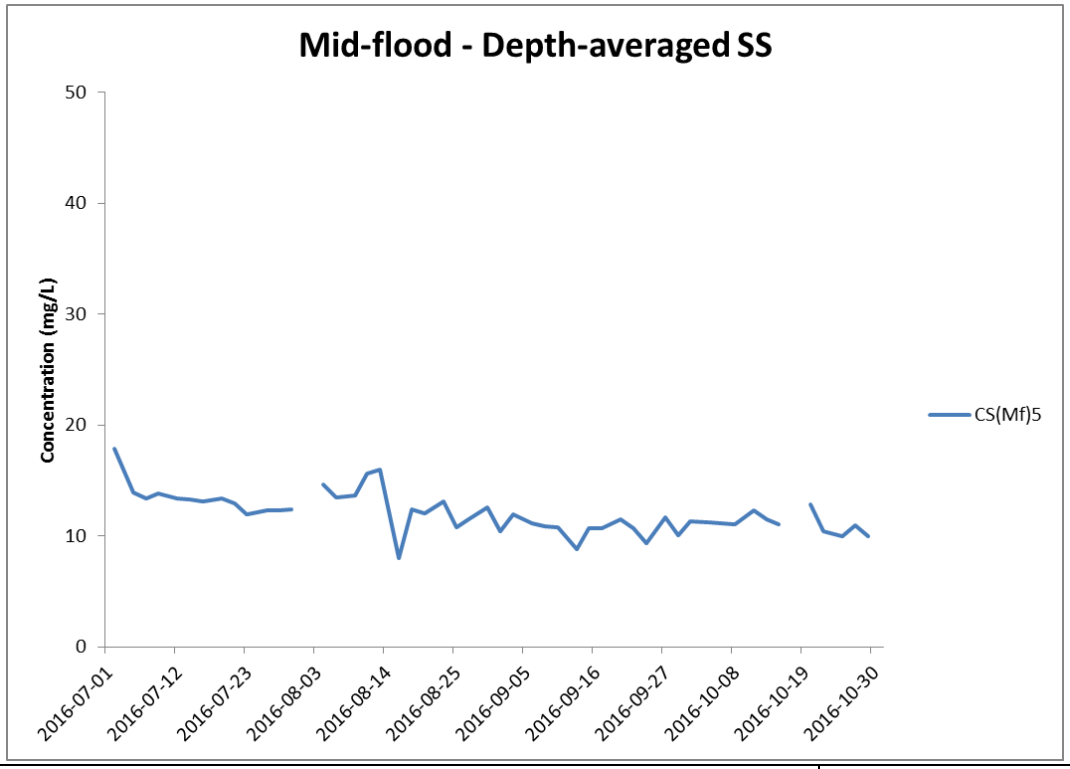
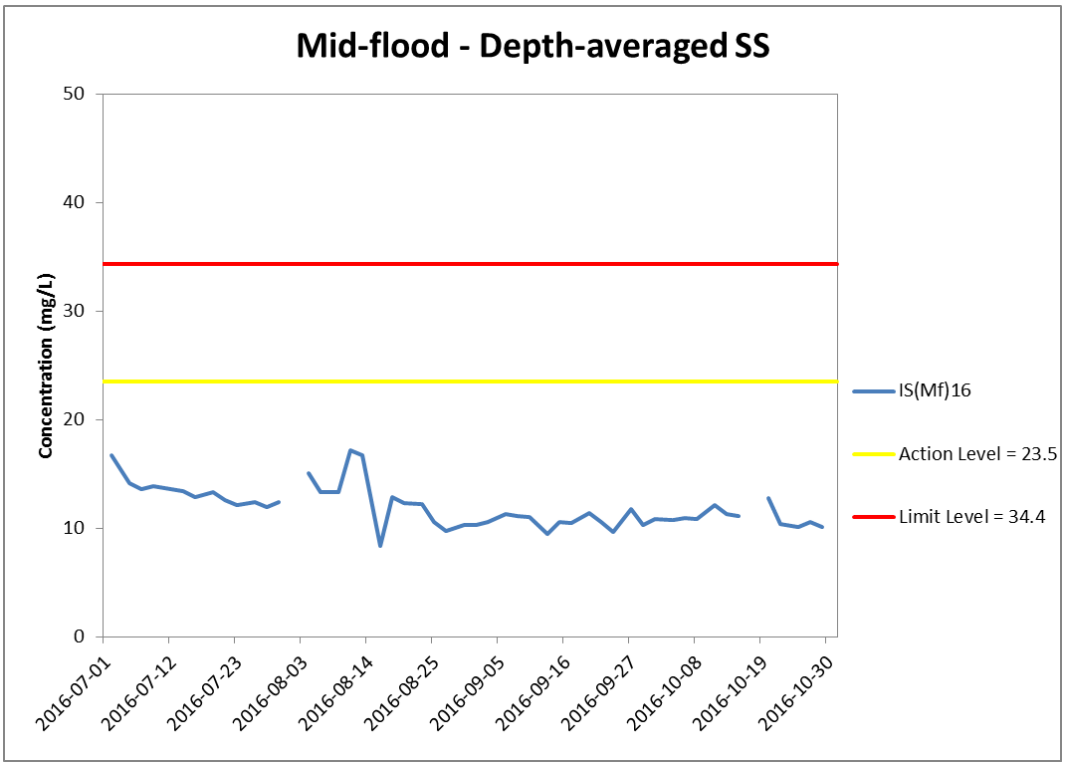


Figure J33 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2016 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM



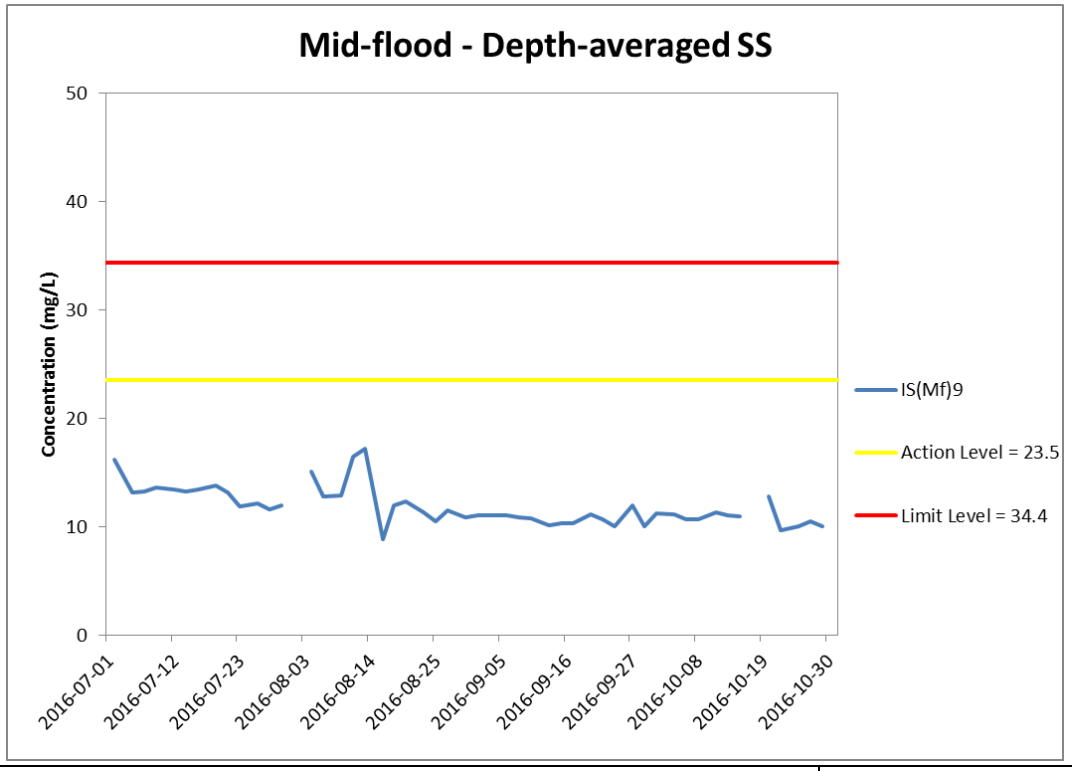
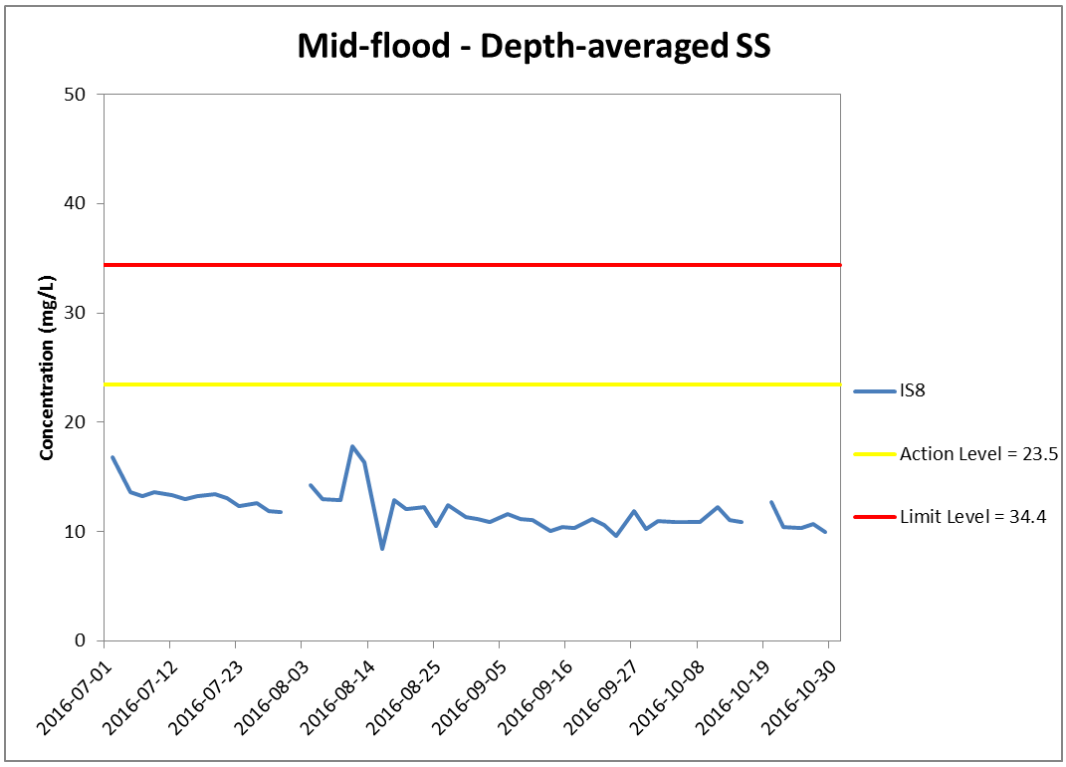


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.



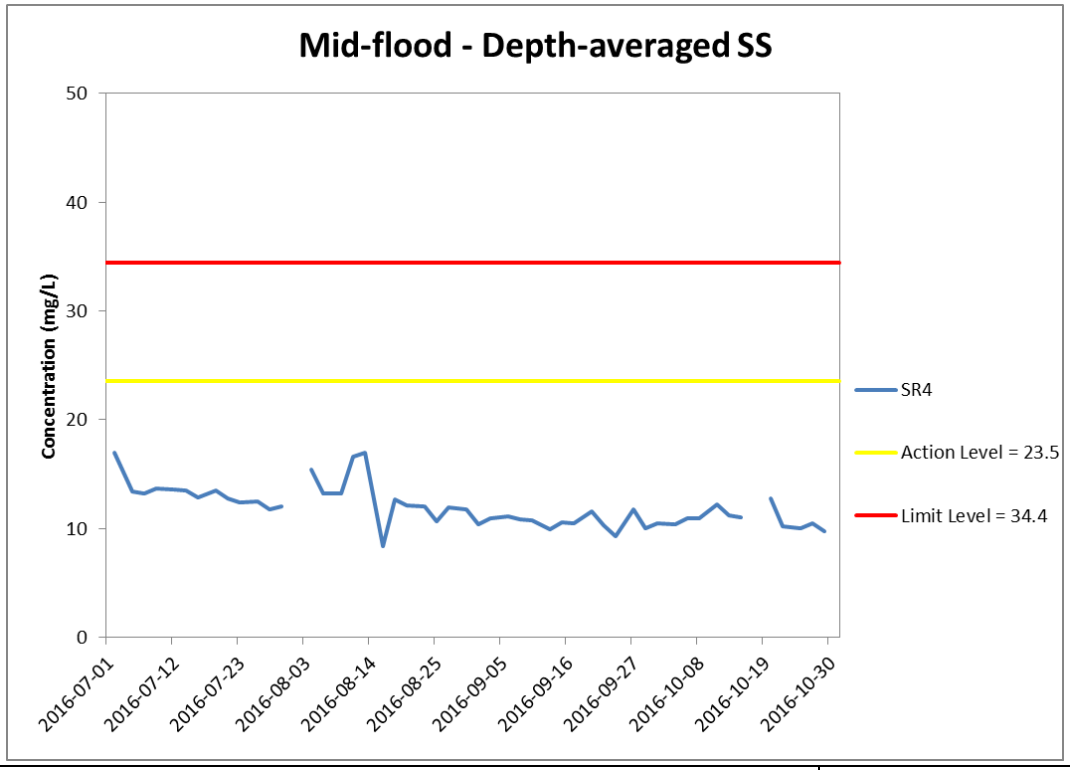


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2016 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

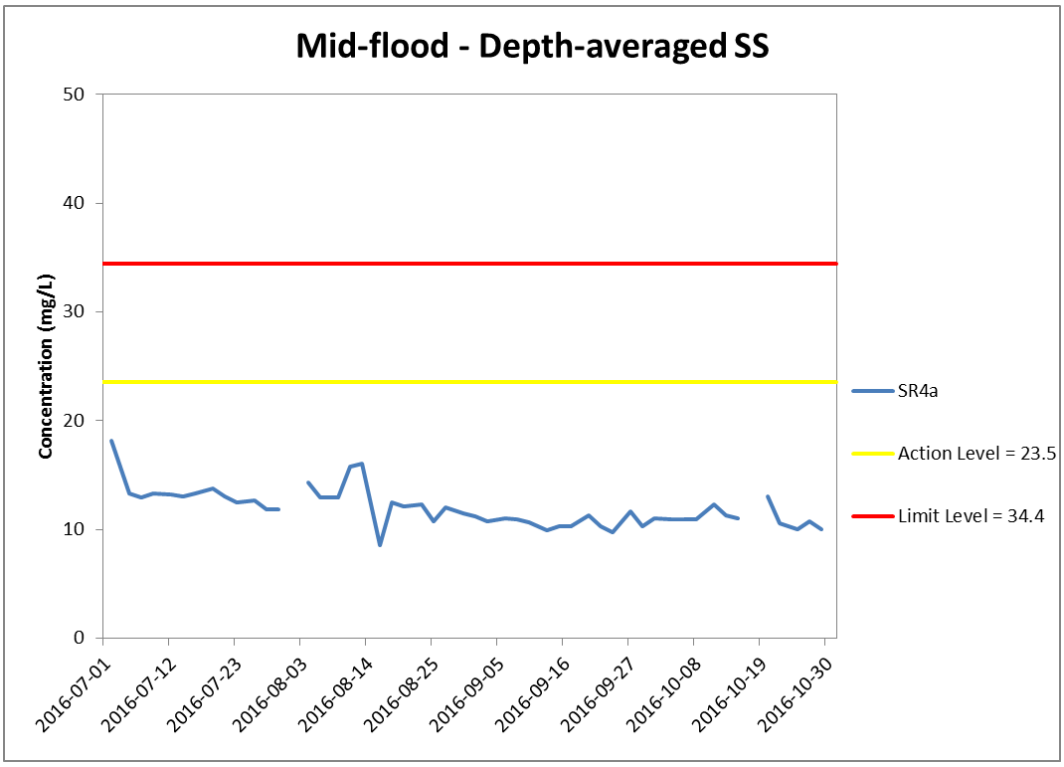


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 July and 31 October 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) WQM on 18 Oct was cancelled due to adverse weather. Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

Environmental Resources Management

ERM

Appendix K

Impact Dolphin Monitoring Survey Results

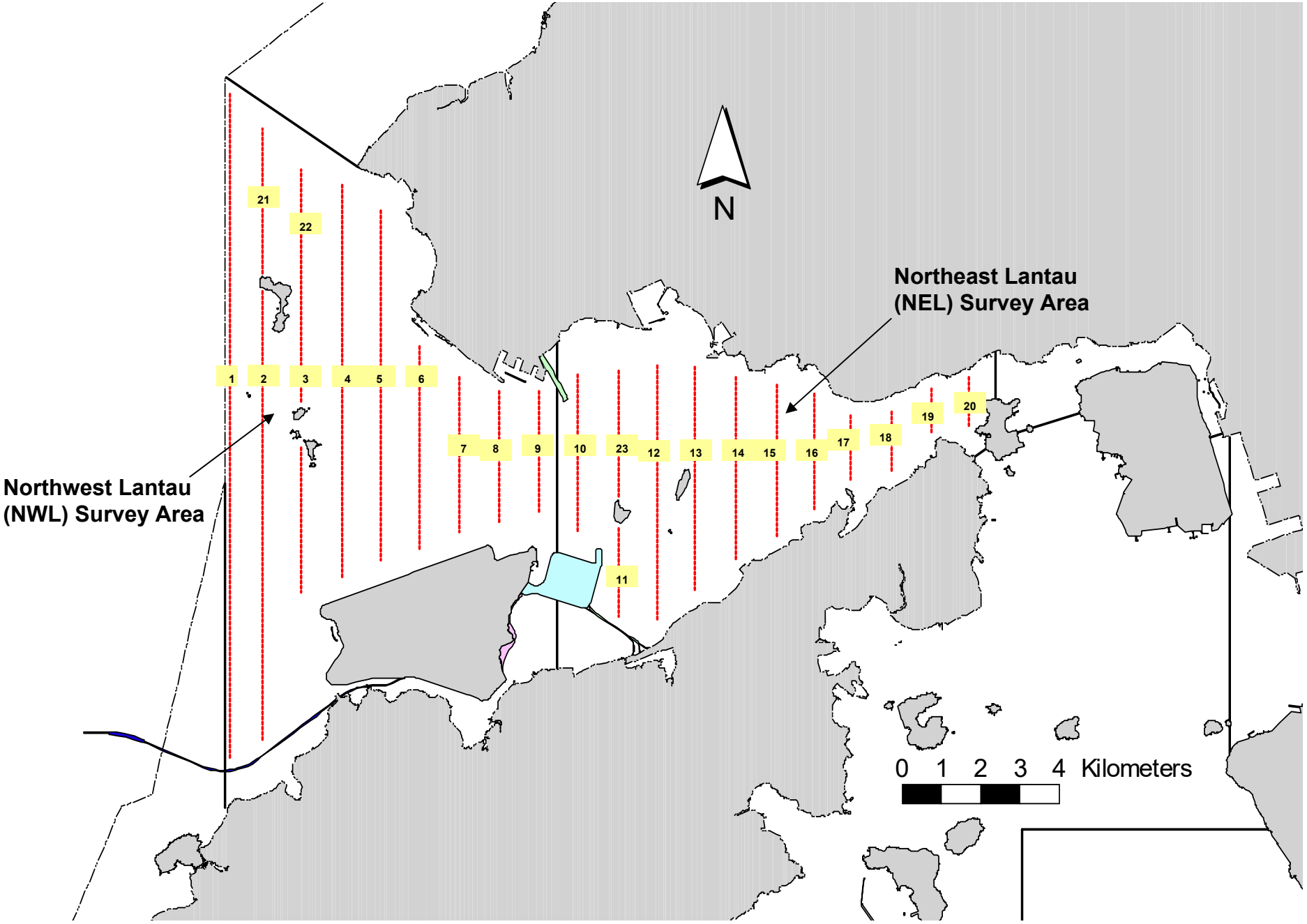


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

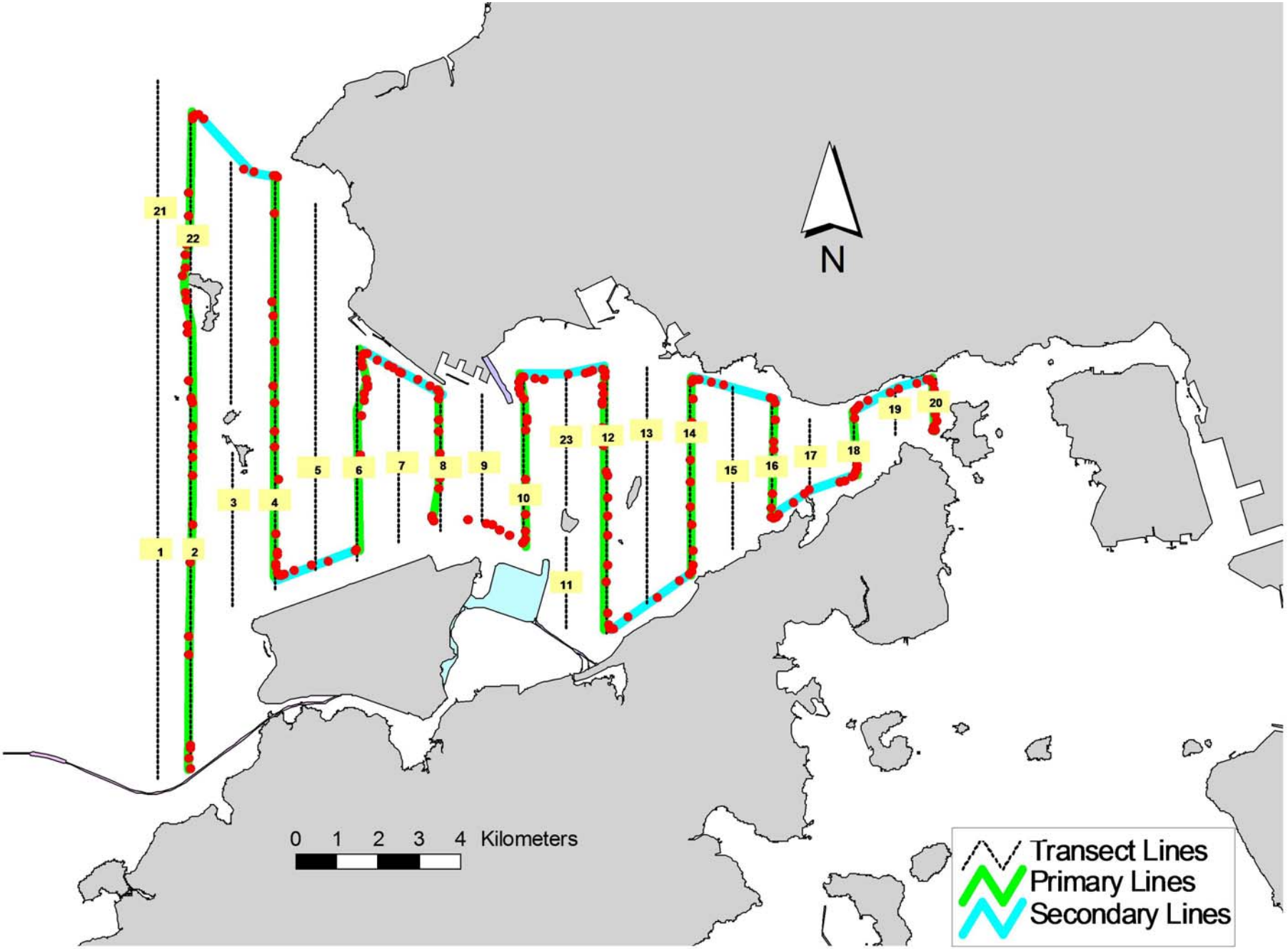


Figure 2. Survey Route on October 4th, 2016 (from HKLR03 project)

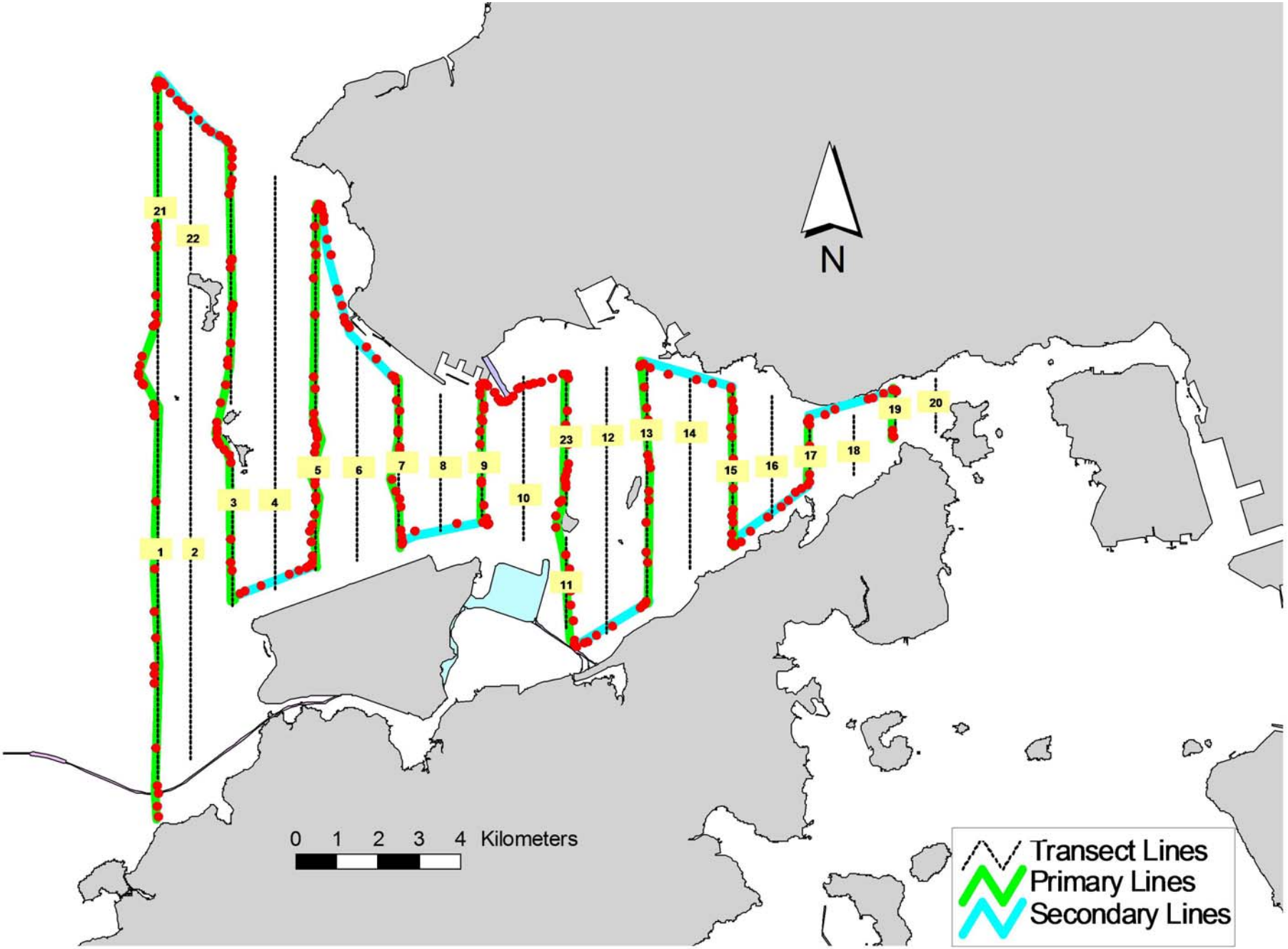


Figure 3. Survey Route on October 7th, 2016 (from HKLR03 project)

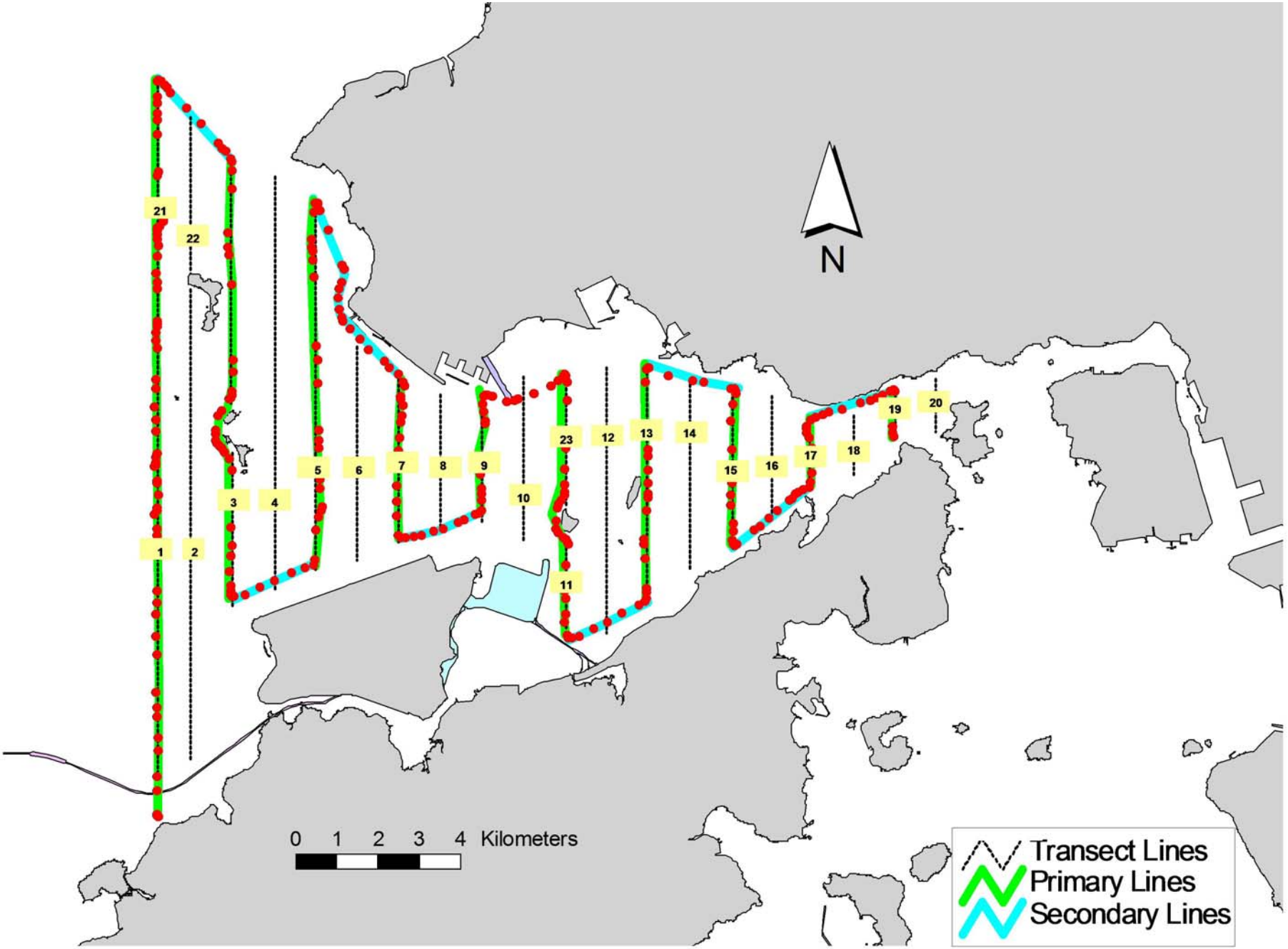


Figure 4. Survey Route on October 11th, 2016 (from HKLR03 project)

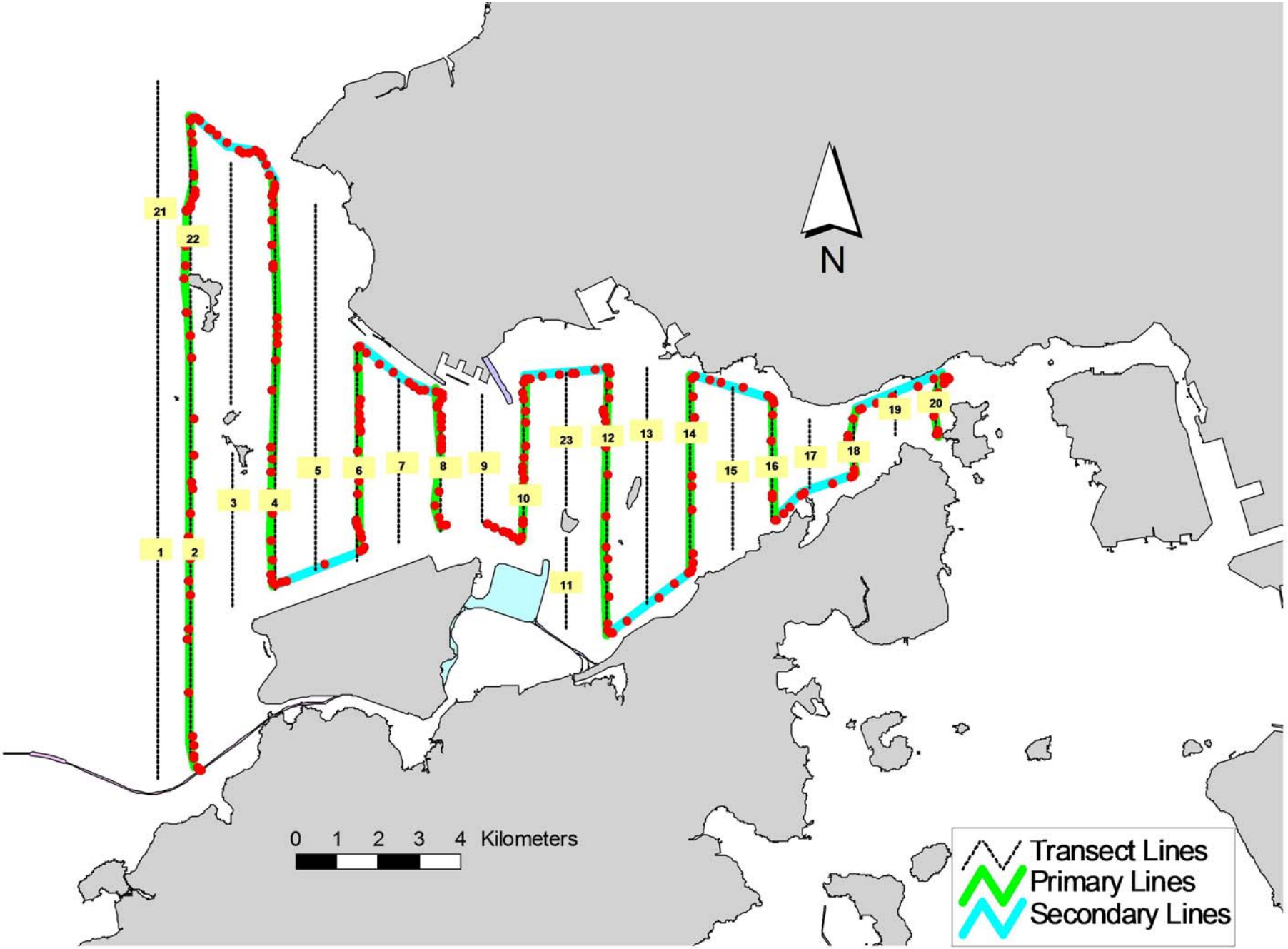


Figure 5. Survey Route on October 13th, 2016 (from HKLR03 project)

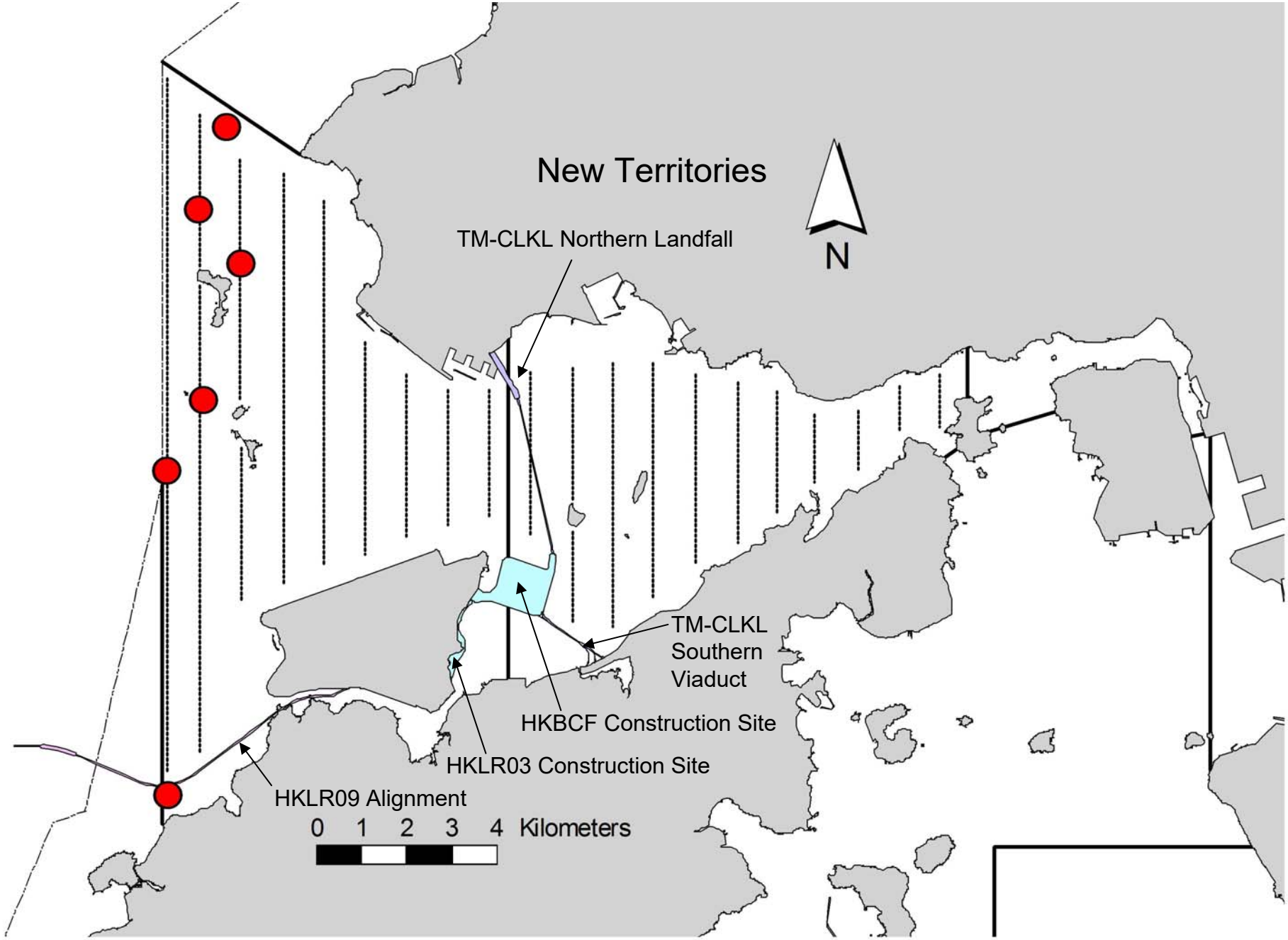


Figure 6. Distribution of Chinese White Dolphin Sightings during October 2016 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (October 2016)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
4-Oct-16	NW LANTAU	2	25.94	AUTUMN	STANDARD36826	HKLR	P
4-Oct-16	NW LANTAU	3	5.70	AUTUMN	STANDARD36826	HKLR	P
4-Oct-16	NW LANTAU	2	6.60	AUTUMN	STANDARD36826	HKLR	S
4-Oct-16	NE LANTAU	2	15.22	AUTUMN	STANDARD36826	HKLR	P
4-Oct-16	NE LANTAU	3	4.57	AUTUMN	STANDARD36826	HKLR	P
4-Oct-16	NE LANTAU	2	10.41	AUTUMN	STANDARD36826	HKLR	S
7-Oct-16	NE LANTAU	2	16.19	AUTUMN	STANDARD36826	HKLR	P
7-Oct-16	NE LANTAU	2	10.71	AUTUMN	STANDARD36826	HKLR	S
7-Oct-16	NW LANTAU	1	4.54	AUTUMN	STANDARD36826	HKLR	P
7-Oct-16	NW LANTAU	2	36.45	AUTUMN	STANDARD36826	HKLR	P
7-Oct-16	NW LANTAU	1	1.03	AUTUMN	STANDARD36826	HKLR	S
7-Oct-16	NW LANTAU	2	11.81	AUTUMN	STANDARD36826	HKLR	S
7-Oct-16	NW LANTAU	3	0.40	AUTUMN	STANDARD36826	HKLR	S
11-Oct-16	NW LANTAU	2	29.01	AUTUMN	STANDARD36826	HKLR	P
11-Oct-16	NW LANTAU	3	10.75	AUTUMN	STANDARD36826	HKLR	P
11-Oct-16	NW LANTAU	2	12.21	AUTUMN	STANDARD36826	HKLR	S
11-Oct-16	NW LANTAU	3	1.40	AUTUMN	STANDARD36826	HKLR	S
11-Oct-16	NE LANTAU	2	15.82	AUTUMN	STANDARD36826	HKLR	P
11-Oct-16	NE LANTAU	3	0.80	AUTUMN	STANDARD36826	HKLR	P
11-Oct-16	NE LANTAU	2	7.48	AUTUMN	STANDARD36826	HKLR	S
11-Oct-16	NE LANTAU	3	2.40	AUTUMN	STANDARD36826	HKLR	S
13-Oct-16	NW LANTAU	2	14.72	AUTUMN	STANDARD36826	HKLR	P
13-Oct-16	NW LANTAU	3	15.81	AUTUMN	STANDARD36826	HKLR	P
13-Oct-16	NW LANTAU	2	3.21	AUTUMN	STANDARD36826	HKLR	S
13-Oct-16	NW LANTAU	3	5.06	AUTUMN	STANDARD36826	HKLR	S
13-Oct-16	NE LANTAU	2	20.06	AUTUMN	STANDARD36826	HKLR	P
13-Oct-16	NE LANTAU	2	11.14	AUTUMN	STANDARD36826	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (October 2016)

(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
04-Oct-16	1	1039	1	NW LANTAU	2	14	ON	HKLR	823995	805534	AUTUMN	NONE	P
04-Oct-16	2	1114	2	NW LANTAU	2	377	ON	HKLR	830283	806082	AUTUMN	NONE	S
07-Oct-16	1	1419	4	NW LANTAU	1	103	ON	HKLR	827149	806447	AUTUMN	NONE	P
07-Oct-16	2	1553	2	NW LANTAU	2	8	ON	HKLR	814927	804671	AUTUMN	NONE	P
11-Oct-16	1	1049	1	NW LANTAU	2	243	ON	HKLR	822391	804655	AUTUMN	NONE	P
13-Oct-16	1	1104	5	NW LANTAU	3	69	ON	HKLR	828391	805399	AUTUMN	NONE	P

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in October 2016

ID#	DATE	STG#	AREA
CH34	13/10/16	1	NW LANTAU
NL104	13/10/16	1	NW LANTAU
NL136	04/10/16	2	NW LANTAU
NL182	04/10/16	2	NW LANTAU
NL202	07/10/16	1	NW LANTAU
	13/10/16	1	NW LANTAU
NL286	07/10/16	1	NW LANTAU
	13/10/16	1	NW LANTAU
NL320	07/10/16	1	NW LANTAU
NL321	13/10/16	1	NW LANTAU
WL243	07/10/16	2	NW LANTAU

Appendix IV. Photographs of Identified Individual Dolphins in October 2016 (HKLR03)

Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 Event/ Action Plan for Air Quality

	ACTION			
EVENT	**ET** [(1)]	**IEC** [(1)]	**SOR**[(1)]	**Contractor**
Action Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by the ET. 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Discuss with the IEC and the Contractor on remedial actions required. 6. If exceedance continues, arrange meeting with the IEC and the SOR. 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

	ACTION			
EVENT	**ET** [(1)]	**IEC** [(1)]	**SOR** [(1)]	**Contractor**
Limit Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the SOR and the DEP. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.	1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented.	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify the IEC, the SOR, the DEP and the Contractor. 2. Identify the source. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. 7. Assess effectiveness of the Contractor's remedial actions	1. Discuss amongst the SOR, ET and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.

and keep the IEC, the DEP and the SOR informed of the results.	
8. If the exceedance stops, cease additional monitoring.	

Appendix L2 Event/ Action Plan for Construction Noise

	ACTION			
EVENT	**ET**	**IEC**	**SOR**	**Contractor**
Action Level	1. Notify the IEC and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the SOR accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals
Limit Level	1. Notify the IEC, the SOR, the DEP and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, the SOR and the DEP the causes & actions taken for the exceedances. 7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst the SOR, the ET and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.

Appendix L3 Event/ Action Plan for Water Quality

Event	ET Leader	IEC	SOR	Contractor
Action level being exceeded by one sampling day	1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SOR; 4. Check monitoring data, all plant, equipment and Contractor's working methods.	1. Check monitoring data submitted by ET and Contractor's working methods.	1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor.	1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Action level;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Supervising Officer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Repeat measurement on next day of exceedance to confirm findings;	1. Check monitoring data submitted by ET and Contractor's working method;	1. Confirm receipt of notification of failure in writing;	1. Inform the SOR and confirm notification of the non-compliance in writing;

Event	ET Leader	IEC	SOR	Contractor
	2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor;	2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods.	2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. 5. Ensure mitigation measures are properly implemented; 6. 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.	1. Take immediate action to avoid further exceedance; 2. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Appendix L4 Implementation of Event-Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	SOR	Contractor
Action Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor.	1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be implemented.	1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR; 3. Implement the agreed measures.

Event	ET Leader	IEC	SOR	Contractor
Limit Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring and/or any other mitigation measures.	1. Inform the ER/SOR and confirm notification of the non- compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

EVENT	ACTION			
	ET Leader	**IEC**	**SO**	**Contractor**
Action Level With the numerical values presented in *Table 5.7* of *Baseline Monitoring Report*, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see *Table 5.8* of *Baseline Monitoring Report*), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SO and Contractor; 5. Check monitoring data; 6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor;	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented.	1. Inform the SO and confirm notification of the non- compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures.

EVENT	ACTION			
	ET Leader	**IEC**	**SO**	**Contractor**
Limit Level With the numerical values presented in Table 5.7 of *Baseline Monitoring Report*, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see Table 5.8 of *Baseline Monitoring Report*), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SO and Contractor; 5. Check monitoring data; 6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary 7. Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor; 3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly.	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented.	1. Inform the SO and confirm notification of the non- compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, SO – Supervising Office, DEP – Director of Environmental Protection

Appendix M

Monthly Summary of Waste Flow Table

Contract No. : HY/2012/07
Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section
Monthly Summary Waste Flow Table for 2016 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation						Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Marine Sediment, Cat. H	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	1.941	0.263	0.606	-	1.334	-	-	-	-	-	-	69.400	-	-	0.105	-
Feb	0.783	0.185	0.092	-	0.692	-	-	-	-	-	-	85.890	-	-	0.112	-
Mar	1.502	0.429	0.537	-	0.965	-	-	-	-	-	2.000	88.360	-	-	-	-
Apr	1.354	0.402	0.789	-	0.565	-	-	-	-	-	3.000	79.580	-	8.640	0.084	-
May	1.057	0.192	0.617	-	0.440	-	-	-	-	-	3.000	75.620	-	-	-	-
Jun	0.499	0.277	0.116	-	0.383	-	-	-	-	-	-	103.270	-	-	0.105	-
SUB-TOTAL	**7.136**	**1.747**	**2.757**	**-**	**4.379**	**0.000**	**-**	**-**	**-**	**-**	**8.000**	**502.120**	**-**	**8.640**	**0.406**	**-**
Jul	0.507	0.211	0.230	-	0.277	-	-	-	-	-	2.200	94.760	-	1.540	0.350	-
Aug	1.294	0.144	0.684	-	0.610	-	-	-	-	-	-	116.990	-	9.790	0.098	-
Sep	2.584	0.155	0.270	-	2.314	-	-	-	-	-	-	130.060	-	-	0.105	-
Oct	2.338	0.180	0.156	-	2.183	-	-	-	-	-	-	141.300	-	-	0.028	-
Nov				-		-	-	-	-	-			-			-
Dec				-		-	-	-	-	-			-			-
TOTAL	**13.858**	**2.437**	**4.096**	**-**	**9.762**	**-**	**-**	**-**	**-**	**-**	**10.200**	**985.230**	**-**	**19.970**	**0.987**	**-**

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.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix N

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix N1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	**Total No. recorded since project commencement**
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	0	2
	Limit	0	0
Impact Dolphin Monitoring	Action	0	9
	Limit	0	6

Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	**Cumulative Statistics**		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (October 2016)	0	0	0
Total No. received since project commencement	5	0	0